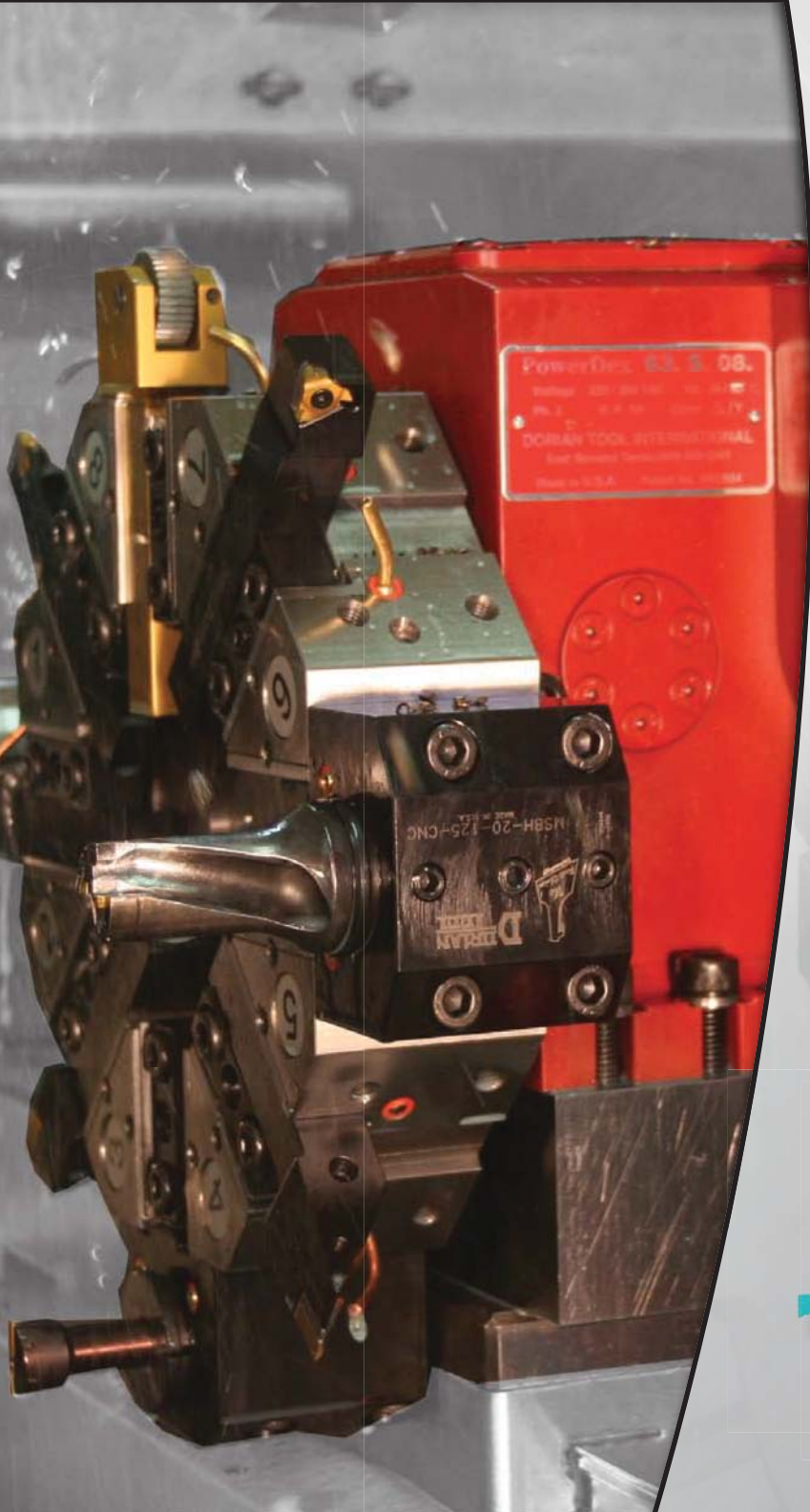


A Lathe Accessories

For CNC And Manual Lathes





Enrico R. Giannetti
President

A Word from the President:

Since the introduction of the Quadra Index Tool Post in 1982, the Dorian Evolution has never stopped. By developing new ideas and promoting new technology, Dorian Tool has continuously improved it's service, technical support, and delivery to customers.

At Dorian Tool, the quest for innovative tools will never end. Our highly trained and skilled engineers have developed technology that set new standards in the industry and changed the machining process forever.

Today, Dorian Tool offers a wide selection of products for manual and CNC machines. From carbide inserts to toolholders; knurling tools to marking tools; machine tool accessories to automated turrets & rotary tables; tool setters to tool presetters; our tool selection has become the First Choice Technology for thousands of small and large shops around the world.

Thank you for making Dorian Tool successful. Our success comes from the original commitment we made to our customers:

Technology, Quality, & Service



Table Of Contents

Page

Quadra® Indexing Quick Change Tool Post & Toolholders

11-26



Selection Chart	12-13
Locking & Indexing System	14
Tool Post Anatomy	15
Tool Post Mounting Instructions	16
Tool Post Mounting Data Form	9
Tool Post Applications	17
Tool Post Specifications	15
Toolholders Specifications	18-25
Tool Post SETS	25-26

SUPER Quick Change Tool Post & Toolholders

27-40



Selection Chart	28-29
Triple Action Wedge-Lock System	30
Tool Post Mounting Instructions	31
Tool Post Mounting Data Form	9
Tool Post Specifications	32
Toolholders Specifications	33-39
Tool Post SETS	39-40

Victory™ Automatic Thru-Coolant Tool Post & Toolholders

41-57



Selection Chart	44-45
Automatic Thru Coolant System	47
Triple Action Wedge-Lock System	46
Tool Post Mounting Instructions	48
Tool Post Mounting Data Form	9
Tool Post Specifications	49
Toolholders Specifications	50-56
Tool Post SETS	57

Quick Change Base

58



Quick Change Flat Base Specifications	58
Quick Change Base Specifications	58

Victory™ CNC Quick Change Gang Tool

59-69



Selection Chart	64
Automation Features	60
Installation & Setup	61
Gang Tool Specifications	62-63
Gang Tool Toolholders	65-68
Gang Tool Toolholders SETS	69

Manual & Automated CNC Turrets	70-83
---	--------------



Turret Selection Chart	73
Manual Turret Features	74
Manual Turret Specifications	75
Manual Turret Toolholders	76
Automated CNC Turret Features	77
Automated CNC Turret Assembly	78
Automated CNC Turret Specifications	79
Automated CNC Turret Turret Heads	80
Automated CNC Turret Turret Installation	81
Automated CNC Turret Toolholders	82-83

Bushings	84-85
-----------------	--------------



Boring Bar Bushings	84
Reducer Bushings	84-85
Morse Taper	85
5C Collet Holder	85

Precision ER Collets	86-87
-----------------------------	--------------



Precision ER Collets size 11,16 & 32	86
ER Collet Straight Holder	87

TruJaws® Soft Jaw Machining Adapter	88
--	-----------



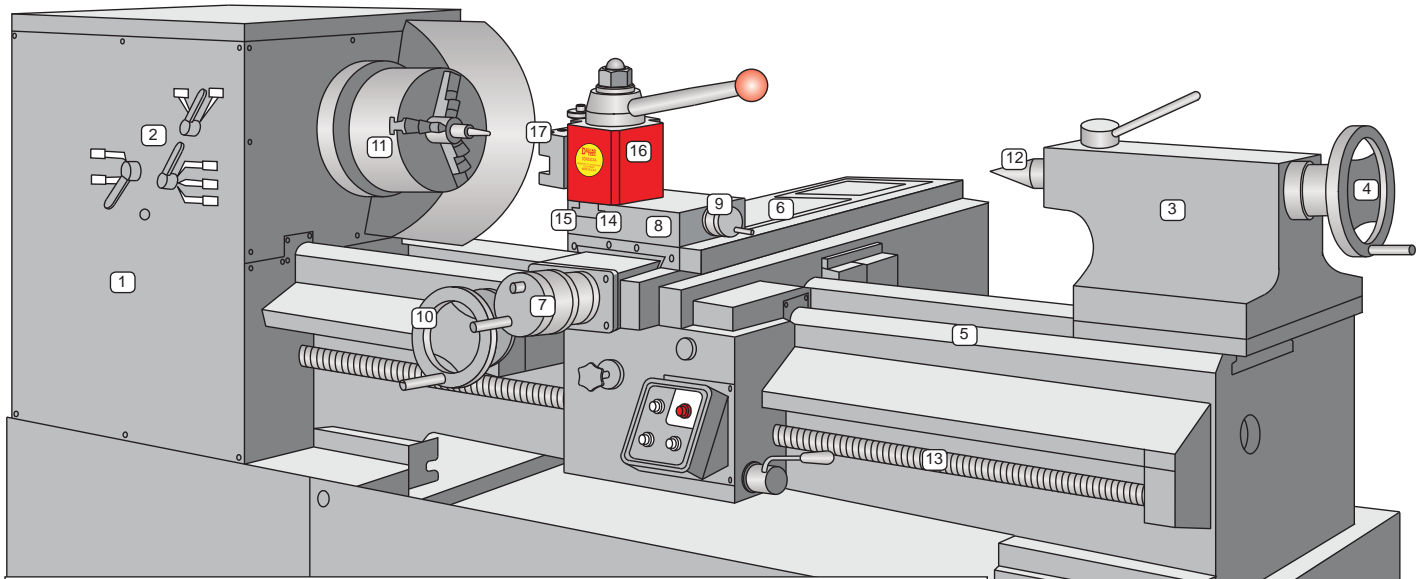
TruJaws® Soft Jaw Machining Adapter Features	88
TruJaws® Soft Jaw Machining Adapter Specifications	88

Spring Loaded Mechanical Marking Device	89-92
--	--------------



CNC Marker Features	89
CNC Marker Instructions	90
CNC Marker Specifications	91
Single & Double Row Stamping Head	91
Standard Steel Stamps	92
Steel Stamps SETS	92

Manual Lathe Terminology



Lathe:

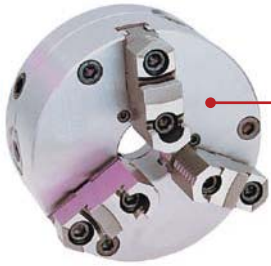
A machine where a tool removes material from the turning cylindrical part. Many styles are available, including: Manual, Programmable, and CNC. Lathes are usually comprised of these basic parts: A driving mechanism for supplying power to the chuck; a material holding device (ex. chuck); a cross slide and compound which carries the tool; tool holding device, or turret; a tailstock for additional support of the work piece; and controls for the operator to interact with the lathe.

1. **Headstock**
The fixed or stationary end of a lathe or similar machine tool.
2. **Speed & Feed Adjustment**
Controls that allow the user to adjust the speed and feed of the lathe.
3. **Tailstock**
That part of a lathe that supports the end of a workpiece with a center. It may be positioned at any point along the way of the bed, and may be offset from center to machine tapers.
4. **Tailstock Spindle Movement Handle**
This handle moves the tail stock in the "Z" axis (towards and away from the chuck).
5. **Bed**
One of the principal parts of a machine tool with accurately machined ways or bearing surfaces to support and align other parts of the machine.
6. **Cross-Slide**
The part of the lathe that moves across the bed. It also holds the compound where the tool holding device is mounted.
7. **Cross-Slide Dial**
This dial moves the cross slide in the "X" axis (toward and away from the operator).
8. **Compound**
The part of a lathe set on the carriage that carries the tool post and holder. It is designed to swing in any direction and to provide feed for turning short angles or tapers.
9. **Compound Dial**
This dial moves the compound toward and away from the handle itself.
10. **Cross Feed Handle**
This handle moves the cross slide and compound in the "Z" axis (towards and away from the chuck).
11. **Chuck**
A device on a lathe to hold the work-piece.
12. **Live Center**
A tool that is inserted into the tailstock to support longer workpieces where the cutting force would deflect the part excessively.
13. **Lead Screw**
The long, precision screw located in front of the lathe bed, geared to the spindle and used for cutting threads.
14. **T-Slot**
Inverted T-shaped slot on the compound of a lathe. Used for securing a toolpost onto the compound.
15. **T-Nut**
AT-shaped nut that is slid into the T-Slot of the compound. It is used to secure a tool holding device to the compound.
16. **Quick Change Tool Post**
A device for holding tooling on the compound of a lathe. It can be as simple as a fixed system for holding one tool or as complex as an indexing quick change system.
17. **Quick Change Holder**
A device to hold a cutting tool on a lathe that uses a system to allow for quick changing of tooling from one operation to the next. It is generally applied by using a dovetail cavity that is slid over a male dovetail on a toolpost.
18. **Center Height**
The distance from the centerline of the chuck to the top of the compound.
19. **Lathe Swing**
The dimension of a lathe determined by the maximum diameter of the workpiece that can be rotated over the ways of the bed.
20. **Shank Size**
The diameter of a round cutting tool or the height of a square shank cutting tool.



Lathe: A machine where a tool removes material from the turning cylindrical part. Many styles are available, such as: **Manual**, **Combination** and **CNC**. Lathes are usually comprised of these basic parts: A **Spindle** which is a driving mechanism for supplying power to the chuck (a material holding device) ; a **cross-slide** compound which carries the tool; tool holding device, or turret; a **tailstock** for additional support of the work piece; and **controls** for the operator to interact with the lathe.

Spindle: Driving mechanism that supplies power to the chuck. The chuck is the device that holds the workpiece.



Chuck

Cross-Slide: Where the tooling device such as a toolpost or turret is set up.



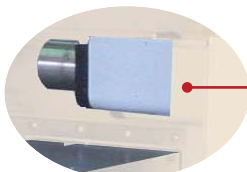
Cross-Slide

Live Center: A tool that is inserted into the tailstock of the lathe to support longer workpieces where the cutting force would deflect the part excessively.



Live Center

Tail Stock: The part of a lathe that supports the end of a workpiece with a center. It may be positioned at any point along the way of the bed and may be offset from center to machine tapers.



Tail Stock

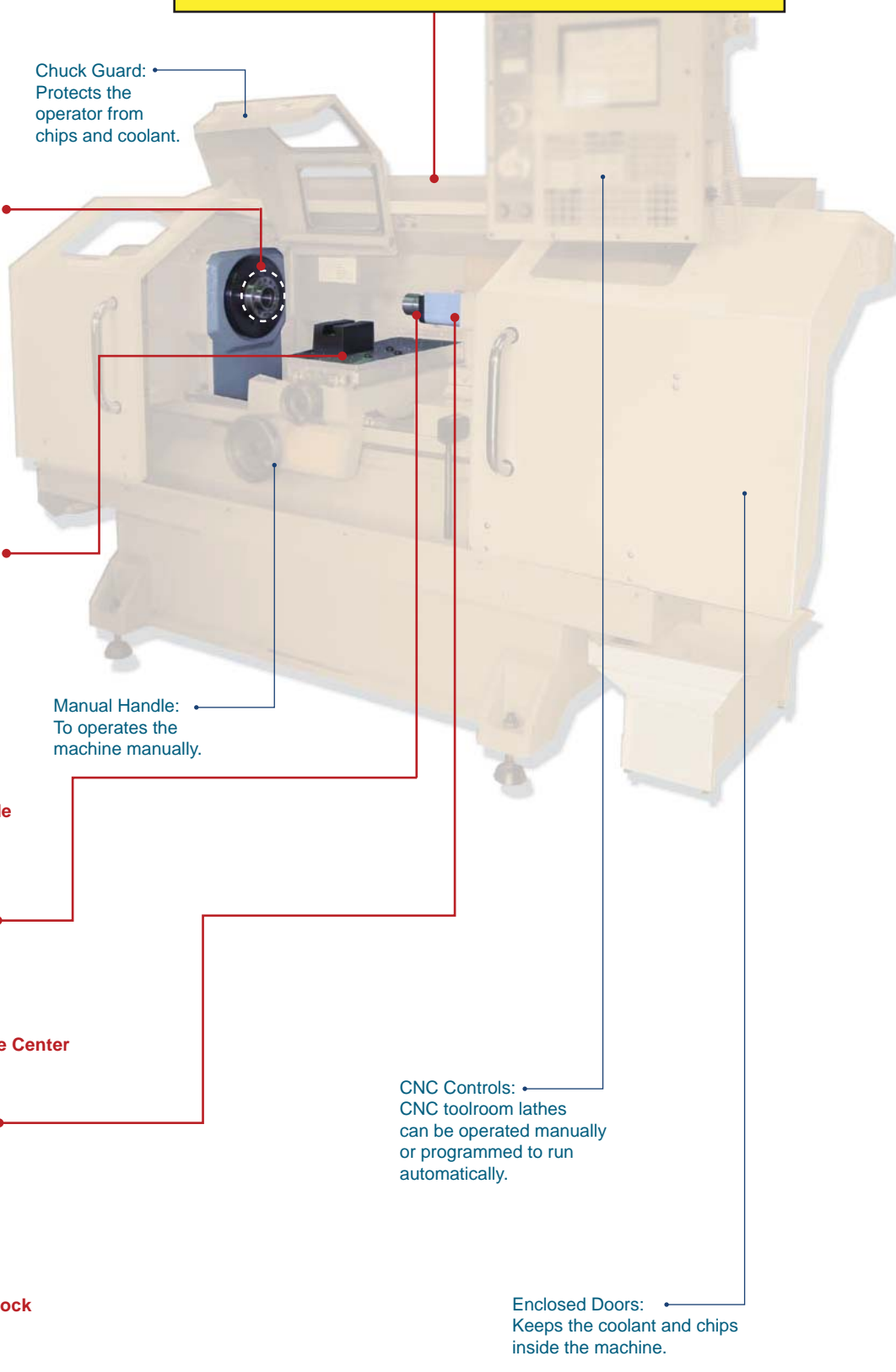
All Dorian Turning Toolholders, Boring Bars and Inserts offered in this catalog are engineered for use on both CNC and Manual Lathes.

Chuck Guard: Protects the operator from chips and coolant.

Manual Handle: To operate the machine manually.

CNC Controls: CNC toolroom lathes can be operated manually or programmed to run automatically.

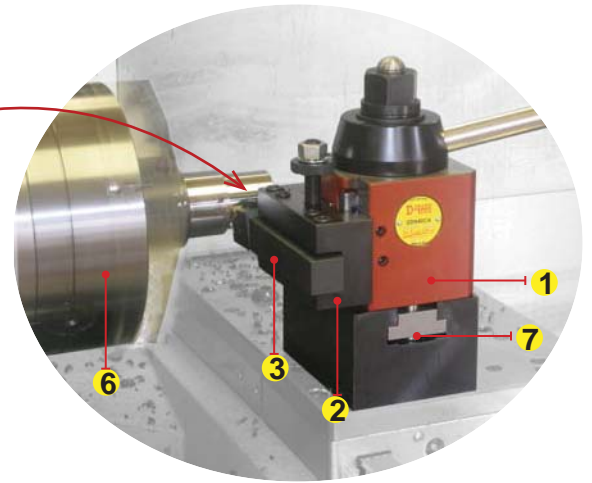
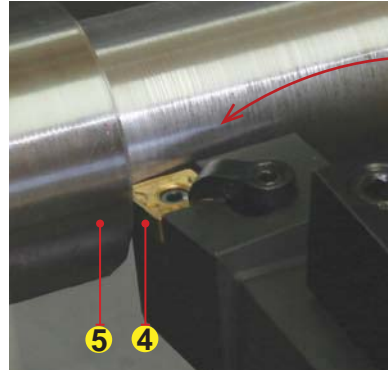
Enclosed Doors: Keeps the coolant and chips inside the machine.





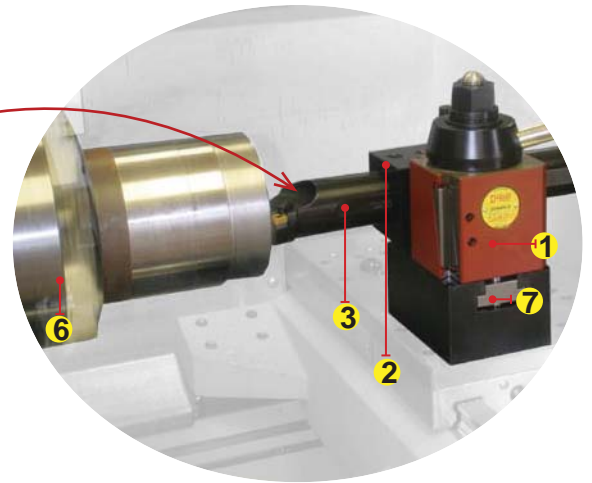
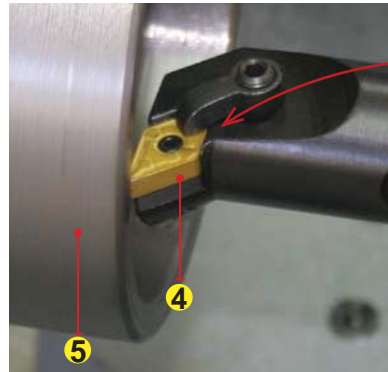
Turning Application with a Manual or CNC Toolroom Lathe

1. Quick Change Tool Post
2. Quick Change Turning and Facing Toolholder
3. Square Shank Toolholder
4. Insert
5. Workpiece
6. Chuck
7. Custom T-Nut



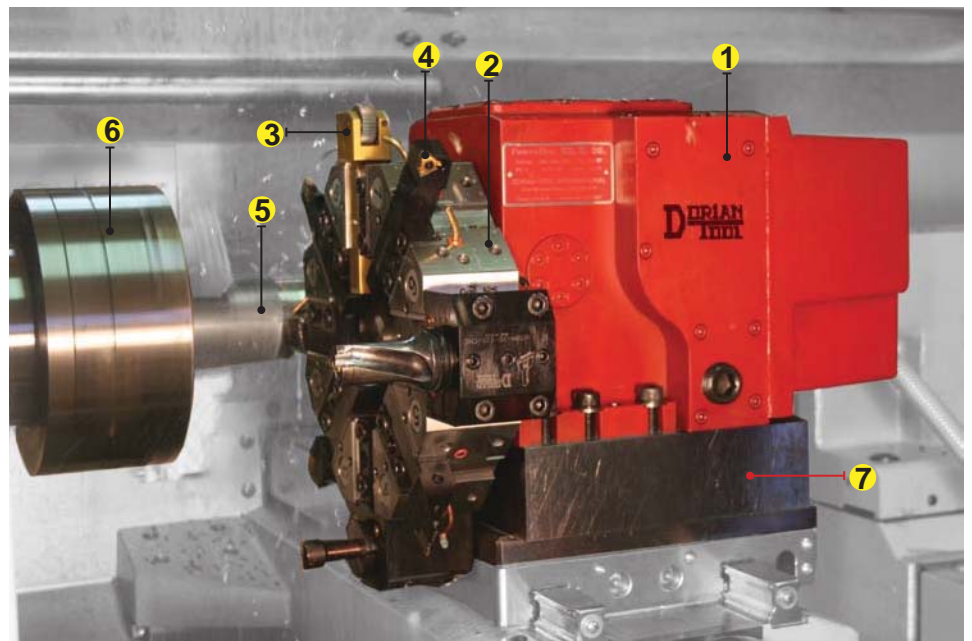
Boring Application with a Manual or CNC Toolroom Lathe

1. Quick Change Tool Post
2. Quick Change Boring Bar Holder
3. Boring Bar
4. Insert
5. Workpiece
6. Chuck
7. Custom T-Nut



Automated Turning and Boring Applications with CNC Toolroom Lathe

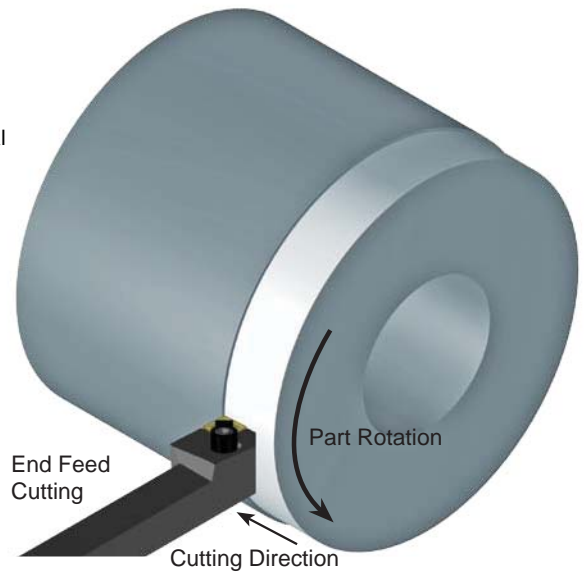
1. CNC Automated Turret
2. Turret Head
3. Turning, Boring and various cutting operations are all applicable with the CNC Automated Turret.
4. Insert
5. Workpiece
6. Chuck
7. Custom Riser Block





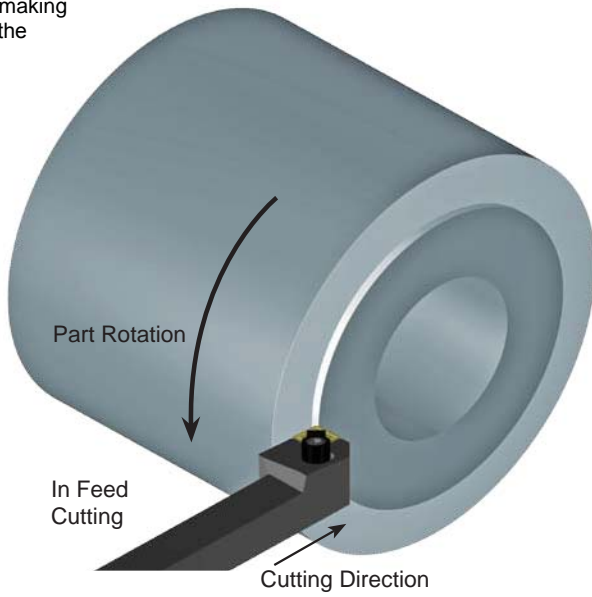
Turning Operation-

A machining process used to generate external, cylindrical forms by removing material, usually with a single-point cutting tool.



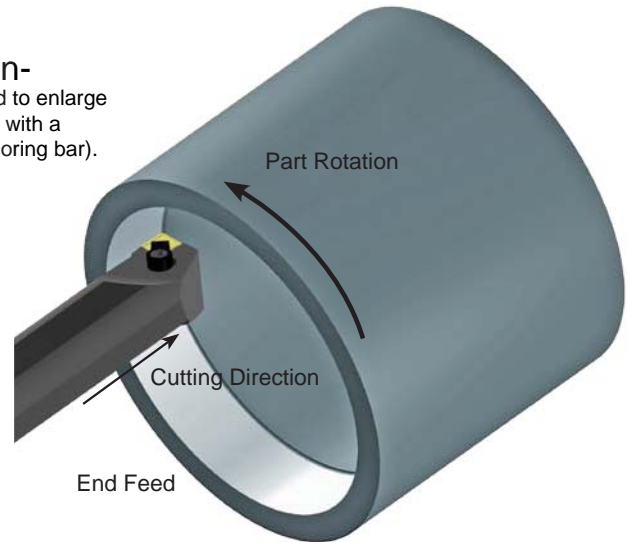
Facing Operation-

The process of making a flat surface at the end of a part.



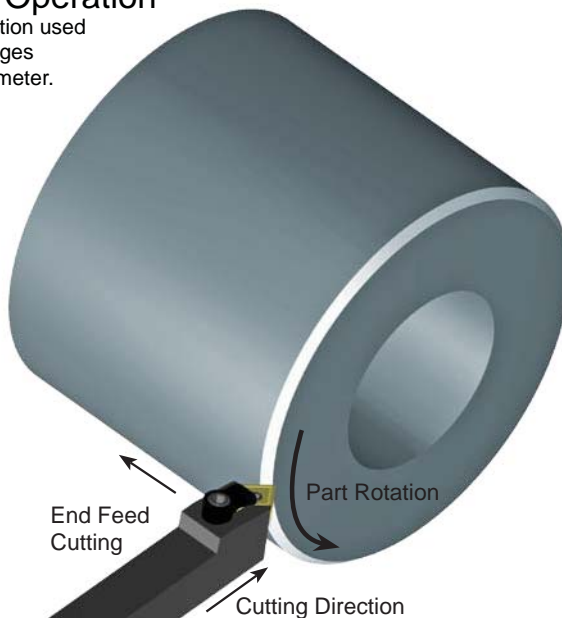
Boring Operation-

A machining process used to enlarge a cylindrical hole, usually with a single-point cutting tool (boring bar).



Chamfering Operation-

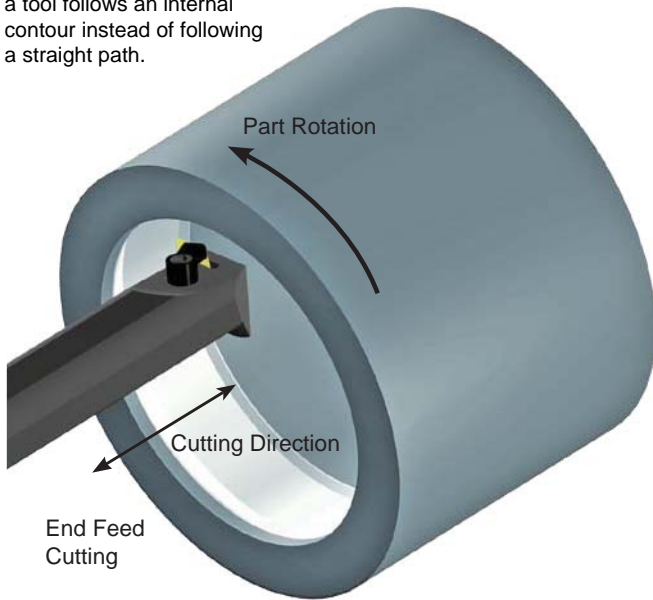
Metal turning operation used to remove sharp edges from workpiece diameter.





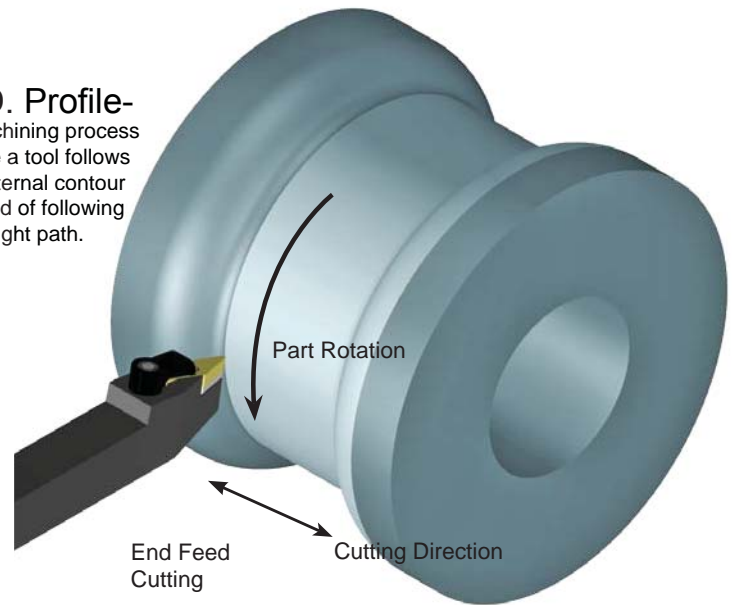
I.D. Profile-

A machining process where a tool follows an internal contour instead of following a straight path.



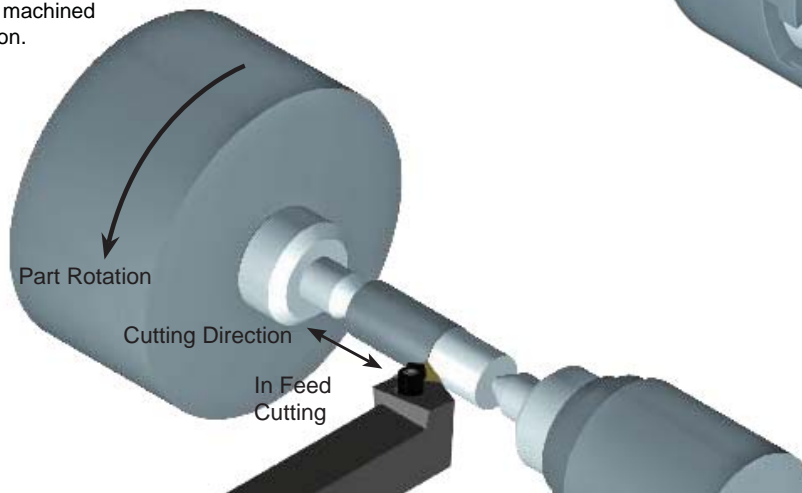
O.D. Profile-

A machining process where a tool follows an external contour instead of following a straight path.



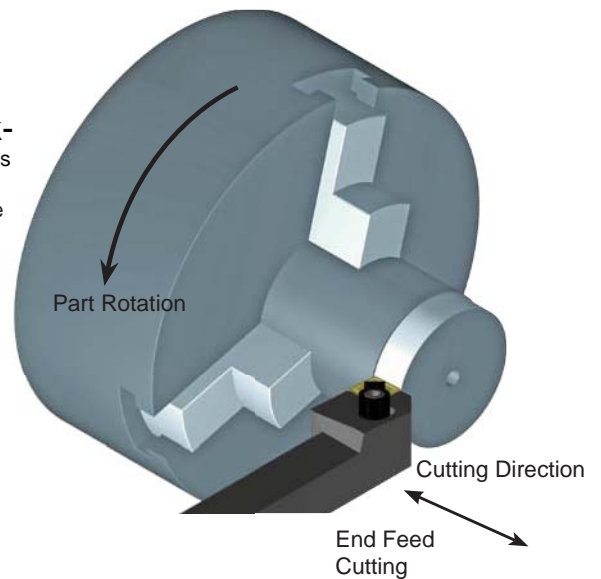
Between Centers Work-

A machining process where a work piece is held by using centers on each end. It allows the entire length of the outside diameter of the part to be machined in one continuous operation.



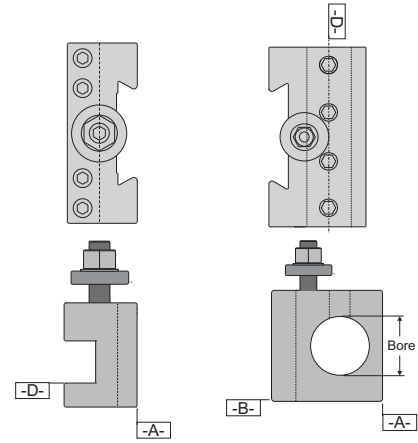
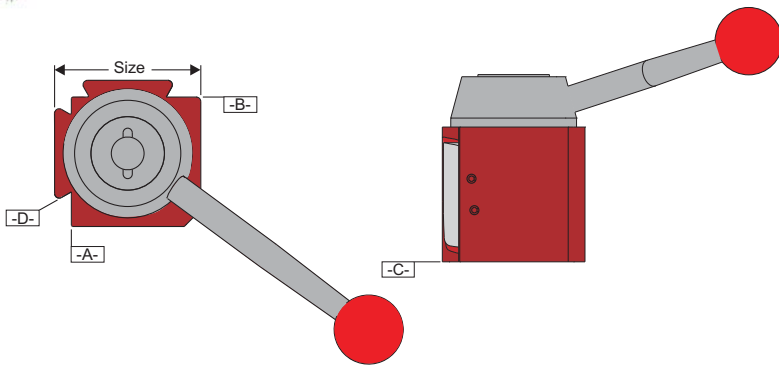
Chuck Work-

A machining process where any type of workpiece has to be held by a chuck.





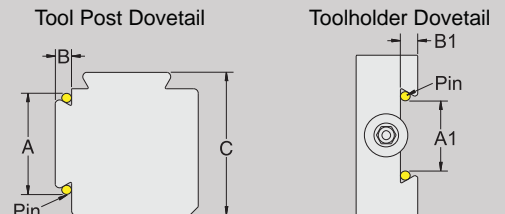
Tool Post Tolerance and Crossover



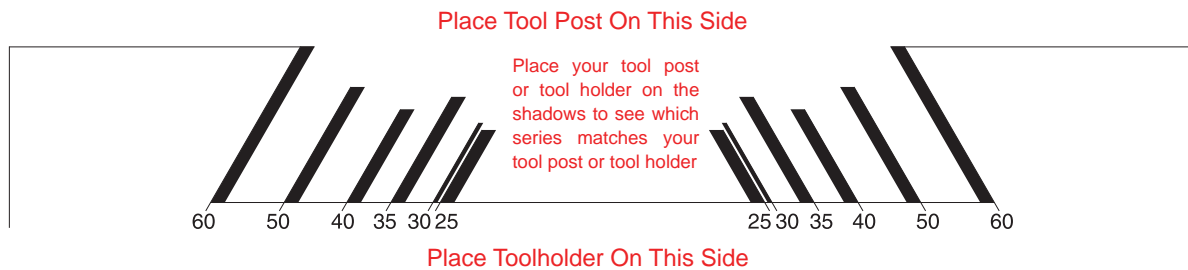
Tool Post Series	Size (Square)	
	in.	mm
25	2.5	66
30	3.0	76
35	3.5	89
40	4.0	102
50	5.0	127
60	6.0	152
Tolerance (* Per Inches)		
Quick Change Repeatability	± .0001	± 0,00254
Face to Face Squareness A-B*	± .0001	± 0,00254
Bottom to Face Squareness A-C*	± .0001	± 0,00254
Bottom to Dovetail Squareness C-D*	± .0001	± 0,00254

Holder Tolerance (* Per Inches)		in.	mm
Quick Change Repeatability		± .0001	± 0,00254
Face to Face Squareness		± .0005	± 0,0127
Bottom to Face Squareness		± .0005	± 0,0127
Bottom to Dovetail Squareness		± .0005	± 0,0127
Square Shank Holder Tolerance (* Per Inches)			
Tool Slot Taper	D	± .0001	± 0,00254
Tool Slot Squareness	D-A	± .0005	± 0,0127
Boring Bar Holder Tolerance (* Per Inches)			
Bore Circularity	Bore	± .0001	± 0,00254
Bore Cylindricity	Bore	± .0001	± 0,00254
Boring Parallelism	D-A D-B	± .0002	± .00508

Tool Post Data for Measuring the Dovetail				Tool Post Dovetail			Toolholder Dovetail			
Tool Post Series	C (nominal)		Pin Dia.		A	B	Pin Dia.	A1	B1	Pin Dia.
	in.	mm	in.	mm						
25	2.5	66	.1875	5						
30	3.0	76	.1875	5						
35	3.5	89	.2500	6						
40	4.0	102	.2500	6						
50	5.0	127	.3750	10						
60	6.0	152	.5000	12						



1. Measure the nominal dimension "C" across the flats of the toolpost, as shown above.
2. Cross reference the measurement in the table above to find which pin diameter to use.
3. Place the two (2) dowel pins in the dovetail.
4. To ensure accuracy, write down the pin size in the table provided.
5. Measure the distance across the pins, denoted as "A" and "A1".
6. Record your measurement in the table provided.
7. Measure the dovetail depth, denoted as "B" and "B1".
8. Record your measurement in the table provided.



Super Quick Change Tool Post Crossover Chart						Quadra Index Tool Post Crossover	
Manufacturer	Dorian Tool		Aloris	DTM	Phasell	Dorian Tool	Aloris
Tool Post Type	Super Quick Change™	Victory™ Thru Coolant	Quick Change	Quick Change	Quick Change	Quadra Indexing	Indexing
Tool Post Size	SDN25AXA	V25tc	AXA	TP65A	250-100	QITP25N	-
	SDN30BXA	V30tc	BXA	TP75A	250-200	QITP30N	BXA-I
	SDN35CXA	V35tc	CXA	TP90A	250-300	QITP35N	-
	SDN40CA	V40tc	CA	TP100A	250-400	QITP40N	CA-I
	SDN50DA	V50tc	DA	TP125A	-	QITP50N	DA-I
	SDN60EA	V60tc	EA	TP150A	-	QITP60N	-





Quote No. _____

Purchase Order Number _____

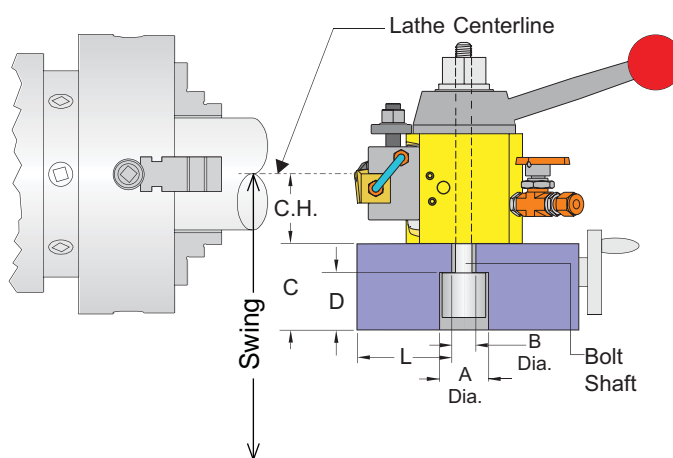
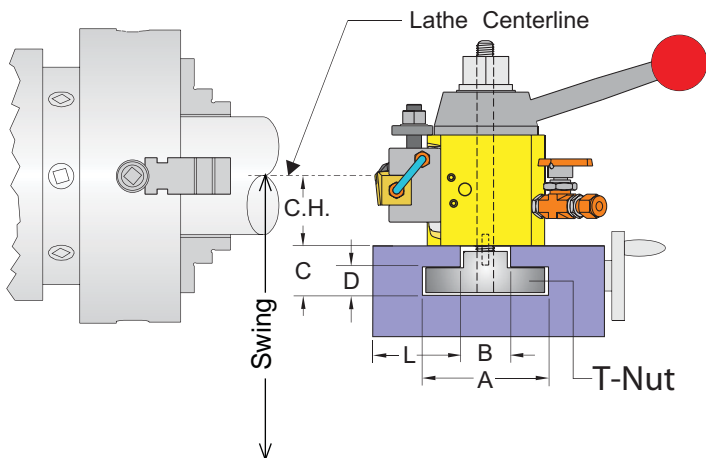
For Tool Post and Toolholder recommendations, please complete the sections below and fax to 979-282-2951

Company: _____ Name: _____
 Address: _____ Phone () _____
 City: _____ State: _____ Zip: _____ Fax () _____
 Email: _____ Type of Machine: _____

Please place an **X** for American or European mounting Style in the box below

American Style Mounting ("T-Nut") T-Nut

European Style Mounting (Bolt Shaft) Bolt Shaft



Lathe Bed

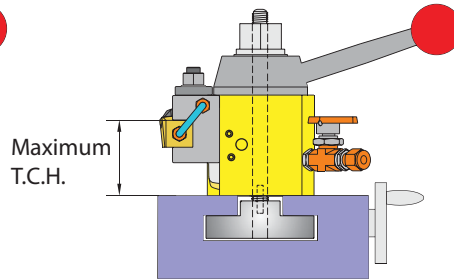
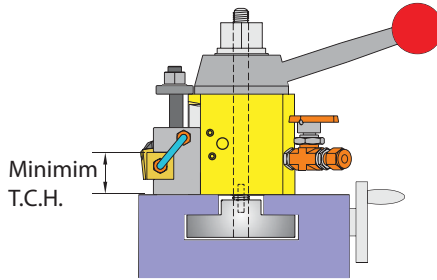
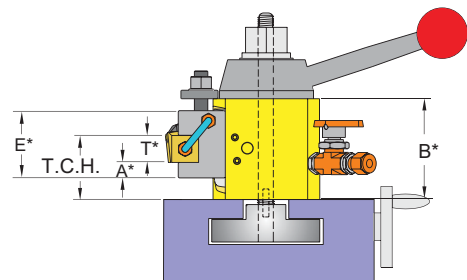
Make & Model of Lathe	Lathe Swing Over Bed		CH		Tool Size		A		B		C		D		L	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm

Tool Post recommendation will be based on the accuracy of the information provided by the customer. Each Tool Post is supplied with a Blank T-Nut or Bolt Shaft that the customer machines to their required dimensions. For custom machined T-Nut or Bolt Shaft, please specify the dimensions A, B, C, and D precise within +/- .003in.

How to measure Tool Center Height "T.C.H."

"CH" = Center Height is measured from top of compound to lathe center line
 "A" = Toolholder bottom lip

"T" = Shank Size
 "T.C.H." = Tool Center Height



*For specifications see tool post and toolholder No1 sections of this catalog. Formula applies to all three tool post styles.

Minimum T.C.H. = A + T

Maximum T.C.H. = (B - E) + (A + T)

Factors that determine the proper size tool post for a particular lathe:

- Lathe swing
- Center height
- Tool size
- Mounting type
- Horse power of motor
- RPM of chuck
- Type of machine
- Type of work
- Prototype or production
- Roughing or finishing

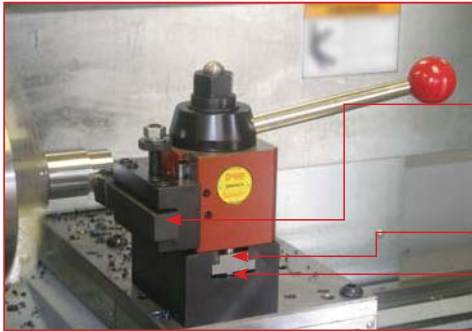
Customer to complete with choice of tool post & toolholders

Item	Qty	First Choice Tool Post & Toolholders	
		Part Number	Description
Tool Post			
Tool Post Set			
Machined "T" nut			
Toolholder			
Toolholder			
Toolholder			
Toolholder			
Toolholder			
Toolholder			



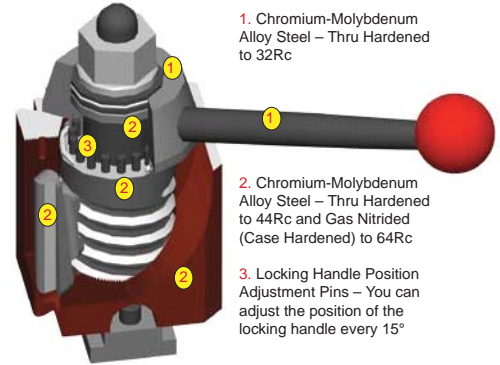
Super Quick Change Tool Post with Triple Action Wedge-Locking System

- Made of more superior materials and heat treatment processes than any other tool post on the market.
- Top, bottom and dovetail surfaces are precision ground for utmost precision and repeatability.
- Oversized locking gear and wedge style sliding gibbs for the most powerful locking mechanism on the market.
- Locking handle position can be adjusted in 15° increments so that it does not interfere with machine doors or chuck guards.
- All tool posts are individually inspected and qualified for accuracy, squareness and repeatability.



Super Quick Change Tool Post Bonus Features:

- **Oversized-capacity, heavy duty turning and facing holders as standard for the same price as competition's smaller capacity turning and facing holders.**
- **Machined T-Nut at no additional cost.**
- **Two large dowel pins prevent the Tool Post from rotating under heavy drilling, boring or turning operations.**

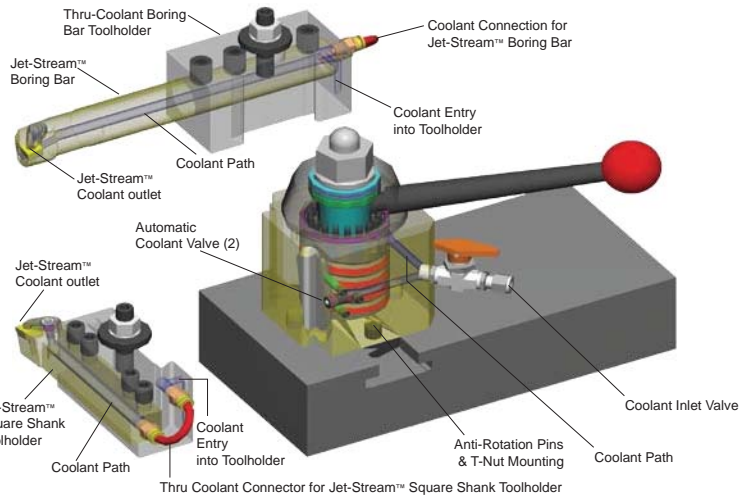


Victory™ Thru Coolant Tool Post with Triple Action Wedge-Locking System

Includes all the same features as the Super Quick Change Tool Post Plus an Automatic Thru Coolant System



External Turning and Internal Boring with Automatic Thru Coolant



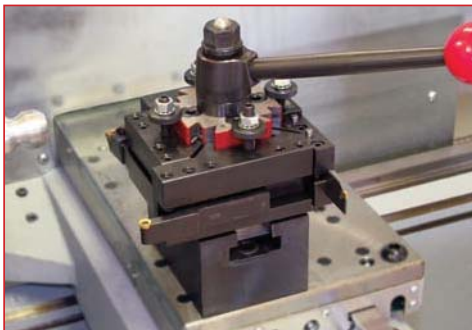
Quadra® Indexing Tool Post with Advanced Indexing and Locking Technology

- Indexing repeatability of .00005"
- Toolholder locking repeatability of .0001"
- Ideal for prototype or high production
- Ideal for roughing and finishing
- Indexes every 15 degrees
- Quick and versatile for multiple operations

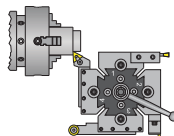
4 Tool Holders Held Simultaneously with a Quick Change Indexing System!



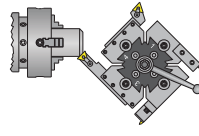
24 Super Precise Positioning Ball Bearings & 2 Pre-Loaded Indexing Pins



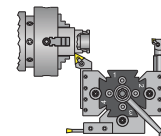
O.D. Turning Operations



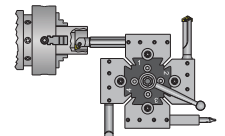
O.D. Chamfering Operations 15° Increments



Combination O.D. & I.D. Operations



I.D. Turning Operations



Quadra™ Indexing Quick Change Tool Post & Toolholders

Section



Quick and Versatile for Any Operation!

Locking and Indexing System with 24 Super Precise Positioning Ball Bearings & 2 Pre-Loaded Indexing Pins

4 Toolholders Held Simultaneously!



Style	Features	Application
QITPN Quadra Indexing Quick Change Tool Post		
 <p data-bbox="48 577 113 609">PG. 15</p>	<ul data-bbox="487 304 868 567" style="list-style-type: none"> • Heavy duty construction • Heat-treated alloy steel body • Precision ground • Four quick change tool holders locked independently • Industry Standard holders • Positive lock with absolute zero backlash • One to four tools ready to be used • Precise tool repeatability of .00005" / .00127 mm • Cam-Lock toolholder locking system for maximum rigity 	<ul data-bbox="893 304 1526 567" style="list-style-type: none"> • Instant tool positioning • Highest locking rigidity in the industry • Indexing flexibility every 15° • 24 positive positions • Wide range of holders • Maintenance-free • "T"-nut for easy mounting • Ready to install <ul data-bbox="1242 304 1485 567" style="list-style-type: none"> • CNC Toolroom Lathes • Manual Toolroom Lathes • Engine Lathes • Heavy Duty Oil-Country Lathes • Super Precision High Speed • Tight Tolerances and Excellent Finish Requiring Applications • Deep Drilling and Boring • Heavy Material Removal • Multi Turning, Drilling, Boring, Threading Applications
No. QITPN-1 Turning & Facing Holder		
 <p data-bbox="48 808 113 840">PG. 18</p>	<ul data-bbox="487 672 868 745" style="list-style-type: none"> • Quick Change Mounting • High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul data-bbox="893 672 1218 798" style="list-style-type: none"> • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" <ul data-bbox="1242 672 1526 766" style="list-style-type: none"> • Holds Square Shank Tools • Turning and Facing • Threading and Grooving • Cut-Off Applications
No. QITPN-2 Turning, Facing & Boring Holder		
 <p data-bbox="48 1018 113 1050">PG. 18</p>	<ul data-bbox="487 913 868 1008" style="list-style-type: none"> • Boring Bar "V" Seat • Quick Change Mounting • High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul data-bbox="893 913 1218 1039" style="list-style-type: none"> • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" <ul data-bbox="1242 913 1526 1060" style="list-style-type: none"> • Holds Square Shank Tools • Holds Boring Bars • Turning and Facing • Light to Medium Boring • Threading and Grooving • Cut-Off Applications
No. QITPN-3R Extended Turning & Facing Holder		
 <p data-bbox="48 1281 113 1312">PG. 18</p>	<ul data-bbox="487 1134 868 1228" style="list-style-type: none"> • Extra Rigidity for Extended Reach • Quick Change Mounting • High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul data-bbox="893 1134 1218 1260" style="list-style-type: none"> • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" <ul data-bbox="1242 1134 1526 1228" style="list-style-type: none"> • Holds Square Shank Tools • Turning and Facing • Threading and Grooving • Cut-Off Applications
No. QITPN-4,41,41S CNC Extra Heavy Duty Boring Bar Holder - CNC Locking system		
 <p data-bbox="48 1585 113 1617">PG. 19</p>	<ul data-bbox="487 1396 868 1627" style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • Quick-Lock System Aligns Boring Bar Centerheight and Rake Angle Automatically. • Four Special Flat Machined Locking Screws for High Rigidity Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting 	<ul data-bbox="893 1396 1218 1564" style="list-style-type: none"> • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" <ul data-bbox="1242 1396 1526 1512" style="list-style-type: none"> • Precision Boring Applications • Heavy Duty Boring Applications • Heavy Duty Drilling Applications • Deep Boring, Drilling and Threading Applications
No. QITPN- 41, 41S COL Extra Heavy Duty Boring Bar Holder- Collar Locking System		
 <p data-bbox="48 1900 113 1932">PG. 20</p>	<ul data-bbox="487 1711 868 1879" style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • 360° Locking for High Rigidity and Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting 	<ul data-bbox="893 1711 1218 1879" style="list-style-type: none"> • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" <ul data-bbox="1242 1711 1526 1827" style="list-style-type: none"> • Precision Boring Applications • Heavy Duty Boring Applications • Heavy Duty Drilling Applications • Deep Boring, Drilling and Threading Applications



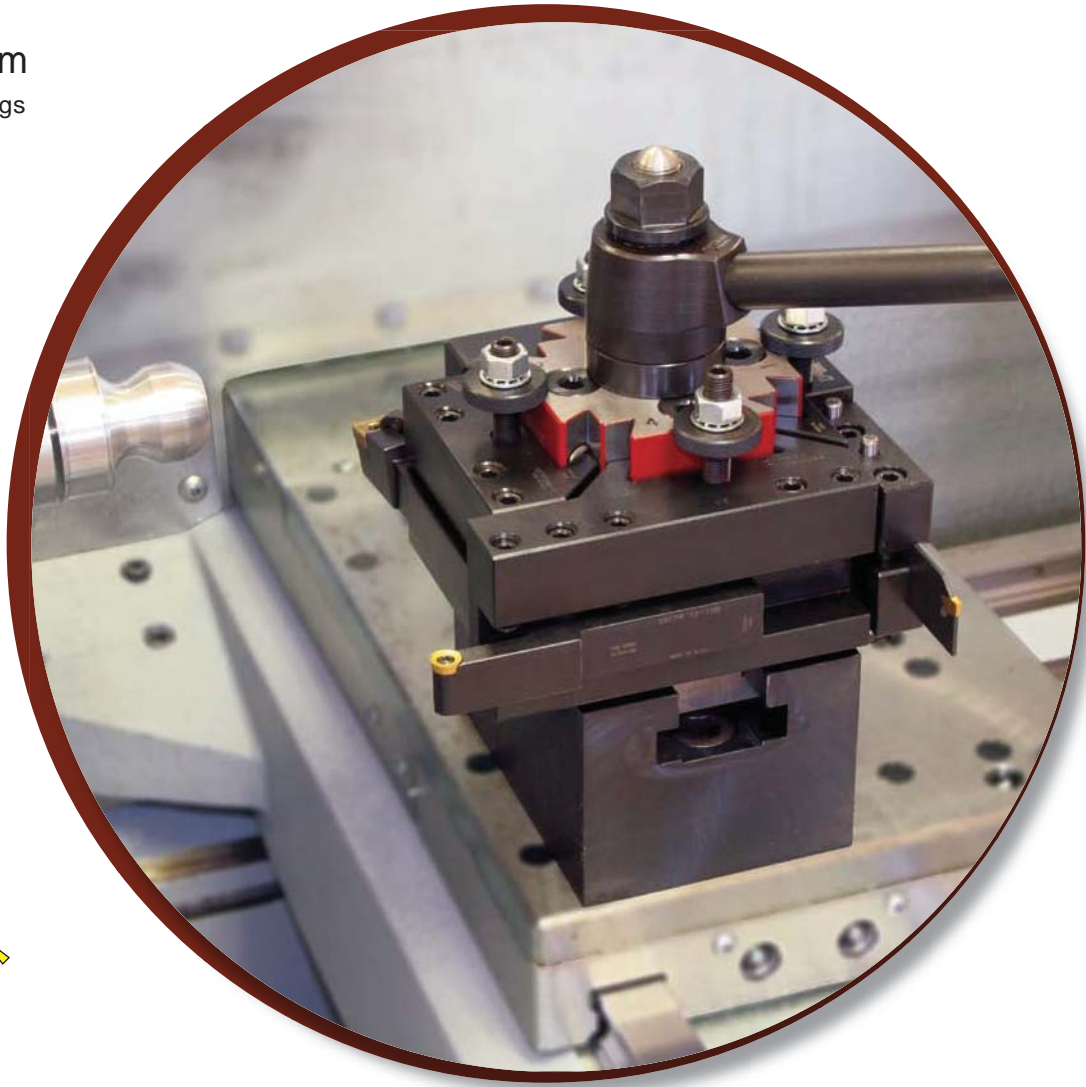
Style	Features	Application
No. QITPN-5 Morse Taper Holder		
 PG. 20	<ul style="list-style-type: none"> Precision Ground Morse Taper Qualified for Precise Tool Alignment and Squareness Designed for Deep Drilling Heavy Duty Drilling Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-7-71C Reversible Cut-Off Blade Holder		
 PG. 21	<ul style="list-style-type: none"> Precision Ground Blade Dovetail Seat Qualified for Precise Tool Alignment and Squareness Quick Change Mounting High Tensile Strength Chromium- Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-71S Oversized Cut-Off Blade Holder		
 PG. 21	<ul style="list-style-type: none"> Oversized Blade Capacity Precision Ground Blade Dovetail Seat Qualified for Precise Tool Alignment and Squareness Quick Change Mounting High Tensile Strength Chromium- Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-881 O.D. or I.D. Threading Holder		
 PG. 23	<ul style="list-style-type: none"> Quick Change Mounting High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-10 Knurling Holder		
 PG. 24	<ul style="list-style-type: none"> Quick Change Mounting High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-35 Dovetail Drill Chuck Holder		
 PG. 24	<ul style="list-style-type: none"> Supplied with a Rohm Chuck Qualified for Precise Tool Alignment and Squareness Designed for Versatility Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. QITPN-36 5C Collet Holder		
 PG. 25	<ul style="list-style-type: none"> 5C Collet Holding System Supplied with Collet Closer Qualified for Precise Tool Alignment and Squareness Designed for Versatility Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"



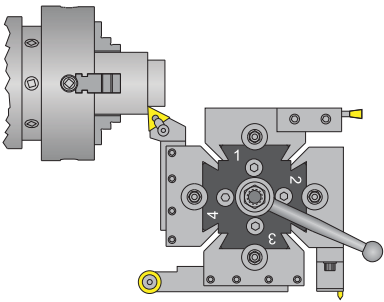
Locking and Indexing System

24 Super Precise Positioning Ball Bearings
& 2 Pre-Loaded Indexing Pins

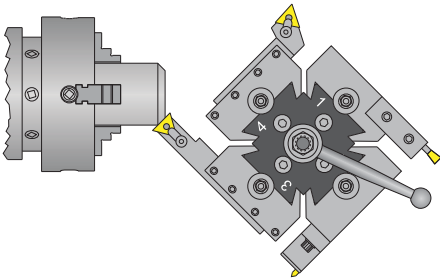
Strong - Rigid - Precise!



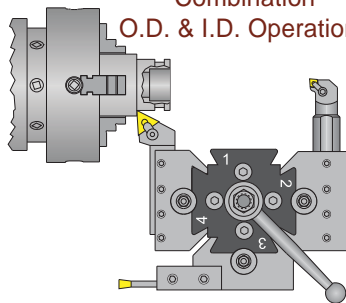
O.D. Turning Operations



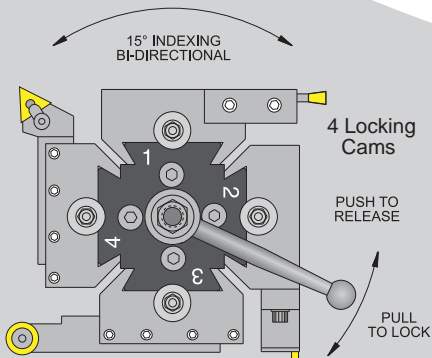
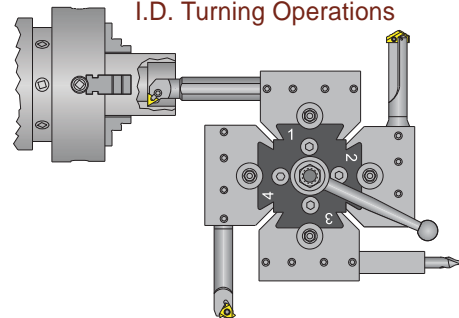
O.D. Chamfering Operations
15° Increments



Combination
O.D. & I.D. Operations

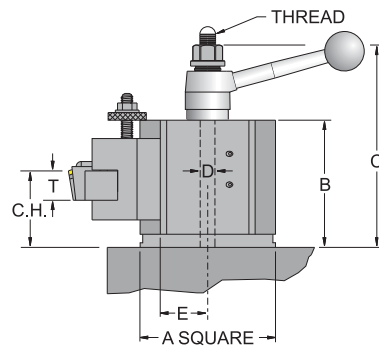
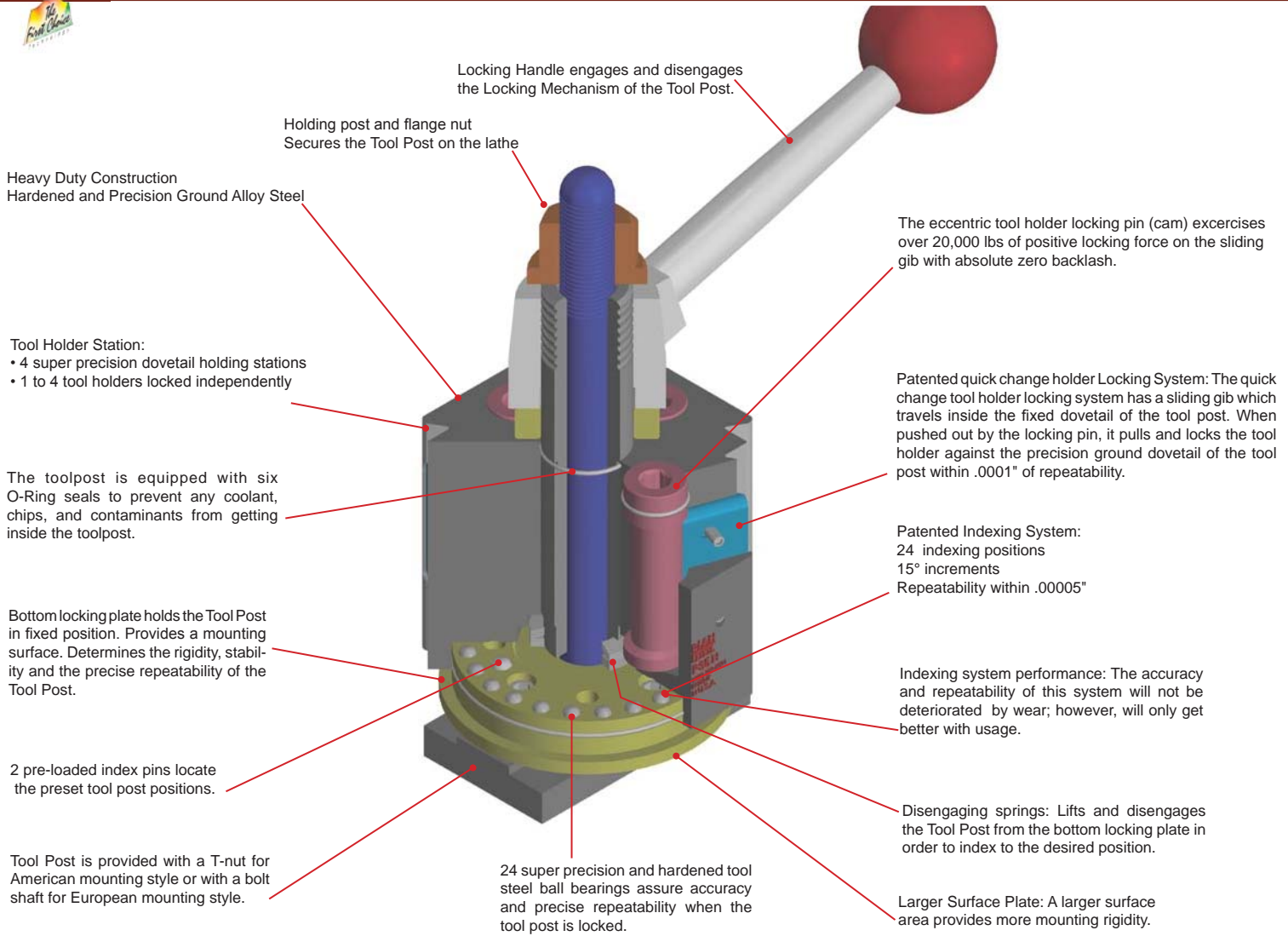


I.D. Turning Operations



Easy To Operate: Push the handle away to release the indexing mechanism, rotate tool post to desired position and then pull the handle to lock the indexing mechanism.

Quick change toolholders are locked independently by individual locking cams. Locking wrench with handle is provided with the tool post.



- 4 Tool Holders Held Simultaneously
- Indexing Repeatability within .00005"
- Tool Holder Repeatability within .0001"
- From Prototype to High Production
- Quick and Versatile for Any Operation
- 24 Locking Positions, every 15°
- Ideal for Manual & CNC Lathes
- Super Precise for Tight Tolerance Machining
- Heavy Duty For Oil Field Applications

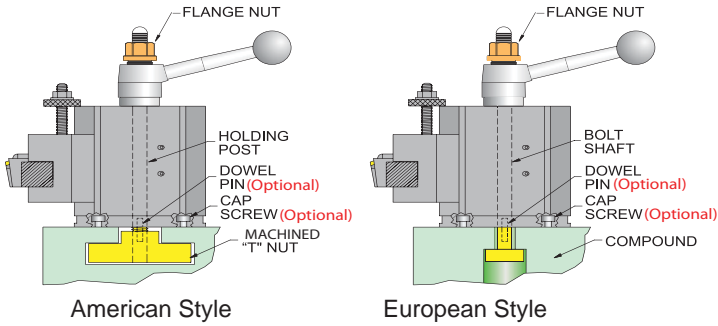
Description	QITP25N		QITP30N		QITP35N		QITP40N		QITP50N		QITP60N	
Part No. 733101-	00000		00002		00004		00006		00008		00010	
Size	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Lathe Swing Over Bed	≤12"	≤300,0	13-15"	320,0	14-17"	400,0	16-20"	450,0	17-32"	500,0	≥25-XHD	XHD
A	2.500	63.5	3.000	76.2	3.500	88.9	4.000	101.60	5.000	127.0	6.000	152.4
B	2.570	65.3	3.205	81.4	3.460	87.9	4.070	103.4	5.230	132.8	5.615	142.6
C	5.210	132.3	5.720	145.3	6.415	162.9	7.525	191.1	9.135	232.0	9.855	250.3
D	0.500	12.7	0.500	12.7	0.625	16.0	0.750	19.0	1.000	25.40	1.125	28.6
E	0.880	22.4	1.115	28.3	1.245	31.6	1.530	38.9	1.897	48.2	2.207	56.1
T-Tool Capacity	1/2-3/4	12-20	5/8-1.0	16-25	3/4-1.0	20-25	1.0-1 1/4	25-32	1 1/4 - 1 1/2	32-40	1 1/2	40.0
Optimum C.H.*	1.422	36.1	1.747	44.4	1.835	46.6	2.202	55.9	2.995	76.1	3.440	87.4
C.H. MIN.	0.995	25.3	1.213	30.8	1.445	36.7	1.757	44.6	2.245	57.0	2.750	69.9
C.H. MAX.	1.849	50.0	2.282	58.0	2.225	56.5	2.646	67.2	3.744	95.1	4.129	104.9
Thread	1/2-20	M12x1,75	1/2-20	M12x1,75	5/8-18	M16x2,0	3/4-16	M18x2,5	1.0-14	M24x3,0	1 1/8-12	M27x3,0

*Optimum center height is calculated with the smaller tool size of the tool capacity.



Tool Post Mounting

Quick, Simple, & Rigid

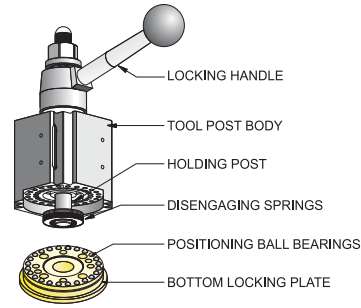


Tool post mounting is accomplished quickly and easily with either a "T" Nut that slides over the lathe compound or a Bolt Shaft. Tightening the Flanged Nut will provide a rigid and reliable mounting of the tool post. The "T" Nut is provided blank or machined according to customer specification. Using the Bolt Shaft is the common mounting method on European lathes.

Optional cap screws and dowel pins may be used to secure the toolpost directly to the compound or the T-nut. This is advantageous if there is tool post shifting during heavy or interrupted cuts.

Indexing System

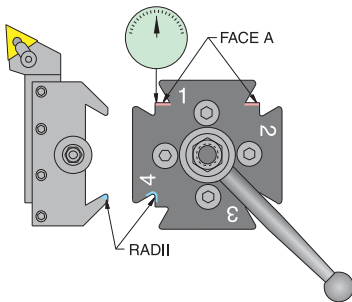
Repeatability within .00005"



With the locking handle in unlocked position, the disengaging spring set lifts the toolpost from the bottom locking plate. Two pre-loaded index pins allow the toolpost to be indexed to any of the preset positions in 15° increments. Pulling the locking handle to the locked position engages the locking mechanism of the tool post for superior rigidity and repeatability.

Indicating Position

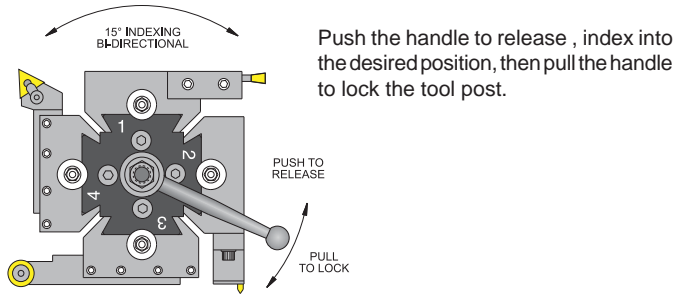
Squareness within .0005"



The four dovetails are machined at 90° square ($\pm .0005$). At mounting, it is necessary that the Face "A" to be set parallel to the lathe axis with an indicator in order for drills to work properly. The dovetail surfaces must be kept clean and lubricated at all times to prevent misalignment of the tool holder when locked on the tool post.

Operation

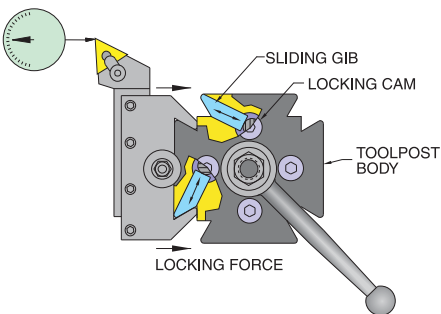
Index from Tool to Tool in Seconds



Push the handle to release, index into the desired position, then pull the handle to lock the tool post.

Holder Locking System

20,000 lbs Locking Force

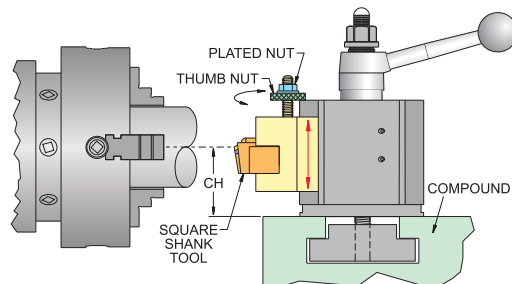


The holder locking system of the Quadra Indexing Tool Post is based on the four Sliding Gibs that travel inside the tool post body and are pushed against the holder by a cam style Locking Pin, locking it positively. The cam rotates from 0° (Release Position) to approximately 45° (Locking Position).

The repeatability of the tool holders is $\pm .0001$ " and can be checked with a dial indicator, fixed on the tool post body as shown above. Each tool is independently locked, giving it flexibility to use from one to four tools simultaneously.

Holder Center Height Adjustment

Positive Center Height Adjustment



The Center Height Adjustment Assembly allows an easy and accurate adjustment of the cutting tool height, first, by screwing or unscrewing the Thumb Nut until the desired height is reached, and next, by locking the Plated Nut to preserve it. Maximum center height has been reached when the top of the holder is flush with the top of the tool post. Minimum center height has been reached when the bottom of the holder comes in contact with the Bottom Locking Plate.

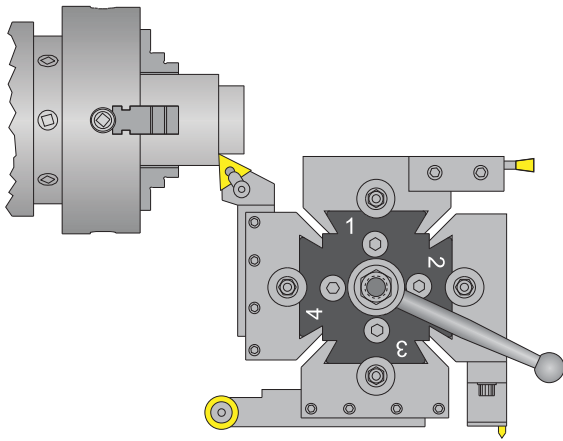


Features

- Heavy duty construction
- Heat-treated alloy steel body
- Precision ground
- Four quick change tool holders locked independently
- Industry Standard toolholders
- Positive lock with absolute zero backlash
- One to four tools ready to be used
- Precise tool repeatability of .00005" / .00127 mm
- Instant tool positioning
- Highest locking rigidity in the industry
- Indexing flexibility every 15°
- 24 positive positions
- Wide range of holders
- Maintenance-free
- "T"-nut for easy mounting
- Ready to install

O.D. Turning Operations

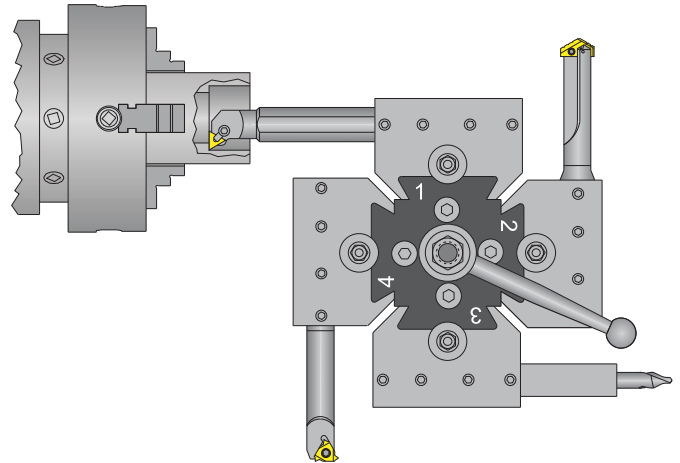
Finishing to Roughing or Threading



The tool position closest to the chuck (left dovetail as shown above) is used for turning outside diameters. It holds the tool at the best location for clearance and rigidity when turning, threading, cut-off, grooving, and chamfering.

I.D. Turning Operations

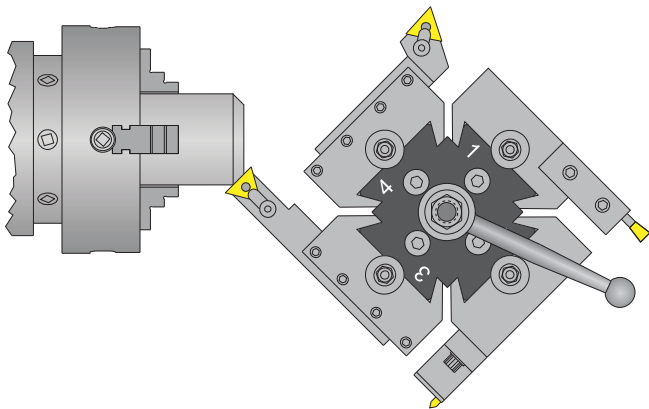
Finishing to Roughing or Threading



The tool position closest to the centerline of the chuck (top dovetail as shown above) is used for turning inside diameters. It holds the tool at the best location for clearance and rigidity when boring, threading, grooving, drilling, and center drilling.

O.D. Chamfering Operations

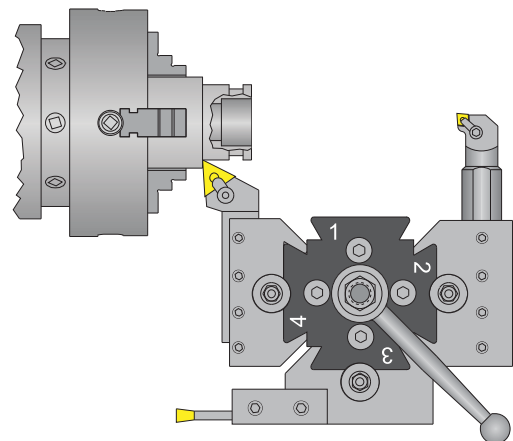
15° Increments



The tool post can be indexed every 15°. This will allow the user to rotate a tool into chamfering position. One tool could then be used for O.D. turning and chamfering, reducing the number of tools to complete a job.

Combination O.D. & I.D. Operations

Finishing to Roughing or Threading



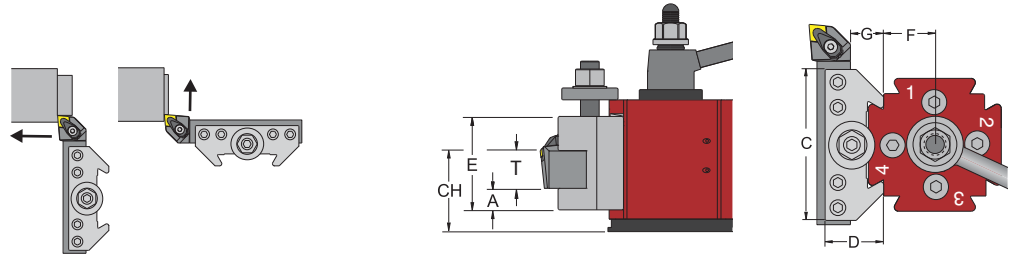
Combinations of O.D. and I.D. tools can be used on the tool post at once. For simple parts where minimum tool changes are required, this method can increase productivity and precision. Tool clearance should be considered when placing the tools on the tool post.



No. QITPN-1

Turning & Facing Toolholder

This toolholder is best used for holding square shank toolholders close to the tool post to maximize rigidity when turning, facing, and threading. Fits industry standard tool posts.

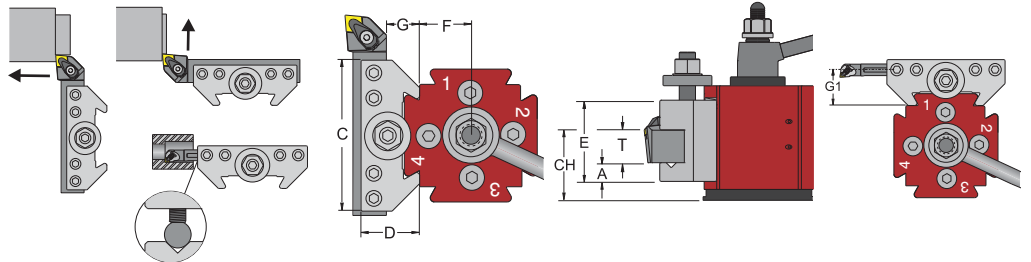


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP25N-1	00100	in	0.375	.750	2.750	1.240	1.740	0.880	0.770
		mm	9.53	20	69.85	31.50	44.20	22.35	19.56
QITP30N-1	00250	in	0.437	1.000	3.250	1.490	2.240	1.115	0.890
		mm	11.10	25	82.55	37.85	56.90	28.32	22.61
QITP35N-1	00400	in	0.500	1.000	3.750	1.740	2.490	1.245	1.010
		mm	12.70	25	95.25	44.20	63.25	31.62	25.65
QITP40N-1	00550	in	0.562	1.250	4.500	1.990	2.990	1.530	1.040
		mm	14.27	32	114.30	50.55	75.95	38.86	26.42
QITP50N-1	00700	in	0.750	1.500	6.000	2.490	3.490	1.900	1.290
		mm	19.05	40	152.40	63.25	88.65	48.26	32.77
QITP60N-1	00850	in	1.000	1.500	7.000	2.990	3.990	2.207	1.540
		mm	25.40	40	177.80	75.95	101.35	56.06	39.12

No. QITPN-2

Turning, Facing & Boring Toolholder

The "V" groove makes this holder more versatile so that it can hold either square shank toolholders or boring bars. Holds the tool close to the tool post to maximize rigidity when turning, facing, threading or boring. Fits industry standard toolposts.

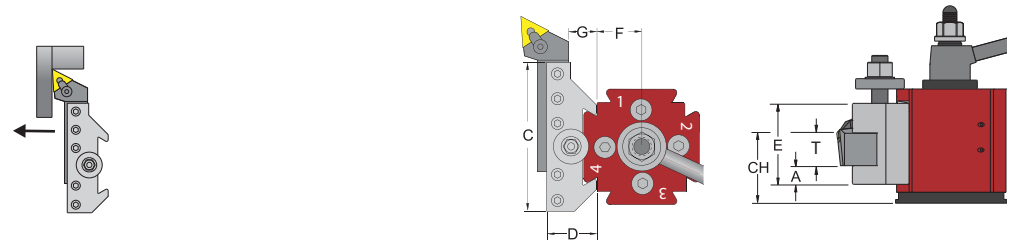


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G	G1
QITP25N-2	00104	in	0.375	.750	2.750	1.240	1.740	0.880	0.770	1.030
		mm	9.53	20	69.85	31.50	44.20	22.35	19.56	26.16
QITP30N-2	00254	in	0.437	1.000	3.250	1.490	2.240	1.115	0.890	1.210
		mm	11.10	25	82.55	37.85	56.90	28.32	22.61	30.73
QITP35N-2	00404	in	0.500	1.000	3.750	1.740	2.490	1.245	1.010	1.410
		mm	12.70	25	95.25	44.20	63.25	31.62	25.65	35.81
QITP40N-2	00554	in	0.562	1.250	4.500	1.990	2.990	1.530	1.040	1.575
		mm	14.27	32	114.30	50.55	75.95	38.86	26.42	40.01
QITP50N-2	00704	in	0.750	1.500	6.000	2.490	3.490	1.900	1.290	1.950
		mm	19.05	40	152.40	63.25	88.65	48.26	32.77	49.53
QITP60N-2	00854	in	1.000	1.500	7.000	2.990	3.990	2.207	1.540	2.340
		mm	25.40	40	177.80	75.95	101.35	56.06	39.12	59.44

No. QITPN-3 Extended

Turning & Facing Toolholder

This holder is best used for extended reach turning operations. Fits industry standard tool posts.



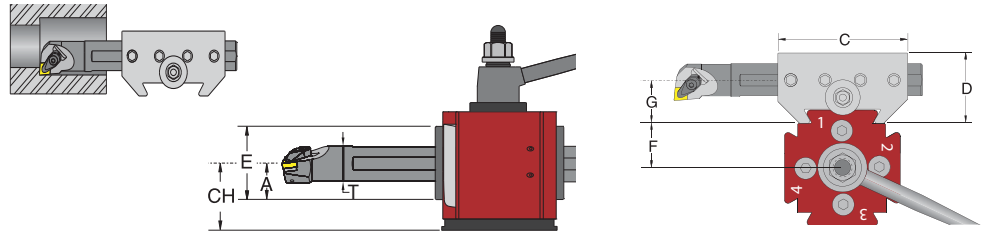
QITP Description	Part No. 733101-	Size	A	T	C	D	E	F	G
QITP25N-3R	00106	in	0.375	0.750	3.625	1.240	1.740	0.880	0.770
		mm	9.53	20	92.08	31.50	44.20	22.35	19.56
QITP30N-3R	00256	in	0.437	1.00	4.125	1.490	2.240	1.115	0.890
		mm	11.10	25	104.78	37.85	56.90	28.32	22.61
QITP35N-3R	00406	in	0.500	1.00	5.250	1.740	2.490	1.245	1.010
		mm	12.70	25	133.35	44.20	63.25	31.62	25.65
QITP40N-3R	00556	in	0.562	1.250	6.000	1.990	2.990	1.530	1.040
		mm	14.27	32	152.40	50.55	75.95	38.86	26.42
QITP50N-3R	00706	in	0.750	1.500	8.000	2.490	3.490	1.900	1.290
		mm	19.05	40	203.20	63.25	88.65	48.26	32.77
QITP60N-3R	00856	in	1.000	1.500	10.000	2.990	3.990	2.207	1.540
		mm	25.40	40	254.00	75.95	101.35	56.06	39.12



No. QITPN-4-CNC

Heavy Duty Boring Bar Toolholder
Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the centerheight and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.

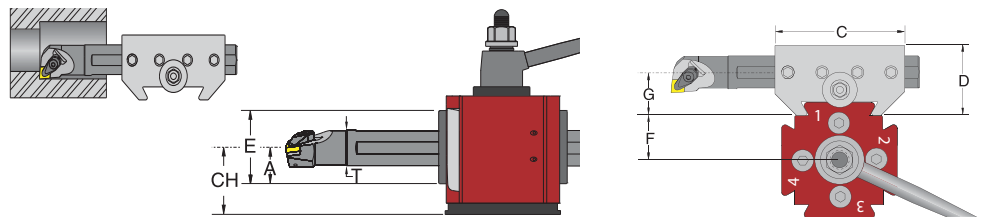


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP25N-4-CNC	00110	in	0.745	0.750	2.750	1.490	1.490	0.880	0.937
QITP25N-4M-CNC	00112	mm	18.92	20.00	69.85	37.85	37.85	22.35	23.80
QITP30N-4-CNC	00260	in	0.995	1.000	3.250	1.990	1.990	1.115	1.250
QITP30N-4M-CNC	00262	mm	25.27	25.00	82.55	50.55	50.55	28.32	31.75
QITP35N-4-CNC	00410	in	1.120	1.000	3.750	2.240	2.240	1.245	1.375
QITP35N-4M-CNC	00412	mm	28.45	25.00	95.25	56.90	56.90	31.62	34.93
QITP40N-4-CNC	00560	in	1.245	1.250	4.500	2.490	2.490	1.530	1.500
QITP40N-4M-CNC	00562	mm	31.62	32.00	114.30	63.25	63.25	38.86	38.10
QITP50N-4-CNC	00710	in	1.495	1.500	5.500	2.990	2.990	1.900	2.000
QITP50N-4M-CNC	00712	mm	37.97	40.00	139.70	75.95	75.95	48.26	50.80
QITP60N-4-CNC	00860	in	1.995	2.000	6.500	3.990	3.990	2.207	2.500
QITP60N-4M-CNC	00862	mm	50.67	50.00	165.10	101.35	101.35	56.06	63.50

No. QITPN-41-CNC

Extra Heavy Duty Boring Bar Toolholder
Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.

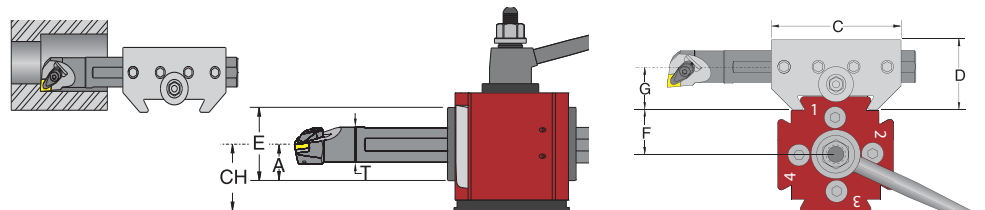


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP25N-41-CNC	00114	in	0.870	1.000	2.750	1.740	1.740	0.880	1.062
QITP25N-41M-CNC	00116	mm	22.10	25.00	69.85	44.20	44.20	22.35	26.97
QITP30N-41-CNC	00264	in	1.120	1.250	3.250	2.240	2.240	1.115	1.375
QITP30N-41M-CNC	00266	mm	28.45	32.00	82.55	56.90	56.90	28.32	34.93
QITP35N-41-CNC	00414	in	1.120	1.250	3.750	2.240	2.240	1.245	1.375
QITP35N-41M-CNC	00416	mm	28.45	32.00	95.25	56.90	56.90	31.62	34.93
QITP40N-41-CNC	00564	in	1.370	1.500	4.500	2.740	2.740	1.530	1.625
QITP40N-41M-CNC	00566	mm	34.80	40.00	114.30	69.60	69.60	38.86	41.28
QITP50N-41-CNC	00714	in	1.745	2.000	5.500	3.490	3.490	1.900	2.250
QITP50N-41M-CNC	00716	mm	44.32	50.00	139.70	88.65	88.65	48.26	57.15
QITP60N-41-CNC	00864	in	2.245	2.500	6.500	4.490	4.490	2.207	2.750
QITP60N-41M-CNC	00866	mm	57.02	60.00	165.10	114.05	114.05	56.06	69.85

No. QITPN-41S-CNC

Super Oversized Boring Bar Toolholder
Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.



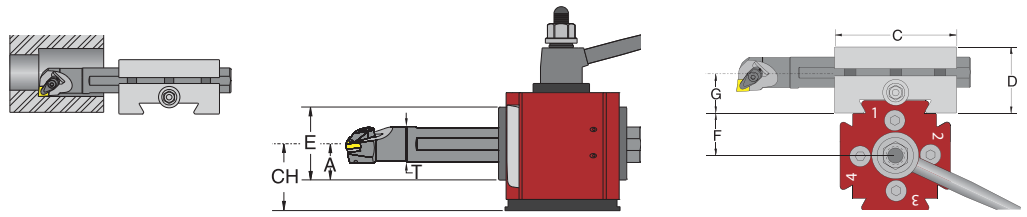
QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP35N-41-150-CNC	00418	in	1.245	1.500	4.000	2.490	2.490	1.245	1.500
QITP35N-41M-40-CNC	00420	mm	31.62	40	101.6	63.25	63.25	31.62	38.1
QITP40N-41-200-CNC	00568	in	1.495	2.000	4.500	2.990	2.990	1.530	1.750
QITP40N-41M-50-CNC	00570	mm	37.97	50	114.3	75.95	75.95	38.86	44.45
QITP50N-41-250-CNC	00718	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250
QITP50N-41M-60-CNC	00720	mm	50.67	60	165.1	101.35	101.35	48.26	57.15
QITP60N-41-300-CNC	00868	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625
QITP60N-41M-80-CNC	00870	mm	57.02	80	177.8	114.05	114.05	56.06	66.68



No. QITPN-41-COL

Extra Heavy Duty Boring Bar Toolholder Inch

This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts.

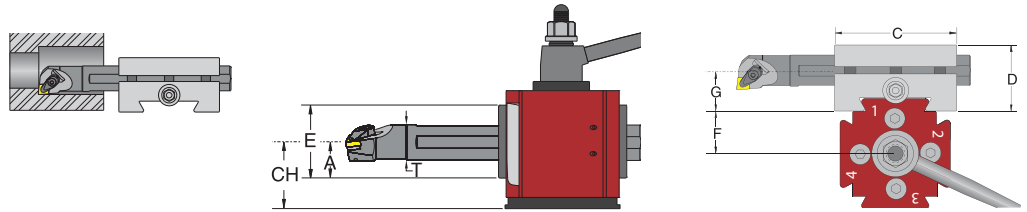


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP35N-41-COL	00456	in	1.220	1.250	4.000	2.490	2.490	1.245	1.500
QITP40N-41-COL	00604	in	1.395	1.500	4.500	2.990	2.990	1.530	1.750
QITP50N-41-COL	00746	in	1.995	2.000	6.500	3.990	3.990	1.900	2.250
QITP60N-41-COL	00896	in	2.245	2.500	7.000	4.490	4.490	2.207	2.625

No. QITPN-41S-COL

Super Oversized Boring Bar Toolholder Inch

This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts.

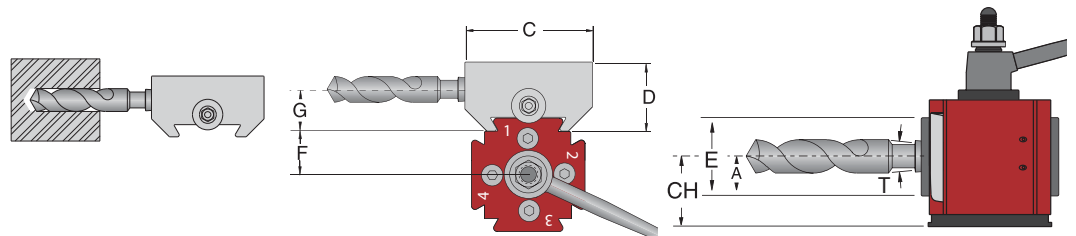


QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP35N-41-150-COL	00458	in	1.220	1.500	4.000	2.490	2.490	1.245	1.500
QITP40N-41-200-COL	00606	in	1.395	2.000	4.500	2.990	2.990	1.530	1.750
QITP50N-41-250-COL	00748	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250
QITP60N-41-300-COL	00898	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625

No. QITPN-5

Morse Taper Toolholder

This holder is best used for holding morse taper tools. It can be used for drilling, boring, or reaming operations. Fits industry standard tool posts.



QITP Description	Part No.733101-	Size	A	T	C	D	E	F	G
QITP25N-5-2	00122	in	0.750	MT2	2.750	1.500	1.500	0.880	0.930
		mm	19.05	MT2	69.85	38.10	38.10	22.35	23.62
QITP30N-5-3	00272	in	1.000	MT3	3.500	2.000	2.000	1.115	1.250
		mm	25.40	MT3	88.90	50.80	50.80	28.32	31.75
QITP35N-5-4	00424	in	1.250	MT4	4.150	2.500	2.500	1.245	1.615
		mm	31.75	MT4	105.41	63.50	63.50	31.62	41.02
QITP40N-5-4	00572	in	1.250	MT4	4.500	2.500	2.500	1.530	1.615
		mm	31.75	MT4	114.30	63.50	63.50	38.86	41.02
QITP50N-5-5	00722	in	1.750	MT5	5.625	3.500	3.500	1.900	2.310
		mm	44.45	MT5	142.88	88.90	88.90	48.26	58.67
QITP60N-5-5	00872	in	1.750	MT5	5.625	3.500	3.500	2.207	2.310
		mm	44.45	MT5	142.88	88.90	88.90	56.06	58.67

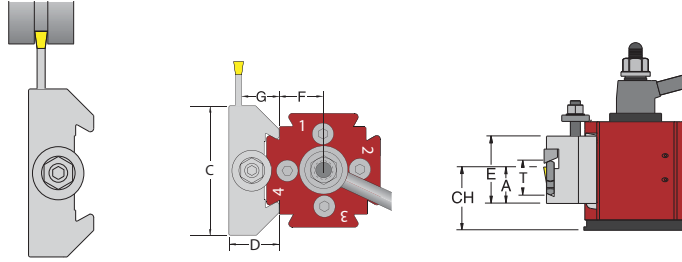


No. QITPN-7-71C

Extra Heavy Duty Cut-Off Blade Toolholder

This holder is best used for holding cut-off blades. It has a taper locking system for maximum rigidity and performance in cut-off and face grooving operations. Fits industry standard tool posts.

For Slot Grip Cut-Off Blades and Inserts see next page



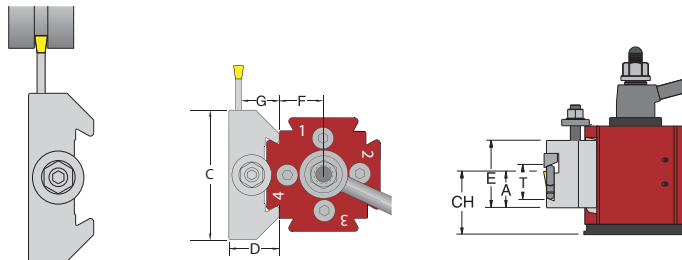
QITP Description	Part No. 733101-	Size	A	Slot Grip Blade Size "T"	C	D	E	F	G
QITP25N-7-71C	00126	in	0.875	SGIH-19-2	1.250	1.250	1.750	0.880	1.090
		mm	22.23		31.75	31.75	44.45	22.35	27.69
QITP30N-7-71C	00276	in	0.905	SGIH-19-2	1.500	1.500	2.000	1.115	1.340
		mm	22.99		38.10	38.10	50.80	28.32	34.04
QITP35N-7-71C	00428	in	1.330	SGIH-26-2 to 26-6	1.500	1.750	2.500	1.245	1.530
		mm	33.78		38.10	44.45	63.50	31.62	38.86
QITP40N-7-71C	00576	in	1.330	SGIH-26-2 to 26-6	1.500	1.750	2.500	1.530	1.530
		mm	33.78		38.10	44.45	63.50	38.86	38.86
QITP50N-7-71C	00726	in	1.585	SGIH-32-3 to 32-9	2.000	2.250	3.250	1.900	1.980
		mm	40.26		50.80	57.15	82.55	48.26	50.29
QITP60N-7-71C	00876	in	1.710	SGIH-32-3 to 32-9	2.250	2.250	3.250	2.207	1.980
		mm	43.43		57.15	57.15	82.55	56.06	50.29

No. QITPN-71S

Oversized Cut-Off Blade Toolholder

This holder is best used for holding oversized cut-off blades. It has a taper locking system for maximum rigidity and performance in cut-off and face grooving operations. Fits industry standard tool posts.

For Slot Grip Cut-Off Blades and Inserts see next page

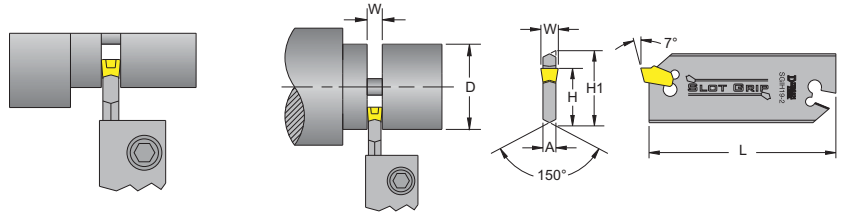


QITP Description	Part No. 733101-	Size	A	Slot Grip Blade Size "T"	C	D	E	F	G
QITP25N-71-26	00128	in	1.125	SGIH-26-2 to 26-6	2.750	1.500	2.000	0.880	1.280
		mm	28.58		69.85	38.10	50.80	22.35	32.51
QITP30N-71-26	00278	in	1.250	SGIH-26-2 to 26-6	3.250	1.500	2.250	1.115	1.280
		mm	31.75		82.55	38.10	57.15	28.32	32.51
QITP35N-71-32	00430	in	1.500	SGIH-32-3 to 26-6	3.750	1.750	2.500	1.245	1.500
		mm	38.10		95.25	44.45	63.50	31.62	38.10
QITP40N-71-32	00578	in	1.500	SGIH-32-3 to 26-6	4.500	1.750	2.500	1.530	1.500
		mm	38.10		114.30	44.45	63.50	38.86	38.10



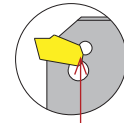
Slot Grip Cut-Off Blades

Designed for use with standard cut-off inserts and standard cut-off blade holders. The insert's cutting edge location repeats accurately and as a result prevents insert splitting under heavy feed and shock loads. The blade and insert geometry permits free chip flow, minimizing insert breakage due to chip build-up.



SLOT GRIP

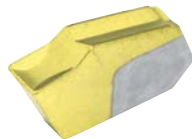
Improved design featuring a "Positive Stop". Inserts are securely held in Slot Grip Positive Stop Blades by a tapered locking system featuring a "Positive Stop" that prevents insert drift and the blade pocket from spreading once the insert is firmly in place.



Positive Stop

Desc.	Part No. 733101-	Insert Used	W		D Max		A		L	H		H 1		
			in	mm	in	mm	in	mm		in	mm	in	mm	
SGIH19-2	62950	SGT(N/R/L)-2	.087	2	1.57	39,9	.063	1,57	3.38	85,9	.618	15,7	0.75	19,1
SGIH26-2	62951	SGT(N/R/L)-2	.087	2	2.00	50,8	.063	1,57						
SGIH26-3	62952	SGT(N/R/L)-3	.122	3	3.00	76,2	.094	2,39						
SGIH26-4	62953	SGT(N/R/L)-4	.161	4	3.15	80,0	.125	3,18						
SGIH26-5	62954	SGT(N/R/L)-5	.201	5	3.15	80,0	.156	3,96						
SGIH26-6	62955	SGT(N/R/L)-6	.252	6	3.15	80,0	.203	5,16						
SGIH32-3	62956	SGT(N/R/L)-3	.122	3	3.94	100,0	.094	2,39	5.90	149,9	.984	25,0	1.25	31,8
SGIH32-4	62957	SGT(N/R/L)-4	.161	4	3.94	100,0	.125	3,18						
SGIH32-5	62958	SGT(N/R/L)-5	.201	5	4.71	119,6	.156	3,96						
SGIH32-6	62959	SGT(N/R/L)-6	.252	6	4.72	119,9	.203	5,16						
SGIH32-8	62960	SGT(N/R/L)-8	.315	8	5.51	140,0	.268	6,81						
SGIH32-9	62961	SGT(N/R/L)-9	.378	9	5.51	140,0	.312	7,92						

Cut-Off & Grooving Inserts



DASK25B - (C2-C3 Substrate with PVD TiN-TiAlN-TiN coating) First Choice for High Performance Machining of all carbon and alloy steels, non-ferrous metals, aerospace titanium alloys, inconel, austenitic stainless steels, cast iron, copper/brass, with medium to high sfm, in dry or wet conditions. PVD TiN-TiAlN-TiN multi layer with micro dense coating structure builds a strong and tough cutting edge, dissipates heat, reduces thermal cracking and improves wear resistance and insert life. Maximum working temperature is 1650°F. Best used on CNC Lathes.

DC656 - (C5-C6 Substrate with CVD TiN/TiC-TiN coating) First Choice for general turning applications on ferrous metals and 400 series stainless steels, at medium cutting sfm and wet conditions. Multi Layer CVD carbide grade. Thermal deformation and abrasion resistant substrate with cobalt enriched periphery.

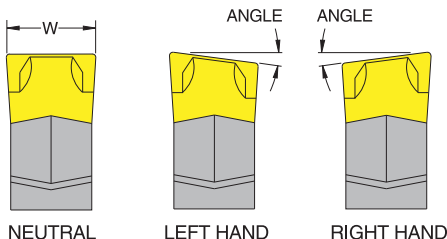
Desc.	DASK25 First Choice for High Performance Machining	DC656 First Choice for General Turning Applications	Insert Size	Lead Angle	Width + .004	
					in	mm
SGTN-2	82223	82222	2	0°	.087	2mm
SGTR-2-8	82251	82250	2	8°	.087	2mm
SGTL-2-8	82279	82278	2	8°	.087	2mm
SGTN-3	82227	82226	3	0°	.122	3mm
SGTR-3-8	82255	82254	3	8°	.122	3mm
SGTL-3-8	82283	82282	3	8°	.122	3mm
SGTN-4	82231	82230	4	0°	.161	4mm
SGTR-4-8	82259	82258	4	8°	.161	4mm
SGTL-4-8	82287	82286	4	8°	.161	4mm
SGTN-5	82235	82234	5	0°	.201	5mm
SGTR-5-8	82263	82262	5	8°	.201	5mm
SGTL-5-8	82291	82290	5	8°	.201	5mm
SGTN-6	82239	82238	6	0°	.252	6mm
SGTR-6-8	82267	82266	6	8°	.252	6mm
SGTL-6-8	82295	82294	6	8°	.252	6mm
SGTN-8	82243	82242	8	0°	.315	8mm
SGTR-8-8	82271	82270	8	8°	.315	8mm
SGTL-8-8	82299	82298	8	8°	.315	8mm
SGTN-9	82247	82246	9	0°	.378	9mm
SGTR-9-8	82275	82274	9	8°	.378	9mm
SGTL-9-8	82303	82302	9	8°	.378	9mm

Chipbreaker Geometry

- Reduced machining force
- Controlled, coiled chip flow
- Higher material removal rate

Application

- Quickly inserted into adjustable blades
- For cut-off and grooving
- Fair for interrupted cuts

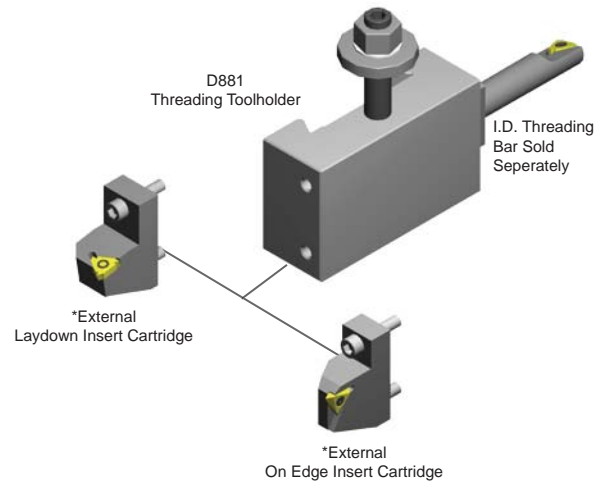
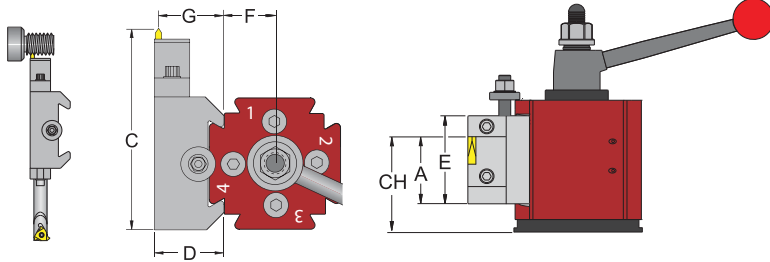




No. QITPN-881

O.D. and I.D. Threading Toolholder

This holder is capable of covering all threading requirements. It uses standard carbide inserts. The holder is supplied with a cartridge for external threading. Fits industry standard tool posts.



Description	Part No. 733101-	Size	A	C	D	E	F	G	*External On Edge Insert Cartridge				*External Laydown Insert Cartridge							
									Desc.	Part No. 733101-	TNMC Insert	Torx Screw	Torx Key	Desc.	Part No. 733101-	Insert	Torx Screw	Torx Key	Pitch	
																			TPI	mm
QITP25N-881-OE	00132	in	4.130	1.250	1.750	0.880	1.250	1.000	TIH253-32	03621	32	GTS-1	T-10	NL253-3R	03635	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
QITP25N-881-LD	00133	mm	104,90	31,75	44,45	22,35	31,75	25,40												
QITP30N-881-OE	00282	in	4.630	1.500	2.000	1.115	1.500	1.250	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
QITP30N-881-LD	00283	mm	117,60	38,10	50,80	28,32	38,10	31,75												
QITP35N-881-OE	00434	in	5.630	1.750	2.500	1.245	1.685	1.435	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
QITP35N-881-LD	00435	mm	143,00	44,45	63,50	31,62	42,80	36,45												
QITP40N-881-OE	00582	in	6.130	1.750	2.500	1.530	1.685	1.435	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
QITP40N-881-LD	00583	mm	155,70	44,45	63,50	38,86	42,80	36,45												

*Part Descriptions ending in -OE come with External On Edge Insert Cartridge. Part Descriptions ending in -LD come with External Laydown Insert Cartridge. Inserts not included. Internal threading bar is not supplied with the holder.

Laydown Threading Insert See below



On Edge Threading Insert TNMC - NV "V" Thread

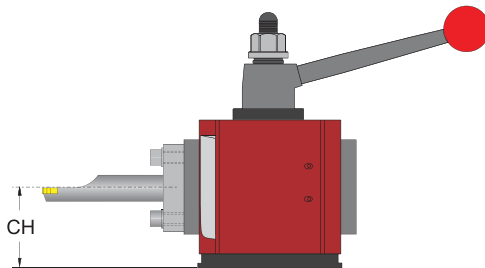
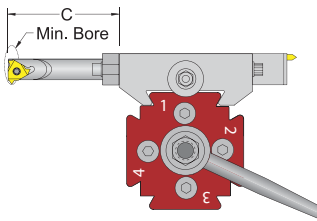


Desc.	Steel DVP656 Grade Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	I.C.		Thickness		Hole Dia.		Depth.	
			in	mm	in	mm	in	mm	in	mm
TNMC-32NV-	72003	72004	.375	9,5	.1250	3,18	.150	3,81	.150	3,81

Internal Threading Bar

For QITPN-881 Toolholder

This cartridge is to be used on the #881 holder. It is used for internal threading with a laydown insert. It can be mounted on either end of the base holder.

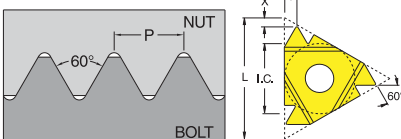


Right hand shown, left hand opposite. When ordering threading bar, specify right or left. Inserts not included.

Series	Right Hand			Left Hand			Min. Bore		C		Pitch		Insert I.C.	Torx Screw	Torx Key
	Desc.	No. 733101-	Insert	Desc.	No. 733101-	Insert	in	mm	in	mm	TPI	mm			
25,30,35,40	NL50R	03661	11IR-A60	NL50L	03669	11IL-A60	0.500	12,7	2.375	60,3	16-48	0,5-1,5	.250	TS-25.45-6M1	T-8
25,30,35,40	NL75R	03663	16IR-AG60	NL75L	03671	16IL-AG60	0.750	19,1	2.875	73,0	8-48	0,5-3,0	.375	TS-16	T-10
35,40	NL125R	03665	22IR-N60	NL125L	03673	22IL-N60	1.250	31,8	3.375	3,375	5-7	3,5-5,0	.500	TS-22	T-20

Laydown Threading Insert

60° Partial Profile



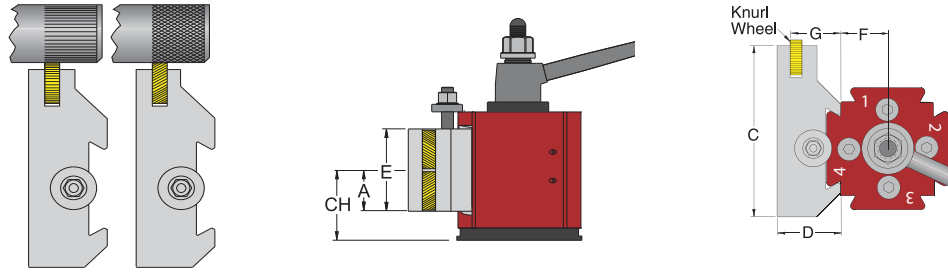
Internal Right Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	Internal Left Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	L mm	I.C. in	Pitch		x mm	y mm
								TPI	MM		
11IR-A60	74056	74057	11IL-A60	74060	74061	11	.250	16-48	0,5-1,5	0,8	0,9
16IR-A60	74064	74065	16IL-A60	74068	74069	16	.375	16-48	0,5-1,5		
16IR-G60	74072	74073	16IL-G60	74076	74077	16	.375	8-14	1,75-3,0	1,2	1,7
16IR-AG60	74080	74081	16IL-AG60	74084	74085	16	.375	8-48	0,5-3,0		
22IR-N60	74088	74089	22IL-N60	74092	74093	22	.500	5-7	3,5-5,0	1,7	2,5



No. QITPN-10

Knurling Toolholder & Wheels

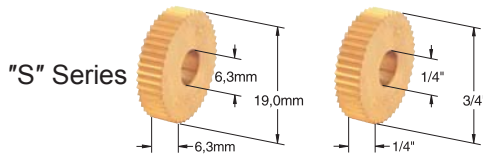
This holder is best used for knurling diamond or straight patterns. Fits industry standard tool posts.



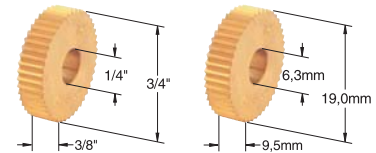
Supplied with one set of 25TPI diagonal knurl wheels for a diamond pattern.

Description	Part No. 733101-	Size	A	C	D	E	F	G	Knurling Wheel			Knurling Pin	
									Series	in	mm	Desc.	733101-
QITP25N-10	00134	in	0.875	3.500	1.250	1.750	0.880	1.065	S	O.D. 3/4	19,1	A60464	28620
		mm	22.23	88.90	31.75	44.45	22.35	27.05			6,35		
QITP30N-10	00284	in	1.000	4.250	1.500	2.000	1.115	1.315	S	I.D. 1/4	6,35	A60464	28620
		mm	25.40	107.95	38.10	50.80	28.32	33.40			T 1/4		
QITP35N-10	00436	in	1.250	5.000	1.750	2.500	1.245	1.545	A	O.D. 3/4	19,1	A60466	28630
		mm	31.75	127.00	44.45	63.50	31.62	39.24			I.D. 1/4		
QITP40N-10	00584	in	1.250	5.500	1.750	2.500	1.530	1.545	A	I.D. 1/4	9,52	A60466	28630
		mm	31.75	139.70	44.45	63.50	38.86	39.24			T 3/8		

Knurling Wheels



"A" Series



TPI Tooth Per In.	Metric Pitch	Included Tooth Angle	"S" Series-Circular Pitch			"A" Series-Circular Pitch		
			Straight	Diagonal Right	Diagonal Left	Straight	Diagonal Right	Diagonal Left
			High Speed Beveled			High Speed Beveled		
16	1,6mm	90°	SS-16-HSB-CP UPC No. 26839	SDR-16-HSB-CP UPC No. 26961	SDL-16-HSB-CP UPC No. 27085	AS-16-HSB-CP UPC No. 23541	ADR-16-HSB-CP UPC No. 23673	ADL-16-HSB-CP UPC No. 23805
20	1,2mm	90°	SS-20-HSB-CP UPC No. 26841	SDR-20-HSB-CP UPC No. 26963	SDL-20-HSB-CP UPC No. 27087	AS-20-HSB-CP UPC No. 23543	ADR-20-HSB-CP UPC No. 23675	ADL-20-HSB-CP UPC No. 23807
25	1,0mm	90°	SS-25-HSB-CP UPC No. 26843	SDR-25-HSB-CP UPC No. 26965	SDL-25-HSB-CP UPC No. 27089	AS-25-HSB-CP UPC No. 23545	ADR-25-HSB-CP UPC No. 23677	ADL-25-HSB-CP UPC No. 23809
30	0,8mm	90°	SS-30-HSB-CP UPC No. 26845	SDR-30-HSB-CP UPC No. 26967	SDL-30-HSB-CP UPC No. 27091	AS-30-HSB-CP UPC No. 23547	ADR-30-HSB-CP UPC No. 23679	ADL-30-HSB-CP UPC No. 23811

Call Dorian for more information or to request a knurling catalog.

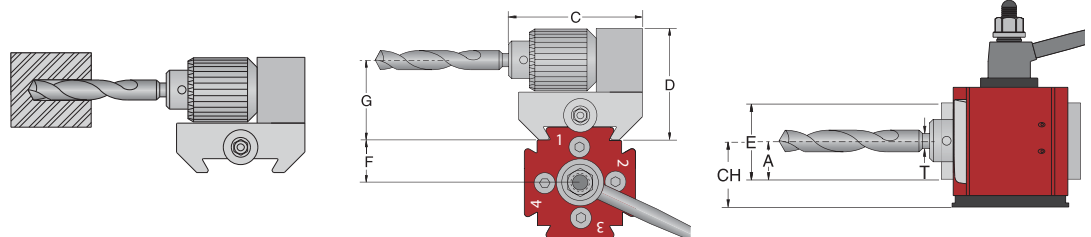
No. QITPN-35

Drill Chuck Toolholder

This holder is best used for holding drills, reamers, taps, etc., without tailstock mounting. It uses a drill chuck mounted directly to a quick change holder.

This holder is supplied with a drill-chuck.

Fits industry standard tool posts.

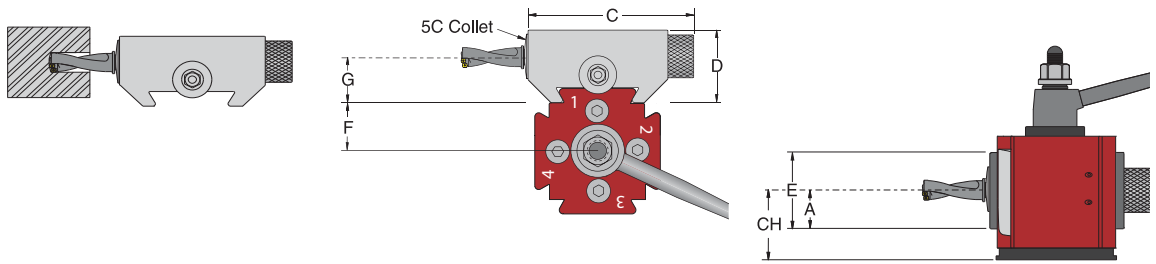


Description	Part No. 733101-	Size	A	T Capacity	C	D	E	F	G
QITP25N-35	00140	in	1.000	0 - 1/2	4.175	3.101	2.000	0.880	2.063
		mm	25.40	0 - 12	106.05	78.77	50.80	22.35	52.40
QITP30N-35	00290	in	1.000	0 - 1/2	4.175	3.101	2.000	1.115	2.063
		mm	25.40	0 - 12	106.05	78.77	50.80	28.32	52.40
QITP35N-35	00442	in	1.125	0 - 1/2	4.673	3.726	2.250	1.245	2.625
		mm	28.58	0 - 12	118.69	94.64	57.15	31.62	66.68
QITP40N-35	00590	in	1.125	0 - 1/2	4.673	3.726	2.250	1.530	2.625
		mm	28.58	0 - 12	118.69	94.64	57.15	38.86	66.68



No. QITPN-36 5C Collet Toolholder

This holder's wide range of collet adaptability makes this tool ideal for holding drills, taps, chucks, & boring bars. It holds the tools with extreme rigidity without scarring them. Fits industry standard tool posts.



Description	Part No. 733101-	Size	A	C	D	E	F	G
QITP25N-36	00142	in	1.125	4.250	2.500	2.250	0.880	1.500
		mm	28.58	107.95	63.50	57.15	22.35	38.10
QITP30N-36	00292	in	1.125	4.250	2.500	2.250	1.115	1.500
		mm	28.58	107.95	63.50	57.15	28.32	38.10
QITP35N-36	00444	in	1.375	4.500	2.750	2.750	1.245	1.625
		mm	34.93	114.30	69.85	69.85	31.62	41.28
QITP40N-36	00592	in	1.375	5.000	2.750	2.750	1.530	1.625
		mm	34.93	127.00	69.85	69.85	38.86	41.28

Quadra® Indexing Quick Change Tool Post SETS

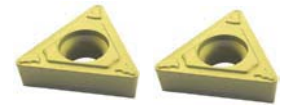
Quadra® First Time Buyer SET Includes FREE TOOLING

Set Includes:

- (1) Tool Post
- (4) Holders
- (4) Toolholders **FREE**
- (5) Inserts **FREE**



1ea. QITPN-1 + Free Toolholder & 2 Inserts



2ea. TCMT Turning Insert



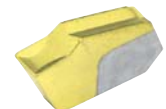
1ea. QITPN-2 + Free Toolholder & 1 Insert



1ea. 11/16IR-A60 Laydown



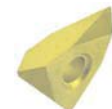
1ea. QITPN-7-71C + Free Toolholder & 1 Insert



1ea. SGTN Cut-off Insert



1ea. QITPN-881 + Free Toolholder & 1 Insert



1ea. TNMC OnEdge Insert

Part No. 733101-	00056	00058	00060	00062
Description	QITP25N-FTB	QITP30N-FTB	QITP35N-FTB	QITP40N-FTB
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"
Set Includes				
(1) Tool Post	QITP25N	QITP30N	QITP35N	QITP40N
(4) Holders	QITP25N-1 QITP25N-2 QITP25N-7-71C QITP25N-881	QITP30N-1 QITP30N-2 QITP30N-7-71C QITP30N-881	QITP35N-1 QITP35N-2 QITP35N-7-71C QITP35N-881	QITP40N-1 QITP40N-2 QITP40N-7-71C QITP40N-881
Free Tooling				
(4) Toolholders	STNCR08-2J STCMB06-2 SGIH19-2 NL50R	STNCR10-2A STCMB08-2 SGIH19-2 NL50R	STNCR12-3B STCMB10-2 SGIH26-3 NL75R	STNCR64-3D STCMB12-3 SGIH26-3 NL75R
(5) Inserts	TCMT-21.51-UM-DHCP25 TCMT-21.52-UM-DHCP25 SGTN-2-DC656 TNMC-32NV-DVP656 11IR-A60-DVP656	TCMT-21.51-UM-DHCP25 TCMT-21.52-UM-DHCP25 SGTN-2-DC656 TNMC-32NV-DVP656 11IR-A60-DVP656	TCMT-21.51-UM-DHCP25 TCMT-32.52-UM-DHCP25 SGTN-3-DC656 TNMC-32NV-DVP656 16IR-A60-DVP656	TCMT-32.51-UM-DHCP25 TCMT-32.52-UM-DHCP25 SGTN-3-DC656 TNMC-32NV-DVP656 16IR-A60-DVP656



Sets for Quadra® Indexing Quick Change Tool Post

Turning Sets

- (1) Tool Post
- (4) Holders

Tooling Not Included



Part No. 733101-	00014	00015	00016	00017	00018	00019
Description	QITP25N-TS	QITP30N-TS	QITP35N-TS	QITP40N-TS	QITP50N-TS	QITP60N-TS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
Set Includes						
(1) Tool Post	QITP25N	QITP30N	QITP35N	QITP40N	QITP50N	QITP60N
(4) Holders	(2) QITP25N-1 (2) QITP25N-2	(2) QITP30N-1 (2) QITP30N-2	(2) QITP35N-1 (2) QITP35N-2	(2) QITP40N-1 (2) QITP40N-2	(2) QITP50N-1 (2) QITP50N-2	(2) QITP60N-1 (2) QITP60N-2

Standard Sets

- (1) Tool Post
- (4) Holders

Tooling Not Included



Part No. 733101-	00020	00021	00022	00023	00024	00025
Desc.	QITP25N-INSS	QITP30N-INSS	QITP35N-INSS	QITP40N-INSS	QITP50N-INSS	QITP60N-INSS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
Standard Set Includes						
(1) Tool Post	QITP25N	QITP30N	QITP35N	QITP40N	QITP50N	QITP60N
(4) Holders	(1) QITP25N-1 (1) QITP25N-2 (1) QITP25N-4-CNC (1) QITP25N-7-71C	(1) QITP30N-1 (1) QITP30N-2 (1) QITP30N-4-CNC (1) QITP30N-7-71C	(1) QITP35N-1 (1) QITP35N-2 (1) QITP35N-4-CNC (1) QITP35N-7-71C	(1) QITP40N-1 (1) QITP40N-2 (1) QITP40N-4-CNC (1) QITP40N-7-71C	(1) QITP50N-1 (1) QITP50N-2 (1) QITP50N-4-CNC (1) QITP50N-7-71C	(1) QITP60N-1 (1) QITP60N-2 (1) QITP60N-4-CNC (1) QITP60N-7-71C

SUPER Quick Change Tool Post with Triple Action Locking System

- Multi-position locking handle adjustment
- Anti-Rotation mounting
- Super precision toolholder locking
- Repeatability within millionths
- Thousands of pounds of locking force with a finger tip






Rigidity!

Repeatability!

Quality!





Style	Features	Application
<p>SUPER Quick Change Tool Post</p>  <p>PG. 32</p>	<ul style="list-style-type: none"> • Triple Action Locking System • Zero Backlash • Precise Repeatability within .0001" • 15° Locking Handle Position Adjustment • Super Heavy Duty Locking Gear and Wedge Style Sliding Gibs • Industry Standard Interchangeable Toolholders • High Tensile Strength Chromium-Molybdenum Alloy Steel Body, Locking Gear, Sliding Gibs, Locking Gear Head, and Locking Handle <ul style="list-style-type: none"> • Thru Hardened, Ion Nitrided, and Nickel-plated Body • Thru Hardened and Ion Nitrided and Precision Ground Locking Gear and Sliding Gibs for Wear Resistance and Repeatability • CNC Precision Ground and Qualified for accuracy and super precise repeatability 	<ul style="list-style-type: none"> • CNC Toolroom Lathes • Manual Toolroom Lathes • Engine Lathes • Heavy Duty Oil-Country Lathes • Super Precision High Speed • Tight Tolerances and Excellent Finish Requiring Applications • Deep Drilling and Boring • Heavy Material Removal • Multi Turning, Drilling, Boring, Threading Applications
<p>No. D1 Turning & Facing Holder</p>  <p>PG. 33</p>	<ul style="list-style-type: none"> • Quick Change Mounting • High Tensile Strength Chromium-Molybdenum Alloy Steel <ul style="list-style-type: none"> • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Holds Square Shank Tools • Turning and Facing • Threading and Grooving • Cut-Off Applications
<p>No. D2 Turning, Facing & Boring Holder</p>  <p>PG. 33</p>	<ul style="list-style-type: none"> • Boring Bar "V" Seat • Quick Change Mounting • High Tensile Strength Chromium-Molybdenum Alloy Steel <ul style="list-style-type: none"> • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Holds Square Shank Tools • Holds Boring Bars • Turning and Facing • Light to Medium Boring • Threading and Grooving • Cut-Off Applications
<p>No. D4-41-41S CNC Extra Heavy Duty Boring Bar Holder - CNC Locking System</p>  <p>PG.33</p>	<ul style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • Quick-Lock System Aligns Boring Bar Centerheight and Rake Angle Automatically. • Four Special Flat Machined Locking Screws for High Rigidity Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting <ul style="list-style-type: none"> • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Precision Boring Applications • Heavy Duty Boring Applications • Heavy Duty Drilling Applications • Deep Boring, Drilling and Threading Applications
<p>No. D41-D41S COL Extra Heavy Duty Boring Bar Holder- Collar Locking System</p>  <p>PG. 34-35</p>	<ul style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • 360° Locking for High Rigidity and Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting <ul style="list-style-type: none"> • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Precision Boring Applications • Heavy Duty Boring Applications • Heavy Duty Drilling Applications • Deep Boring, Drilling and Threading Applications

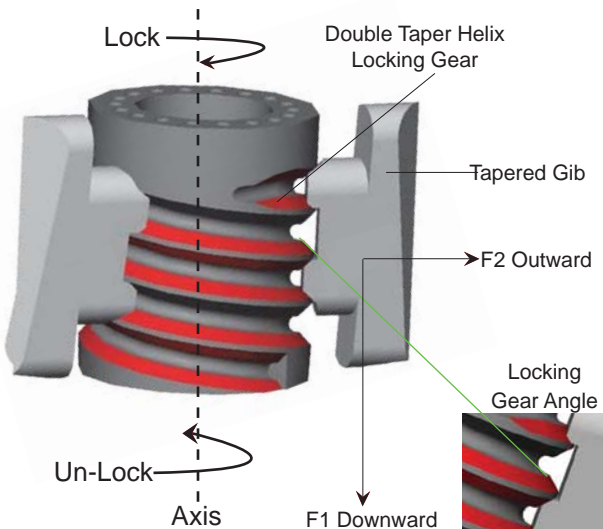


Style	Features	Application
No. D5 Morse Taper Holder		
 PG.35	<ul style="list-style-type: none"> Precision Ground Morse Taper Qualified for Precise Tool Alignment and Squareness Designed for Deep Drilling Heavy Duty Drilling Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D7-71C Reversible Cut-Off Blade Holder		
 PG.35	<ul style="list-style-type: none"> Precision Ground Blade Dovetail Seat Qualified for Precise Tool Alignment and Squareness Quick Change Mounting High Tensile Strength Chromium- Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D71S Oversized Cut-Off Blade Holder		
 PG.35	<ul style="list-style-type: none"> Oversized Blade Capacity Precision Ground Blade Dovetail Seat Qualified for Precise Tool Alignment and Squareness Quick Change Mounting High Tensile Strength Chromium- Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D881 O.D. or I.D. Threading Holder		
 PG.37	<ul style="list-style-type: none"> Quick Change Mounting High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D10 Knurling Holder		
 PG.38	<ul style="list-style-type: none"> Quick Change Mounting High Tensile Strength Chromium-Molybdenum Alloy Steel 	<ul style="list-style-type: none"> Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D35 Dovetail Drill Chuck Holder		
 PG.38	<ul style="list-style-type: none"> Supplied with a Rohm Chuck Qualified for Precise Tool Alignment and Squareness Designed for Versatility Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
No. D36 5C Collet Holder		
 PG.39	<ul style="list-style-type: none"> 5C Collet Holding System Supplied with Collet Closer Qualified for Precise Tool Alignment and Squareness Designed for Versatility Quick Change Mounting 	<ul style="list-style-type: none"> High Tensile Strength Chromium-Molybdenum Alloy Steel Thru Hardened, Ion-Nitrided, and Black Oxide Coated CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
		<ul style="list-style-type: none"> Deep Drilling Applications Heavy Duty Drilling Applications Reaming and Tapping
		<ul style="list-style-type: none"> Cut-Off Applications Grooving Applications
		<ul style="list-style-type: none"> Cut-Off Applications Grooving Applications
		<ul style="list-style-type: none"> OD and ID Threading
		<ul style="list-style-type: none"> OD Straight Knurling OD Diamond Knurling
		<ul style="list-style-type: none"> Center Drilling Precision Drilling Precision Reaming Tapping
		<ul style="list-style-type: none"> Miniature to Medium Size Tools For Special Tool Size and Shapes Accepts Square, Round & Hex Collets Drilling Applications Boring Applications Reaming Applications Tapping From 1/16" to 1.0" Diameter Tools



The Triple Action Wedge-Locking System

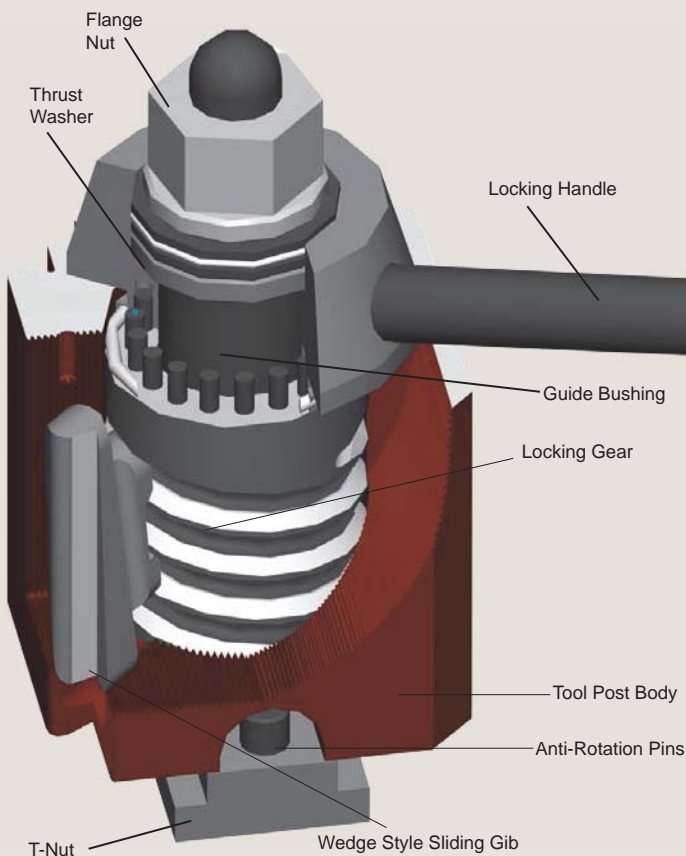
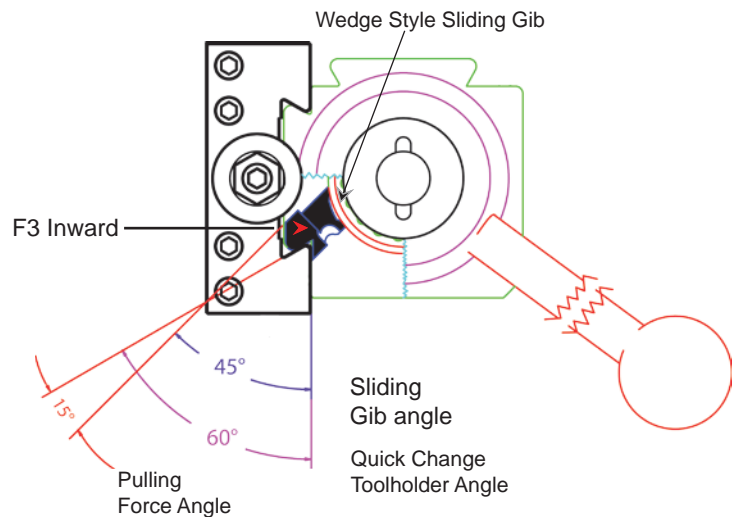
is a powerful combination of a downward, outward and inward force simultaneously locking the holder.



1. **F1 Downward Force:** (shown left) Rotating the locking gear moves the gib down, expanding the tool post dovetail to lock the toolholder.

2. **F2 Outward Force:** (shown left) When the gibs make full contact with the toolholder dovetail, the double-angle helix of the locking gear forces the gib outward, neutralizing any backlash to zero.

3. **F3 Inward Force:** (shown below) The differential between the sliding gib angle and the quick change holder angle pulls the toolholder towards the tool post dovetail surface, creating a one-piece locking effect.



Materials, Quality & Workmanship

The tool post body is made from chromium-molybdenum alloy steel, thru hardened, ion nitrided and Nickel-plated for protection and durability in machining environments. Precisely machined and ground with the most advanced technology & precision.

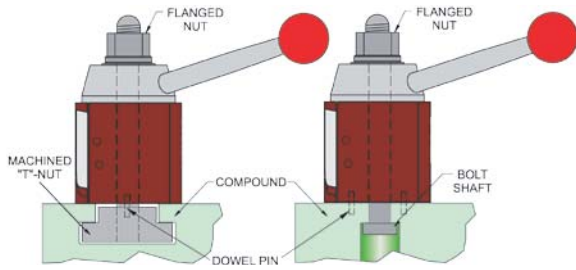
The patented locking gear and gibs are made from chromium-molybdenum alloy steel. The core thru hardness is 40-44 Rc and the surface is Ion-Nitrided to a hardness 60-64Rc to ensure a long working life and rust resistance under harsh working conditions.

The locking handle will lock within 45° of travel and its position can be adjusted in 15° increments.

An anti-rotation system is built into the tool post with anti-rotation pins, which are engaged with a "T" Nut or compound to provide maximum rigidity and stability when performing drilling, boring and heavy roughing operations.

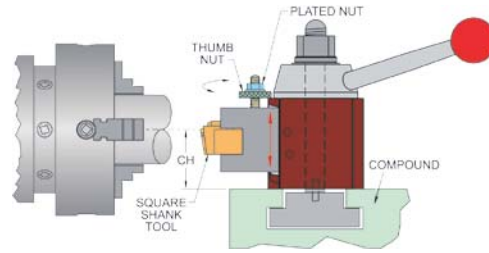


Tool Post Mounting



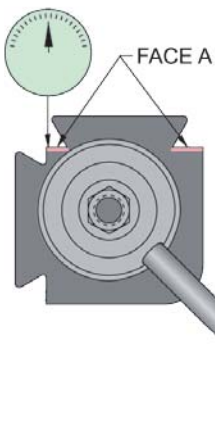
The tool post mounting is accomplished quickly and easily with either a "T" Nut that slides over the lathe compound or a Bolt Shaft. Tightening the Flange Nut will provide a rigid and reliable mounting of the tool post. The "T" Nut is provided blank or machined according to customer specification. Using the Bolt Shaft is the common mounting method on European lathes. Dowel pins are supplied standard to increase tool post mounting rigidity, if tool post shifting is a concern under heavy or interrupted cuts.

Center Height Adjustment



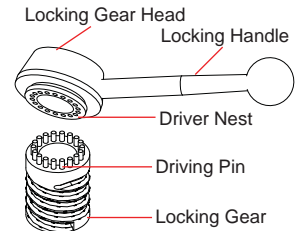
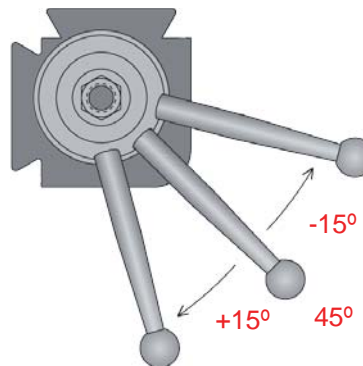
The Center Height Adjustment Assembly allows an easy and accurate adjustment of the cutting tool by rotating the Thumb Nut until the desired height is reached and locking the Plated Nut to preserve it. Maximum center height has been reached when the top of the holder is flush with the top of the tool post body. Minimum center height has been reached when the bottom of the holder is flush with the top of the compound.

Indicating Position



The double dovetails are ground at 90° square ($\pm .0002$ "). At mounting, it is necessary that Face "A" is set parallel to the lathe axis with an indicator in order for drills to work properly. The holder is slid over the tool post dovetail and locked with the handle. The surfaces in contact must be kept clean and lubricated at all times to prevent misalignment of the tool and loss of the tool post repeatability and rigidity. Also, whenever the drilling operation produces vibration, the parallelism of the tool post must be checked and kept within $\pm .0005$ ".

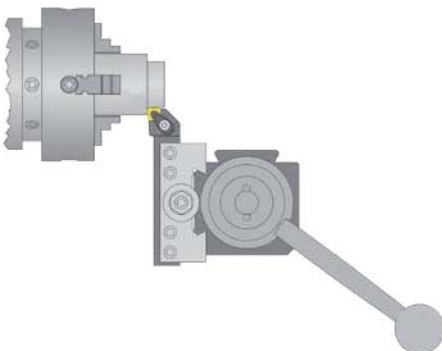
Locking Handle Positioning



To change the position of the handle: remove the *flange nut; remove the *guide bushing; pull the locking gear head and place to the desired position.

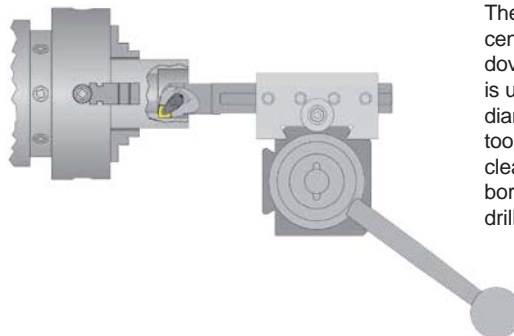
The locking handle will be at a 45° position when the holder is locked; however it is adjustable in 15° increments according to the machine requirements, to clear the machine tail stock, the safety door, or the machine safety guard.

O.D. Turning Operations



The dovetail closest to the chuck (left dovetail as shown below) is used for turning outside diameters. It holds the tool at the best location for clearance and rigidity for turning, threading, cut-off, grooving, and chamfering.

I.D. Turning Operations



The dovetail closest to the center of the chuck (top dovetail as shown below) is used for turning inside diameters. It holds the tool at the best location for clearance and rigidity when boring, threading, grooving, drilling, and center drilling.

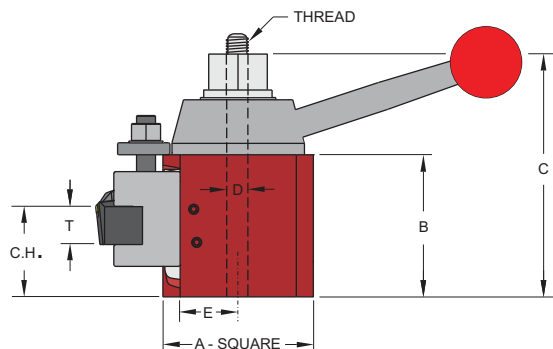


SUPER Quick Change Tool Post



Identification System for SUPER Quick Change Tool Post		
SDN	35	CXA
Tool Post Style	Tool Post Size	Industry Standard Identification

Identification System for SUPER Quick Change Toolholders								
D	35	CXA	4	M	CNC	COL	OE	LD
Toolholder Style	Tool Post Size	Industry Standard Identification	Type of Toolholder	Metric Units	Boring Bar Locking System		Insert Type	



- Zero Backlash
- Triple Action Locking System
- Precise Repeatability within .0001
- 15° Locking Handle Position Adjustment
- Industry-Standard Interchangeable Holders

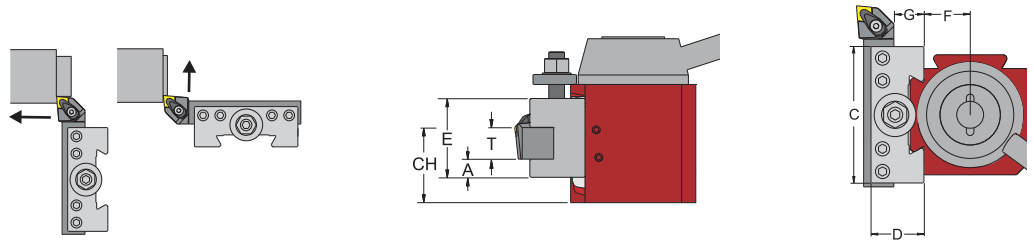
Description	SDN25AXA Part No. 733101-01000		SDN30BXA 01002		SDN35CXA 01004		SDN40CA 01006		SDN50DA 01008		SDN60EA 01010	
Size	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Lathe Swing Over Bed	≤12	≤300	13-15	330-380	14-17	350-430	16-20	400-500	17-32	430-810	≥25	≥635
A	2.625	66.67	3.000	76.2	3.500	88.90	4.000	101.60	5.000	127.00	6.000	152.4
B	2.500	63.5	2.750	69.9	3.250	82.60	3.750	95.25	4.625	117.48	5.000	127.0
C	4.240	107.7	4.710	119.6	5.650	143.51	6.335	160.91	7.435	188.85	8.060	204.72
D	0.500	12.7	0.625	16.0	0.750	19.0	0.875	22.23	1.000	25.40	1.125	28.6
E	0.880	22.35	1.115	28.32	1.199	30.45	1.530	38.86	1.900	48.26	2.207	56.06
T-Tool Capacity	1/2-3/4	12-20	5/8-1.0	16-25	3/4-1.0	20-25	1.0-1 1/4	25-32	1 1/4-1 1/2	32-40	1 1/2	40
Optimum C.H.*	1.250	31.75	1.312	33.32	1.625	41.28	1.937	49.20	2.562	65.07	3.000	76.20
C.H. MIN.	0.875	22.2	1.062	27.0	1.250	31.8	1.562	39.7	2.000	50.80	2.500	63.5
C.H. MAX.	1.875	47.63	1.937	49.20	2.250	57.75	2.562	65.07	3.575	85.73	3.500	88.90
Thread	1/2-20	M12x1,75	5/8-18	M16x2,0	3/4-16	M18x2,5	7/8-14	M20x1,5	1.0-14	M24x3,0	1 1/2-12	M27x3,0

* Optimum center height is calculated with the smaller tool size of the tool capacity. If the higher size tool is to be used, add 1/8" to the optimum center height.



No. D1 Turning & Facing Toolholder

This toolholder is best used for holding square shank toolholders close to the tool post to maximize rigidity when turning, facing, and threading. Fits industry standard tool posts.

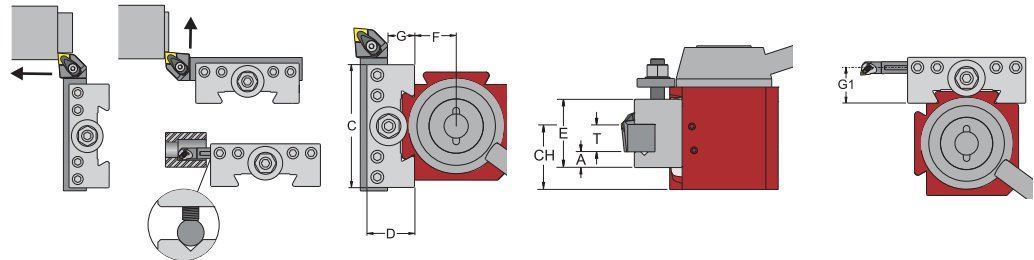


SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D25AXA-1	01100	in	0.375	.750	2.750	1.250	1.750	0.880	.790
D25AXA-1MS	01101	mm	9.53	20	69.85	31.75	44.45	22.35	20.07
D30BXA-1	01250	in	0.437	1.000	3.250	1.500	2.250	1.115	.915
D30BXA-1MS	01251	mm	11.10	25	82.55	38.10	57.15	28.32	23.24
D35CXA-1	01400	in	0.500	1.000	3.750	1.750	2.500	1.199	1.040
D35CXA-1MS	01401	mm	12.70	25	95.25	44.45	63.50	30.45	26.42
D40CA-1	01550	in	0.562	1.250	4.500	2.000	3.000	1.530	1.040
D40CA-1MS	01551	mm	14.27	32	114.30	50.80	76.20	38.86	26.42
D50DA-1	01700	in	0.750	1.500	6.000	2.500	3.500	1.900	1.290
D50DA-1MS	01701	mm	19.05	40	152.40	63.50	88.90	48.26	32.77
D60EA-1	01850	in	1.000	1.500	7.000	3.000	4.000	2.207	1.540
D60EA-1MS	01851	mm	25.40	40	177.80	76.20	101.60	56.06	39.12

Note: MS Designates Metric Screw

No. D2 Turning, Facing & Boring Toolholder

The "V" groove makes this holder more versatile so that it can hold either square shank toolholders or boring bars. Holds the tool close to the tool post to maximize rigidity when turning, facing, threading or boring. Fits industry standard toolposts.

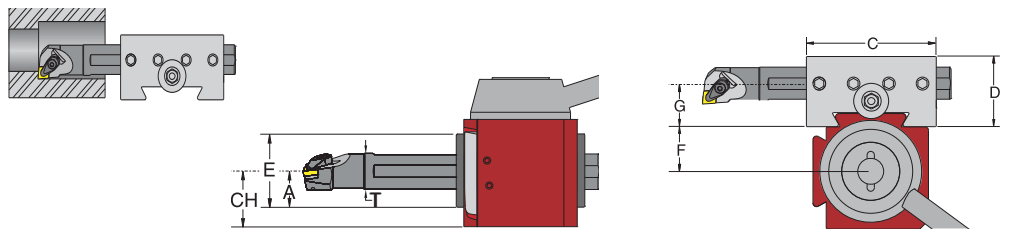


SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G	G1
D25AXA-2	01104	in	0.375	.750	2.750	1.250	1.750	0.880	.790	1.015
D25AXA-2MS	01105	mm	9.53	20	69.85	31.75	44.45	22.35	20.07	25.78
D30BXA-2	01254	in	0.437	1.000	3.250	1.500	2.250	1.115	.915	1.205
D30BXA-2MS	01255	mm	11.10	25	82.55	38.10	57.15	28.32	23.24	30.61
D35CXA-2	01404	in	0.500	1.000	3.750	1.750	2.500	1.199	1.040	1.390
D35CXA-2MS	01405	mm	12.70	25	95.25	44.45	63.50	30.45	26.42	35.31
D40CA-2	01554	in	0.562	1.250	4.500	2.000	3.000	1.530	1.040	1.515
D40CA-2MS	01555	mm	14.27	32	114.30	50.80	76.20	38.86	26.42	38.48
D50DA-2	01704	in	0.750	1.500	6.000	2.500	3.500	1.900	1.290	1.890
D50DA-2MS	01705	mm	19.05	40	152.40	63.50	88.90	48.26	32.77	48.01
D60EA-2	01854	in	1.000	1.500	7.000	3.000	4.000	2.207	1.540	2.265
D60EA-2MS	01855	mm	25.40	40	177.80	76.20	101.60	56.06	39.12	57.30

Note: MS Designates Metric Screw

No. D4-CNC Heavy Duty Boring Bar Toolholder Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center-height and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.



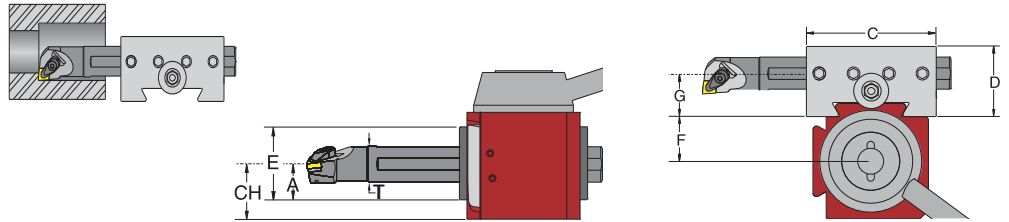
SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D25AXA-4-CNC	01110	in	.745	.750	2.750	1.490	1.490	.880	.937
D25AXA-4M-CNC	01112	mm	18.92	20	69.85	37.85	37.85	22.35	23.80
D30BXA-4-CNC	01260	in	.995	1.000	3.250	1.990	1.990	1.115	1.250
D30BXA-4M-CNC	01262	mm	25.27	25	82.55	50.55	50.55	28.32	31.75
D35CXA-4-CNC	01410	in	1.120	1.000	3.750	2.240	2.240	1.199	1.375
D35CXA-4M-CNC	01412	mm	28.45	25	95.25	56.90	56.90	30.45	34.93
D40CA-4-CNC	01560	in	1.245	1.250	4.500	2.490	2.490	1.530	1.500
D40CA-4M-CNC	01562	mm	31.62	32	114.30	63.25	63.25	38.86	38.10
D50DA-4-CNC	01710	in	1.495	1.500	5.500	2.990	2.990	1.900	2.000
D50DA-4M-CNC	01712	mm	37.97	40	139.70	75.95	75.95	48.26	50.80
D60EA-4-CNC	01860	in	1.995	2.000	6.500	3.990	3.990	2.207	2.500
D60EA-4M-CNC	01862	mm	50.67	50	165.10	101.35	101.35	56.06	63.50



No. D41-CNC

Extra Heavy Duty Boring Bar Toolholder Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.

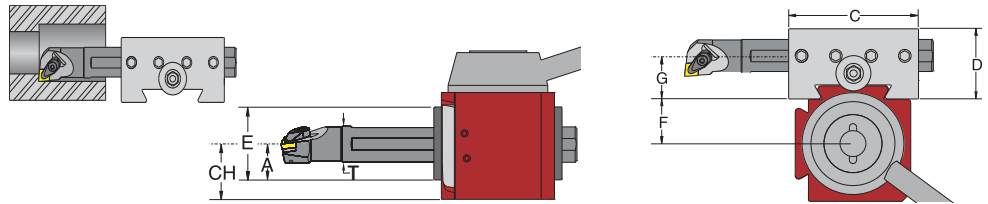


SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D25AXA-41-CNC	01114	in	.870	1.000	2.750	1.740	1.740	.880	1.062
D25AXA-41M-CNC	01116	mm	22.10	25	69.85	44.20	44.20	22.35	26.97
D30BXA-41-CNC	01264	in	1.120	1.250	3.250	2.240	2.240	1.115	1.375
D30BXA-41M-CNC	01266	mm	28.45	32	82.55	56.90	56.90	28.32	34.93
D35CXA-41-CNC	01414	in	1.120	1.250	3.750	2.240	2.240	1.199	1.375
D35CXA-41M-CNC	01416	mm	28.45	32	95.25	56.90	56.90	30.45	34.93
D40CA-41-CNC	01564	in	1.245	1.500	4.500	2.490	2.490	1.530	1.500
D40CA-41M-CNC	01566	mm	31.62	40	114.30	63.25	63.25	38.86	38.10
D50DA-41-CNC	01714	in	1.745	2.000	5.500	3.490	3.490	1.900	2.250
D50DA-41M-CNC	01716	mm	44.32	50	139.70	88.65	88.65	48.26	57.15
D60EA-41-CNC	01864	in	1.995	2.500	6.500	3.990	3.990	2.207	2.375
D60EA-41M-CNC	01866	mm	50.67	60	165.10	101.35	101.35	56.06	60.33

No. D41S-CNC

Super Oversized Boring Bar Toolholder Inch/Metric

This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts.

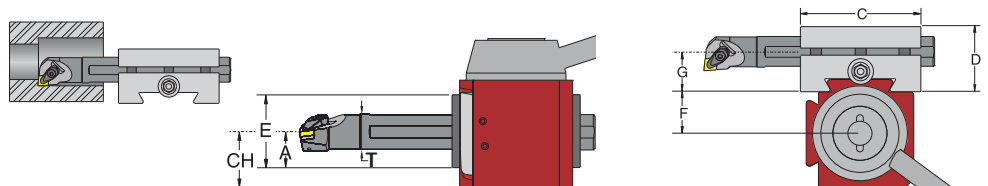


SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D35CXA-41-150-CNC	01418	in	1.245	1.500	4.000	2.490	2.490	1.199	1.500
D35CXA-41M-40-CNC	01420	mm	31.62	40	101.60	63.25	63.25	30.45	38.10
D40CA-41-200-CNC	01568	in	1.495	2.000	4.500	2.990	2.990	1.530	1.750
D40CA-41M-50-CNC	01570	mm	37.97	50	114.30	75.95	75.95	38.86	44.45
D50DA-41-250-CNC	01718	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250
D50DA-41M-60-CNC	01720	mm	50.67	60	165.10	101.35	101.35	48.26	57.15
D60EA-41-300-CNC	01868	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625
D60EA-41M-80-CNC	01870	mm	57.02	80	177.80	114.05	114.05	56.06	66.68

No. D41-COL

Extra Heavy Duty Boring Bar Toolholder Inch/Metric

This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts.



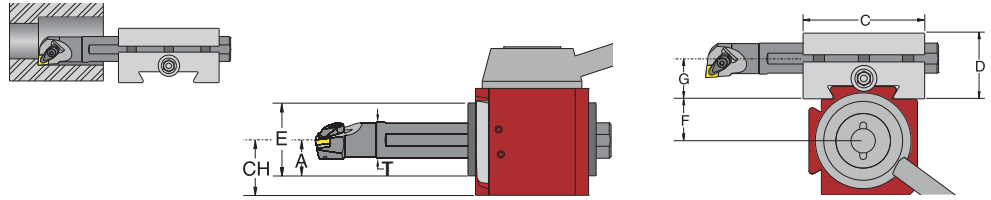
SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D35CXA-41-COL	01460	in	1.045	1.250	3.750	2.240	2.240	1.999	1.375
D40CA-41-COL	01608	in	1.170	1.500	4.500	2.490	2.490	1.530	1.500
D50DA-41-COL	01752	in	1.745	2.000	5.500	3.490	3.490	1.900	2.250
D60EA-41-COL	01896	in	1.995	2.500	6.500	3.990	3.990	2.207	2.375



No. D41S-COL

Super Oversized Boring Bar Toolholder Inch/Metric

This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts.

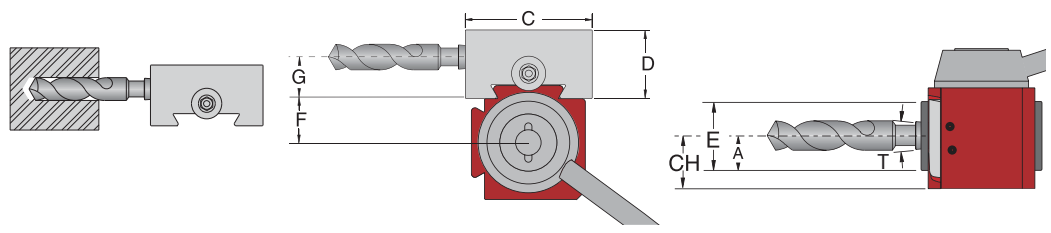


SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D35CXA-41-150-COL	01462	in	1.220	1.500	4.000	2.490	2.490	1.199	1.500
D40CA-41-200-COL	01610	in	1.395	2.000	4.500	2.990	2.990	1.530	1.750
D50DA-41-250-COL	01754	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250
D60EA-41-300-COL	01898	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625

No. D5

Morse Taper Toolholder

This holder is best used for holding morse taper tools. It can be used for drilling, boring, or reaming operations. Fits industry standard tool posts.



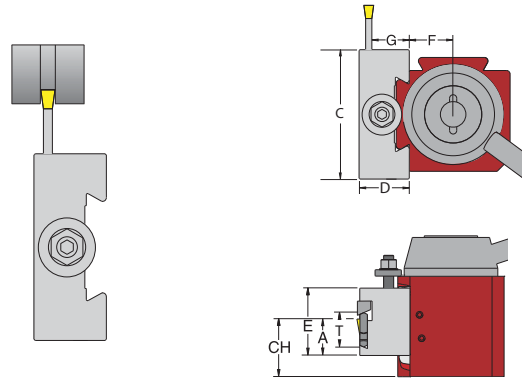
SDN Description	Part No.733101-	Size	A	T	C	D	E	F	G
D25AXA-5-2	01122	in	0.750	MT2	2.750	1.500	1.500	0.880	0.930
		mm	19.05	MT2	69.85	38.10	38.10	22.35	23.62
D30BXA-5-3	01272	in	1.000	MT3	3.500	2.000	2.000	1.115	1.250
		mm	25.40	MT3	88.90	50.80	50.80	28.32	31.75
D35CXA-5-4	01424	in	1.125	MT4	4.150	2.500	2.250	1.199	1.615
		mm	28.58	MT4	105.41	63.50	57.15	30.45	41.02
D40CA-5-4	01572	in	1.250	MT4	4.500	2.500	2.500	1.530	1.615
		mm	31.75	MT4	114.30	63.50	63.50	38.86	41.02
D50DA-5-5	01722	in	1.750	MT5	5.625	3.500	3.500	1.900	2.300
		mm	44.45	MT5	142.88	88.90	88.90	48.26	58.42
D60EA-5-5	01872	in	1.750	MT5	5.500	3.500	3.500	2.207	2.240
		mm	44.45	MT5	139.70	88.90	88.90	56.06	56.90

No. D7-71C & D71S

Extra Heavy Duty and Oversized Extra Heavy Duty Cut-Off Blade Toolholders

This holder is best used for holding cut-off blades. It has a taper locking system for maximum rigidity and performance in cut-off and face grooving operations. Fits industry standard tool posts.

For Slot Grip Cut-Off Blades and Inserts see next page.



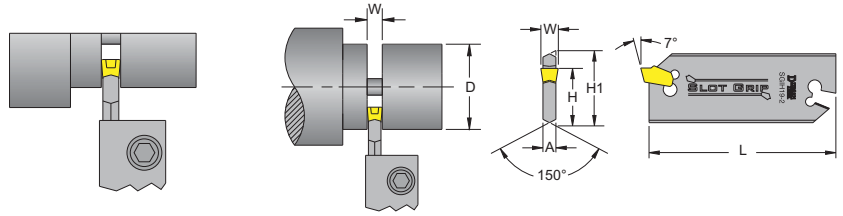
No. D7-71C Extra Heavy Duty Cut-Off Blade Toolholder										
Desc.	Part No. 733101-	Size	A	Slot Grip Blade Size "T"	T Type Blade	C	D	E	F	G
D25AXA-7-71C	01126	in	0.875	SGIH-19-2	P3	2.750	1.250	1.750	0.880	1.090
		mm	22.23			69.85	31.75	44.45	22.35	27.69
D30BXA-7-71C	01276	in	0.905	SGIH-19-2	P3	3.250	1.250	1.750	1.115	1.090
		mm	22.99			82.55	31.75	44.45	28.32	27.69
D35CXA-7-71C	01428	in	1.330	SGIH-26-2 to 26-6	P5	3.750	1.500	2.250	1.199	1.280
		mm	33.78			95.25	38.10	57.15	30.45	32.51
D40CA-7-71C	01576	in	1.330	SGIH-26-2 to 26-6	P9	4.500	1.500	2.500	1.530	1.280
		mm	33.78			114.30	38.10	63.50	38.86	32.51
D50DA-7-71C	01726	in	1.585	SGIH-32-3 to 32-9	P9	6.000	2.000	3.000	1.900	1.730
		mm	40.26			152.40	50.80	76.20	48.26	43.94
D60EA-7-71C	01876	in	1.710	SGIH-32-3 to 32-9	P9	7.000	2.250	3.250	2.207	1.980
		mm	43.43			177.80	57.15	82.55	56.06	50.29

No. D71S Oversized Extra Heavy Duty Cut-Off Blade Toolholder										
Desc.	Part No. 733101-	Size	A	Slot Grip Blade Size "T"	T Type Blade	C	D	E	F	G
D25AXA-71-26	01128	in	1.125	SGIH-26-2 to 26-6	P5	2.750	1.500	2.000	0.880	1.280
		mm	28.58			69.85	38.10	50.80	22.35	32.51
D30BXA-71-26	01278	in	1.250	SGIH-26-2 to 26-6	P5	3.250	1.500	2.250	1.115	1.280
		mm	31.75			82.55	38.10	57.15	28.32	32.51
D35CXA-71-32	01430	in	1.500	SGIH-32-3 to 32-9	P9	3.750	1.750	2.500	1.199	1.500
		mm	38.10			95.25	44.45	63.50	30.45	38.10
D40CA-71-32	01578	in	1.500	SGIH-32-3 to 32-9	P9	4.500	1.750	2.500	1.530	1.500
		mm	38.10			114.30	44.45	63.50	38.86	38.10

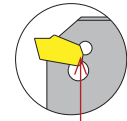


Slot Grip Cut-Off Blades

Designed for use with standard cut-off inserts and standard cut-off blade holders. The insert's cutting edge location repeats accurately and as a result prevents insert splitting under heavy feed and shock loads. The blade and insert geometry permits free chip flow, minimizing insert breakage due to chip build-up.



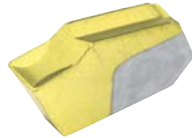
Improved design featuring a "Positive Stop". Inserts are securely held in Slot Grip Positive Stop Blades by a tapered locking system featuring a "Positive Stop" that prevents insert drift and the blade pocket from spreading once the insert is firmly in place.



Positive Stop

Desc.	Part No. 733101-	Insert Used	W		D Max		A		L	H		H 1		
			in	mm	in	mm	in	mm		in	mm	in	mm	
SGIH19-2	62950	SGT(N/R/L)-2	.087	2	1.57	39,9	.063	1,57	3.38	85,9	.618	15,7	0.75	19,1
SGIH26-2	62951	SGT(N/R/L)-2	.087	2	2.00	50,8	.063	1,57						
SGIH26-3	62952	SGT(N/R/L)-3	.122	3	3.00	76,2	.094	2,39						
SGIH26-4	62953	SGT(N/R/L)-4	.161	4	3.15	80,0	.125	3,18						
SGIH26-5	62954	SGT(N/R/L)-5	.201	5	3.15	80,0	.156	3,96						
SGIH26-6	62955	SGT(N/R/L)-6	.252	6	3.15	80,0	.203	5,16						
SGIH32-3	62956	SGT(N/R/L)-3	.122	3	3.94	100,0	.094	2,39	5.90	149,9	.984	25,0	1.25	31,8
SGIH32-4	62957	SGT(N/R/L)-4	.161	4	3.94	100,0	.125	3,18						
SGIH32-5	62958	SGT(N/R/L)-5	.201	5	4.71	119,6	.156	3,96						
SGIH32-6	62959	SGT(N/R/L)-6	.252	6	4.72	119,9	.203	5,16						
SGIH32-8	62960	SGT(N/R/L)-8	.315	8	5.51	140,0	.268	6,81						
SGIH32-9	62961	SGT(N/R/L)-9	.378	9	5.51	140,0	.312	7,92						

Cut-Off & Grooving Inserts



DASK25B - (C2-C3 Substrate with PVD TiN-TiAlN-TiN coating) First Choice for High Performance Machining of all carbon and alloy steels, non-ferrous metals, aerospace titanium alloys, inconel, austenitic stainless steels, cast iron, copper/brass, with medium to high sfm, in dry or wet conditions. PVD TiN-TiAlN-TiN multi layer with micro dense coating structure builds a strong and tough cutting edge, dissipates heat, reduces thermal cracking and improves wear resistance and insert life. Maximum working temperature is 1650°F. Best used on CNC Lathes.

DC656 - (C5-C6 Substrate with CVD TiN/TiC-TiN coating) First Choice for general turning applications on ferrous metals and 400 series stainless steels, at medium cutting sfm and wet conditions. Multi Layer CVD carbide grade. Thermal deformation and abrasion resistant substrate with cobalt enriched periphery.

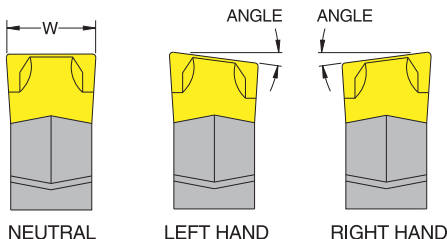
Desc.	DASK25 First Choice for High Performance Machining	DC656 First Choice for General Turning Applications	Insert Size	Lead Angle	Width + .004	
					in	mm
SGTN-2	82223	82222	2	0°	.087	2mm
SGTR-2-8	82251	82250	2	8°	.087	2mm
SGTL-2-8	82279	82278	2	8°	.087	2mm
SGTN-3	82227	82226	3	0°	.122	3mm
SGTR-3-8	82255	82254	3	8°	.122	3mm
SGTL-3-8	82283	82282	3	8°	.122	3mm
SGTN-4	82231	82230	4	0°	.161	4mm
SGTR-4-8	82259	82258	4	8°	.161	4mm
SGTL-4-8	82287	82286	4	8°	.161	4mm
SGTN-5	82235	82234	5	0°	.201	5mm
SGTR-5-8	82263	82262	5	8°	.201	5mm
SGTL-5-8	82291	82290	5	8°	.201	5mm
SGTN-6	82239	82238	6	0°	.252	6mm
SGTR-6-8	82267	82266	6	8°	.252	6mm
SGTL-6-8	82295	82294	6	8°	.252	6mm
SGTN-8	82243	82242	8	0°	.315	8mm
SGTR-8-8	82271	82270	8	8°	.315	8mm
SGTL-8-8	82299	82298	8	8°	.315	8mm
SGTN-9	82247	82246	9	0°	.378	9mm
SGTR-9-8	82275	82274	9	8°	.378	9mm
SGTL-9-8	82303	82302	9	8°	.378	9mm

Chipbreaker Geometry

- Reduced machining force
- Controlled, coiled chip flow
- Higher material removal rate

Application

- Quickly inserted into adjustable blades
- For cut-off and grooving
- Fair for interrupted cuts

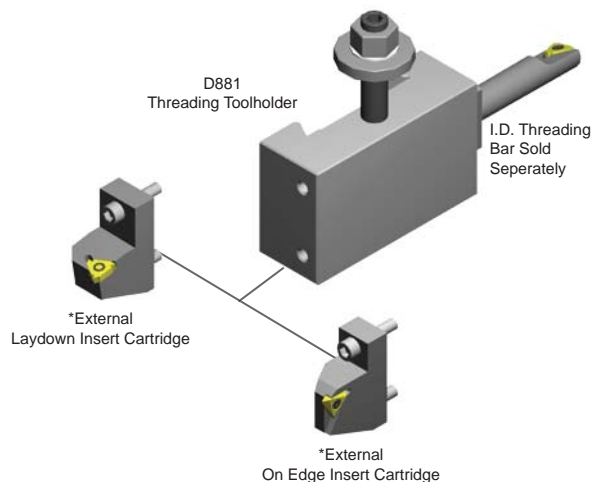
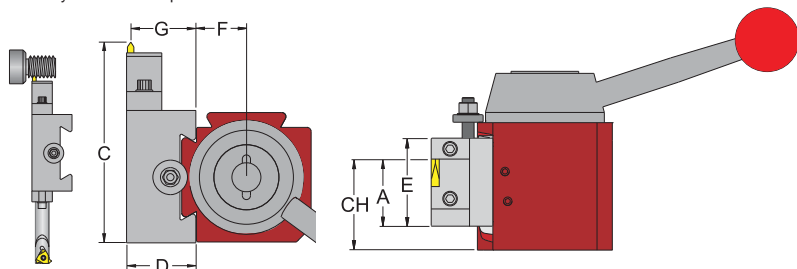




No. D881

O.D. and I.D. Threading Toolholder

This holder is capable of covering all threading requirements. It uses standard carbide inserts. The holder is supplied with a cartridge for external threading. Fits industry standard tool posts.



Description	Part No. 733101-	Size	A	C	D	E	F	G	*External On Edge Insert Cartridge				*External Laydown Insert Cartridge							
									Desc.	Part No. 733101-	TNMC Insert	Torx Screw	Torx Key	Desc.	Part No. 733101-	Insert	Torx Screw	Torx Key	Pitch TPI	mm
D25AXA-881-OE	01132	in	0.875	3.869	1.000	1.500	0.880	1.000	TIH253-32	03621	32	GTS-1	T-10	NL253-3R	03635	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
D25AXA-881-LD	01133	mm	22.23	98.27	25.40	38.10	22.35	25.40												
D30BXA-881-OE	01282	in	1.000	4.369	1.250	1.750	1.115	1.250	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
D30BXA-881-LD	01283	mm	25.40	110.97	31.75	44.45	28.32	31.75												
D35CXA-881-OE	01434	in	1.250	5.119	1.500	2.000	1.199	1.435	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
D35CXA-881-LD	01435	mm	31.75	130.02	38.10	50.80	30.45	36.45												
D40CA-881-OE	01582	in	1.500	5.619	1.500	2.250	1.530	1.435	TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5
D40CA-881-LD	01583	mm	38.10	142.72	38.10	57.15	38.86	36.45												

*Part Descriptions ending in -OE come with External On Edge Insert Cartridge. Part Descriptions ending in -LD come with External Laydown Insert Cartridge. Inserts not included. Internal threading bar is not supplied with the holder.

On Edge Threading Insert
TNMC - NV "V" Thread



Laydown Threading Insert

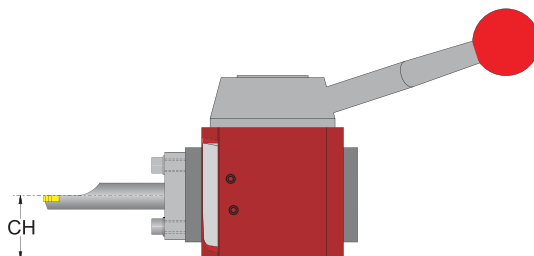
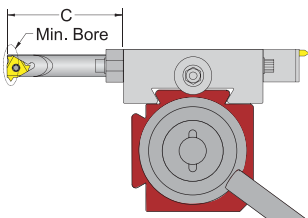
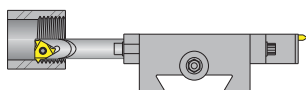


Desc.	Steel DVP656 Grade Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	I.C.		Thickness		Hole Dia.		Depth.	
	72003	72004	in	mm	in	mm	in	mm	in	mm
TNMC-32NV-	72003	72004	.375	9,5	.1250	3,18	.150	3,81	.150	3,81

Internal Threading Bar

For D881 Toolholder

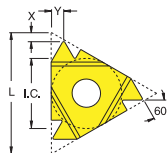
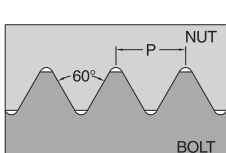
This cartridge is to be used on the #881 holder. It is used for internal threading with a laydown insert. It can be mounted on either end of the base holder.



Right hand shown, left hand opposite. When ordering threading bar, specify right or left. Inserts not included.

Series	Right Hand			Left Hand			Min. Bore		C		Pitch		Insert I.C.	Torx Screw	Torx Key
	Desc.	No. 733101-	Insert	Desc.	No. 733101-	Insert	in	mm	in	mm	TPI	mm			
25,30,35,40	NL50R	03661	111R-A60	NL50L	03669	111L-A60	0.500	12,7	2.375	60,3	16-48	0,5-1,5	.250	TS-25.45-6M1	T-8
25,30,35,40	NL75R	03663	161R-AG60	NL75L	03671	161L-AG60	0.750	19,1	2.875	73,0	8-48	0,5-3,0	.375	TS-16	T-10
35,40	NL125R	03665	221R-N60	NL125L	03673	221L-N60	1.250	31,8	3.375	3,375	5-7	3,5-5,0	.500	TS-22	T-20

Laydown Threading Insert 60° Partial Profile



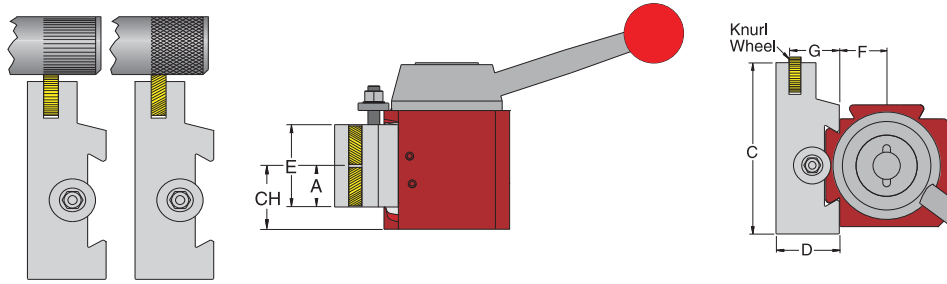
Internal Right Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	Internal Left Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	L mm	I.C. in	Pitch		x mm	y mm
	74056	74057		74060	74061			TPI	MM		
111R-A60	74056	74057	111L-A60	74060	74061	11	.250	16-48	0,5-1,5	0,8	0,9
161R-A60	74064	74065	161L-A60	74068	74069	16	.375	16-48	0,5-1,5	1,2	1,7
161R-G60	74072	74073	161L-G60	74076	74077	16	.375	8-14	1,75-3,0	1,7	2,5
161R-AG60	74080	74081	161L-AG60	74084	74085	16	.375	8-48	0,5-3,0	1,7	2,5
221R-N60	74088	74089	221L-N60	74092	74093	22	.500	5-7	3,5-5,0	1,7	2,5



No. D10

Knurling Toolholder & Wheels

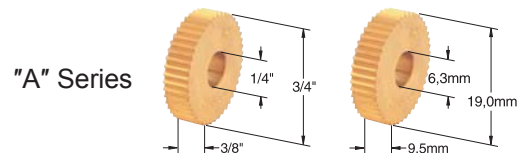
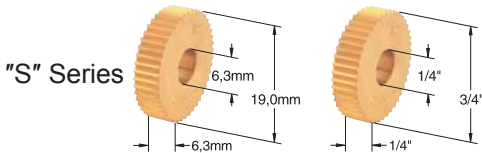
This holder is best used for knurling diamond or straight patterns. Fits industry standard tool posts.



Supplied with one set of 25TPI diagonal knurl wheels for a diamond pattern.

Description	Part No. 733101-	Size	A	C	D	E	F	G	Knurling Wheel			Knurling Pin	
									Series	in	mm	Desc.	733101-
D25AXA-10	01134	in	0.750	3.000	1.000	1.500	0.880	0.813	S	O.D. 3/4	19,1	A60464	28620
		mm	19.05	76.20	25.40	38.10	22.35	20.65		I.D. 1/4	6,35		
D30BXA-10	01284	in	0.875	3.750	1.250	1.750	1.115	1.063	S	T 1/4	6,35	A60464	28620
		mm	22.23	95.25	31.75	44.45	28.32	27.00					
D35CXA-10	01436	in	1.125	4.500	1.500	2.250	1.199	1.300	A	O.D. 3/4	19,1	A60466	28630
		mm	28.58	114.30	38.10	57.15	30.45	33.02		I.D. 1/4	9,52		
D40CA-10	01584	in	1.125	5.000	1.500	2.250	1.530	1.300	A	T 3/8	6,35	A60466	28630
		mm	28.58	127.00	38.10	57.15	38.86	33.02					

Knurling Wheels



TPI Tooth Per In.	Metric Pitch	Included Tooth Angle	"S" Series-Circular Pitch			"A" Series-Circular Pitch		
			Straight	Diagonal Right	Diagonal Left	Straight	Diagonal Right	Diagonal Left
			High Speed Beveled			High Speed Beveled		
16	1,6mm	90°	SS-16-HSB-CP UPC No. 26839	SDR-16-HSB-CP UPC No. 26961	SDL-16-HSB-CP UPC No. 27085	AS-16-HSB-CP UPC No. 23541	ADR-16-HSB-CP UPC No. 23673	ADL-16-HSB-CP UPC No. 23805
20	1,2mm	90°	SS-20-HSB-CP UPC No. 26841	SDR-20-HSB-CP UPC No. 26963	SDL-20-HSB-CP UPC No. 27087	AS-20-HSB-CP UPC No. 23543	ADR-20-HSB-CP UPC No. 23675	ADL-20-HSB-CP UPC No. 23807
25	1,0mm	90°	SS-25-HSB-CP UPC No. 26843	SDR-25-HSB-CP UPC No. 26965	SDL-25-HSB-CP UPC No. 27089	AS-25-HSB-CP UPC No. 23545	ADR-25-HSB-CP UPC No. 23677	ADL-25-HSB-CP UPC No. 23809
30	0,8mm	90°	SS-30-HSB-CP UPC No. 26845	SDR-30-HSB-CP UPC No. 26967	SDL-30-HSB-CP UPC No. 27091	AS-30-HSB-CP UPC No. 23547	ADR-30-HSB-CP UPC No. 23679	ADL-30-HSB-CP UPC No. 23811

Call us for more information or to request a knurling catalog.

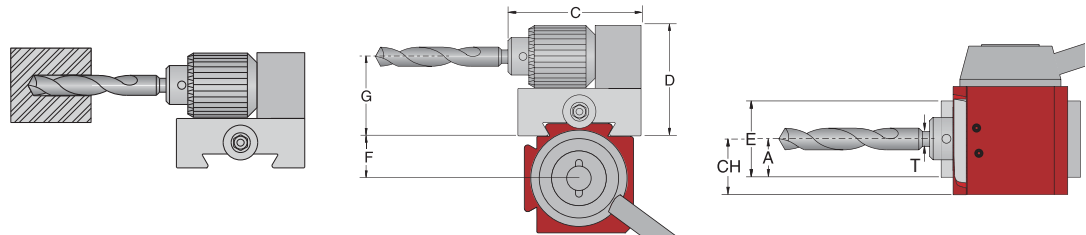
No. D35

Drill Chuck Toolholder

This holder is best used for holding drills, reamers, taps, etc., without tailstock mounting. It uses a drill chuck mounted directly to a quick change holder.

This holder is supplied with a drill-chuck.

Fits industry standard tool posts.

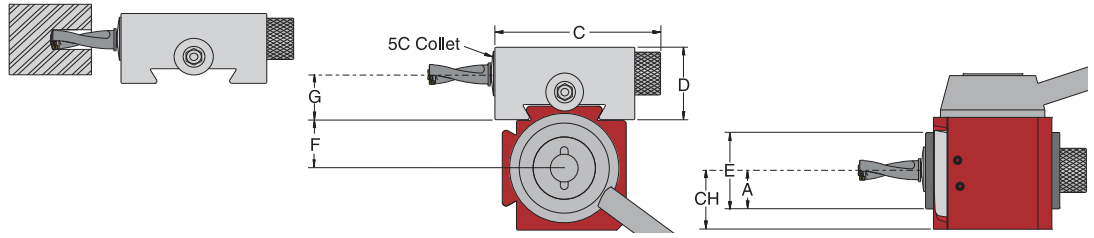


Description	Part No. 733101-	Size	A	T Capacity	C	D	E	F	G
D25AXA-35	01140	in	1.000	0 - 1/2	4.175	3.101	2.000	0.880	2.063
		mm	25.40	0 - 12	106.05	78.77	50.80	22.35	52.40
D30BXA-35	01290	in	1.000	0 - 1/2	4.175	3.101	2.000	1.115	2.063
		mm	25.40	0 - 12	106.05	78.77	50.80	28.32	52.40
D35CXA-35	01442	in	1.125	0 - 1/2	4.673	3.726	2.250	1.199	2.625
		mm	28.58	0 - 12	118.69	94.64	57.15	30.45	66.68
D40CA-35	01590	in	1.125	0 - 1/2	4.673	3.726	2.250	1.530	2.625
		mm	28.58	0 - 12	118.69	94.64	57.15	38.86	66.68



No. D36 5C Collet Toolholder

This holder's wide range of collet adaptability makes this tool ideal for holding drills, taps, chucks, & boring bars. It holds the tools with extreme rigidity without scarring them. Fits industry standard tool posts.



Description	Part No. 733101-	Size	A	C	D	E	F	G
D25AXA-36	01142	in	1.125	4.250	2.500	2.250	0.880	1.500
		mm	28.58	107.95	63.50	57.15	22.35	38.10
D30BXA-36	01292	in	1.125	4.250	2.500	2.250	1.115	1.500
		mm	28.58	107.95	63.50	57.15	28.32	38.10
D35CXA-36	01444	in	1.375	4.500	2.750	2.750	1.199	1.625
		mm	34.93	114.30	69.85	69.85	30.45	41.28
D40CA-36	01592	in	1.375	5.000	2.750	2.750	1.530	1.625
		mm	34.93	127.00	69.85	69.85	38.86	41.28

SUPER Quick Change Tool Post SETS

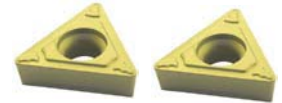
SUPER Quick Change First Time Buyer SETS Includes FREE TOOLING

Set Includes:

- (1) Tool Post
- (4) Holders
- (4) Toolholders **FREE**
- (5) Inserts **FREE**



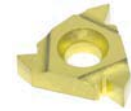
1ea. D-1 + Free Toolholder & 2 Inserts



2ea. TCMT Turning Insert



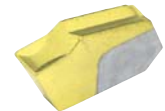
1ea. D-2 + Free Toolholder & 1 Insert



1ea. 11/16IR-A60 Laydown



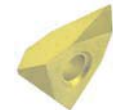
1ea. D-7-71C + Free Toolholder & 1 Insert



1ea. SGTN Cut-off Insert



1ea. D-881 + Free Toolholder & 1 Insert



1ea. TNMC OnEdge Insert

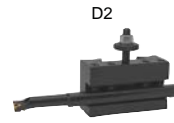
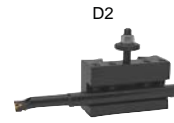
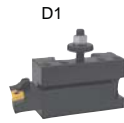
Part No. 733101-	01056	01058	01060	01062
Description	SDN25AXA-FTB	SDN30BXA-FTB	SDN35CXA-FTB	SDN40CA-FTB
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"
Set Includes				
(1) Tool Post	SDN25AXA	SDN30BXA	SDN35CXA	SDN40CA
(4) Holders	D25AXA-1 D25AXA-2 D25AXA-7-71C D25AXA-881	D30BXA-1 D30BXA-2 D30BXA-7-71C D30BXA-881	D35CXA-1 D35CXA-2 D35CXA-7-71C D35CXA-881	D40CA-1 D40CA-2 D40CA-7-71C D40CA-881
Free Tooling				
(4) Toolholders	STNCR08-2J STCMB06-2 SGIH19-2 NL50R	STNCR10-2A STCMB08-2 SGIH19-2 NL50R	STNCR12-3B STCMB10-2 SGIH26-3 NL75R	STNCR64-3D STCMB12-3 SGIH26-3 NL75R
(5) Inserts	TCMT-21.51-UM-DHCP25 TCMT-21.52-UM-DHCP25 SGTN-2-DC656 TNMC-32NV-DVP656 11IR-A60-DVP656	TCMT-21.51-UM-DHCP25 TCMT-21.52-UM-DHCP25 SGTN-2-DC656 TNMC-32NV-DVP656 11IR-A60-DVP656	TCMT-21.51-UM-DHCP25 TCMT-32.52-UM-DHCP25 SGTN-3-DC656 TNMC-32NV-DVP656 16IR-A60-DVP656	TCMT-32.51-UM-DHCP25 TCMT-32.52-UM-DHCP25 SGTN-3-DC656 TNMC-32NV-DVP656 16IR-A60-DVP656



SUPER Quick Change Tool Post SETS

SUPER Quick Change Turning Sets

- (1) Tool Post
- (4) Holders



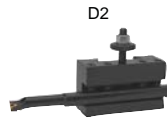
Tooling Not Included

Part No. 733101-	01014	01015	01016	01017	01018	01019
Desc.	SDN25AXA-TS	SDN30BXA-TS	SDN35CXAX-TS	SDN40CA-TS	SDN50DA-TS	SDN60EA-TS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
5 Piece Turning Set Includes						
(1) Tool Post	SDN25AXA	SDN30BXA	SDN35CXAX	SDN40CA	SDN50DA	SDN60EA
(4) Holders	(2) D25AXA-1 (2) D25AXA-2	(2) D30BXA-1 (2) D30BXA-2	(2) D35CXAX-1 (2) D35CXAX-2	(2) D40CA-1 (2) D40CA-2	(2) D50DA-1 (2) D50DA-2	(2) D60EA-1 (2) D60EA-2

SUPER Quick Change Standard Sets

- (1) Tool Post
- (4) Holders

NEW



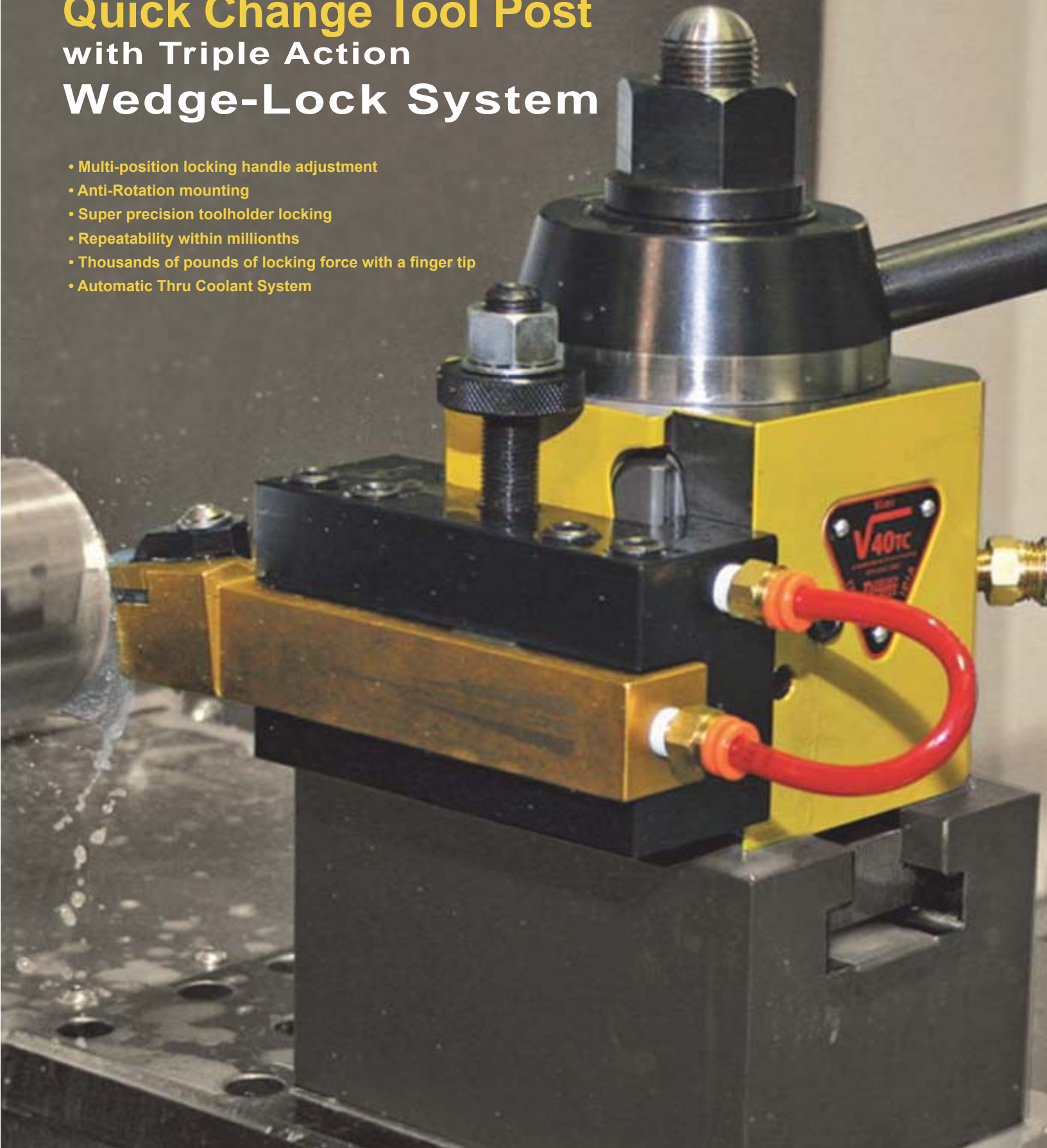
Tooling Not Included

Part No. 733101-	01020	01021	01022	01023	01024	01025
Desc.	SDN25AXA-INSS	SDN30BXA-INSS	SDN35CXAX-INSS	SDN40CA-INSS	SDN50DA-INSS	SDN60EA-INSS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
5 Piece Standard Set Includes						
(1) Tool Post	SDN25AXA	SDN30BXA	SDN35CXAX	SDN40CA	SDN50DA	SDN60EA
(4) Holders	(1) D25AXA-1 (1) D25AXA-2 (1) D25AXA-4-CNC (1) D25AXA-7-71C	(1) D30BXA-1 (1) D30BXA-2 (1) D30BXA-4-CNC (1) D30BXA-7-71C	(1) D35CXAX-1 (1) D35CXAX-2 (1) D35CXAX-4-CNC (1) D35CXAX-7-71C	(1) D40CA-1 (1) D40CA-2 (1) D40CA-4-CNC (1) D40CA-7-71C	(1) D50DA-1 (1) D50DA-2 (1) D50DA-4-CNC (1) D50DA-7-71C	(1) D60EA-1 (1) D60EA-2 (1) D60EA-4-CNC (1) D60EA-7-71C

Victory™

Automatic Thru Coolant Quick Change Tool Post with Triple Action Wedge-Lock System

- Multi-position locking handle adjustment
- Anti-Rotation mounting
- Super precision toolholder locking
- Repeatability within millionths
- Thousands of pounds of locking force with a finger tip
- Automatic Thru Coolant System



The Quest for a Perfect Masterpiece Ends Right Here!

The New Patented
**Victory™ Automatic Thru Coolant Tool Post
& Quick Change Toolholders are
Quick - Clean - Precise**

Engineered with the Most Advanced Technology for
**Unmatched Performance
& Unsurpassed Precision**

Shoots the coolant exactly where it is needed
No Splash - No Waste - No Adjustment!

Features:

Coolant Connection To Machine

The main coolant hose of the machine is attached directly to the Victory™ tool post's inlet valve. The coolant travels to both sides of the Victory™ tool post dovetail faces. An automatic shut-off valve on each dovetail face keeps the coolant pressurized inside the tool post body.

Closing the inlet valve manually blocks the coolant entry into the tool post body for applications where coolant should not be used.

Coolant Activation/Shut-Off

The coolant system will activate automatically every time a toolholder is placed and locked in the Victory™ tool post for any machining operation. The automatic shut-off valve opens to let the coolant flow thru the toolholder into the tool, and finally onto the cutting edge of the insert.

Best results are achieved when the Victory™ tool post is used with Victory™ Thru Coolant Toolholders that have a 1/8 NPT coolant port, allowing direct connection to a Jet-Stream™ (thru-coolant) square shank tool or boring bar.

The Victory™ tool post can also be used with any industry standard (non thru-coolant) quick change toolholders. For these applications, the Victory™ tool post comes standard with two coolant outlets, one on each side of the body, to allow a flexible coolant hose to be connected in order to deliver the coolant to the cutting edge of the insert.



Victory™ Automatic Thru-Coolant Tool Post



Victory™ Automatic Thru-Coolant Tool Post and Toolholder with Jet-Stream™ Square Shank Tool



Victory™ Automatic Thru-Coolant Tool Post and Toolholder with Jet-Stream™ Boring Bar



Victory™ Automatic Thru-Coolant Tool Post and Toolholder with Industry Standard Square Shank Tool



Victory™ Automatic Thru-Coolant Tool Post and Toolholder with Industry Standard Toolholder and Square Shank Tool



Victory™ Automatic Thru-Coolant Tool Post with Non-Coolant Application

On Target!

At The Cutting Edge

70 to 1400 psi (5 - 100 Bar)

**Dorian Jet-Stream™
Thru Coolant System Will:**

Improve Quality!

Improve Productivity!

Improve Insert Life!

Dorian Tool's Jet-Stream™ Thru Coolant Cutting Tools use a patented thru-coolant locking clamp which is precisely aimed to direct high pressure, high velocity coolant exactly onto the cutting edge of the carbide insert, from a short distance of ¼".

This controlled Jet-Stream coolant, directed onto the insert chip interface (right under the chip and over the insert cutting edge) will dissipate the generated heat very effectively as well as lubricate the cutting edge of the insert, causing the chips to hydroplane over the insert surface instead of adhering to it. As a result, the insert will operate at a constant low temperature, with a clean and undamaged cutting edge, changing the way metal is cut.






Higher speeds and feeds can be achieved, with a better surface finish, tolerance control and machining performance.

The insert life is extended up to 200%.

Use Jet-Stream™
Thru Coolant Turning,
Boring and Threading
Tools with
Victory™ Thru Coolant
Quick Change Tool Post for
Maximum Productivity!





Style	Features	Application
 <p>PG. 49</p>	<ul style="list-style-type: none"> • Automatic Thru Coolant System • Triple Action Locking System • Zero Backlash • Precise Repeatability within .0001" • 15° Locking Handle Position Adjustment • Super Heavy Duty Locking Gear and Wedge Style Sliding Gibs • Industry Standard Interchangeable Toolholders • Thru-Coolant Toolholders • Supplied With all Coolant Attachments and Valves 	<ul style="list-style-type: none"> • CNC Toolroom Lathes • Manual Toolroom Lathes • Engine Lathes • Heavy Duty Oil-Country Lathes • Super Precision High Speed Applications • Tight Tolerances and Excellent Finish Requiring Applications • Deep Drilling and Boring Applications • Heavy Material Removal Applications • Multi Turning, Drilling, Boring, Threading Applications
 <p>PG. 50</p>	<ul style="list-style-type: none"> • Quick Change Mounting • Double Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances 	<ul style="list-style-type: none"> • Holds Square Shank Tools • Turning and Facing Applications • Threading and Grooving Applications • Cut-Off Applications
 <p>PG. 50</p>	<ul style="list-style-type: none"> • Boring Bar "V" Seat • Quick Change Mounting • Double Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances 	<ul style="list-style-type: none"> • Holds Square Shank Tools • Holds Boring Bars and other Round Tools • Turning and Facing Applications • Light to Medium Boring Applications • Threading and Grooving Applications • Cut-Off Applications
 <p>PG. 50-51</p>	<ul style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • Quick-Lock System Aligns Boring Bar Centerheight and Rake Angle Automatically • Four Special Flat-Machined and Ground Locking Screws for High Rigidity Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting • Coolant System 	<ul style="list-style-type: none"> • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"
 <p>PG. 51-52</p>	<ul style="list-style-type: none"> • Precision Ground and Honed Bore • Qualified Bore for Precise Tool Alignment and Squareness • 360° Locking for High Rigidity and Extended Overhangs without Scarring the Boring Bar • Sizes Up to 3" Capacity • Quick Change Mounting • Coolant System • Constant Insert Cutting Edge Temperature Control 	<ul style="list-style-type: none"> • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001"

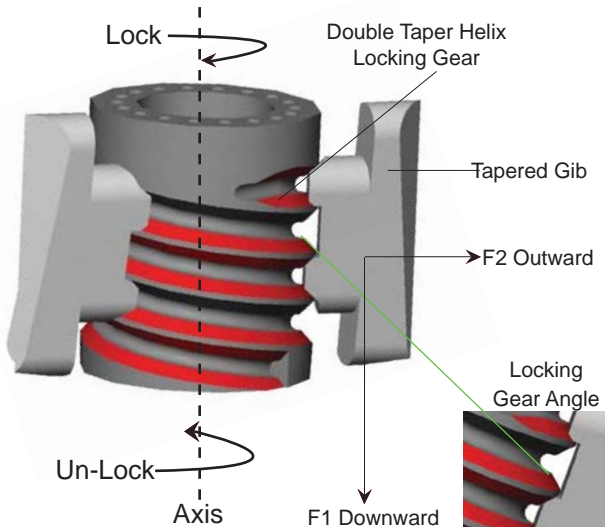


Style	Features	Application
<p>No. V5 Thru Coolant Morse Taper Holder</p>  <p>PG. 52</p>	<ul style="list-style-type: none"> • Precision Ground Morse Taper • Qualified for Precise Tool Alignment and Squareness • Designed for Deep Drilling • Heavy Duty Drilling • Quick Change Mounting • Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Deep Drilling Applications • Heavy Duty Drilling Applications • Reaming and Tapping Applications
<p>No. V-7-71C Thru Coolant Reversible Cut-Off Blade Holder</p>  <p>PG. 52</p>	<ul style="list-style-type: none"> • Precision Ground Blade Dovetail Seat • Qualified for Precise Tool Alignment and Squareness • Quick Change Mounting • Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Cut-Off Applications • Grooving Applications
<p>No. V881 Thru Coolant O.D. or I.D. Threading Holder</p>  <p>PG. 54</p>	<ul style="list-style-type: none"> • Quick Change Mounting • Double Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • OD and ID Threading
<p>No. V10 Thru Coolant Knurling Holder</p>  <p>PG. 55</p>	<ul style="list-style-type: none"> • Quick Change Mounting • Coolant System for High Performance Knurling • Constant Knurling Wheel Temperature Control • Increases Knurling Wheel Life • Better Knurl Quality • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • OD Straight Knurling • OD Diamond Knurling
<p>No. V35 Thru Coolant Dovetail Drill Chuck Holder</p>  <p>PG. 56</p>	<ul style="list-style-type: none"> • Supplied with a Rohm Chuck • Qualified for Precise Tool Alignment and Squareness • Designed for Versatility • Quick Change Mounting • Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Center Drilling • Precision Drilling • Precision Reaming • Tapping
<p>No. V36 Thru Coolant 5C Collet Holder</p>  <p>PG. 56</p>	<ul style="list-style-type: none"> • 5C Collet Holding System • Supplied with Collet Closer • Qualified for Precise Tool Alignment and Squareness • Designed for Versatility • Quick Change Mounting • Coolant System • Constant Insert Cutting Edge Temperature Control • Chip Flow Control • Increases Insert Life • Better Surface Finish • Tight Tolerances • Higher Speeds and Feeds • High Tensile Strength Chromium-Molybdenum Alloy Steel • Thru Hardened, Ion-Nitrided, and Black Oxide Coated • CNC Precision Ground and Qualified for Accuracy and Super Precise Tool Change Repeatability within .0001" 	<ul style="list-style-type: none"> • Miniature to Medium Size Tools • For Special Tool Size and Shapes • Accepts Square, Round and Hex Collets • Drilling Applications • Boring Applications • Reaming Applications • Tapping • From 1/16" to 1.0" Diameter Tools



The Triple Action Wedge-Locking System

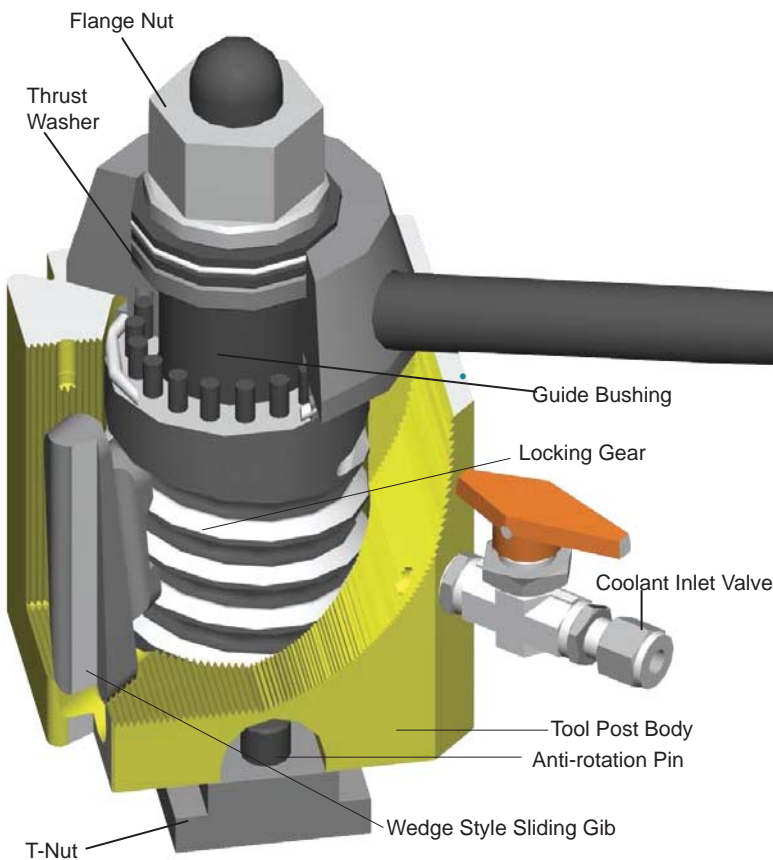
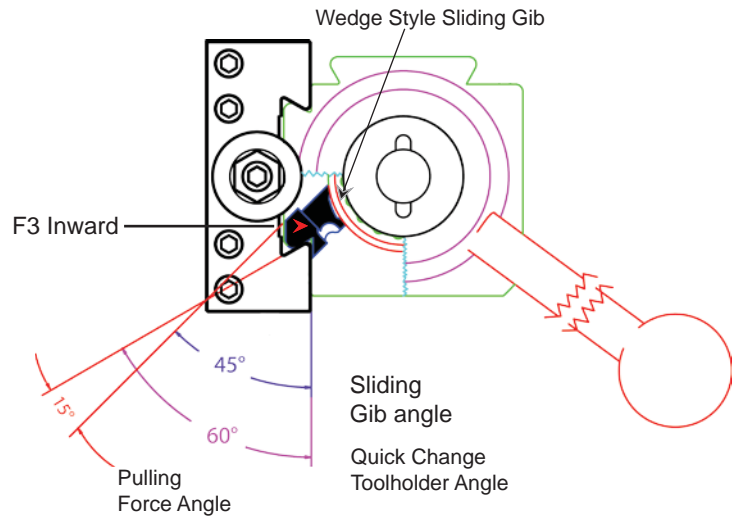
is a powerful combination of a downward, outward and inward force simultaneously locking the holder.



1. F1 Downward Force: (shown left) Rotating the locking gear moves the gib down, expanding the tool post dovetail to lock the toolholder.

2. F2 Outward Force: (shown left) When the gibs make full contact with the toolholder dovetail, the double-angle helix of the locking gear forces the gib outward, neutralizing any backlash to zero.

3. F3 Inward Force: (shown below) The differential between the sliding gib angle and the quick change holder angle pulls the toolholder towards the tool post dovetail surface, creating a one-piece locking effect.



Materials, Quality & Workmanship

The tool post body is made from chromium-molybdenum alloy steel, thru hardened, ion-nitrided and Nickel-plated for protection and durability in machining environments. Precisely machined and ground with the most advanced technology & precision.

The patented locking gear and gibs are made from chromium-molybdenum alloy steel. The core thru hardness is 40-44 Rc and the surface is Ion-Nitrided to a hardness 60-64Rc to ensure a long working life and rust resistance under harsh working conditions.

The locking handle will lock within 45° of travel and its position can be adjusted in 15° increments.

An anti-rotation system is built into the tool post with anti-rotation pins, which are engaged with a "T" Nut or compound to provide maximum rigidity and stability when performing drilling, boring and heavy roughing operations.





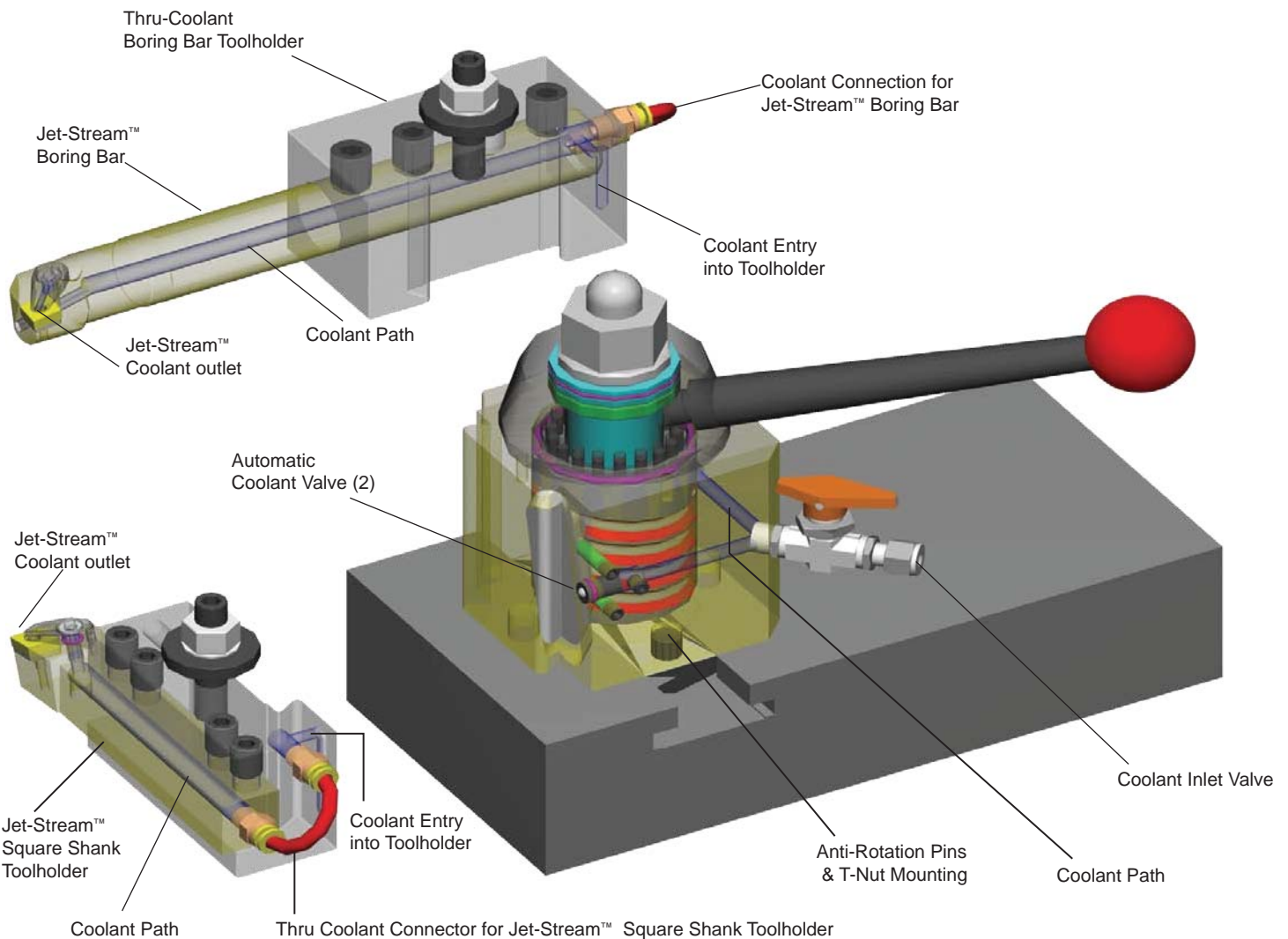
Thru-Coolant Toolholders Available

Features:

- No. 1Turning and Facing
- No. 2.....Turning, Facing and Boring
- No. 4, 4M, 41, 41M, 41S, 41SM.....Boring Bar
- No. 5.....Morse Taper
- No. 7-71C.....Cut-Off and Grooving
- No. 881.....Internal and External Threading
- No. 10.....Knurling
- No. 35.....Drill-Chuck
- No. 36.....5C Collet

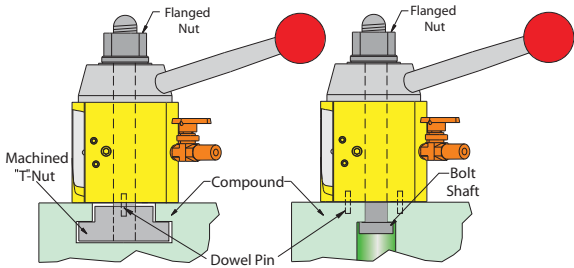
- Automatic thru-coolant system
- Lock the toolholder and coolant is on
- Release the toolholder and the coolant is off
- Thru coolant system on all toolholders

External Turning and Internal Boring with Automatic Thru Coolant



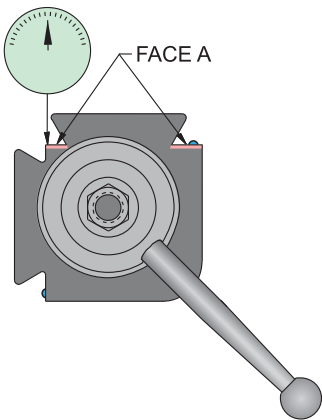


Tool Post Mounting



The tool post mounting is accomplished quickly and easily with either a "T" Nut that slides over the lathe compound or a Bolt Shaft. Tightening the Flange Nut will provide a rigid and reliable mounting of the tool post. The "T" Nut is provided blank or machined according to customer specification. Using the Bolt Shaft is the common mounting method on European lathes. Dowel pins are supplied standard to increase tool post mounting rigidity, if tool post shifting is a concern under heavy or interrupted cuts.

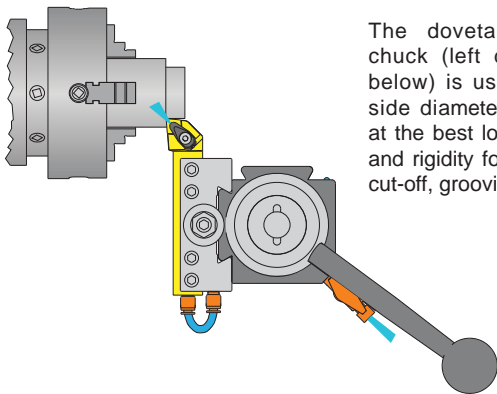
Indicating Position



The double dovetails are ground at 90° square ($\pm .0002$ "). At mounting, it is necessary that Face "A" is set parallel to the lathe axis with an indicator in order for drills to work properly. The holder is slid over the tool post dovetail and locked with the handle. The surfaces in contact must be kept clean and lubricated at all times to prevent misalignment of the tool and loss of the tool post repeatability and rigidity. Also, whenever the drilling operation produces vibration, the parallelism of the tool post must be checked and kept within $\pm .0005$ ".

O.D. Turning Operations with Thru Coolant

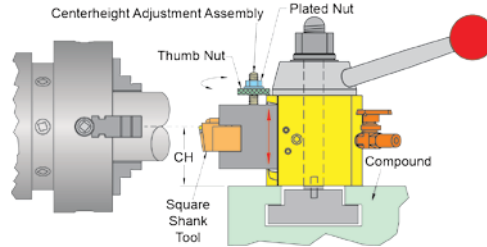
Turning, Threading, Cut-Off, Grooving, & Chamfering



The dovetail closest to the chuck (left dovetail as shown below) is used for turning outside diameters. It holds the tool at the best location for clearance and rigidity for turning, threading, cut-off, grooving, and chamfering.

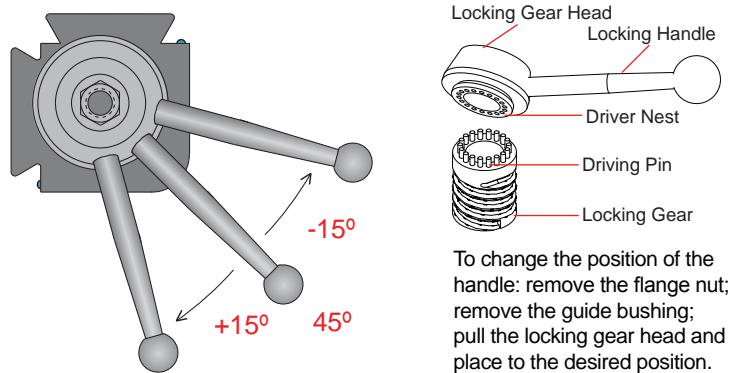
Using Jet-Stream™ Square Shank Tools made by Dorian Tool directs the coolant right onto the cutting edge and keeps the temperature constant to extend insert life and improve part quality. This also eliminates all the coolant splash to the surroundings associated with using conventional coolant hoses.

Center Height Adjustment



The Center Height Adjustment Assembly allows an easy and accurate adjustment of the cutting tool by rotating the Thumb Nut until the desired height is reached and locking the Plated Nut to preserve it. Maximum center height has been reached when the top of the holder is flush with the top of the tool post body. Minimum center height has been reached when the bottom of the holder is flush with the top of the compound.

Locking Handle Positioning

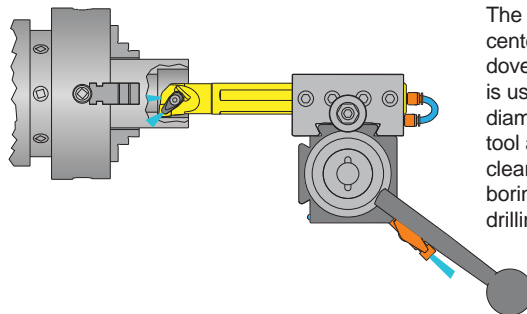


To change the position of the handle: remove the flange nut; remove the guide bushing; pull the locking gear head and place to the desired position.

The locking handle will be at a 45° position when the holder is locked; however it is adjustable in 15° increments according to the machine requirements, to clear the machine tail stock, the safety door, or the machine safety guard.

I.D. Turning Operations with Thru Coolant

Boring, Threading, Grooving, Drilling, & Center Drilling



The dovetail closest to the center of the chuck (top dovetail as shown below) is used for turning inside diameters. It holds the tool at the best location for clearance and rigidity when boring, threading, grooving, drilling, and center drilling.

Using Jet-Stream™ Boring Bars made by Dorian Tool directs the coolant right onto the cutting edge and keeps the temperature constant to extend insert life and improve part quality. This also eliminates all the coolant splash to the surroundings associated with using conventional coolant hoses.



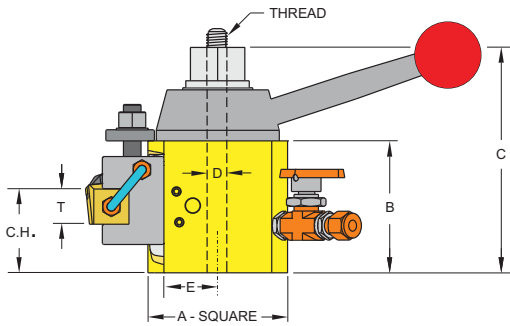


Identification System for Victory™ Automatic Thru Coolant Tool Post

V	25	tc
Victory™	Tool Post Size	Thru Coolant

Identification System for Victory™ Automatic Thru Coolant Toolholders

V	25	tc	4	CNC	COL
Victory™	Toolholder Size	Thru Coolant	Type of Toolholder	Boring Bar Locking System	Boring Bar Locking System



- Zero Backlash
- Triple Action Locking System
- Precise Repeatability within .0001
- 15° Locking Handle Position Adjustment
- Industry-Standard Interchangeable Holders
- Automatic Thru Coolant Activation and Shut-off

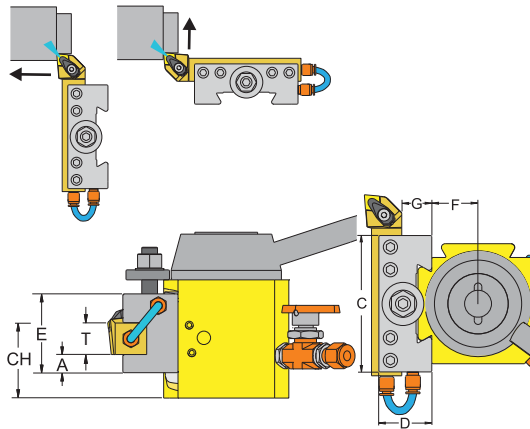
Description	V25tc 04200		V30tc 04201		V35tc 04202		V40tc 04203		V50tc 04204		V60tc 04205	
Part No. 733101-	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Size	≤12	≤300	13-15	330-380	14-17	350-430	16-20	400-500	17-32	430-810	≥25	≥635
Lathe Swing Over Bed												
A	2.500	63.5	3.000	76.2	3.500	88.90	4.000	101.60	5.000	127.00	6.000	152.4
B	2.500	63.5	2.750	69.9	3.250	82.60	3.750	95.25	4.625	117.48	5.000	127.0
C	4.240	107.7	4.710	119.6	5.650	143.51	6.335	160.91	7.435	188.85	8.060	204.72
D	0.500	12.7	0.625	16.0	0.750	19.0	0.875	22.23	1.000	25.40	1.125	28.6
E	0.880	22.35	1.115	28.32	1.199	30.45	1.530	38.86	1.900	48.26	2.207	56.06
T-Tool Capacity	1/2-3/4	12-20	5/8-1.0	16-25	3/4-1.0	20-25	1.0-1¼	25-32	1¼-1½	32-40	1 1/2	40
Optimum C.H.*	1.250	31.75	1.312	33.32	1.625	41.28	1.937	49.20	2.562	65.07	3.000	76.20
C.H. MIN.	0.875	22.2	1.062	27.0	1.250	31.8	1.562	39.7	2.000	50.80	2.500	63.5
C.H. MAX.	1.875	47.63	1.937	49.20	2.250	57.75	2.562	65.07	3.575	85.73	3.500	88.90
Thread	1/2-20	M12x1.75	5/8-18	M16x2.0	3/4-16	M18x2.5	7/8-14	M20x1.5	1.0-14	M24x3.0	1¼-12	M27x3.0

* Optimum center height is calculated with the smaller tool size of the tool capacity. If the higher size tool is to be used, add 1/8" to the optimum center height.



No. V1 Thru-Coolant

Turning & Facing Toolholder

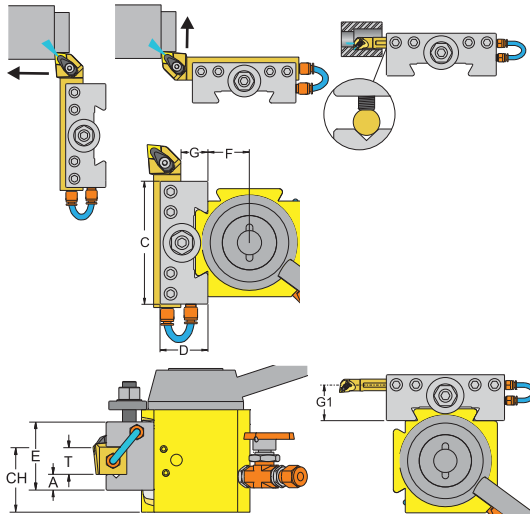


This toolholder is best used for holding square shank toolholders close to the tool post to maximize rigidity when turning, facing, and threading. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V25tc-1	04210	in	.375	0.750	2.750	1.240	1.740	.880	.790	1/8-27
		mm	9.53	20	69.85	31.50	44.20	22.35	20.07	
V30tc-1	04230	in	.437	1.000	3.250	1.490	2.240	1.115	.915	1/8-27
		mm	11.10	25	82.55	37.85	56.90	28.32	23.24	
V35tc-1	04250	in	.500	1.000	3.750	1.740	2.490	1.199	1.040	1/8-27
		mm	12.70	25	95.25	44.20	63.25	30.45	26.42	
V40tc-1	04270	in	.562	1.250	4.500	1.990	2.990	1.530	1.040	1/8-27
		mm	14.27	32	114.30	50.55	75.95	38.86	26.42	
V50tc-1	04290	in	.750	1.500	6.000	2.490	3.490	1.900	1.290	1/8-27
		mm	19.05	40	152.40	63.25	88.65	48.26	32.77	
V60tc-1	04305	in	1.000	1.500	7.000	2.990	3.990	2.207	1.540	1/8-27
		mm	25.40	40	177.80	75.95	101.35	56.06	39.12	

No. V2 Thru-Coolant

Turning, Facing & Boring Toolholder



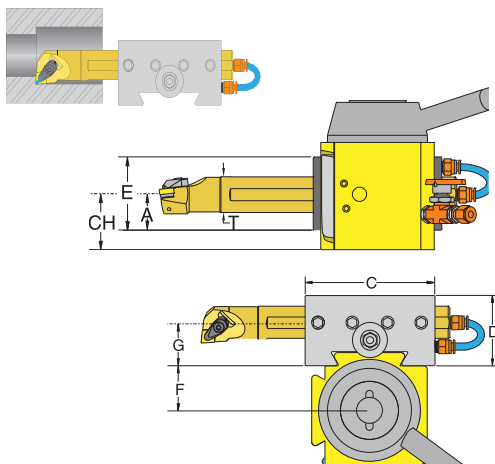
The "V" groove makes this holder more versatile so that it can hold either square shank toolholders or boring bars. Holds the tool close to the tool post to maximize rigidity when turning, facing, threading or boring. Fits industry standard toolposts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	G1	NPT
V25tc-2	04211	in	.375	0.750	2.750	1.240	1.740	.880	.790	1.015	1/8-27
		mm	9.53	20	69.85	31.50	44.20	22.35	20.07	25.78	
V30tc-2	04231	in	.437	1.000	3.250	1.490	2.240	1.115	.915	1.205	1/8-27
		mm	11.10	25	82.55	37.85	56.90	28.32	23.24	30.61	
V35tc-2	04251	in	.500	1.000	3.750	1.740	2.490	1.199	1.040	1.390	1/8-27
		mm	12.70	25	95.25	44.20	63.25	30.45	26.42	35.31	
V40tc-2	04271	in	.562	1.250	4.500	1.990	2.990	1.530	1.040	1.515	1/8-27
		mm	14.27	32	114.30	50.55	75.95	38.86	26.42	38.48	
V50tc-2	04291	in	.750	1.500	6.000	2.490	3.490	1.900	1.290	1.890	1/8-27
		mm	19.05	40	152.40	63.25	88.65	48.26	32.77	48.01	
V60tc-2	04306	in	1.000	1.500	7.000	2.990	3.990	2.207	1.540	2.265	1/8-27
		mm	25.40	40	177.80	75.95	101.35	56.06	39.12	57.30	

No. V4-CNC Thru-Coolant

Heavy Duty Boring Bar Toolholder

Inch/Metric



This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the centerheight and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

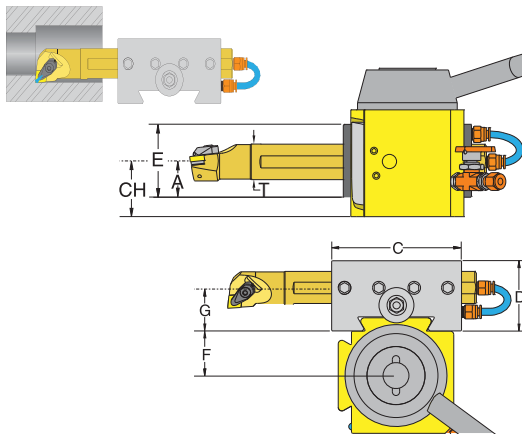
Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V25tc-4-CNC	04212	in	.745	.750	2.750	1.490	1.490	.880	.937	1/8-27
V25tc-4M-CNC	04213	mm	18.92	20	69.85	37.85	37.85	22.35	23.80	
V30tc-4-CNC	04232	in	.995	1.000	3.250	1.990	1.990	1.115	1.250	1/8-27
V30tc-4M-CNC	04233	mm	25.27	25	82.55	50.55	50.55	28.32	31.75	
V35tc-4-CNC	04252	in	1.120	1.000	3.750	2.240	2.240	1.199	1.375	1/8-27
V35tc-4M-CNC	04253	mm	28.45	25	95.25	56.90	56.90	30.45	34.93	
V40tc-4-CNC	04272	in	1.245	1.250	4.500	2.490	2.490	1.530	1.500	1/8-27
V40tc-4M-CNC	04273	mm	31.62	32	114.30	63.25	63.25	38.86	38.10	
V50tc-4-CNC	04292	in	1.495	1.500	5.500	2.990	2.990	1.900	2.000	1/8-27
V50tc-4M-CNC	04293	mm	37.97	40	139.70	75.95	75.95	48.26	50.80	
V60tc-4-CNC	04307	in	1.995	2.000	6.500	3.990	3.990	2.207	2.500	1/8-27
V60tc-4M-CNC	04308	mm	50.67	50	165.10	101.35	101.35	56.06	63.50	



No. V41-CNC Thru-Coolant

Extra Heavy Duty Boring Bar Toolholder

Inch/Metric



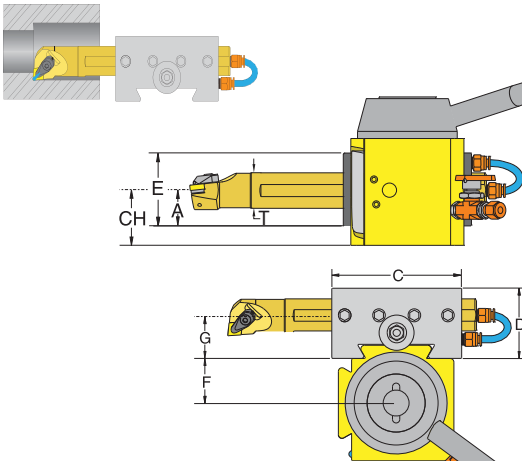
This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter-free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V25tc-41-CNC	04214	in	.870	1.000	2.750	1.740	1.740	.880	1.062	1/8-27
V25tc-41M-CNC	04215	mm	22.10	25	69.85	44.20	44.20	22.35	26.97	
V30tc-41-CNC	04234	in	1.120	1.250	3.250	2.240	2.240	1.115	1.375	1/8-27
V30tc-41M-CNC	04235	mm	28.45	32	82.55	56.90	56.90	28.32	34.93	
V35tc-41-CNC	04254	in	1.120	1.250	3.750	2.240	2.240	1.199	1.375	1/8-27
V35tc-41M-CNC	04255	mm	28.45	32	95.25	56.90	56.90	30.45	34.93	
V40tc-41-CNC	04274	in	1.245	1.500	4.500	2.490	2.490	1.530	1.500	1/8-27
V40tc-41M-CNC	04275	mm	31.62	40	114.30	63.25	63.25	38.86	38.10	
V50tc-41-CNC	04294	in	1.745	2.000	5.500	3.490	3.490	1.900	2.250	1/8-27
V50tc-41M-CNC	04295	mm	44.32	50	139.70	88.65	88.65	48.26	57.15	
V60tc-41-CNC	04309	in	1.995	2.500	6.500	3.990	3.990	2.207	2.375	1/8-27
V60tc-41M-CNC	04310	mm	50.67	60	165.10	101.35	101.35	56.06	60.33	

No. V41S-CNC Thru-Coolant

Super Oversized Boring Bar Toolholder

Inch/Metric



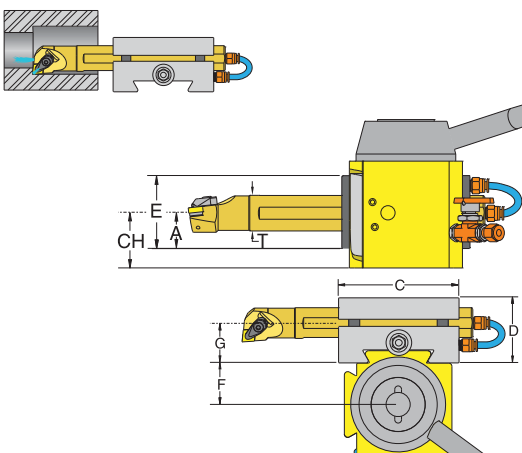
This holder is best used for holding boring bars. It has four flat-face locking-screws that automatically align the center height and rake angle of the boring bar while locking it rigidly for chatter free machining. Flat-face locking-screws do not scar the boring bar. This holder reduces setup time by eliminating the need to indicate across the boring bar flat. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	B	C	D	E	F	G	NPT
V35tc-41-150-CNC	04256	in	1.245	1.500	4.000	2.490	2.490	1.199	1.500	1/8-27
V35tc-41M-40-CNC	04257	mm	31.62	40	101.60	63.25	63.25	30.45	38.10	
V40tc-41-200-CNC	04276	in	1.495	2.000	4.500	2.990	2.990	1.530	1.750	1/8-27
V40tc-41M-50-CNC	04277	mm	37.97	50	114.30	75.95	75.95	38.86	44.45	
V50tc-41-250-CNC	04296	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250	1/8-27
V50tc-41M-60-CNC	04297	mm	50.67	60	165.10	101.35	101.35	48.26	57.15	
V60tc-41-300-CNC	04311	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625	1/8-27
V60tc-41M-80-CNC	04312	mm	57.02	80	177.80	114.05	114.05	56.06	66.68	

No. V41-COL Thru-Coolant

Extra Heavy Duty Boring Bar Toolholder

Inch/Metric



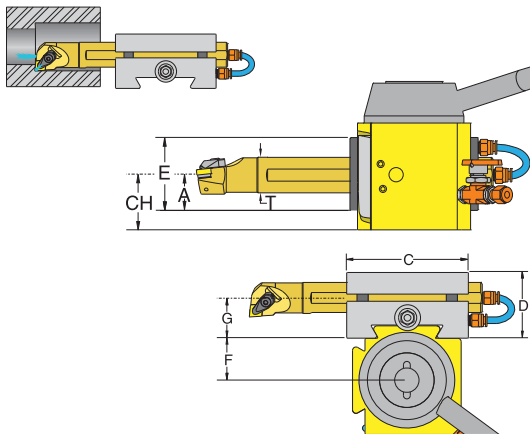
This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V35tc-41-COL	04264	in	1.120	1.250	3.750	2.240	2.240	1.999	1.375	1/8-27
V40tc-41-COL	04284	in	1.245	1.500	4.500	2.490	2.490	1.530	1.500	1/8-27
V50tc-41-COL	04300	in	1.745	2.000	5.500	3.490	3.490	1.900	2.250	1/8-27
V60tc-41-COL	04315	in	1.995	2.500	6.500	3.990	3.990	2.207	2.375	1/8-27



No. V41S-COL Thru-Coolant

Super Oversized Boring Bar Toolholder
Inch/Metric

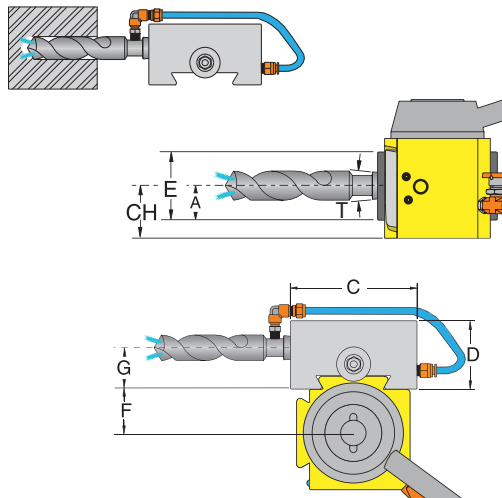


This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system providing the best rigidity in metal removing without scarring the boring bar. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V35tc-41-150-COL	04266	in	1.245	1.500	4.000	2.490	2.490	1.199	1.500	1/8-27
V40tc-41-200-COL	04286	in	1.495	2.000	4.500	2.990	2.990	1.530	1.750	1/8-27
V50tc-41-250-COL	04302	in	1.995	2.500	6.500	3.990	3.990	1.900	2.250	1/8-27
V60tc-41-300-COL	04317	in	2.245	3.000	7.000	4.490	4.490	2.207	2.625	1/8-27

No. V5 Thru-Coolant

Morse Taper Toolholder

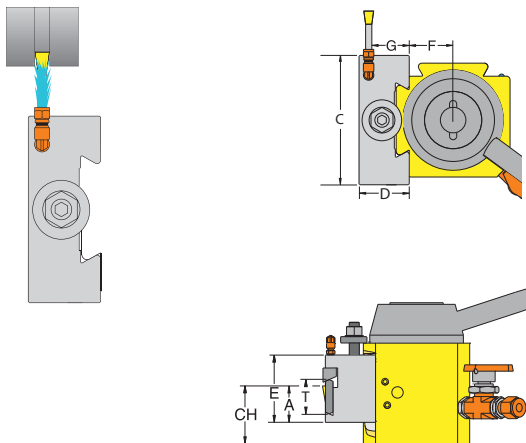


This holder is best used for holding morse taper tools. It can be used for drilling, boring, or reaming operations. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V25tc-5-2	04218	in	.745	MT2	2.750	1.490	1.490	.880	.937	1/8-27
		mm	18.92	MT2	69.85	37.85	37.85	22.35	23.80	
V30tc-5-3	04238	in	.995	MT3	3.500	1.990	1.990	1.115	1.250	1/8-27
		mm	25.27	MT3	88.90	50.55	50.55	28.32	31.75	
V35tc-5-4	04258	in	1.245	MT4	4.150	2.490	2.490	1.199	1.622	1/8-27
		mm	31.62	MT4	105.41	63.25	63.25	30.45	41.20	
V40tc-5-4	04278	in	1.245	MT4	4.500	2.490	2.490	1.530	1.622	1/8-27
		mm	31.62	MT4	114.30	63.25	63.25	38.86	41.20	
V50tc-5-5	04298	in	1.745	MT5	5.625	3.490	3.490	1.900	2.310	1/8-27
		mm	44.32	MT5	142.88	88.65	88.65	48.26	58.67	
V60tc-5-5	04313	in	1.745	MT5	6.000	3.490	3.490	2.207	2.310	1/8-27
		mm	44.32	MT5	152.40	88.65	88.65	56.06	58.67	

No. V7-71C Thru-Coolant

Extra Heavy Duty Cut-Off Blade Toolholder



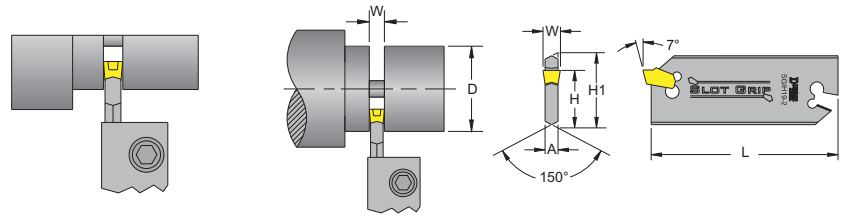
This holder is best used for holding cut-off blades. It has a taper locking system for maximum rigidity and performance in cut-off and face grooving operations. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Desc.	Part No. 733101-	Size	A	Blade Size "T"	C	D	E	F	G	NPT
V25tc-7-71C	04219	in	.925	SGIH-19-2	2.750	1.240	1.990	.880	1.075	1/8-27
		mm	23.50		69.85	31.50	50.55	22.35	27.31	
V30tc-7-71C	04239	in	.925	SGIH-26-2 to 26-6	3.250	1.240	1.990	1.115	1.075	1/8-27
		mm	23.50		82.55	31.50	50.55	28.32	27.31	
V35tc-7-71C	04259	in	1.230	SGIH-32-3 to 32-9	3.750	1.740	2.490	1.199	1.520	1/8-27
		mm	31.24		95.25	44.20	63.25	30.45	38.61	
V40tc-7-71C	04279	in	1.485	SGIH-32-3 to 32-9	4.500	1.740	2.990	1.530	1.520	1/8-27
		mm	37.69		114.30	44.20	75.95	38.86	38.61	
V50tc-7-71C	04299	in	1.440	SGIH-32-3 to 32-9	6.000	1.990	2.990	1.900	1.710	1/8-27
		mm	36.60		152.40	50.55	75.95	48.26	43.43	
V60tc-7-71C	04314	in	1.760	SGIH-32-3 to 32-9	7.000	2.240	3.490	2.207	1.960	1/8-27
		mm	44.65		177.80	56.90	88.65	56.06	49.78	



Slot Grip Cut-Off Blades

Designed for use with standard cut-off inserts and standard cut-off blade holders. The insert's cutting edge location repeats accurately and as a result prevents insert splitting under heavy feed and shock loads. The blade and insert geometry permits free chip flow, minimizing insert breakage due to chip build-up.



SLOT GRIP

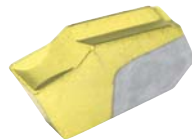
Improved design featuring a "Positive Stop". Inserts are securely held in Slot Grip Positive Stop Blades by a tapered locking system featuring a "Positive Stop" that prevents insert drift and the blade pocket from spreading once the insert is firmly in place.



Positive Stop

Desc.	Part No. 733101-	Insert Used	W		D Max		A		L		H		H 1	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
SGIH19-2	62950	SGT(N/R/L)-2	.087	2	1.57	39,9	.063	1,57	3.38	85,9	.618	15,7	0.75	19,1
SGIH26-2	62951	SGT(N/R/L)-2	.087	2	2.00	50,8	.063	1,57	4.33	110,0	.842	21,4	1.02	25,9
SGIH26-3	62952	SGT(N/R/L)-3	.122	3	3.00	76,2	.094	2,39						
SGIH26-4	62953	SGT(N/R/L)-4	.161	4	3.15	80,0	.125	3,18						
SGIH26-5	62954	SGT(N/R/L)-5	.201	5	3.15	80,0	.156	3,96						
SGIH26-6	62955	SGT(N/R/L)-6	.252	6	3.15	80,0	.203	5,16						
SGIH32-3	62956	SGT(N/R/L)-3	.122	3	3.94	100,0	.094	2,39	5.90	149,9	.984	25,0	1.25	31,8
SGIH32-4	62957	SGT(N/R/L)-4	.161	4	3.94	100,0	.125	3,18						
SGIH32-5	62958	SGT(N/R/L)-5	.201	5	4.71	119,6	.156	3,96						
SGIH32-6	62959	SGT(N/R/L)-6	.252	6	4.72	119,9	.203	5,16						
SGIH32-8	62960	SGT(N/R/L)-8	.315	8	5.51	140,0	.268	6,81						
SGIH32-9	62961	SGT(N/R/L)-9	.378	9	5.51	140,0	.312	7,92						

Cut-Off & Grooving Inserts



DASK25B - (C2-C3 Substrate with PVD TiN-TiAlN-TiN coating) First Choice for High Performance Machining of all carbon and alloy steels, non-ferrous metals, aerospace titanium alloys, inconel, austenitic stainless steels, cast iron, copper/brass, with medium to high sfm, in dry or wet conditions. PVD TiN-TiAlN-TiN multi layer with micro dense coating structure builds a strong and tough cutting edge, dissipates heat, reduces thermal cracking and improves wear resistance and insert life. Maximum working temperature is 1650°F. Best used on CNC Lathes. Insert Color: Yellow-Gold

DC656 - (C5-C6 Substrate with CVD TiN/TiC-TiN coating) First Choice for general turning applications on ferrous metals and 400 series stainless steels, at medium cutting sfm and wet conditions. Multi Layer CVD carbide grade. Thermal deformation and abrasion resistant substrate with cobalt enriched periphery.

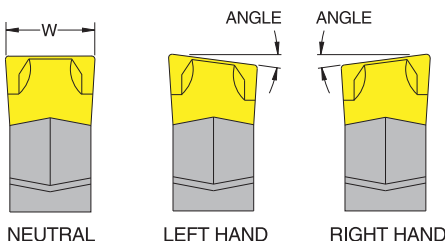
Desc.	DASK25 First Choice for High Performance Machining	DC656 First Choice for General Turning Applications	Insert Size	Lead Angle	Wjdt + .004	
					in	mm
SGTN-2	82223	82222	2	0°	.087	2mm
SGTR-2-8	82251	82250	2	8°	.087	2mm
SGTL-2-8	82279	82278	2	8°	.087	2mm
SGTN-3	82227	82226	3	0°	.122	3mm
SGTR-3-8	82255	82254	3	8°	.122	3mm
SGTL-3-8	82283	82282	3	8°	.122	3mm
SGTN-4	82231	82230	4	0°	.161	4mm
SGTR-4-8	82259	82258	4	8°	.161	4mm
SGTL-4-8	82287	82286	4	8°	.161	4mm
SGTN-5	82235	82234	5	0°	.201	5mm
SGTR-5-8	82263	82262	5	8°	.201	5mm
SGTL-5-8	82291	82290	5	8°	.201	5mm
SGTN-6	82239	82238	6	0°	.252	6mm
SGTR-6-8	82267	82266	6	8°	.252	6mm
SGTL-6-8	82295	82294	6	8°	.252	6mm
SGTN-8	82243	82242	8	0°	.315	8mm
SGTR-8-8	82271	82270	8	8°	.315	8mm
SGTL-8-8	82299	82298	8	8°	.315	8mm
SGTN-9	82247	82246	9	0°	.378	9mm
SGTR-9-8	82275	82274	9	8°	.378	9mm
SGTL-9-8	82303	82302	9	8°	.378	9mm

Chipbreaker Geometry

- Reduced machining force
- Controlled, coiled chip flow
- Higher material removal rate

Application

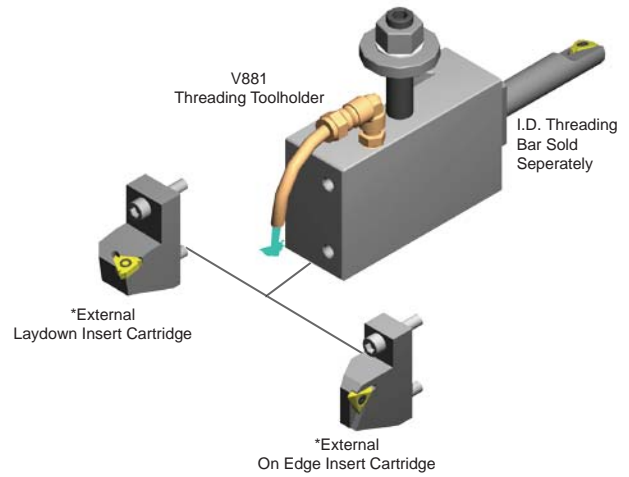
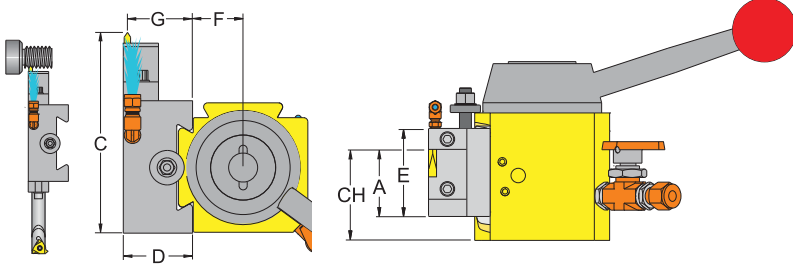
- Quickly inserted into adjustable blades
- For cut-off and grooving
- Fair for interrupted cuts





No. V881 Thru-Coolant

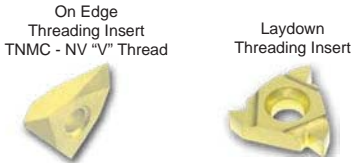
O.D. and I.D. Threading Toolholder



This holder is capable of covering all threading requirements. It uses standard carbide inserts. The holder is supplied with a cartridge for external threading. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

Description	Part No. 733101-	Size	A	C	D	E	F	G	NPT	*External On Edge Insert Cartridge				*External Laydown Insert Cartridge								
										Desc.	Part No. 733101-	TNMC Insert	Torx Screw	Torx Key	Desc.	Part No. 733101-	Insert	Torx Screw	Torx Key	Pitch		
																	TPI	mm				
V25tc-881-OE	04220	in .875	4.135	1.240	1.990	.880	1.175		1/8-27	TIH253-32	03621	32	GTS-1	T-10	NL253-3R	03635	16ER-AG60	TS-16	T-10	8-48	0,5-3,5	
V25tc-881-LD	04228	mm 22.23	104.88	31.50	50.55	22.35	29.85															
V30tc-881-OE	04240	in 1.000	4.510	1.240	1.990	1.115	1.175		1/8-27													
V30tc-881-LD	04248	mm 25.40	114.55	31.50	50.55	28.32	29.85			TIH354-32	03623	32	GTS-1	T-10	NL354-3R	03637	16ER-AG60	TS-16	T-10	8-48	0,5-3,5	
V35tc-881-OE	04260	in 1.250	5.365	1.490	2.490	1.199	1.427		1/8-27													
V35tc-881-LD	04268	mm 31.75	136.27	37.85	63.25	30.45	36.25															
V40tc-881-OE	04280	in 1.500	5.760	1.490	2.490	1.530	1.427		1/8-27													
V40tc-881-LD	04288	mm 38.10	146.30	37.85	63.25	38.86	36.25															

*Part Descriptions ending in -OE come with External On Edge Insert Cartridge. Part Descriptions ending in -LD come with External Laydown Insert Cartridge. Inserts not included. Internal threading bar is not supplied with the holder.

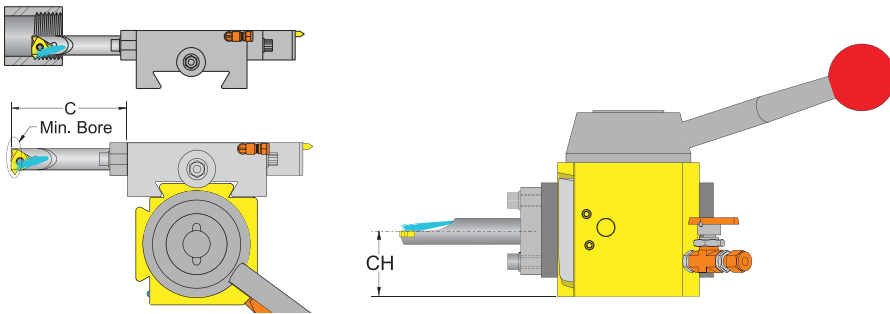


Desc.	Steel DVP656 Grade Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	I.C.		Thickness		Hole Dia.		Depth.	
			in	mm	in	mm	in	mm	in	
TNMC-32NV-	72003	72004	.375	9,5	.1250	3,18	.150	3,81	.150	3,81

Thru-Coolant Internal Threading Bar

For V881 Thru-Coolant Toolholder

This cartridge is to be used on the #881 holder. It is used for internal threading with a laydown insert. It can be mounted on either end of the base holder. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

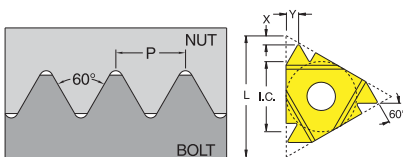


Right hand shown, left hand opposite. When ordering threading bar, specify right or left. Inserts not included.

Series	Right Hand			Left Hand			Min. Bore		C		Pitch		Insert I.C.	Torx Screw	Torx Key
	Desc.	No. 733101-	Insert	Desc.	No. 733101-	Insert	in	mm	in	mm	TPI	mm			
25,30,35,40	NL50R	03661	111R-A60	NL50L	03669	111L-A60	0.500	12,7	2.375	60,3	16-48	0,5-1,5	.250	TS-25.45-6M1	T-8
25,30,35,40	NL75R	03663	161R-AG60	NL75L	03671	161L-AG60	0.750	19,1	2.875	73,0	8-48	0,5-3,0	.375	TS-16	T-10
35,40	NL125R	03665	221R-N60	NL125L	03673	221L-N60	1.250	31,8	3.375	3,375	5-7	3,5-5,0	.500	TS-22	T-20

Laydown Threading Insert

60° Partial Profile

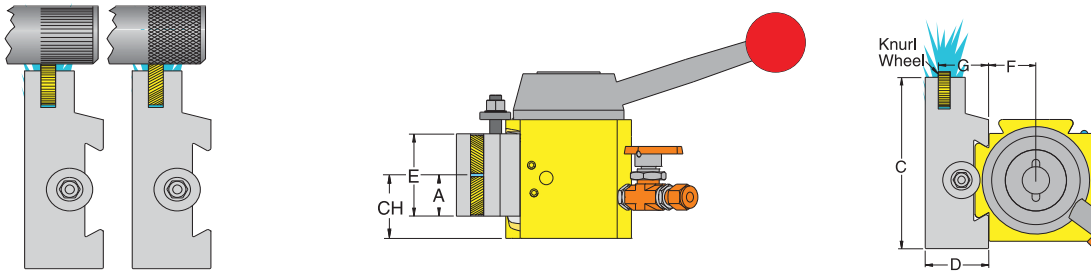


Internal Right Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	Internal Left Hand	Steel DVP656 Part No. 733101-	Stainless Steel, Cast Iron & Aluminum DVK10 Grade Part No. 733101-	L mm	I.C. in	Pitch		x mm	y mm
				TPI	MM						
111R-A60	74056	74057	111L-A60	74060	74061	11	.250	16-48	0,5-1,5	0,8	0,9
161R-A60	74064	74065	161L-A60	74068	74069	16	.375	16-48	0,5-1,5		
161R-G60	74072	74073	161L-G60	74076	74077	16	.375	8-14	1,75-3,0	1,2	1,7
161R-AG60	74080	74081	161L-AG60	74084	74085	16	.375	8-48	0,5-3,0		
221R-N60	74088	74089	221L-N60	74092	74093	22	.500	5-7	3,5-5,0	1,7	2,5



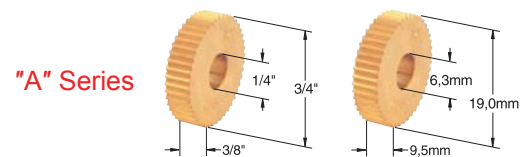
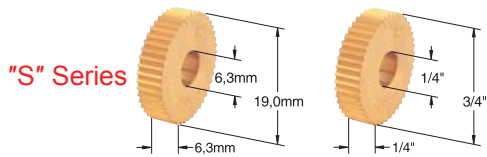
No. V10 Thru-Coolant
Knurling Toolholder & Wheels

This holder is best used for knurling diamond or straight patterns.
Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.



Supplied with one set of 25TPI diagonal knurl wheels for a diamond pattern.

Desc.	Part No. 733101-	Size	A	C	D	E	F	G	Knurling Wheel			Knurling Pin	
									Series	in	mm	Desc.	733101-
V25tc-10	04221	in	.745	3.125	.990	1.490	.880	.810	S	O.D. ¾	19,1	A60464	28620
		mm	18.92	79.38	25.15	37.85	22.35	20.57		I.D. ¼	6,35		
V30tc-10	04241	in	.870	4.000	1.240	1.740	1.115	1.060	S	T ¼	6,35	A60466	28630
		mm	22.09	101.60	31.50	44.20	28.32	26.92		O.D. ¾	19,1		
V35tc-10	04261	in	1.120	4.520	1.490	2.240	1.199	1.285	A	I.D. ¼	9,52	A60466	28630
		mm	28.45	114.81	37.85	56.90	30.45	32.64		T ¾	6,35		
V40tc-10	04281	in	1.120	5.120	1.490	2.240	1.530	1.285	A			A60466	28630
		mm	28.45	130.05	37.85	56.90	38.86	32.64					



TPI Tooth Per In.	Metric Pitch	Included Tooth Angle	"S" Series-Circular Pitch			"A" Series-Circular Pitch		
			Straight	Diagonal Right	Diagonal Left	Straight	Diagonal Right	Diagonal Left
			High Speed Beveled			High Speed Beveled		
16	1,6mm	90°	SS-16-HSB-CP UPC No. 26839	SDR-16-HSB-CP UPC No. 26961	SDL-16-HSB-CP UPC No. 27085	AS-16-HSB-CP UPC No. 23541	ADR-16-HSB-CP UPC No. 23673	ADL-16-HSB-CP UPC No. 23805
20	1,2mm	90°	SS-20-HSB-CP UPC No. 26841	SDR-20-HSB-CP UPC No. 26963	SDL-20-HSB-CP UPC No. 27087	AS-20-HSB-CP UPC No. 23543	ADR-20-HSB-CP UPC No. 23675	ADL-20-HSB-CP UPC No. 23807
25	1,0mm	90°	SS-25-HSB-CP UPC No. 26843	SDR-25-HSB-CP UPC No. 26965	SDL-25-HSB-CP UPC No. 27089	AS-25-HSB-CP UPC No. 23545	ADR-25-HSB-CP UPC No. 23677	ADL-25-HSB-CP UPC No. 23809
30	0,8mm	90°	SS-30-HSB-CP UPC No. 26845	SDR-30-HSB-CP UPC No. 26967	SDL-30-HSB-CP UPC No. 27091	AS-30-HSB-CP UPC No. 23547	ADR-30-HSB-CP UPC No. 23679	ADL-30-HSB-CP UPC No. 23811

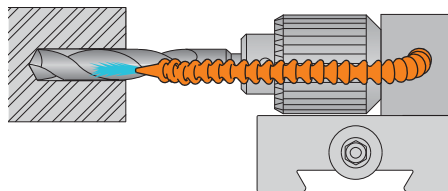
Call us for more information or to request a knurling catalog.

Solutions to Common Knurling Problems

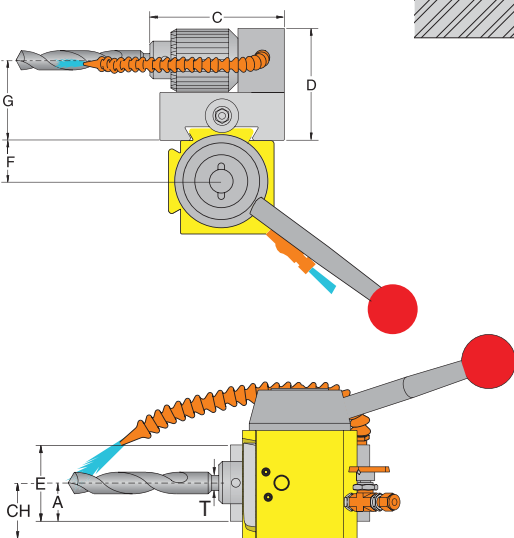
Knurling Problem	Cause	Solution
Double Tracking	1. Circumference around blank is not an approximate multiple of the pitch of the knurl. 2. Shallow depth.	1. Force knurl in harder on the first revolution. 2. Change blank diameter ± .005". 3. Try slightly different pitch knurl. 4. Grind or stone approximately .003" off diameter of knurl tool. 5. Order special knurl.
Flaking	1. Rolling on stock with scale. 2. Over-rolling stock.	1. Turn off scale. 2. Reduce roll up part in 10-20 revolutions without over-rolling.
Slivered Part, Knurl Destruction	1. Knurl wheels too deep in the part. 2. Over-rolling stock.	1. Reset the depth of the knurl wheel shallower. 2. Reduce roll up part in 10-20 revolutions without over-rolling.
Knurl Wheel Poor Tool Life	1. Over-rolling, scale. 2. Knurling stainless (302, 303, 304, 316, & 174PH). 3. Rolling semi-hardened steels. 4. Stock run out excessive. 5. Knurls improperly hardened or of poor quality. 6. Poor lubrication.	1. Right number of revolutions, clean scale. 2. Slow speeds and feeds. 3. Use Cobalt Titanium Nitrate knurl wheels. 4. Machine parts concentric. 5. Change knurl wheels. 6. Increase lubrication.



No. V35 Thru-Coolant Drill Chuck Toolholder

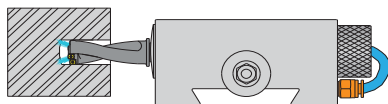


This holder is best used for holding drills, reamers, taps, etc., without tailstock mounting. It uses a drill chuck mounted directly to a quick change holder. This holder is supplied with a drill-chuck. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.

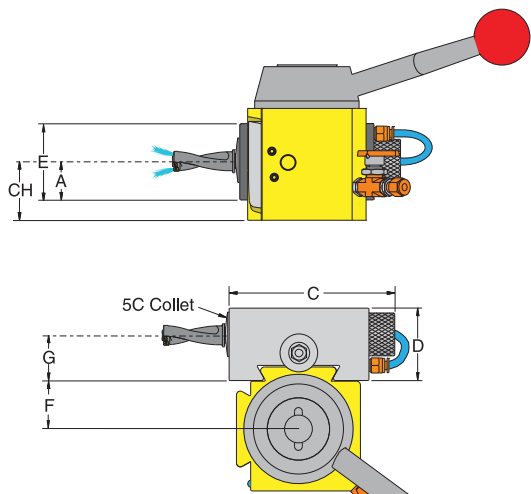


Desc.	Part No. 733101-	Size	A	T	C	D	E	F	G	NPT
V25tc-35	04222	in	.995	0-1/2	4.175	3.105	1.990	.880	2.050	1/8-27
		mm	25.27	0-12	106.05	78.87	50.55	22.35	52.07	
V30tc-35	04242	in	.995	0-1/2	4.175	3.105	1.990	1.115	2.050	1/8-27
		mm	25.27	0-12	106.05	87.87	50.55	28.32	52.07	
V35tc-35	04262	in	1.120	0-1/2	4.670	3.740	2.240	1.199	2.625	1/8-27
		mm	28.45	0-12	118.62	95.00	56.90	30.45	66.68	
V40tc-35	04282	in	1.120	0-1/2	4.670	3.740	2.240	1.530	2.625	1/8-27
		mm	28.45	0-12	118.62	95.00	56.90	38.86	66.68	

No. V36 Thru-Coolant 5C Collet Toolholder



This holder's wide range of collet adaptability makes this tool ideal for holding drills, taps, chucks, & boring bars. It holds the tools with extreme rigidity without scarring them. Fits industry standard tool posts. Supplied standard with Victory™ Thru-Coolant System.



Desc.	Part No. 733101-	Size	A	C	D	E	F	G	NPT
V25tc-36	04223	in	.995	4.250	2.240	1.990	.880	1.275	1/8-27
		mm	25.27	107.95	56.90	50.55	22.35	32.39	
V30tc-36	04243	in	1.120	4.500	2.240	2.240	1.115	1.375	1/8-27
		mm	28.45	114.30	56.90	56.90	28.32	34.93	
V35tc-36	04263	in	1.245	5.000	2.490	2.490	1.199	1.375	1/8-27
		mm	31.62	127.00	63.25	63.25	30.45	34.93	
V40tc-36	04283	in	1.245	5.500	2.490	2.490	1.530	1.375	1/8-27
		mm	31.62	139.70	63.25	63.25	38.86	34.93	



Victory™ Thru Coolant Turning Sets

- (1) Tool Post
- (4) Holders

Tooling Not Included



Part No. 733101-	04184	04185	04186	04187	04188	04189
Desc.	V25tc-TS	V30tc-TS	V35tc-TS	V40tc-TS	V50tc-TS	V60tc-TS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
5 Piece Turning Set Includes						
(1) Tool Post	V25tc	V30tc	V35tc	V40tc	V50tc	V60tc
(4) Holders	(2) V25tc-1 (2) V25tc-2	(2) V30tc-1 (2) V30tc-2	(2) V35tc-1 (2) V35tc-2	(2) V40tc-1 (2) V40tc-2	(2) V50tc-1 (2) V50tc-2	(2) V60tc-1 (2) V60tc-2

Victory™ Thru Coolant Standard Sets

- (1) Tool Post
- (4) Holders

NEW

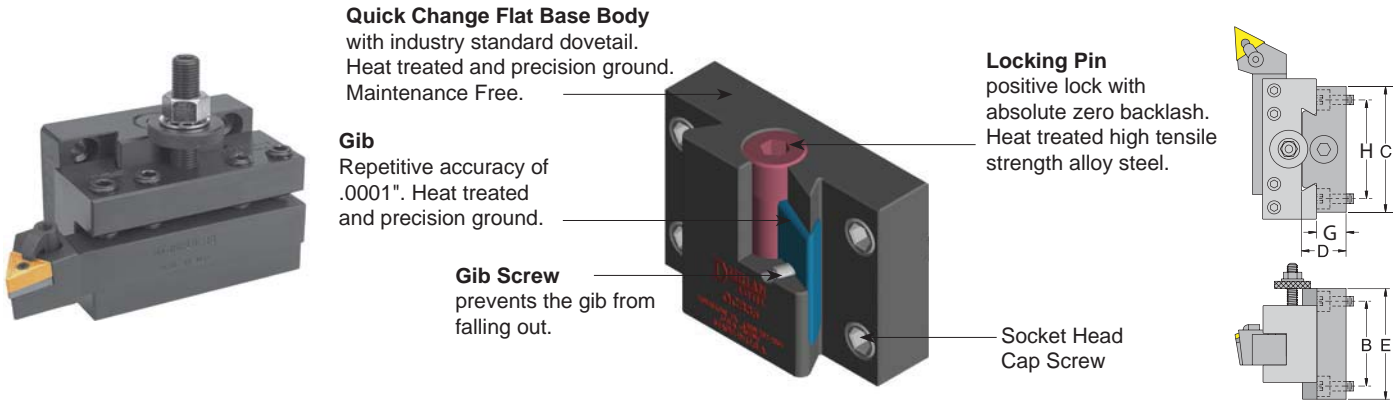
Tooling Not Included



Part No. 733101-	04174	04175	04176	04177	04178	04179
Desc.	V25tc-INSS	V30tc-INSS	V35tc-INSS	V40tc-INSS	V50tc-INSS	V60tc-INSS
Lathe Swing	Up to 12"	13" to 15"	14" to 17"	16" to 20"	17" to 32"	≥ 25"
5 Piece Standard Set Includes						
(1) Tool Post	V25tc	V30tc	V35tc	V40tc	V50tc	V60tc
(4) Holders	(1) V25tc-1 (1) V25tc-2 (1) V25tc-4-CNC (1) V25tc-7-71C	(1) V30tc-1 (1) V30tc-2 (1) V30tc-4-CNC (1) V30tc-7-71C	(1) V35tc-1 (1) V35tc-2 (1) V35tc-4-CNC (1) V35tc-7-71C	(1) V40tc-1 (1) V40tc-2 (1) V40tc-4-CNC (1) V40tc-7-71C	(1) V50tc-1 (1) V50tc-2 (1) V50tc-4-CNC (1) V50tc-7-71C	(1) V60tc-1 (1) V60tc-2 (1) V60tc-4-CNC (1) V60tc-7-71C

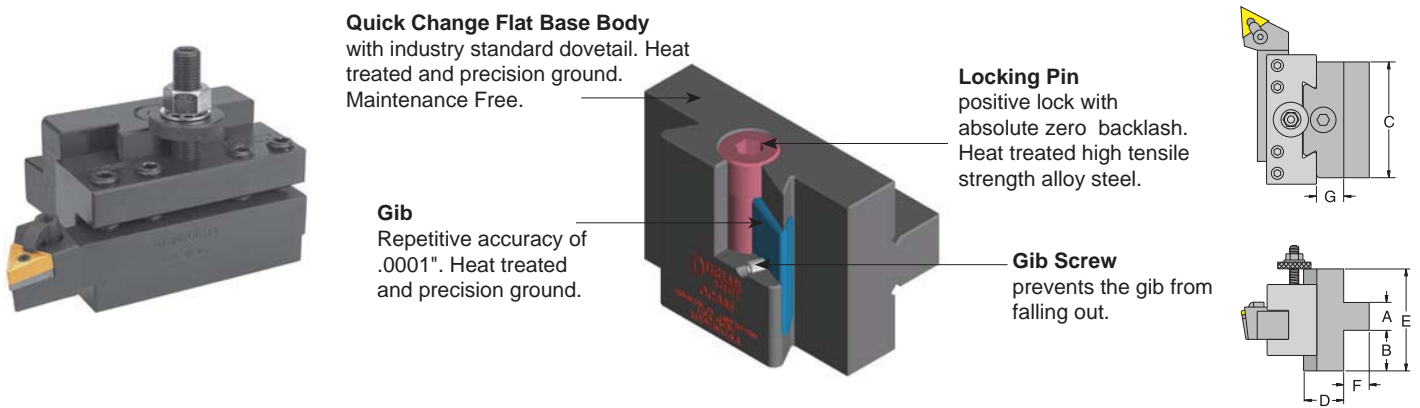


Dorian Quick Change FLAT Base

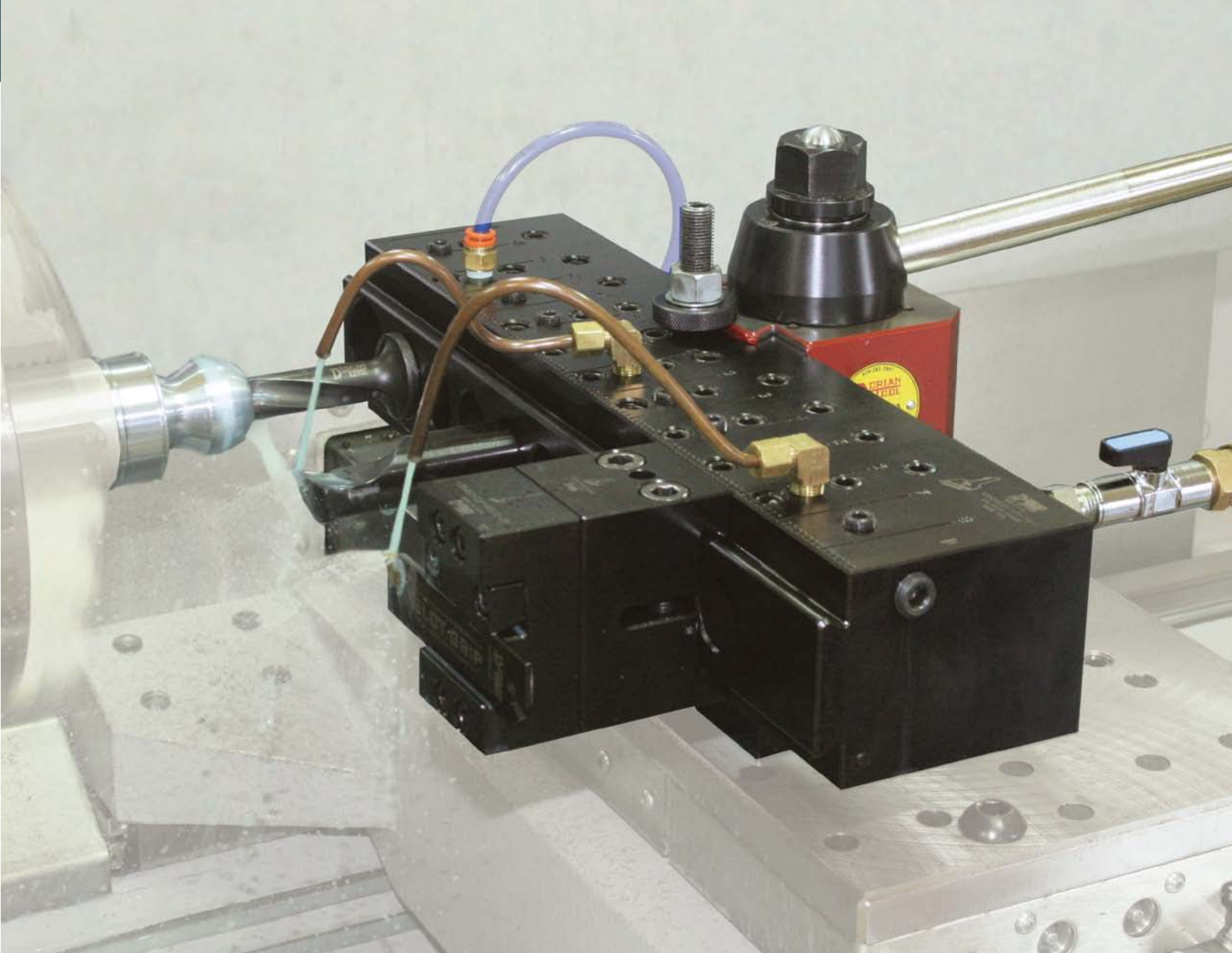


Description	Part No. 733101-	Quick Change Holder Series	C		D		E		G		H		I		Cap Screw	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	inch	mm
DQCFB-20N	03120	MD20	2.062	52.4	0.970	24.6	1.750	44.5	0.685	17.4	1.625	41.3	0.876	22.3	3/16	5mm
DQCFB-25N	03122	D25AXA	2.500	63.5	0.980	24.9	2.000	50.8	0.620	15.7	1.875	47.6	1.250	31.8	3/16	5mm
DQCFB-30N	03124	D30BXA	3.000	76.2	1.105	28.1	2.250	57.2	0.735	18.7	2.250	57.2	1.750	44.5	1/4	6mm
DQCFB-35N	03126	D35CXA	3.500	88.9	1.330	33.8	2.500	63.5	0.800	20.3	2.750	69.9	1.875	47.6	5/16	8mm
DQCFB-40N	03128	D40CA	4.000	101.6	1.480	37.6	3.000	76.2	1.025	26.0	3.250	82.6	2.375	60.3	5/16	8mm
DQCFB-50N	03130	D50DA	5.000	127.0	2.043	51.9	4.000	101.6	1.475	37.5	4.000	101.6	3.250	82.6	5/16	8mm
DQCFB-60N	03132	D60EA	6.000	152.4	2.150	54.6	4.250	108.0	1.375	34.9	4.750	120.7	3.000	76.2	1/2	12mm

Dorian Quick Change Base

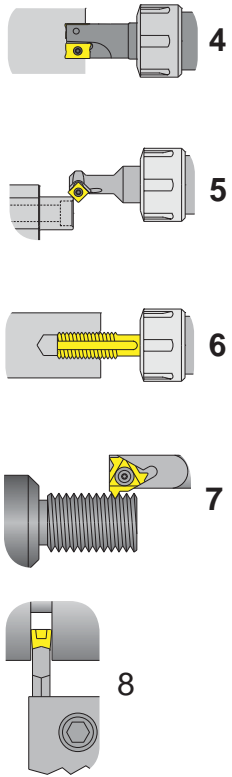


Description	Part No. 733101-	Square Index Turret	Quick Change Holder Series	A		B		C		D		E		F		G	
				inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
DQCB-20N	03100	DSIT-25	MD20	0.375	9.5	0.688	17.5	2.062	52.4	0.970	24.6	1.750	44.5	0.375	9.5	0.685	17.4
DQCB-25N	03102	DSIT-35	D25AXA	0.500	12.7	0.750	19.1	2.500	63.5	0.980	24.9	2.000	50.8	0.500	12.7	0.620	15.7
DQCB-30N	03104	DSIT-35B	D30BXA	0.625	15.9	0.808	20.5	3.000	76.2	1.105	28.1	2.250	57.2	0.625	15.9	0.735	18.7
DQCB-35N	03106	DSIT-45 HDSIT-45	D35CXA	0.750	19.1	0.870	22.1	3.500	88.9	1.330	33.8	2.500	63.5	0.750	19.1	0.800	20.3
DQCB-40N	03108	DSIT-60 HDSIT-65	D40CA	1.000	25.4	1.000	25.4	4.000	101.6	1.480	37.6	3.000	76.2	1.000	25.4	1.025	26.0
DQCB-50N	03110	DSIT-70	D50DA	1.250	31.8	1.375	34.9	5.000	127.0	2.043	51.9	4.000	101.6	1.250	31.8	1.475	37.5
DQCB-60N	03112	HDSIT-80	D60EA	1.500	38.1	1.375	34.9	6.000	152.4	2.150	54.6	4.250	108.0	1.500	38.1	1.375	34.9

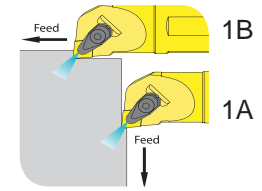
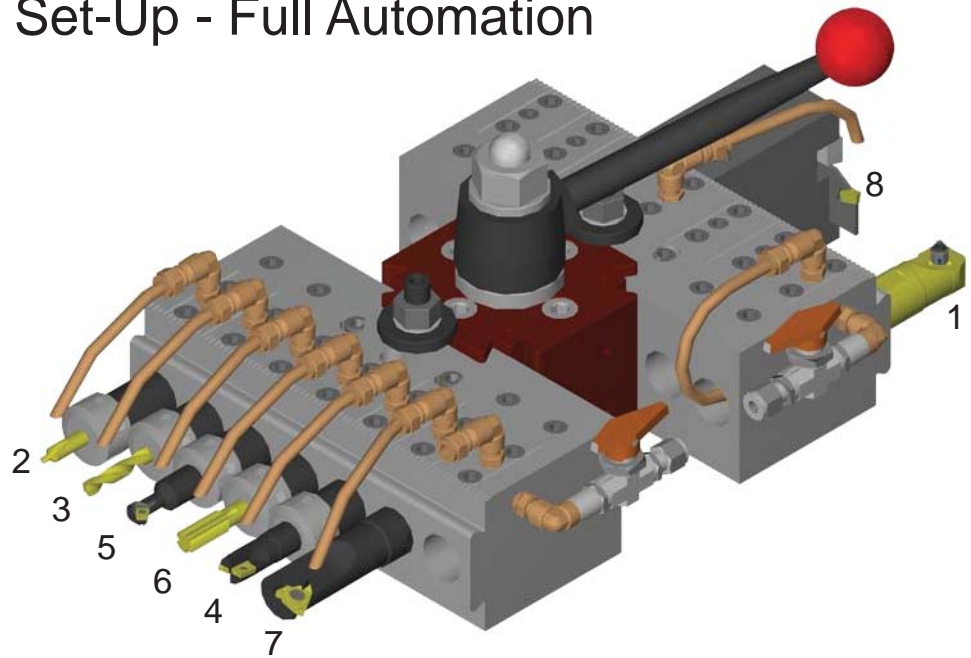


The Victory™
CNC Quick Change Gang Tool is Designed to
FULLY AUTOMATE
any Programmable Toolroom Lathe
In the Simplest and most Economical way Possible!

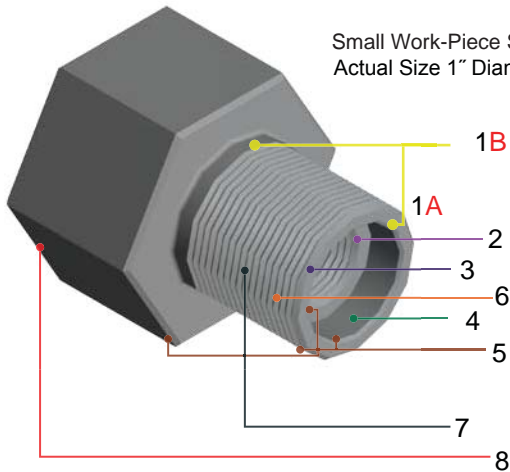
Available in Two Sizes and can be used with
any Dorian Tool Post in this catalog.



One Set-Up - Full Automation



Small Work-Piece Shown Left
Actual Size 1" Diameter



9 Operations

- 1. **A** Facing
- B** O.D. Turning
- 2. Center Drilling
- 3. Drilling
- 4. Counter Boring
- 5. Chamfering
- 6. Tapping
- 7. O.D. Threading
- 8. Cut-Off

The Victory™ CNC Quick Change Gang Tool *Is Designed to fully automate* any

Programmable Toolroom lathe in the simplest and most economical way possible. The CNC Quick Change Gang Tool holds up to 10 tools in a linear setup and eliminates the need of stopping the machine to change tools after each operation. No wiring or interfacing is required.

The Victory™ CNC Quick Change Gang Tool slides over the tool post dovetail just like a regular quick change toolholder and is locked in place with the pull of the tool post locking handle: simple and quick. The anti-rotation pins prevent any radial movement of the tool post under heavy drilling, boring, turning and threading operations.

The Center height of all tools can be simultaneously adjusted using the height adjustment screw, minimizing the setup/changeover time.

After removing the Victory™ CNC Quick Change Gang Tool by simply sliding it off the toolpost dovetail, the toolpost will remain on the machine immediately ready for shaft work or toolroom work.

Victory™ CNC Quick Change Gang Tool is supplied with a standard thru coolant system and all coolant fittings.

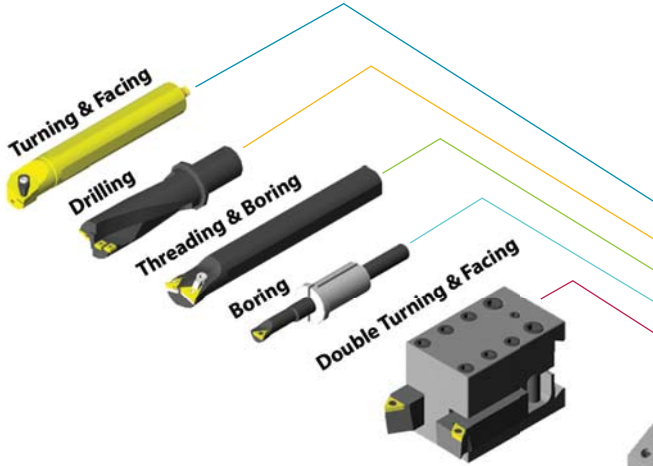
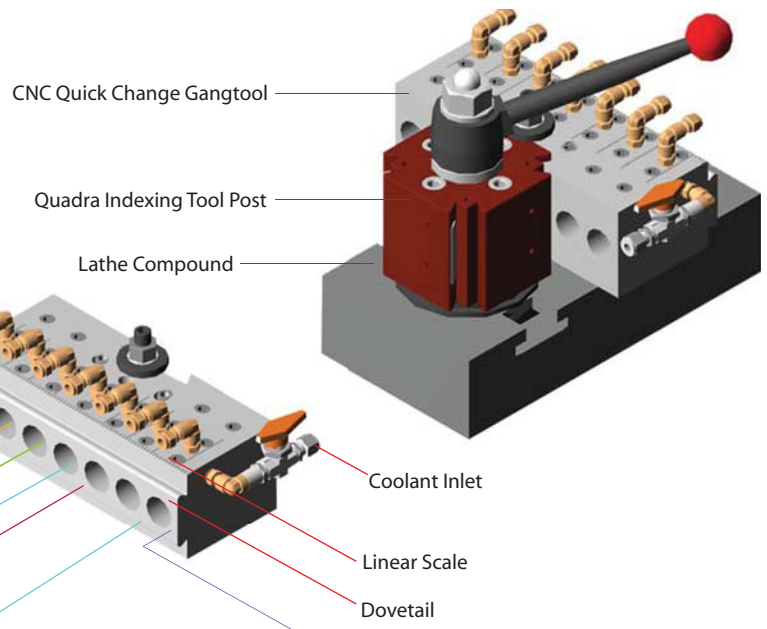
The Victory™ CNC Quick Change Gang Tool is "The Right Tool" for a new CNC Programmable Tool Room Lathe and "The Right Tool" to up-grade thousands of CNC Programmable Tool Room Lathes that are in the field unable to perform to their full CNC capacity.



Installation & Setup

Applies to Standard and Compact Gangtool

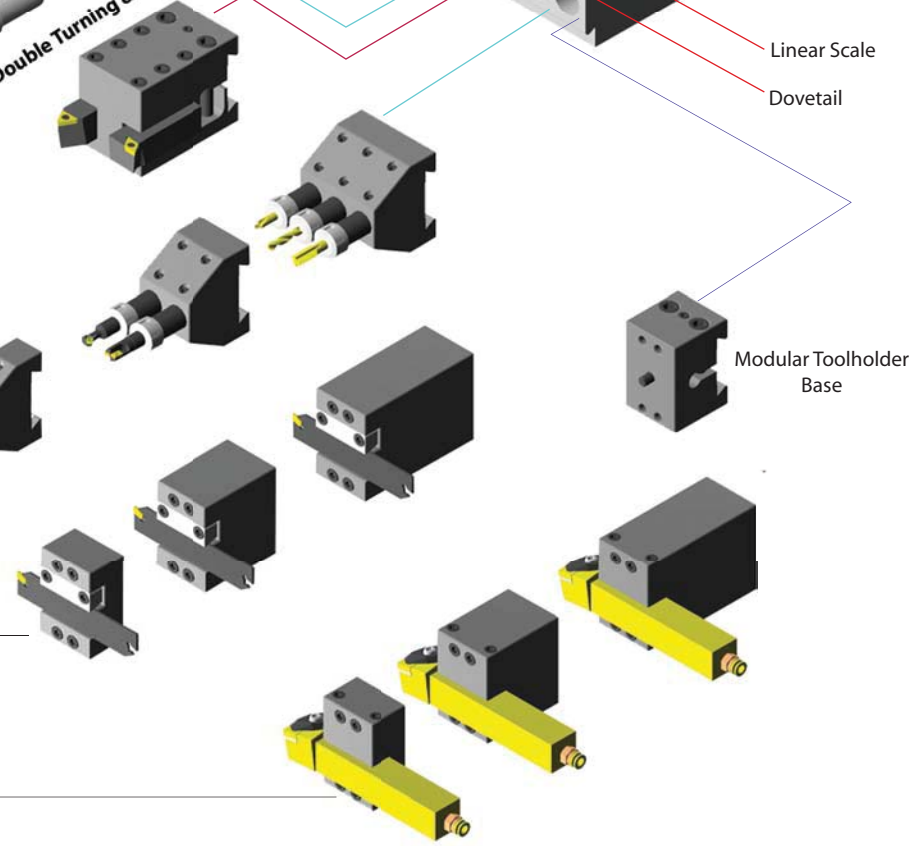
Applies to each style of Dorian toolpost



Slim toolholder
designed for compact tool positioning for smaller parts.

Cut-off system
provides three different reach (short, medium, long) toolholders for different length of parts.

Turning & Facing System
provides three different reach (short, medium, long) toolholders for different length of parts.



How to Install

The CNC Quick Change Gang Tool

1. Align the toolpost on the cross-slide square with the x-axis.
2. Slide the CNC Quick Change Gang Tool onto the tool post dovetail. Lock in place with the tool post locking handle.
3. Connect the machine's coolant line to the coolant inlet valve of the CNC Quick Change Gang Tool.
4. Once the tools are installed, adjust the center height of the CNC Quick Change Gang Tool using the center height adjustment screw. The Modular Toolholder Base provides fine center height adjustment for cut-off, and turning and facing systems.

How to Setup

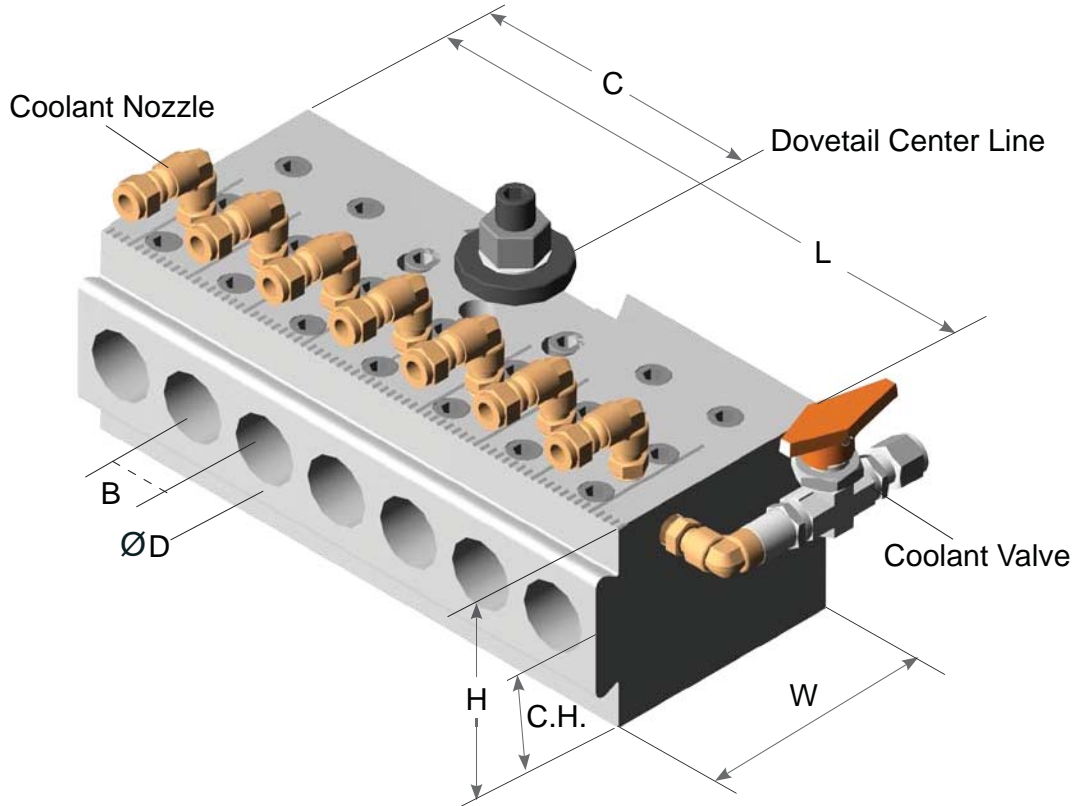
The CNC Quick Change Gang Tool

1. Install your tools onto the CNC Quick Change Gang Tool according to your machining operations. The size of the workpiece will dictate the spacing between the tools and the maximum number of tools that you can use.
2. A wide range of gang tool accessories are available for an unlimited range of machining operations. They all use the extremely rigid, proven dovetail quick-locking system. The CNC Quick Change Gang Tool has a Quick-Set Linear Scale for rapid tool positioning. Modular toolholders are used for cut-off, or turning and facing of different length parts. Slim toolholders are available for compact tool positioning for small and complicated parts that require several operations with different tools.
3. Double-insert boring bars should be used to minimize the number of tools and maximize the number of operations.
4. Assign offsets and set/touch-off each tool. The machine is now ready to run the part program in full CNC mode.
5. Removing the CNC Quick Change Gang Tool from the tool post leaves the machine immediately ready for other applications requiring just a quick change tool post and toolholders.



Compact CNC Quick Change Gang Tool

For 6 to 7 Tools



Identification System for Victory™ CNC Quick Change Gang Tool

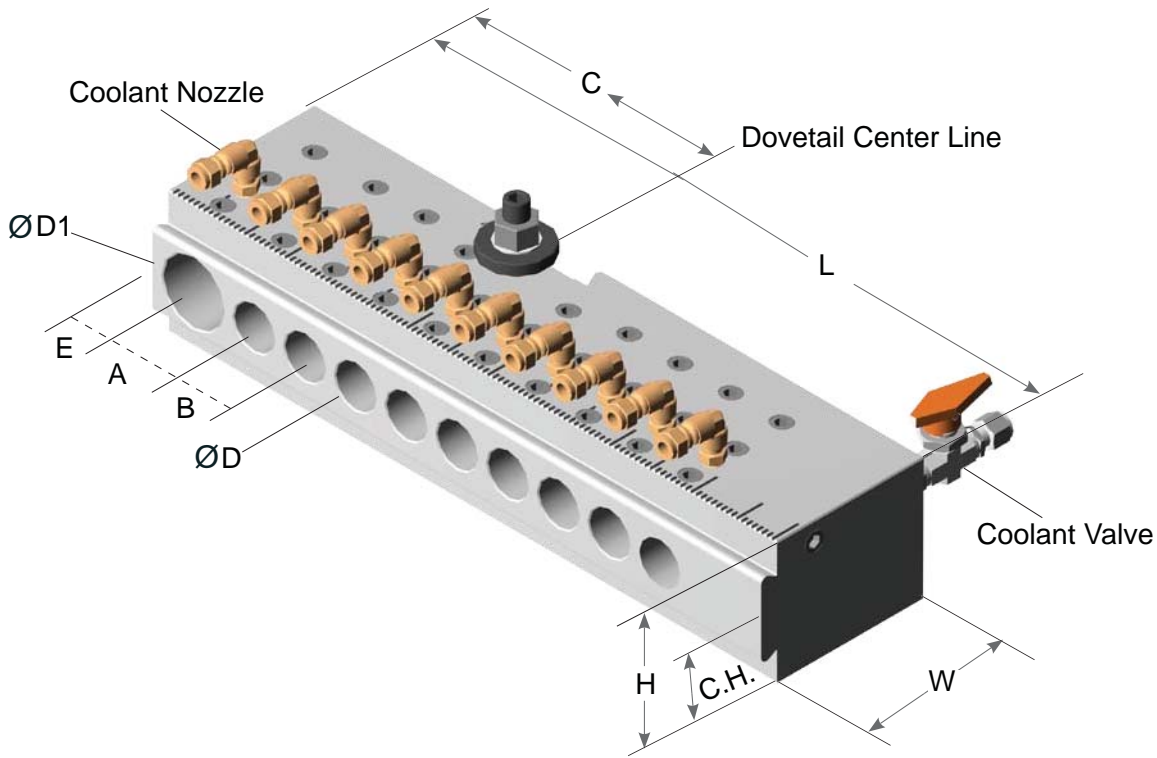
V	25	CNC	gt	075	7	I
Victory™ Style	Tool Post Series	Gang Tool System	Gang Tool	Tool Size	Number of Tool Stations	Unites I = inch M = Metric

Description	V25CNCgt-		V30CNCgt-		V35CNCgt-		V40CNCgt-	
	075-6-I	020-6-M	075-6-I	020-6-M	100-7-I	025-7-M	100-7-I	025-7-M
Part No. 733101-	04351	04322	04352	04324	04355	04326	04358	04328
Inch and Metric Units	in	mm	in	mm	in	mm	in	mm
Lathe Swing Over Bed	<= 12	<=300	13-15	330-380	14-17	350-430	16-20	400-500
B	1	25	1	25	1.25	32	1.25	32
C	2.7	68.7	2.7	68.7	4.5	114.3	4.5	114.3
D	3/4	20	3/4	20	1	25	1	25
W	3.0	76.2	3.0	76.2	4.0	101.6	4.0	101.6
H	2.0	50.8	2.0	50.8	3.0	76.2	3.0	76.2
L	6.1	155.0	6.1	155.0	9.0	228.6	9.0	228.6
Center Height, C.H.	1.0	25.4	1.0	25.4	1.5	38.1	1.5	38.1
No. of Tools	6	6	6	6	7	7	7	7



Large CNC Quick Change Gang Tool

For 9 to 10 Tools



Description	V25CNCgt-		V30CNCgt-		V35CNCgt-		V40CNCgt-	
	075-9-I	020-9-M	075-9-I	020-9-M	100-10-I	025-10-M	100-10-I	025-10-M
Part No. 733101-	04350	04330	04353	04333	04356	04336	04359	04339
Inch and Metric Units	in	mm	in	mm	in	mm	in	mm
Lathe Swing Over Bed	<= 12	<=300	13-15	330-380	14-17	350-430	16-20	400-500
A	1.250	31.75	1.250	31.75	1.500	38.10	1.500	38.10
B	1.000	25.40	1.000	25.40	1.250	31.75	1.250	31.75
C	4.875	123.83	4.875	123.83	6.250	158.75	6.250	158.75
D	.750	20.00	.750	20.00	1.000	25.00	1.000	25.00
D1	1.250	32.00	1.250	32.00	1.500	40.00	1.500	40.00
E	.875	22.23	.875	22.23	1.000	25.40	1.000	25.40
W	3.000	76.20	3.000	76.20	4.000	101.60	4.000	101.60
H	2.000	50.80	2.000	50.80	3.000	76.20	3.000	76.20
L	11.000	279.40	11.000	279.40	15.000	381.00	15.000	381.00
T-TOOL CAP.	1/2-5/8	12 - 16	1/2-5/8	12 - 16	3/4-1.0	20 - 25	3/4-1.0	20 - 25
Center Height, C.H.	1.000	25.40	1.000	25.40	1.500	38.10	1.500	38.10
No.of Tools	9		9		10		10	



Style	Features	Application
<p>CNC Quick Change Gang Tool</p>  <p>PG. 62-63</p>	<ul style="list-style-type: none"> • True CNC Automation • Easy to Setup • Designed for Multi Turning, Drilling, Boring, Tapping, Threading, Grooving and Cut-Off operations. • No Wiring or Interfacing • Makes Productivity Easy, Affordable, and Profitable • Inline 10 Tool Stations • Thru Coolant System • Thru-Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Alignment and Squareness • Honed Bores for Precise Tool Alignment and Squareness • Quick Move from Chip to Chip • Linear Scale for Quick Tool Setting • Quick Change Tool Post Mounting • Rigid Dovetail Locking System • Fine Centerheight Adjustment Mechanism • Supplied standard with Coolant Attachments, Valves and Connectors • Best Results and Efficiency Achieved when used with Double Insert Boring Bars • Production-Ready Turn Key Kits Available for Different Applications 	<ul style="list-style-type: none"> • CNC Programmable Toolroom Lathes • Multi-Feature Parts Completed in one Cycle • Automatic, Un-Manned Machining on Toolroom Lathes • For Machining Small to Large Parts • High Production Applications • Applications where Live Center is not Required
<p>Double Facing & Turning Toolholder</p>  <p>PG. 65</p>	<ul style="list-style-type: none"> • Double Square Shank Toolholder • Compact and Rigid • Multi-Size Tool Slot • Slides on Gang Tool Rail for Quick Tool Positioning • Quick Setup and Lock • Rigid Dovetail Locking System • Thru Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Centerheight, Alignment, and Squareness 	<ul style="list-style-type: none"> • Finishing Applications • Roughing Applications • Multi-Tool Setup Applications • Turning • Facing • Threading
<p>Slim Tool Holder with Single, Double, Triple Bore holders</p>  <p>PG. 66</p>	<ul style="list-style-type: none"> • Slim Size For Maximum Number of Tool Positioning • For Small Boring Bars, Center Drills, Drills, Taps and Reamers • Compact and Rigid • Slides on Gang Tool Rail for Quick and Close Tool Positioning • Quick Setup and Lock • Rigid Dovetail Locking System • Thru Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Centerheight, Alignment, and Squareness 	<ul style="list-style-type: none"> • Small, Intricate, and Complex Parts • Multi-Tool Machining Applications • Drilling, Boring, Chamfering, Threading, Tapping, Center-drilling and Reaming
<p>Modular Turning & Cut-Off Toolholder Base</p>  <p>PG. 67 , 68</p>	<ul style="list-style-type: none"> • Allows for Centerheight Adjustment with a Center-Pin • One Toolholder Base for all Turning, Facing, and Cut-Off Toolholder Heads • Compact and Rigid • Slides on Gang Tool Rail for Quick Positioning • Quick Setup and Lock • Rigid Dovetail Locking System • Thru Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Centerheight, Alignment, and Squareness 	<ul style="list-style-type: none"> • Used for Mounting, Turning and Facing Cut-Off Toolholder Heads (see below)
<p>Modular Short-Medium-Long Turning & Facing Holder</p>  <p>PG. 67</p>	<ul style="list-style-type: none"> • Available in Three Lengths for Short, Medium and Long Parts • Modular Multi-Size Tool Slot • Tool Centerheight Fine Adjustment • Modular Turning, Contouring, Facing and Threading Holder • Compact and Rigid • Thru Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Centerheight, Alignment, and Squareness 	<ul style="list-style-type: none"> • For Small To Large Parts • For Short to Long Parts • Turning, Contouring, Facing, and Threading • Multi-Tool Machining Applications
<p>Modular Short-Medium-Long Cut-Off Holder</p>  <p>PG. 68</p>	<ul style="list-style-type: none"> • Available in Three Lengths for Short, Medium and Long Parts • Precision Ground Blade Dovetail Seat • Tool Centerheight Fine Adjustment • Rigid Cut-Off Applications • Compact and Rigid • Thru Hardened and Ion-Nitrided Chromium-Molybdenum Alloy Steel • Precision Ground for Qualified Tool Centerheight, Alignment, and Squareness 	<ul style="list-style-type: none"> • For Small to Large Parts • For Short to Long Parts • Cut-Off • Grooving • Multi-Tool Machining Applications



Round Toolholders

Modular Toolholders



Compact Single Round Tool and Boring Bar Holder



Modular Short-Medium-Long Turning & Facing Toolholder

Modular Toolholder Base



Modular Turning & Facing and Cut-Off Toolholder Base

Toolholder



Double Turning & Facing Toolholder



Compact Double Round Tool and Boring Bar Holder



Compact Triple Round Tool and Boring Bar Holder



Modular Short-Medium-Long Cut-Off & Grooving Toolholders

Identification System for Victory™ CNC Quick Change Gang Tool Toolholders

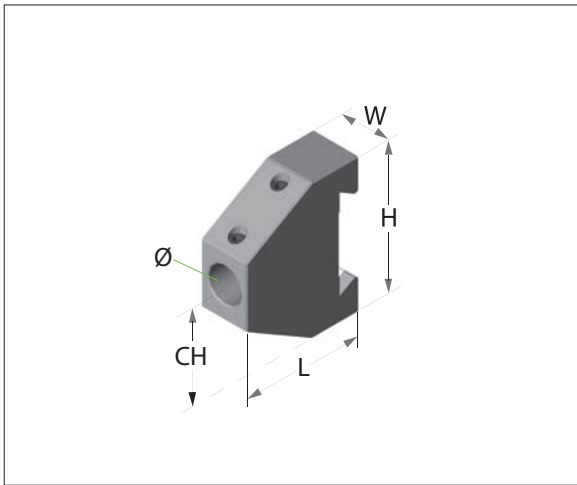
V	3540	CNC	gt	TF	100	I
Victory™	Toolholder Series 35 & 40	Gang Tool System	Gang Tool	Tool Style	Tool Size	Units I = inch M = Metric

V-TF Toolholder - Double Turning & Facing Toolholder-Inch/Metric

	Description	Part No. 733101-	Units	L	W	H	Tool Capacity
	V2530CNCgt-TF-062-I	04370	in	3.000	1.625	2.250	1/2 - 5/8
V2530CNCgt-TF-16-M	04371	mm	76.20	41.28	57.15	12 - 16	
V3540CNCgt-TF-100-I	04400	in	4.000	2.500	3.250	3/4 - 1.0	
V3540CNCgt-TF-25-M	04401	mm	101.60	63.50	82.55	20 - 25	

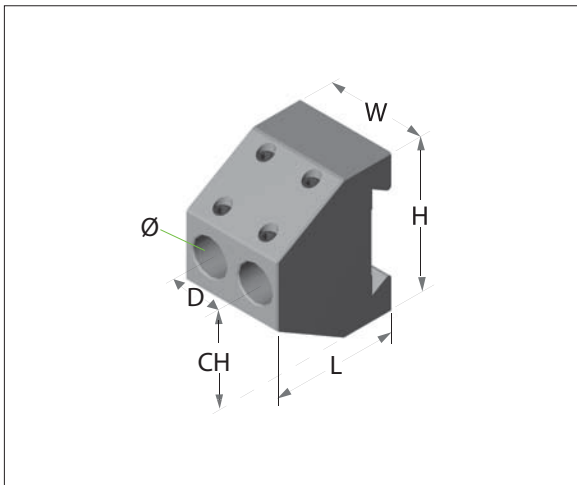


V-B1 Round Toolholder - Compact Single Round Tool and Boring Bar Holder-Inch/Metric



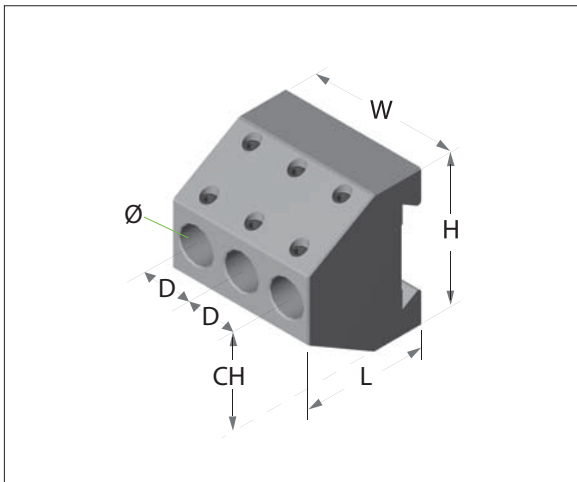
Description	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-B1-050-I	04372	in	2.000	.750	2.250	1/2
V2530CNCgt-B1-12-M	04373	mm	50.80	19.05	57.15	12
V3540CNCgt-B1-075-I	04402	in	2.500	1.000	3.000	3/4
V3540CNCgt-B1-20-M	04403	mm	63.50	25.40	76.20	20

V-B2 Round Toolholder - Compact Double Round Tool and Boring Bar Holder-Inch/Metric



Description	Part No. 733101-	Units	L	W	H	D	Tool Capacity
V2530CNCgt-B2-050-I	04374	in	2.000	1.500	2.250	0.750	1/2
V2530CNCgt-B2-12-M	04375	mm	50.80	38.10	57.15	19.05	12
V3540CNCgt-B2-075-I	04404	in	2.500	2.000	3.000	1.000	3/4
V3540CNCgt-B2-20-M	04405	mm	63.50	50.80	76.20	25.40	20

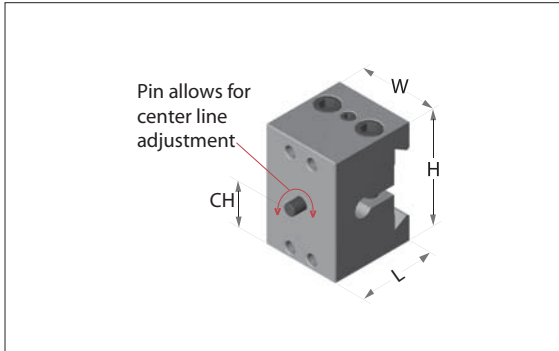
V-B3 Round Toolholder - Compact Triple Round Tool and Boring Bar Holder-Inch/Metric



Description	Part No. 733101-	Units	L	W	H	D	Tool Capacity
V2530CNCgt-B3-050-I	04376	in	2.000	2.250	2.250	0.750	1/2
V2530CNCgt-B3-12-M	04377	mm	50.80	57.15	57.15	19.05	12
V3540CNCgt-B3-075-I	04406	in	2.500	3.000	3.000	1.000	3/4
V3540CNCgt-B3-20-M	04407	mm	63.50	76.20	76.20	25.40	20

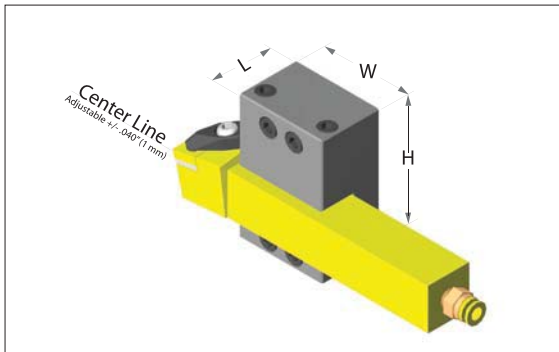


V-MTB - Modular Toolholder Base: Assembled and used with Modular Turning and Facing (Toolholders) (MSTH, MMTH, MLTH), or Modular Cut-Off Toolholders (MSCO, MMCO, MLCO)



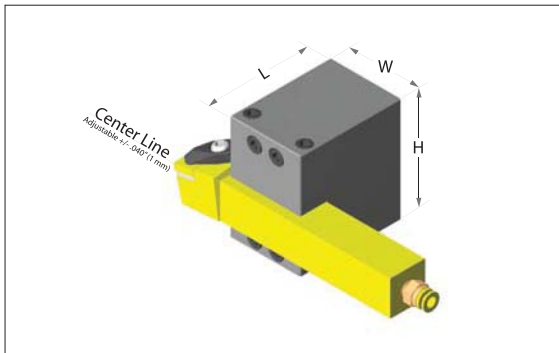
Desc.	Part No. 733101-	Units	L	W	H
V2530CNCgt-MTB	04378	in	1.750	1.500	2.250
		mm	44.45	38.10	57.15
V3540CNCgt-MTB	04408	in	2.125	2.000	3.000
		mm	53.98	50.80	76.20

V-MSTH - Modular Short Turning and Facing Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



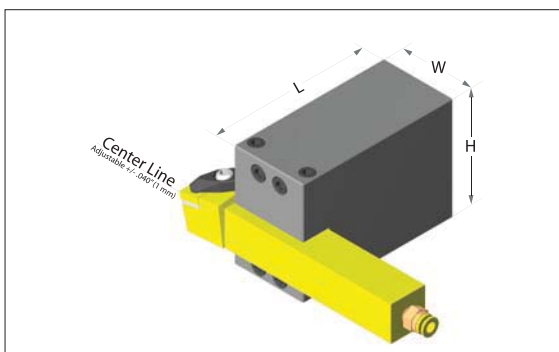
Desc.	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MSTH-062-016	04379	in	1.000	1.500	2.250	1/2 - 5/8
		mm	25.40	38.10	57.15	12 - 16
V3540CNCgt-MSTH-100-025	04409	in	1.375	2.000	3.000	3/4 - 1
		mm	34.93	50.80	76.20	20 - 25

V-MMTH - Modular Medium Turning and Facing Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



Description	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MMTH-062-016	04381	in	2.500	1.500	2.250	1/2 - 5/8
		mm	63.50	38.10	57.15	12 - 16
V3540CNCgt-MMTH-100-025	04411	in	2.875	2.000	3.000	3/4 - 1
		mm	73.03	50.80	76.20	20 - 25

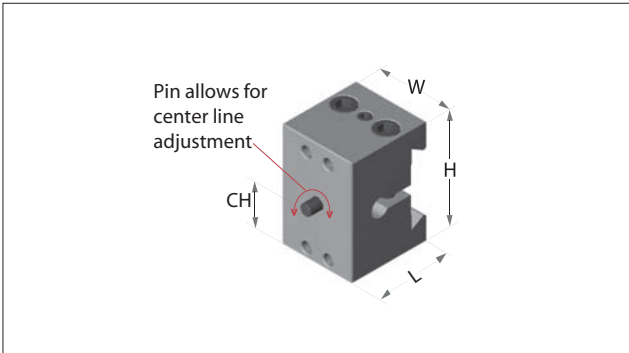
V-MLTH - Modular Long Turning and Facing Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



Description	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MLTH-062-016	04383	in	4.000	1.500	2.250	1/2 - 5/8
		mm	101.60	38.10	57.15	12 - 16
V3540CNCgt-MLTH-100-025	04413	in	4.375	2.000	3.000	3/4 - 1
		mm	111.13	50.80	76.20	20 - 25

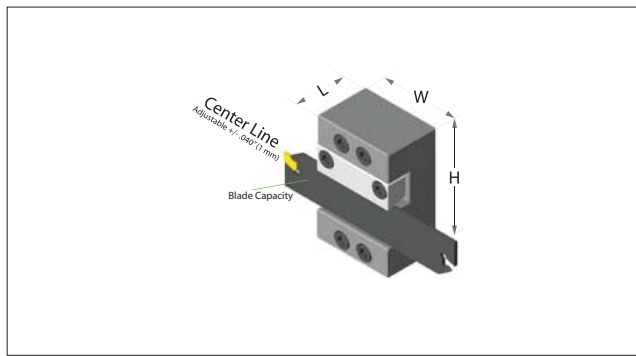


V-MTB - Modular Toolholder Base: Assembled and used with Modular Turning and Facing Toolholders (MSTH, MMTB, MLTH), or Modular Cut-Off & Grooving Toolholders (MSCO, MMCO, MLCO)



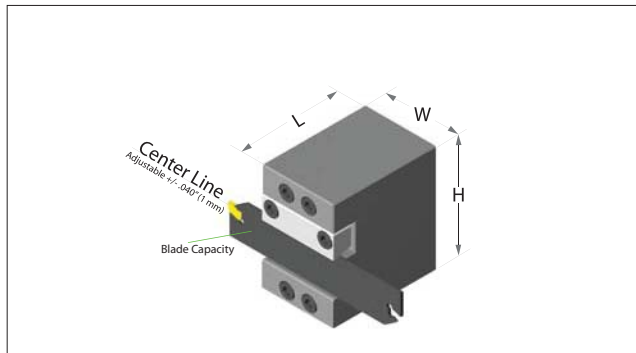
Desc.	Part No. 733101-	Units	L	W	H
V2530CNCgt-MTB	04378	in	1.750	1.500	2.000
		mm	44.45	38.10	50.80
V3540CNCgt-MTB	04408	in	2.125	2.000	3.000
		mm	53.98	50.80	76.20

V-MSCO - Modular Short Cut-Off & Grooving Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



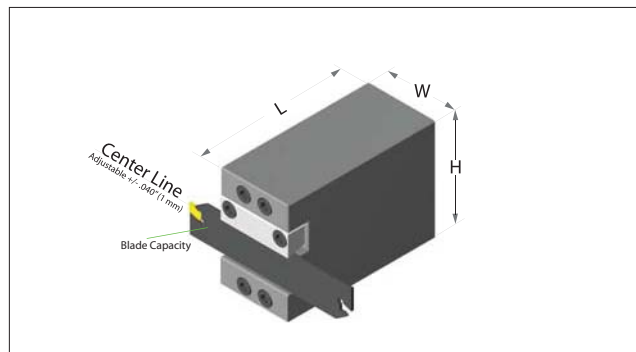
Desc.	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MSCO-19	04385	in	1.000	1.500	2.000	19-2
		mm	25.40	38.10	50.80	
V3540CNCgt-MSCO-26	04415	in	1.375	2.000	3.000	26-2 to 26-6
		mm	34.93	50.80	76.20	

V-MMCO - Modular Medium Cut-Off & Grooving Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



Desc.	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MMCO-19	04386	in	2.500	1.500	2.000	19-2
		mm	63.50	38.10	50.80	
V3540CNCgt-MMCO-26	04416	in	2.875	2.000	3.000	26-2 to 26-6
		mm	73.03	50.80	76.20	

V-MLCO - Modular Long Cut-Off & Grooving Toolholder: Assembled and used with Modular Toolholder Base (V-MTB)



Desc.	Part No. 733101-	Units	L	W	H	Tool Capacity
V2530CNCgt-MLCO-19	04387	in	4.000	1.500	2.000	19-2
		mm	101.60	38.10	50.80	
V3540CNCgt-MLCO-26	04417	in	4.375	2.000	3.000	26-2 to 26-6
		mm	111.13	50.80	76.20	



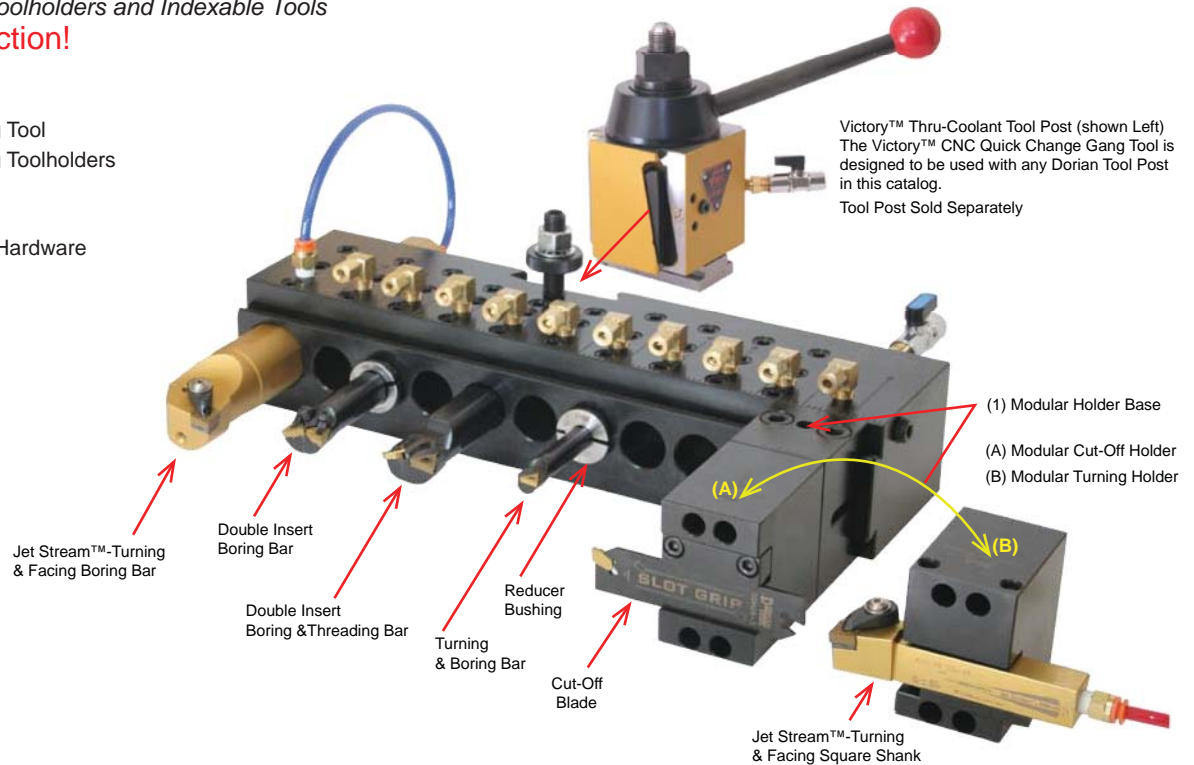
Victory™ CNC Quick Change Gang Tool **SETS**
 Supplied Complete with Toolholders and Indexable Tools
 Ready for **High Production!**

Sets Include:

- (1) CNC Quick Change Gang Tool
- (3) CNC Quick Change Gang Toolholders
- (6) Cutting Tools
- (2) Reducer Bushings
- (1) Complete Set of Coolant Hardware

Sets Feature:

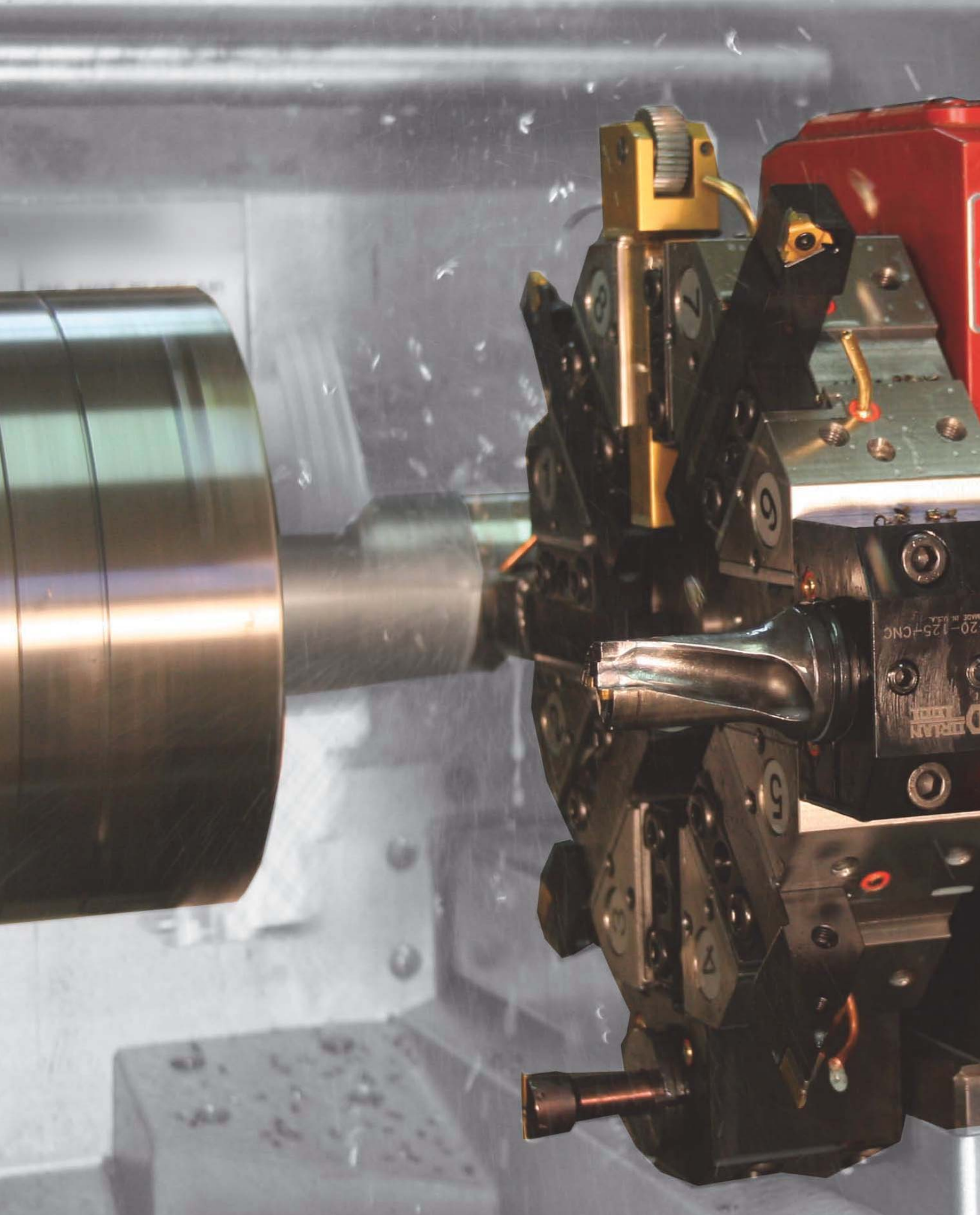
- Super Precision
- Easy Tool Set-up
- Quick Mounting
- Heavy Duty Roughing
- Thru Coolant
- Linear Scale
- Dovetail Locking
- 10 Tool Stations



Victory™ Thru-Coolant Tool Post (shown Left)
 The Victory™ CNC Quick Change Gang Tool is designed to be used with any Dorian Tool Post in this catalog.
 Tool Post Sold Separately

Inch			Metric		
Victory™ 35 CNC Quick Change Gang Tool Set			Victory™ 35 CNC Quick Change Gang Tool Set.		
Part No. 733101-	04491		Part No. 733101-	04481	
Description	V35CNCgt-100-10-IK		Description	V35CNCgt-025-10-MK	
(1) Victory™ 35 CNC Gang Tool			(1) Victory™ 35 CNC Gang Tool		
Description	Tool Size	Qty	Description	Tool Size	Qty
V35CNCgt-100-10-I	3/4"-1"	1	V35CNCgt-025-10-M	20-25 mm	1
(3) Victory™ Gang Tool Holders			(3) Victory™ Gang Tool Holders		
Description	Tool Size	Qty	Description	Tool Size	Qty
V3540CNCgt-MTB		1	V3540CNCgt-MTB		1
V3540CNCgt-MMTH-100-025	3/4"-1"	1	V3540CNCgt-MMTH-100-025	20-25 mm	1
V3540CNCgt-MMCO-26	26 mm	1	V3540CNCgt-MMCO-26	26 mm	1
(2) Reducer Bushings			(2) Reducer Bushings		
Description	Tool Size	Qty	Description	Tool Size	Qty
THB100-50	1" to 1/2"	1	THB25-12	25 to 12 mm	1
THB100-75	1" to 3/4"	1	THB25-20	25 to 20 mm	1
(6) Cutting Tools			(6) Cutting Tools		
Description	Tool Size	Qty	Description	Tool Size	Qty
AS-24S-ADCLNR-4	1.500"	1	AS-40S-ADCLNR-12	40 mm	1
ADCLNR-12-4B	0.75"	1	ADCLNR-2020-K12	20 mm	1
S12M-DWLN-3	0.75"	1	S20M-DWLN-06	20 mm	1
S16Q-DTUC-3-T16	1.00"	1	S25Q-DTUC-16-T16	25 mm	1
S08M-STUCR-2	0.50"	1	12K-STUCR-11	12 mm	1
SGIH26-3	26-3	1	SGIH26-3	26-3	1

Inch			Metric		
Victory™ 40 CNC Quick Change Gang Tool Set			Victory™ 40 CNC Quick Change Gang Tool Set		
Part No. 733101-	04492		Part No. 733101-	04482	
Description	V40CNCgt-100-10-IK		Description	V40CNCgt-025-10-MK	
(1) Victory™ 40 CNC Gang Tool			(1) Victory™ 40 CNC Gang Tool		
Description	Tool Size	Qty	Description	Tool Size	Qty
V40CNCgt-100-10-I	3/4"-1"	1	V40CNCgt-025-10-M	20-25 mm	1
(3) Victory™ Gang Tool Holders			(3) Victory™ Gang Tool Holders		
Description	Tool Size	Qty	Description	Tool Size	Qty
V3540CNCgt-MTB		1	V3540CNCgt-MTB		1
V3540CNCgt-MMTH-100-025	3/4"-1"	1	V3540CNCgt-MMTH-100-025	20-25 mm	1
V3540CNCgt-MMCO-26	26 mm	1	V3540CNCgt-MMCO-26	26 mm	1
(2) Reducer Bushings			(2) Reducer Bushings		
Description	Tool Size	Qty	Description	Tool Size	Qty
THB100-50	1" to 1/2"	1	THB25-12	25 to 12 mm	1
THB100-75	1" to 3/4"	1	THB25-20	25 to 20 mm	1
(6) Cutting Tools			(6) Cutting Tools		
Description	Tool Size	Qty	Description	Tool Size	Qty
AS-24S-ADCLNR-4	1.500"	1	AS-40S-ADCLNR-12	40 mm	1
ADCLNR-12-4B	0.75"	1	ADCLNR-2020-K12	20 mm	1
S12M-DWLN-3	0.75"	1	S20M-DWLN-06	20 mm	1
S16Q-DTUC-3-T16	1.00"	1	S25Q-DTUC-16-T16	25 mm	1
S08M-STUCR-2	0.50"	1	12K-STUCR-11	12 mm	1
SGIH26-3	26-3	1	SGIH26-3	26-3	1



PowerDex 63.5.08.
Voltage 220/230VAC 50/60Hz
Ph. 3 15 A 50k 5/11
DORIAN TOOL INTERNATIONAL
East Windsor, Texas 75755-2281
Made in U.S.A. Patent No. 5,772,934

**DORIAN
TOOL**

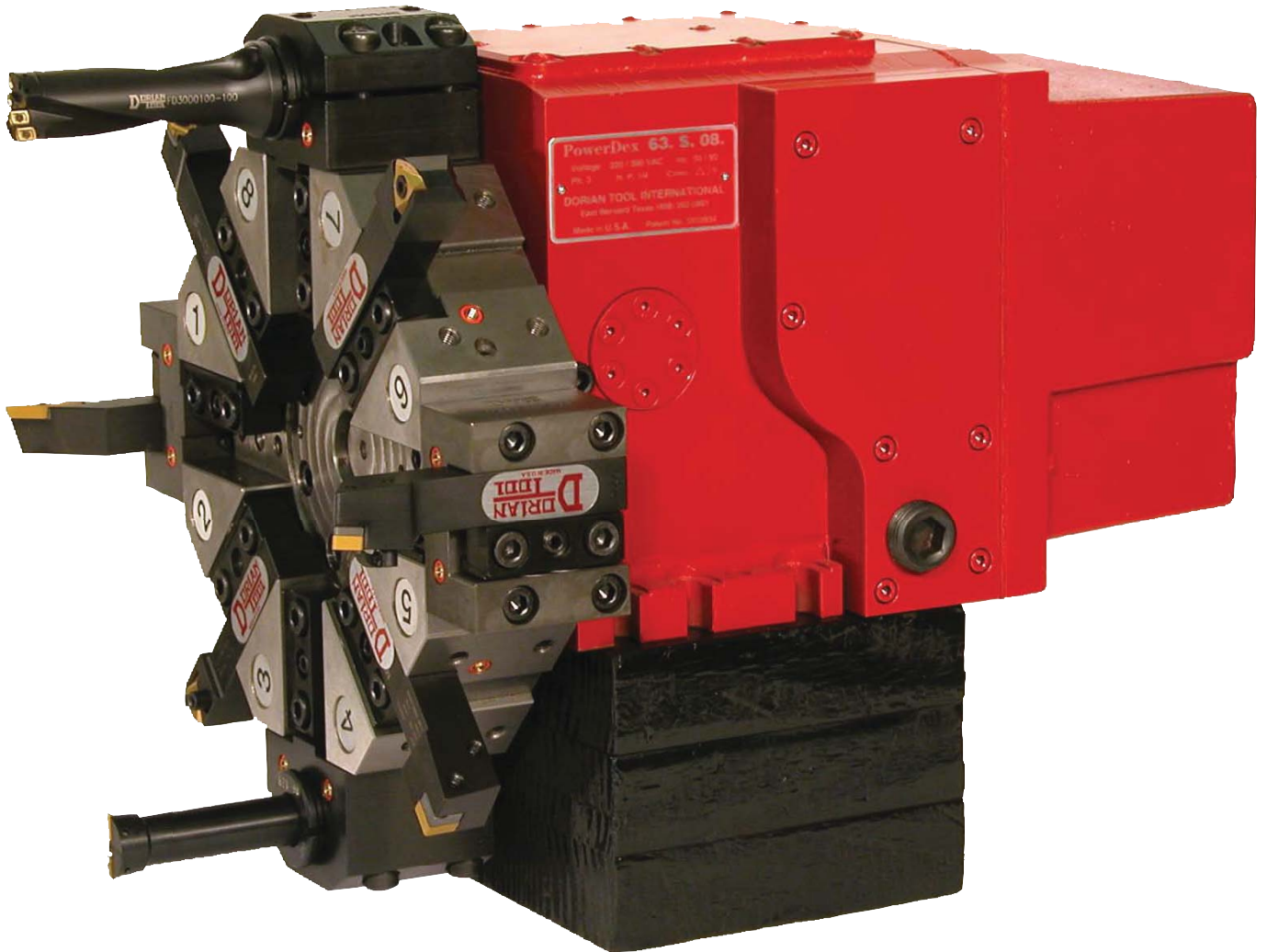
**Decrease the Payoff Time
On Your CNC Lathe**

by Increasing its Performance with the

POWERDEX

Automated CNC Turret


Manual & Automated CNC Turrets

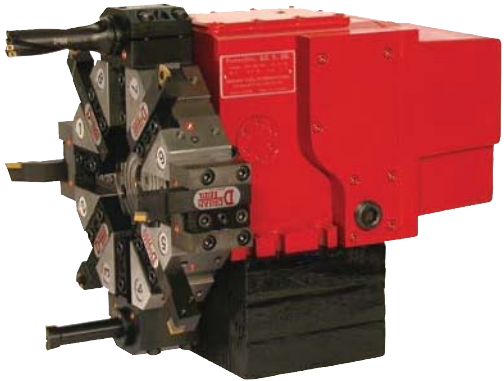


POWERDEX Automated CNC Turret

- 8 Station Bi-Directional Indexing
- Fast Cycle Times
- +/- .0005 Positioning Accuracy
- +/- .0002" Repeatability
- Automatic Thru Coolant System
- Meehanite Body, Heavy Duty Construction
- Cartridge- Style, simple, reliable design
- No maintenance necessary



<h2 style="color: white; background-color: red; padding: 5px;">NVIT Manual Turret</h2>	Application	Type of machine	Turret Selection Data		Page
			Turret Size	Tool Size	
	<ul style="list-style-type: none"> • Back-up for automated Turret • Multi-operation applications • Prototype production • Tool room work • High Precision Applications • Uni-Directional Indexing 	CNC Lathe Manual Lathe	NVIT8-50	.500" 12 mm	75
			NVIT8-58	.625" 16 mm	75
			NVIT8-75	.750" 20 mm	75
			NVIT8-100	1.000" 25 mm	75
			NVIT8-125	1.250" 32 mm	75

<h2 style="color: white; background-color: red; padding: 5px;">POWERDEX Automated CNC Turret</h2>	Application	Type of machine	Turret Selection Data		Page
			Turret Size	Tool Size	
	<ul style="list-style-type: none"> • Fast indexing cycles • Multi-operation applications • Fully interfaced with CNC lathe • Bi-Directional Indexing • Absolute Encoder • Ultra-precision applications 	CNC Lathe	POWERDEX 50N	750" 20mm	79
			POWERDEX 63N	.750" 20mm	79
			POWERDEX 80N	1.000" 25mm	79
			POWERDEX 100N	1.250" 32mm	79
			POWERDEX 125N	1.500" 40mm	79



Dorian NVIT Manual Turret

The Dorian NVIT Manual Turret is designed and built to deliver the highest accuracy, the fastest tool change, and the greatest rigidity every found in any other manual tool system. In maximizing quality, productivity and profitability TRUE CNC PERFORMANCE is ACHIEVED with the Dorian NVIT Turret.

• **Easy Mounting** - The NVIT turret is very easy and fast to install. It is directly mounted on to the lathe.

• **Minimum Vibration** - The turret body is made from MEEHANITE-40 casting to deliver high dampening capability.

• **Safety** - The turret features a safety lock eliminating the possibility of the turret head getting loose under extra heavy or interrupted cuts.

• **Easy Removable Boring Bar Holder** - Boring bar holders are easily mounted and quickly removed.

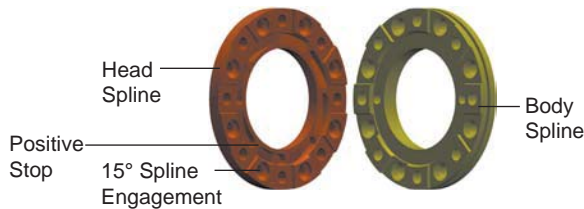
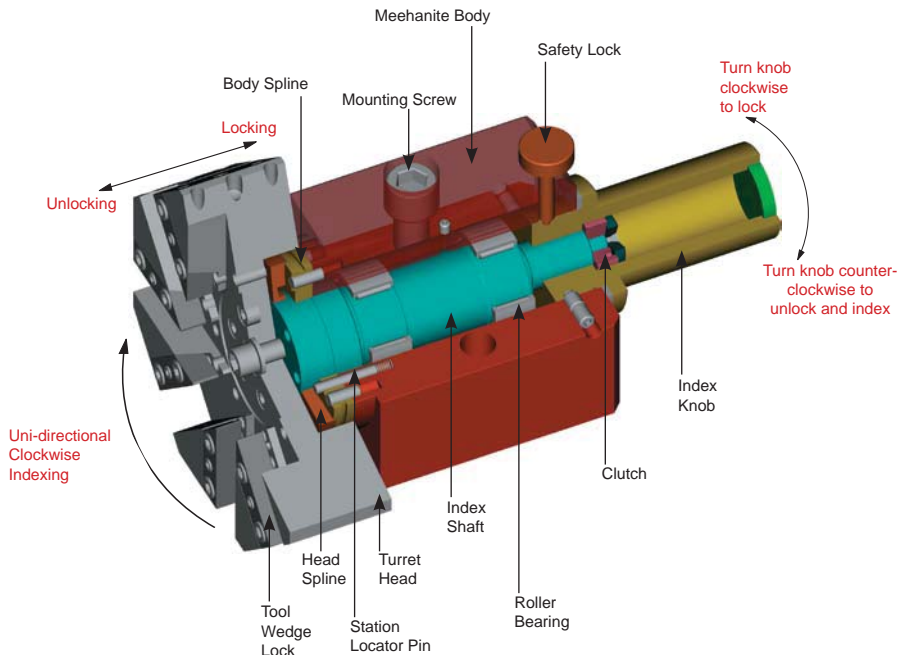
• **Minimum Friction** - The turret is indexed with the assistance of two roller bearings between the body and the shaft, reducing the friction by 75%. This reduction of friction makes the turret easier to index.

• **Positive Indexing** - The clutch engages positively with the indexing knob offering maximum transmission from indexing to locking.

• **Simple and Fast Indexing** - The indexing knob's length and grip diameter makes indexing convenient with minimum operator effort. Turning the knob counterclockwise unlocks and indexes the turret. Turning the knob clockwise, when the desired tool station is reached, locks the tool head in position.

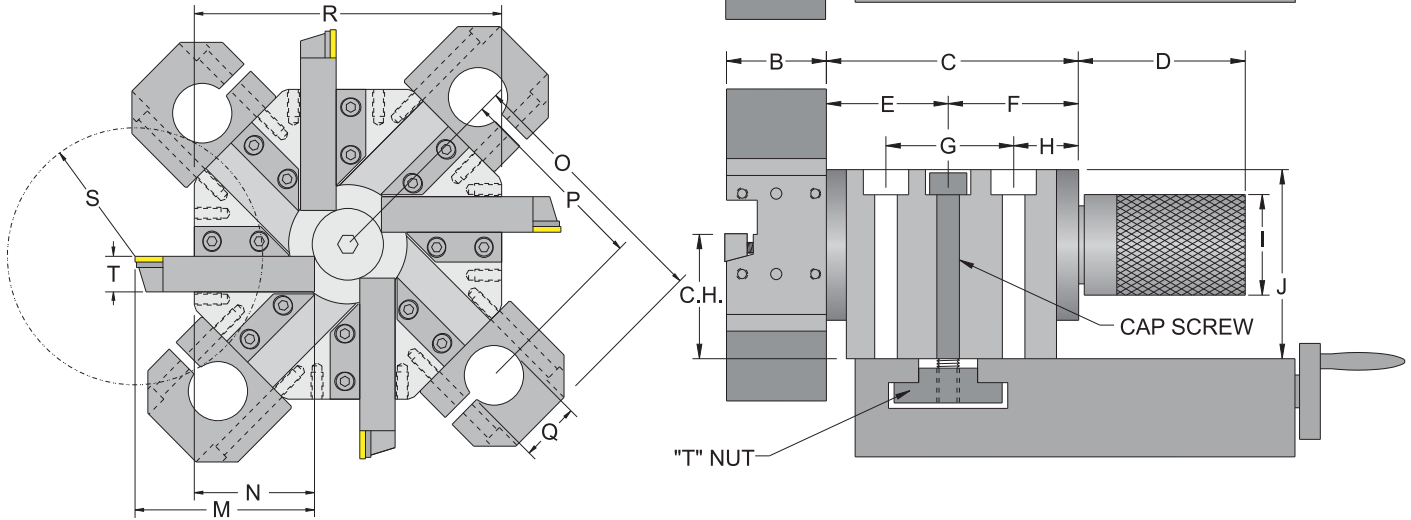
• **Five Tool Capacities Available** -
Inch: .500" to 1.250", Metric: 12 mm to 32 mm

• **Precision, Repeatability and Rigidity** - The Indexing face splines (shown Left) are Ion Nitrated and precision ground for maximum precision, repeatability and rigidity. The special iron Nitrate treatment decreases the wear of the face splines over years and years of operation and hence increases the life of the turret, resulting in great cost savings. 15° engagement between the teeth of the face splines provide maximum rigidity and extra heavy interrupted cuts and a repeatability of ± .0001".





Dorian NVIT Manual Turret



NVIT Manual Turret - Specifications										
Description	NVIT8-50		NVIT8-58		NVIT8-75		NVIT8-100		NVIT8-125	
	07505		07510		07515		07520		07525	
Part No. 733101-										
Unit of measurement	in	mm	in	mm	in	mm	in	mm	in	mm
No. of stations	8	8	8	8	8	8	8	8	8	8
Lathe swing over bed †	Up-12	300	13-15	320	14-17	400	17-24	500	XHD	XHD
Center height † †	1.375	34,22	1.750	44,58	2.000	51,75	2.500	63,1	3.000	76,45
Center height Min.	0.875	22,20	1.000	25,40	1.437	36,5	2.000	50,8	2.500	63,50
Max. square shank size	0.500	12	0.625	16	0.750	20	1.000	25	1.250	32
B	1.500	38,1	2.000	50,8	2.250	57,2	2.500	63,5	3.000	76,2
C	4.000	101,6	4.000	101,6	5.500	139,7	6.500	165,1	8.000	203,2
D	3.500	88,9	3.500	88,9	3.625	92,1	3.625	92,1	3.625	92,1
E	2.000	50,8	2.000	50,8	2.750	69,9	3.250	82,6	4.000	101,6
F	2.000	50,8	2.000	50,8	2.750	69,9	3.250	82,6	4.000	101,6
G	-	-	-	-	-	-	-	-	4.500	114,3
H	-	-	-	-	-	-	-	-	1.750	44,5
I	2.250	57,2	2.250	57,2	2.250	57,2	2.250	57,2	2.250	57,2
J	3.250	82,6	3.500	88,9	4.500	114,3	5.000	127,0	6.000	152,4
K	3.250	82,6	3.500	88,9	4.500	114,3	5.000	127,0	6.000	152,4
L	2.250	57,2	2.250	57,2	3.000	76,2	3.500	88,9	4.500	114,3
M	3.125	79,4	3.375	85,7	3.812	96,8	4.562	115,9	5.625	142,9
N	2.125	54,0	2.250	57,2	2.562	65,1	3.312	84,1	4.875	123,8
O	3.875	98,4	4.375	111,1	5.125	130,2	6.375	161,9	8.000	203,2
P	3.125	79,4	3.500	88,9	4.125	104,8	5.125	130,2	6.500	165,1
Q*	0.750	20	1.000	25	1.250	32	1.500	40	2.000	50
R	5.000	127,0	5.500	139,7	6.500	165,1	8.250	209,6	10.500	266,7
S	1.937	49,2	2.500	63,5	2.687	68,3	3.375	85,7	4.125	104,8
T**	0.500	12	0.625	16	0.750	20	1.000	25	1.250	32
Cap screw	3/8-16	M10	3/18-16	M10	1/2-13	M12	3/4-10	M20	3/4-10	M20
Index time from tool to tool	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.	0.5 Sec.
Positioning accuracy	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"
Repeatability	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"	±0°0'6"
Weight of standard turret	10.0 kg	22 lbs	10.9 kg	24 lbs	24.9 kg	55 lbs	44.5 kg	98 lbs	80.3 kg	177 lbs

† Lathe swing dimensions listed above are for reference only.

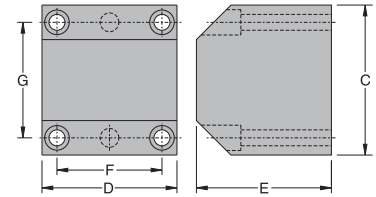
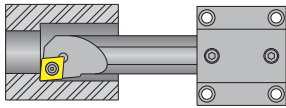
†† Standard turret only, tools are sold separately. Turret is supplied with standard center height, a blank "T" nut, and two Allen head cap screws. Any modifications to turret are done to custom specifications.

* Maximum Boring Bar Capacity
** Maximum Tool Capacity

Tooling not included



Blank Boring Bar Holder



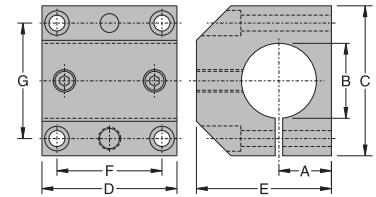
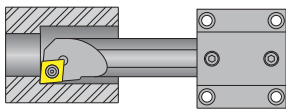
Tool Tips

This boring bar holder is best used when super precise boring is required. The holder is supplied without a bore so that it can be bored, honed, or ground to precise tolerance or for special diameters.

Inch Description	Part No. 733101-	C		D		E		F		G		Reference Turret
		in	mm	in	mm	in	mm	in	mm	in	mm	
BBH12-1	07600	2.000	50,8	1.500	38,1	1.375	34,9	1.000	25,4	1.300	78,7	NVIT8-50
BBH16-1	07602	2.250	57,2	2.000	50,8	1.625	41,3	1.500	38,1	1.600	40,6	NVIT8-58
BBH20-1	07604	2.500	63,5	2.250	57,2	1.875	47,6	1.750	44,5	1.800	45,7	NVIT8-75
BBH25-1	07606	3.200	46,5	2.500	63,5	2.250	57,2	1.800	45,7	2.500	63,5	NVIT8-100
BBH32-1	07608	3.750	95,3	3.000	76,2	2.750	69,9	2.250	57,2	3.000	76,2	NVIT8-125

Tooling not included

Boring Bar Holder



Tool Tips

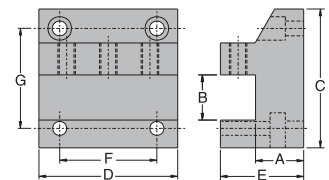
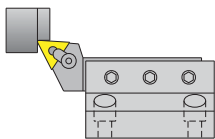
This holder is best used for holding boring bars. It has a precision ground bore with a 360° locking system giving it the best rigidity in metal removing without scarring the bar.

Inch Description	Part No. 733101-	A	B	C	D	E	F	G	Reference Turret
		in	in	in	in	in	in	in	
BBH12-075-2	07620	0.625	0.750	2.000	1.500	1.375	1.000	1.300	NVIT8-50
BBH16-100-2	07622	0.750	1.000	2.250	2.000	1.625	1.500	1.600	NVIT8-58
BBH20-125-3	07644	0.875	1.250	2.500	2.250	1.875	1.750	1.800	NVIT8-75
BBH25-150-3	07646	1.000	1.500	3.200	2.500	2.250	1.800	2.500	NVIT8-100
BBH32-200-2	07628	1.250	2.000	3.750	3.000	2.750	2.250	3.000	NVIT8-125

Metric Description	Part No. 733101-	A	B	C	D	E	F	G	Reference Turret
		mm	mm	mm	mm	mm	mm	mm	
BBH12-20-2	07680	15,9	20	50,8	38,1	34,9	25,4	78,7	NVIT8-50
BBH16-25-2	07682	19,1	25	57,2	50,8	41,3	38,1	40,6	NVIT8-58
BBH20-32-3	07704	22,2	32	63,5	57,2	47,6	44,5	45,7	NVIT8-75
BBH25-40-3	07706	25,4	40	63,5	57,2	45,7	45,7	63,5	NVIT8-100
BBH32-50-2	07688	31,8	50	95,3	76,2	69,9	57,2	76,2	NVIT8-125

Tooling not included. For bushings see page P-33

Face Tool Holder



Tool Tips

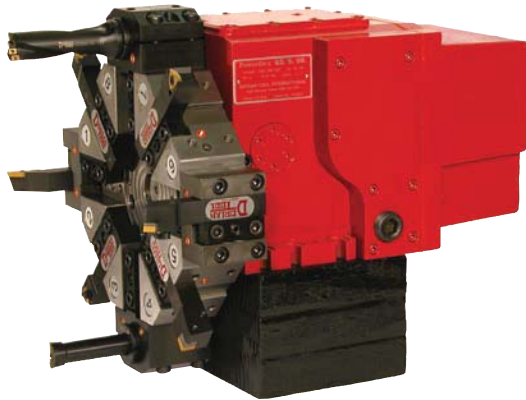
This holder is best used for holding toolholders in a facing application. A setscrew locking system insures that the tool is locked rigidly in the holder.

Inch Description	Part No. 733101-	A		B		C		D		E		F		G		Reference Turret
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm			
FTH12-2	07740	0.600	15,2	0.500	12	2.000	50,8	1.625	41,3	1.100	27,9	1.000	25,4	1.300	78,7	NVIT8-50
FTH16-2	07742	0.625	15,9	0.625	16	2.250	57,2	2.200	55,9	1.250	31,8	1.500	38,1	1.600	40,6	NVIT8-58
FTH20-3	07760	0.867	22,0	0.750	20	2.500	63,5	2.500	63,5	1.500	38,1	1.750	44,5	1.800	45,7	NVIT8-75
FTH25-3	07762	0.935	23,7	1.000	25	3.200	46,5	2.730	69,3	1.875	47,6	1.800	45,7	2.500	63,5	NVIT8-100
FTH32-2	07748	1.000	25,4	1.250	32	3.750	95,3	3.250	82,6	2.250	57,2	2.250	57,2	3.000	76,2	NVIT8-125

Tooling not included

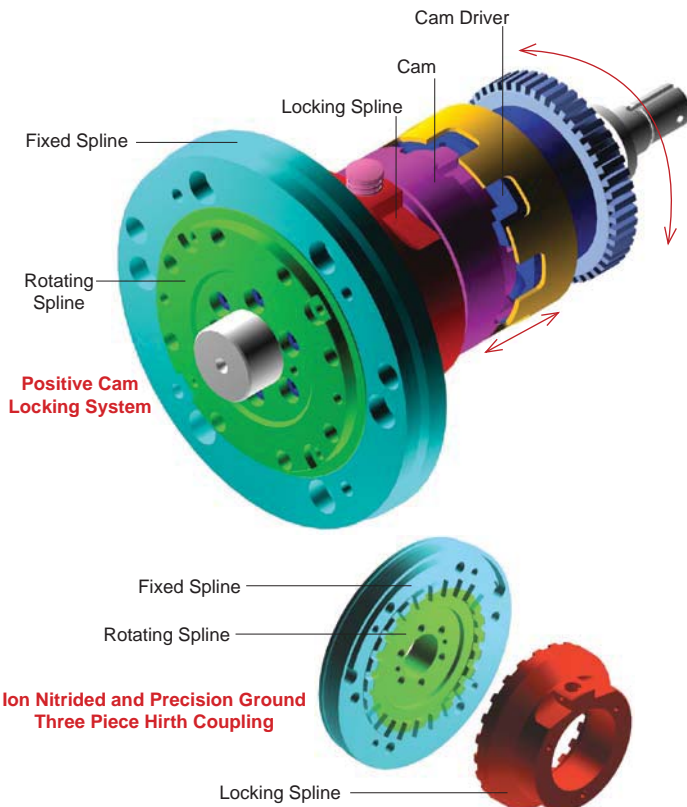
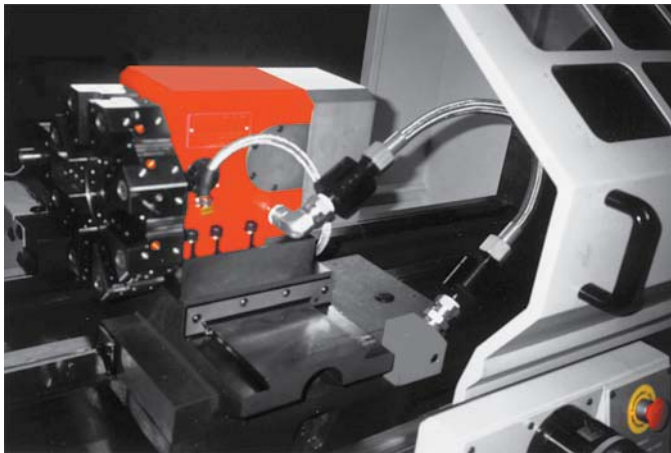


Dorian POWERDEX Automated CNC Turret -



Tool Capacity:

Inch: 1/2", 5/8", 3/4", 1.0", 1-1/4", 1-1/2"
metric: 12mm, 16mm, 20mm, 25mm, 32mm, 40mm



Decrease The Payoff Time On Your CNC Lathe By Increasing Its Performance with a PowerDex

The turret is a vital component of the CNC lathe. The operation and performance levels of the turret are crucial to the overall performance of the CNC lathe to achieve the optimum precision, efficiency, and reliability.

The PowerDex turret was designed and built by Dorian Tool to deliver the highest accuracy and repeatability, the fastest tool change, and the greatest rigidity ever found in any other electro-mechanical automated tool system.

By maximizing quality, productivity, and profitability, absolute CNC performance is achieved with the PowerDex.

- Electro-mechanical
- 8 & 12 stations
- Bi-directional (Shortest Path)
- Automated indexing
- Fast indexing cycle
- Milled Seat or VDI Tool Head
- Easy to remove boring bar holders
- Positive Locking Force
- Three piece Hirth coupling
- Precision, rigidity, and repeatability
- Thru coolant system
- Meehanite body
- Heavy duty construction
- Intefaceable with virtually any CNC
- PowerDex turrets can be interfaced with virtually any CNC lathe.
- Reliable operation and the high performance of the PowerDex series turrets, increases the effective performance of your CNC lathe to achieve maximum efficiency and profitability.
- PowerDex turrets require mininum maintenance during years of operation and their cartridge style design makes servicing or troubleshooting very easy in case of a crash.
- The turrets have two easy-access lubrication windows to lubricate the internal parts from time to time.
- Positive Cam Locking System with three piece hirth coupling (splines) creates the most rigid turret locking mechanism (cam driver pushes the cam and therefore the locking spline to lock positively against the fixed and rotating splines).
- Internal parts, such as splines, shaft, cam, cam driver, are made from high alloy steel, thru hardened, ion nitrided and precision ground.
- Only highest quality, high precision and heavy duty bearings from first-class bearing manufacturers are being used on all Dorian Turrets
- Choice of Milled Seat or VDI turret discs (for both metric and inch tools)



1. Body

Meehanite-40 casting body delivers very high dampening capabilities.

2, 3, 4. Three Piece Hirth Coupling

The three-piece hirth coupling is comprised of a fixed spline (2) mounted to the body of the turret, a rotating spline (3) mounted to the turret head and the indexing shaft, and a locking spline (4) mounted to the locking mechanism of the turret. This system allows the tool head to be indexed without lifting; therefore, eliminating chip and swarf contamination.

Each one of the splines is specially hardened by the Ion Nitriding process and precision ground in order to make the splines more resistant to wear and increase the usable life of the turret, resulting in great savings.

5, 6. Positive Locking

Hardened and precision ground cam and driver (with extra heavy duty cam followers) provide the most rigid locking mechanism in the industry by creating a positive locking force.

7. New Absolute Encoder

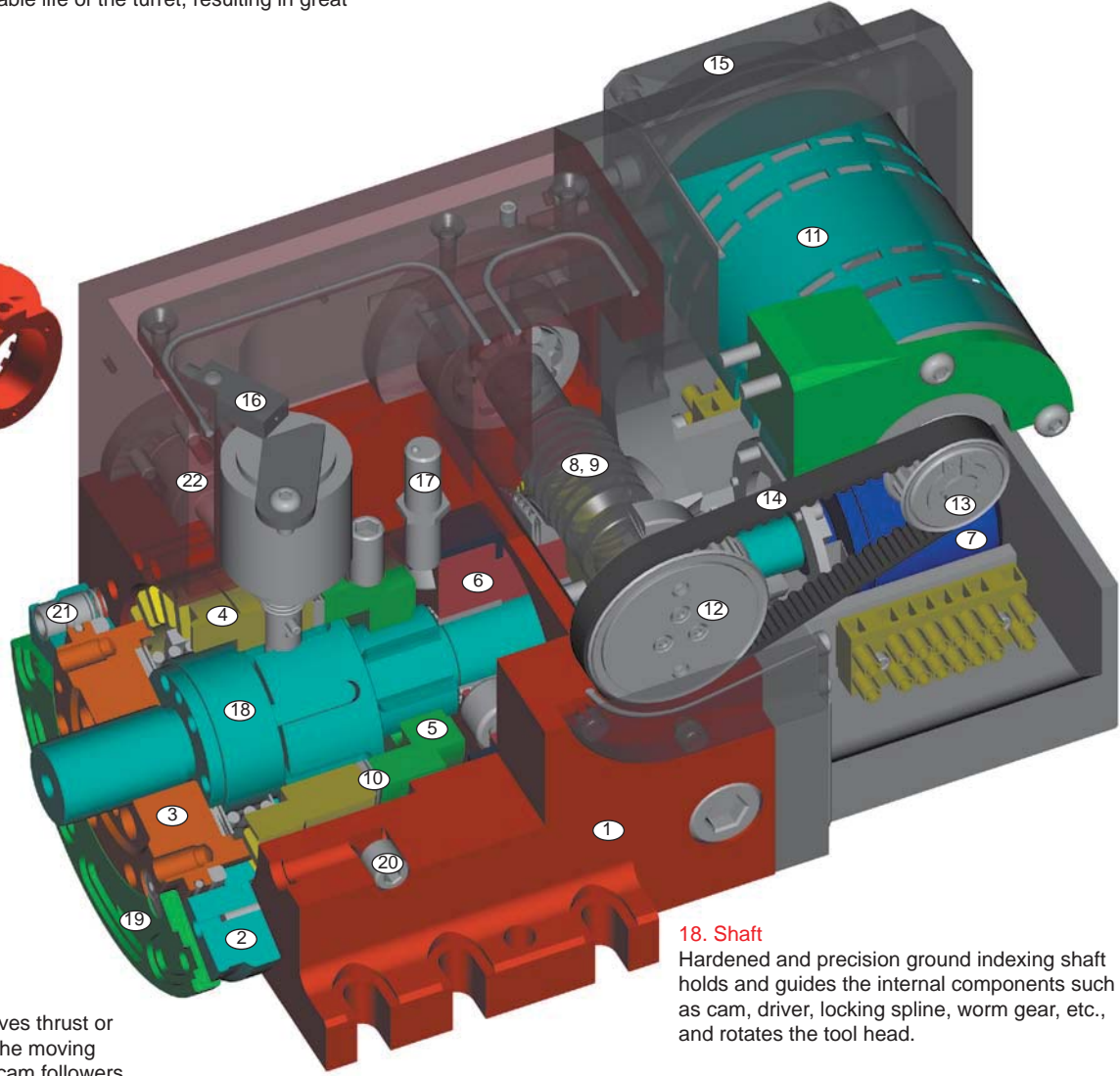
The new, state of the art encoder utilizes the latest technology in the optical rotary encoder industry. The encoder mounting mechanism and the flexible coupling isolate the encoder from vibrations and shocks due to interrupted cuts and crashes.

8, 9. Worm and Worm Gear

Heat treated alloy steel worm shaft and aluminum bronze worm gear provide a smooth and quite indexing mechanism for the turret.



Ion Nitrided and Precision Ground Three Piece Hirth Coupling



10. Bearings

The PowerDex design involves thrust or roller bearings between all the moving parts and extra heavy duty cam followers in the locking mechanism to eliminate wear due to friction.

15. Brake

Powerful brake helps stop the motor at the right location to prevent any overshoot.

11, 12, 13, 14. Motor, Pulleys and Timing Belt

Three phase, powerful, and high rpm motor coupled with a durable timing belt and pulley system provide lightning fast indexes.

16, 17. Sensors

Rugged and reliable proximity sensors are used to monitor the indexing and locking processes of the turret.

18. Shaft

Hardened and precision ground indexing shaft holds and guides the internal components such as cam, driver, locking spline, worm gear, etc., and rotates the tool head.

19, 20, 21. Thru Coolant System

The thru coolant system allows the coolant to be distributed through the toolhead to the working tools.

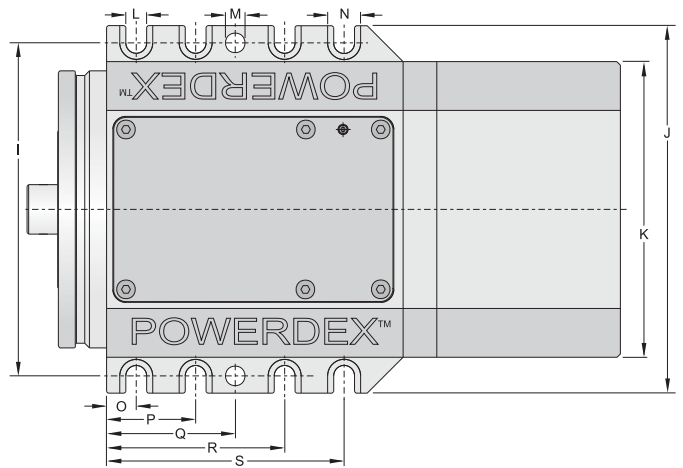
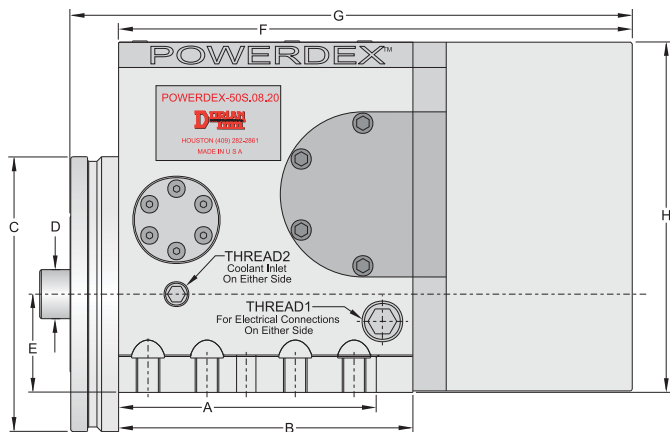
22. Damping Rod

Hardened damping rods (with urethane springs) guide the locking spline on the indexing shaft to enable a perfect engagement of the three piece hirth coupling without any misalignment.



POWERDEX Automated CNC Turret - Specifications							
		50N	63N	80N	100N	125N	
Description		*PDEX50N.08	PDEX63N.08	*PDEX80N.08	PDEX100N.08	PDEX125N.08	
UPC No.		11011	11021	11031	11041	11051	
Number of Stations		8	8	8	8	8	
Recommended Square Shank Tooling Size	in.	.750	.750	1.000	1.250	1.500	
	mm	20	20	25	32	40	
Center Height	in.	1.969	2.480	3.150	3.937	4.921	
	mm	50	63	80	100	125	
Index Time with Locking	60 Hz	30° Sec.	0.180	0.220	0.240	0.370	0.410
		45° Sec.	0.220	0.260	0.300	0.440	0.500
		180° Sec.	0.410	0.480	0.800	1.060	1.240
Max. Overturning Torque	Ft. lbs.	553	885	1,623	3,540	6,638	
	Nm.	750	1,200	2,200	4,800	9000	
Positioning Accuracy		in.	±.0005"	±.0005"	±.0005"	±.0005"	
Repeatability		in.	±.0002"	±.0002"	±.0002"	±.0002"	
Weight of Standard Turret	lbs.	90	110	150	300	375	
	Kgs.	41	150	68	136	170	

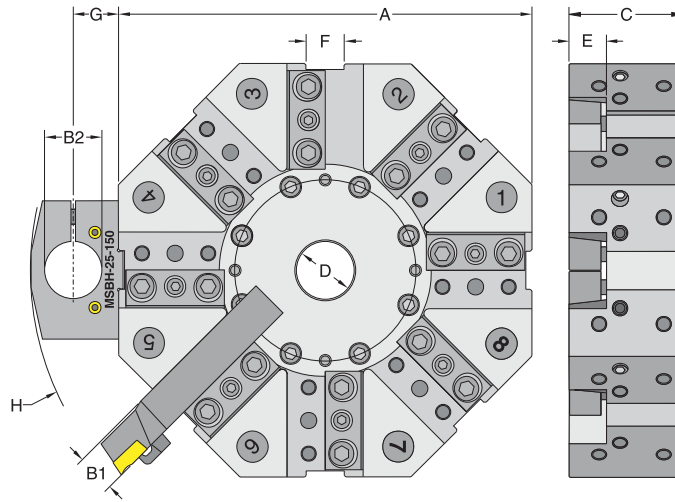
*PDEX50N & PDEX80N can be ordered, but are not a stock item.



POWERDEX Automated CNC Turret - Dimensions																				Thread			
Description	No. of Stations	Units	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	1 NPT	2 NPT
PDEX50N.08	8	in.	4.13	5.90	5.50	0.984	1.968	10.37	11.48	7.00	6.625	7.31	5.89	.414	.3937	.656	.59	1.77	2.560	3.54	-	3/4"-14"	1/4"-18"
		mm	105,0	150,0	140,0	25	50	236,4	291,7	177,8	168,3	185,7	150,0	10,5	10	16,6	4,16	45,00	65,00	90,0	-		
PDEX63N.08	8	in.	4.35	6.12	6.06	1.181	2.480	10.59	11.71	7.51	6.625	7.31	5.89	.414	.3937	.656	.81	1.99	2.780	3.76	-	3/4"-14"	1/4"-18"
		mm	110,0	155,4	153,9	30	63	269,0	297,4	190,8	168,3	185,7	150,0	10,5	10	16,6	20,57	50,60	70,50	95,6	-		
PDEX80N.08	8	in.	5.53	6.44	7.59	1.574	3.149	11.39	12.65	9.00	8.250	9.16	7.35	.414	.3937	.656	.60	1.75	2.625	3.50	4.875	3/4"-14"	1/4"-18"
		mm	140,5	163,5	192,8	40	80	289,3	321,2	228,6	209,5	232,6	186,4	10,5	10	16,6	15,24	44,45	66,67	88,9	124		
PDEX100N.08	8	in.	6.50	7.10	8.66	1.968	3.937	12.89	14.07	10.04	9.500	10.40	8.40	.530	.3937	.780	.70	1.75	2.750	4.00	5.00	3/4"-14"	1/4"-18"
		mm	165,1	180,3	220,0	50	100	327,4	357,4	255,0	241,3	264,1	213,4	13,4	10	19,8	17,80	44,45	69,80	101,6	127		
PDEX125N.08	8	in.	6.50	7.30	11.02	2.480	4.921	13.65	15.62	11.41	10.60	11.60	9.65	.530	.3937	.780	.70	1.95	3.000	4.00	5.00	3/4"-14"	1/4"-18"
		mm	165,1	185,4	280,0	63	125	346,7	396,7	289,8	269,2	294,6	245,1	13,4	10	19,8	17,80	44,45	69,80	101,6	127		



Milled Seat Turret Head



Milled Seat Turret Head Eight (8) Station INCH	INCH Description	Part No. 733101-	A	B1	B2	C	D	E	F	G	H	Reference Turret
	MS.050.S.08.750.190	11508	7.480	0.750	1.250	2.402	0.984	0.787	0.787	1.024	11.831	PDEX50N.08
	MS.050.S.08.750.220	11510	8.661	0.750	1.250	2.402	0.984	0.787	0.787	0.984	12.283	PDEX50N.08
	MS.063.S.08.750.220	11512	8.661	0.750	1.250	2.402	1.181	0.787	0.787	0.984	12.283	PDEX63N.08
	MS.080.S.08.100.275	11514	10.827	1.000	1.500	2.992	1.574	0.984	0.984	1.181	15.276	PDEX80N.08
	MS.100.S.08.125.350	11516	13.780	1.250	2.000	3.780	1.968	1.260	1.260	1.378	19.370	PDEX100N.08
	MS.125.S.08.150.450	11520	13.780	1.250	2.000	3.780	1.968	1.260	1.260	1.378	19.370	PDEX125N.08

Milled Seat Turret Head Eight (8) Station METRIC	METRIC Description	Part No. 733101-	A	B1	B2	C	D	E	F	G	H	Reference Turret
	MS.050.S.08.20.190	11568	190	20	32	61	25	20	20	26	300	PDEX50N.08
	MS.050.S.08.20.220	11570	220	20	32	61	25	20	20	25	312	PDEX50N.08
	MS.063.S.08.20.220	11572	220	20	32	61	30	20	20	25	312	PDEX63N.08
	MS.080.S.08.25.275	11574	275	25	40	76	40	25	25	30	388	PDEX80N.08
	MS.100.S.08.32.350	11576	350	32	50	96	50	32	32	35	492	PDEX100N.08
	MS.125.S.08.40.450	11580	450	40	60	126	63	40	40	40	612	PDEX125N.08

Tooling not Included

POWERDEX Installation Option 1: With PowerDex Control Box & M-Codes PowerDex Turrets can be interfaced to any CNC or Programmable Lathe with the use of 5 M-Codes. PowerDex Control Box (UPC# 733101-12160) is required.

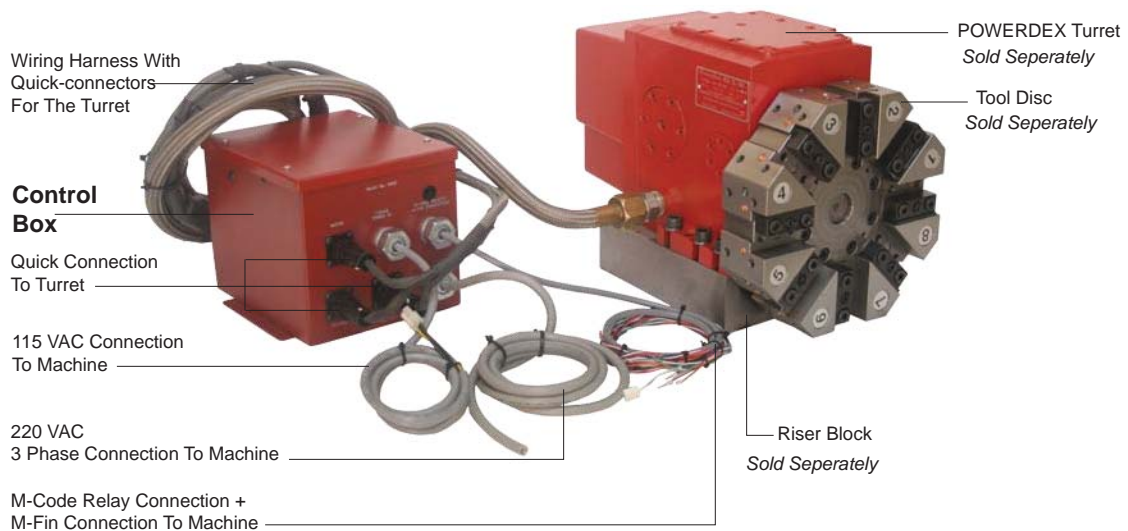
Most machines come with spare M-Codes for additional accessory installations. If the machine does not have 5 spare M-Codes, then additional M-Codes can be purchased from the machine tool manufacturer as an option.

The PowerDex Control Box (Shown Below) includes:

1. Control Box
2. Wiring Harness with Quick-Connects to the PowerDex Turret
3. 115 VAC Cable to power the Control Box
4. 220 VAC 3 Phase Cable to power the 3 Phase 220 VAC motor of the PowerDex Turret
5. M-Code Connection Cables. These cables are labeled as Bit 0, 1, 2, 3, and START. Bits 0 thru 3 are to be connected to M Code Relays 1 thru 4 respectively. **START Bit** is to be connected to M Code Relay 5. A subroutine program is to be written for each tool station change to call up the appropriate M Codes for the tool change according to the chart below. The appropriate tool change subroutine needs to be called by the main part program to change to the desired tool station.

Turret Index Chart								
Tool Station	1	2	3	4	5	6	7	8
Bit 0 (M Code 1)	1	0	1	0	1	0	1	0
Bit 1 (M Code 2)	0	1	1	0	0	1	1	0
Bit 2 (M Code 3)	0	0	0	1	1	1	1	0
Bit 3 (M Code 4)	0	0	0	0	0	0	0	1
START (M Code 5)	1	1	1	1	1	1	1	1

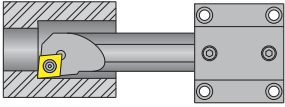
6. M-Fin Connection Cables. This cable is to be connected to the M-Fin terminal for the M-Codes. This is a safety feature that is recommended by Dorian Tool.



POWERDEX Installation Option 2: Interfacing directly into the CNC Controls of the CNC or Programmable Lathe. This requires PLC program modification in the PLC of the CNC Controls. Dorian Tool can provide sample PLC program with explanation. Also some wiring (encoder feedback, 2 proximity sensors, solenoid, 3 Phase AC Motor with Thermal Overload, and Brake) directly into the I/O board of the machine is necessary.

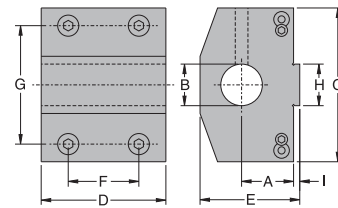


Milled Seat Boring Bar Holder



Tool Tips

This holder is best used for holding inch boring bars. It has a precision ground bore with a 360° locking system giving it the best rigidity in metal removing without scarring the bar. It also has a nozzle for directing coolant to the tool during machining.



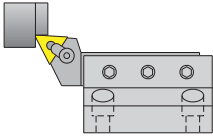
INCH Description	Part No. 733101-	A	B	C	D	E	F	G	H	I	Reference Milled Seat Tool Head
MSBH-16-100	12015	0.906	1.000	2.402	1.969	1.693	1.102	1.831	0.630	0.118	MS.50.S.08.750.190
MSBH-20-125	12025	1.024	1.250	2.913	2.362	2.126	1.339	2.244	0.787	0.118	MS.50.S.08.750.220 MS.63.S.08.750.220
MSBH-25-150	12030	1.181	1.500	3.622	2.953	2.283	1.693	2.795	0.984	0.118	MS.80.S.08.100.275
MSBH-32-200	12035	1.378	2.000	4.528	3.740	2.874	2.244	3.543	1.260	0.118	MS.100.S.08.125.350
MSBH-40-250	12040	1.575	2.500	5.591	4.921	3.346	3.031	4.370	1.575	0.118	MS.125.S.08.150.450

METRIC Description	Part No. 733101-	A	B	C	D	E	F	G	H	I	Reference Milled Seat Tool Head
MSBH-16-25	12050	23	25	61	50	43	28	46,5	16	3	MS.50.S.08.20.190
MSBH-20-32	12060	26	32	74	60	54	34	57	20	3	MS.50.S.08.20.220 MS.63.S.08.20.220
MSBH-25-40	12070	30	40	92	75	58	43	71	25	3	MS.80.S.08.25.275
MSBH-32-50	12080	35	50	115	95	73	57	90	32	3	MS.100.S.08.32.350
MSBH-40-60	12090	40	60	142	125	85	77	111	40	3	MS.100.S.08.32.350

Tooling not included

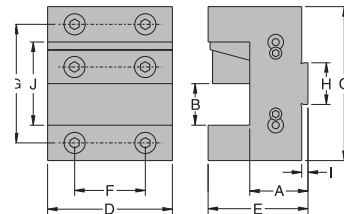


Milled Seat Face Tool Holder



Tool Tips

This holder is best used for holding toolholders in a facing application. A set screw locking system ensures that the tool is locked rigidly in the holder. It also has a nozzle for directing coolant to the tool during machining.



INCH Description	Part No. 733101-	A	B	C	D	E	F	G	H	I	J	Reference Milled Seat Tool Head
MSFH-20-75	12110	0.906	0.750	2.913	2.362	1.693	1.339	2.244	0.787	.128	1.575	MS.50.S.08.750.190 MS.50.S.08.750.220 MS.63.S.08.750.220
MSFH-25-100	12115	1.103	1.000	3.622	2.953	2.087	1.693	2.795	0.984	.128	1.969	MS.80.S.08.100.275
MSFH-32-125	12120	1.220	1.250	4.528	3.740	2.480	2.244	3.543	1.260	.128	2.520	MS.100.S.08.125.350
MSFH-40-150	12125	1.378	1.500	5.591	4.921	2.953	3.031	4.370	1.575	.128	3.150	MS.125.S.08.150.450

METRIC Description	Part No. 733101-	A	B	C	D	E	F	G	H	I	J	Reference Milled Seat Tool Head
MSFH-20-20	12140	23	20	74	60	43	34	57	20	3	40	MS.50.S.08.20.190 MS.50.S.08.20.220 MS.63.S.08.20.220
MSFH-25-25	12145	28	25	92	75	53	43	71	25	3	50	MS.80.S.08.25.275
MSFH-32-32	12150	31	32	115	95	63	57	90	32	3	64	MS.100.S.08.32.350
MSFH-40-40	12155	35	40	142	125	75	77	111	40	3	80	MS.125.S.08.40.450

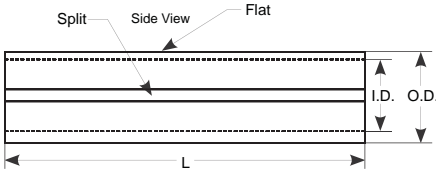
Tooling not included



Type A

Boring Bar Bushings Inch/Metric

Split-style design provides 360° surface area locking for maximum rigidity. They are made from Chromium-Molybdenum Alloy Steel, and are heat treated and precision ground for concentricity. Used for holding drills, reamers, small boring bars, and other round tools.



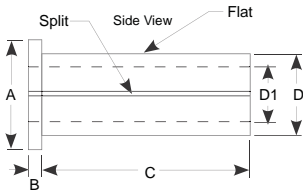
INCH Description	Part No. 733101-	O.D.	I.D.	L
D25-4B	03705	0.750	0.500	2.750
D30-4B	03707	1.000	0.750	3.250
D35-4B	03709	1.000	0.750	3.750
D40-4B	03711	1.250	1.000	4.500
D50-4B	03713	1.500	1.250	5.500
D60-4B	03715	2.000	1.500	6.500
D25-41B	03719	1.000	0.750	2.750
D30-41B	03721	1.250	1.000	3.250
D35-41B	03723	1.250	1.000	3.750
D40-41B	03725	1.500	1.250	4.500
D50-41B	03727	2.000	1.500	5.500
D60-41B	03729	2.500	2.000	6.500
D25-41SB	03733	1.250	1.000	3.000
D30-41SB	03735	1.500	1.250	3.500
D35-41SB	03737	1.500	1.250	4.000
D40-41SB	03739	2.000	1.500	4.500
D50-41SB	03741	2.500	2.000	6.500
D60-41SB	03743	3.000	2.500	7.000

METRIC Description	Part No. 733101-	O.D.	I.D.	L
D25-4BM	03747	20	12	69.85
D30-4BM	03749	25	20	82.55
D35-4BM	03751	25	20	95.25
D40-4BM	03753	32	25	114.30
D50-4BM	03755	40	32	139.70
D60-4BM	03757	50	40	165.10
D25-41BM	03761	25	20	69.85
D30-41BM	03763	32	25	82.55
D35-41BM	03765	32	25	95.25
D40-41BM	03767	40	32	114.30
D50-41BM	03769	50	40	139.70
D60-41BM	03771	60	50	165.10
D25-41SBM	03775	32	25	76.20
D30-41SBM	03777	40	32	88.90
D35-41SBM	03779	40	32	101.60
D40-41SBM	03781	50	40	114.30
D50-41SBM	03783	60	50	165.10
D60-41SBM	03785	80	60	177.80

Type B

Reducer Bushings Inch/Metric

Type B Reducer Bushings' split-style design provides 360° surface area locking for maximum rigidity. They are made from Chromium-Molybdenum Alloy Steel, and are heat treated and precision ground for concentricity. Used for holding drills, reamers, small boring bars, and other round tools.



INCH Description	Part No. 733101-	D1	A	B	C	D
THB75-25	93106	.250				
THB75-31	93107	.321				
THB75-38	93108	.375	1.00	0.25	1.50	0.75
THB75-50	93109	.500				
THB100-38	93110	.375				
THB100-50	93111	.500	1.25	0.25	1.75	1.00
THB100-62	93112	.625				
THB100-75	93113	.750				
THB125-38	93114	.375				
THB125-50	93115	.500				
THB125-62	93116	.625	1.50	0.25	2.00	1.25
THB125-75	93117	.750				
THB125-100	93118	1.00				
THB150-50	93119	.500				
THB150-62	93120	.625				
THB150-75	93121	.750	1.75	0.25	2.50	1.50
THB150-100	93122	1.00				
THB150-125	93123	1.25				
THB200-50	93124	.500				
THB200-62	93125	.625				
THB200-75	93126	.750				
THB200-100	93127	1.00	2.25	0.25	3.50	2.00
THB200-125	93128	1.25				
THB200-150	93129	1.50				
THB200-175	93130	1.75				
THB250-50	93131	.500				
THB250-62	93132	.625				
THB250-75	93133	.750				
THB250-100	93134	1.00				
THB250-125	93135	1.25	2.75	0.25	4.00	2.50
THB250-150	93136	1.50				
THB250-175	93137	1.75				
THB250-200	93138	2.00				
THB250-225	93139	2.25				

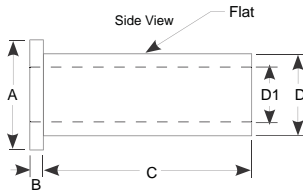
METRIC Description	Part No. 733101-	D1	A	B	C	D
THB20-6	93140	6				
THB20-8	93141	8				
THB20-10	93142	10	25,4	6,35	38,1	20
THB20-12	93143	12				
THB25-10	93144	10				
THB25-12	93145	12				
THB25-16	93146	16	38,1	6,35	44,5	25
THB25-20	93147	20				
THB32-10	93148	10				
THB32-12	93149	12				
THB32-16	93150	16	38,1	6,35	50,8	32
THB32-20	93151	20				
THB32-25	93152	25				
THB40-12	93153	12				
THB40-16	93154	16				
THB40-20	93155	20	44,5	6,35	63,5	40
THB40-25	93156	25				
THB40-32	93157	32				
THB50-12	93158	12				
THB50-16	93159	16				
THB50-20	93160	20	57,2	6,35	88,9	50
THB50-25	93161	25				
THB50-32	93162	32				
THB50-40	93163	40				
THB60-20	93164	20				
THB60-25	93165	25				
THB60-32	93166	32	69,9	6,35	127	60
THB60-40	93167	40				
THB60-45	93168	45				
THB60-50	93169	50				



Type LBF

Reducer Bushings Inch/Metric

Type LBF Reducer Bushings are designed with two set screws for clamping drills, boring bars, and round shank tools.



INCH Description	Part No. 733101-	D1	A	B	C	D
LBF125-0250	93215	0.250				
LBF125-0375	93216	0.375				
LBF125-0500	93217	0.500				
LBF125-0625	93218	0.625	1.50	.625	2.813	1.25
LBF125-0750	93219	0.750				
LBF125-0875	93220	0.875				
LBF125-1000	93221	1.000				
LBF150-0250	93222	0.250				
LBF150-0375	93223	0.375				
LBF150-0500	93224	0.500				
LBF150-0625	93225	0.625	1.75	.625	3.156	1.50
LBF150-0750	93226	0.750				
LBF150-0875	93227	0.875				
LBF150-1000	93228	1.000				
LBF150-1000	93229	1.250				
LBF200-0500	93230	0.500				
LBF200-0625	93231	0.625				
LBF200-0750	93232	0.750				
LBF200-0875	93233	0.875	2.25	.750	3.750	2.00
LBF200-1000	93234	1.000				
LBF200-1250	93235	1.250				
LBF200-1500	93236	1.250				

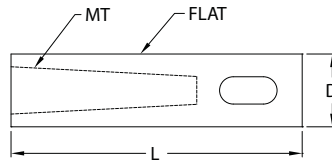
METRIC Description	Part No. 733101-	D1	A	B	C	D
LBF032-008	93238	08				
LBF032-010	93239	10				
LBF032-012	93240	12	38,1	15,88	71,45	32
LBF032-016	93241	16				
LBF032-020	93242	20				
LBF032-025	93243	25				
LBF040-010	93244	10				
LBF040-012	93245	12				
LBF040-016	93246	16	44,5	15,88	80,16	40
LBF040-020	93247	20				
LBF040-025	93248	25				
LBF040-032	93249	32				
LBF050-010	93250	10				
LBF050-012	93251	12				
LBF050-016	93252	16				
LBF050-020	93253	20	57,2	19,05	95,25	50
LBF050-025	93254	25				
LBF050-032	93255	32				
LBF050-040	93256	40				
LBF050-045	93257	45				

Type A

Morse Taper Bushings

The hardened, precision ground style A Morse Taper Bushing is held with set screws on flat surface, so it will never push back or turn, and is concentric within 0.0002".

These bushings fit directly into the toolholders and turrets to positively drive all morse taper shank tools, drills, reamers and counterbores.



INCH Description	Part No. 733101-	Morse Taper	D	L
MTB75-1-A	93197	MT1	0.75	1.500
MTB100-2-A	93198	MT2	1.00	3.750
MTB125-3-A	93199	MT3	1.25	4.000
MTB150-3-A	93200	MT3	1.50	5.000
MTB150-4-A	93201	MT4	1.50	5.750
MTB200-4-A	93202	MT4	2.00	6.125
MTB250-5-A	93203	MT5	2.50	7.375



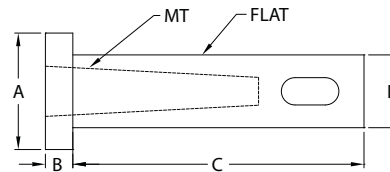
Type B

Morse Taper Bushings Inch/Metric

Style B Morse Taper Bushings are designed with a shoulder to ensure position stop and correct depth of the drilling operations and to provide safety for secondary operations, such as boring and reaming.

The hardened, precision ground bushing is held with set screws on flat surface, so it will never push back or turn, and is concentric within 0.0002".

These bushings fit directly into the toolholders and turrets to positively drive all morse taper shank tools, drills, reamers and counterbores.



INCH Description	Part No. 733101-	Morse Taper	A	B	C	D
MTB100-2-B	93174	MT2	1.25	0.63	3.13	1.00
MTB125-3-B	93179	MT3	1.50	0.00	4.00	1.25
MTB150-3-B	93180	MT3	1.75	0.63	4.38	1.50
MTB150-4-B	93184	MT4	1.75	1.38	4.38	1.50
MTB200-4-B	93185	MT4	2.25	0.63	5.50	2.00
MTB250-5-B	93187	MT5	2.75	0.63	7.00	2.50

METRIC Description	Part No. 733101-	Morse Taper	A	B	C	D
MTB25-2-B	93191	MT2	31,8	16,0	79,50	25
MTB32-3-B	93192	MT3	38,1	0,00	101,6	32
MTB40-3-B	93193	MT3	44,5	16,0	111,3	40
MTB40-4-B	93194	MT4	44,5	35,1	111,3	40
MTB50-4-B	93195	MT4	57,2	16,0	139,7	50
MTB65-5-B	93196	MT5	69,9	16,0	177,8	60

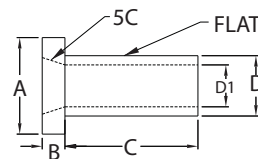


5C Collet Holder

Bushings Inch/Metric

5C Collet Holder Bushings are Flexible, versatile and reduce set-up time.

These bushings are used to adapt drills, reamers, counter bores, and end mills.



INCH Description	Part No. 733101-	A	B	C	D	D1
5CHB-150	93265	2.00	.50	3.13	1.50	1.250
5CHB-200	93266	2.50	.50	3.13	2.00	1.250
5CHB-250	93267	3.00	.50	3.13	2.50	1.250

METRIC Description	Part No. 733101-	A	B	C	D	D1
5CHB-040	93260	50,8	12,7	79,5	40	31,75
5CHB-050	93269	63,5	12,7	79,5	50	31,75
5CHB-060	93270	76,2	12,7	79,5	60	31,75





Precision ER Collets 11,16,20,25,32 Inch/Metric



- Maximum TIR -Standard: 0.0006
- Maximum TIR -High Precision: 0.0003
- Maximum Tightening Torque:20lbs.ft (27Nm)

Precision ER 11 Collets

Manufactured to DIN 6499 Specifications

- Size Range: 0.019"-0.275"; 0.5-7mm
- Grip Range: 0.019";0.5mm



Description	Part No. 733101-	Holding Capacity	
		Inch	Metric
ER11-STIMC-10	46236	0.019-0.039	0.5-1
ER11-STIMC-15	46237	0.039-0.059	1-1.5
ER11-STIMC-20	46238	0.059-0.078	1.5-2
ER11-STIMC-25	46239	0.078-0.098	2-2.5
ER11-STIMC-30	46240	0.098-0.118	2.5-3
ER11-STIMC-35	46241	0.118-0.137	3-3.5
ER11-STIMC-40	46242	0.137-0.157	3.5-4
ER11-STIMC-45	46243	0.157-0.177	4-4.5
ER11-STIMC-50	46244	0.177-0.197	4.5-5
ER11-STIMC-55	46245	0.197-0.216	5-5.5
ER11-STIMC-60	46246	0.216-0.236	5.5-6
ER11-STIMC-65	46247	0.236-0.255	6-5
ER11-STIMC-70	46248	0.255-0.275	6.5-7

Precision ER 16 Collets

Manufactured to DIN 6499 Specifications

- Size Range: 0.019"-0.393"; 0.5 - 10mm
- Grip Range: 0.019";0.5mm



Description	Part No. 733101-	Holding Capacity	
		Inch	Metric
ER16-STMC-10	46290	0.019-0.039	0.5-1
ER16-STMC-20	46291	0.039-0.078	1-2
ER16-STMC-30	46292	0.098-0.118	2-3
ER16-STMC-40	46293	0.118-0.157	3-4
ER16-STMC-50	46294	0.157-0.197	4-5
ER16-STMC-60	46295	0.197-0.236	5-6
ER16-STMC-70	46296	0.236-0.275	6-7
ER16-STMC-80	46297	0.275-0.314	7-8
ER16-STMC-90	46298	0.314-0.354	8-9
ER16-STMC-100	46299	0.354-0.393	9-10

Precision ER 32 Collets

Manufactured to DIN 6499 Specifications

- Size Range: 0.078"-0.787"; 2-20mm
- Grip Range: 0.078"; 2mm



Description	Part No. 733101-	Holding Capacity	
		Inch	Metric
ER32-STIMC-30	46522	0.078-0.118	2-3
ER32-STIMC-35	46523	0.098-0.137	3-3.5
ER32-STIMC-40	46524	0.098-0.157	3-4
ER32-STIMC-50	46525	0.157-0.197	4-5
ER32-STIMC-60	46526	0.197-0.236	5-6
ER32-STIMC-70	46527	0.236-0.275	6-7
ER32-STIMC-80	46528	0.275-0.314	7-8
ER32-STIMC-90	46529	0.314-0.354	8-9
ER32-STIMC-100	46530	0.354-0.393	9-10
ER32-STIMC-110	46531	0.393-0.433	10-11
ER32-STIMC-115	46532	0.433-0.452	11.5-12
ER32-STIMC-120	46533	0.433-0.472	11-12
ER32-STIMC-130	46534	0.472-0.511	12-13
ER32-STIMC-140	46535	0.511-0.551	13-14
ER32-STIMC-150	46536	0.551-0.590	14-15
ER32-STIMC-160	46537	0.590-0.629	15-16
ER32-STIMC-170	46538	0.629-0.669	16-17
ER32-STIMC-180	46539	0.669-0.708	17-118
ER32-STIMC-190	46540	0.708-0.748	18-19
ER32-STIMC-195	46541	0.748-0.768	19-19.5
ER32-STIMC-200	46542	0.748-0.787	19-120



ER Collet Straight Holder Inch/Metric

Description	Part No. 733101-	Size	Specifications			
			Collet Series	Collet Range	Collet Holder	Gage Length
CCER11-0500-500	45773	in	ER11	.019-0.275	0.500	6.11
CCER11-M012-100	49807	metric		0.5-7	12.0	125.0
CC ER11-0750-500	45775	in		.019-0.275	0.750	6.11
CCER11-M020-100	49827	metric		0.5-7	20.0	125.0
CCER16-0750-500	45777	in	ER16	0.019-0.409	0.750	6.28
CCER16-M020-100	49813	metric		0.5-10	20.0	157.0
CCER16-1000-500	45778	in		0.019-0.409	1.000	6.28
CCER16-M025-100	49815	metric		0.5-10	25.0	157.0
CCER32-1000-500	45785	in	ER32	0.078-0.787	1.000	6.85
CCER32-M025-100	49837	metric		2.0-20	25.0	167.00
CCER32-1250-500	45786	in		0.078-0.787	1.250	6.85
CCER32-M032-120	49841	metric		2.0-20	32.0	167.00

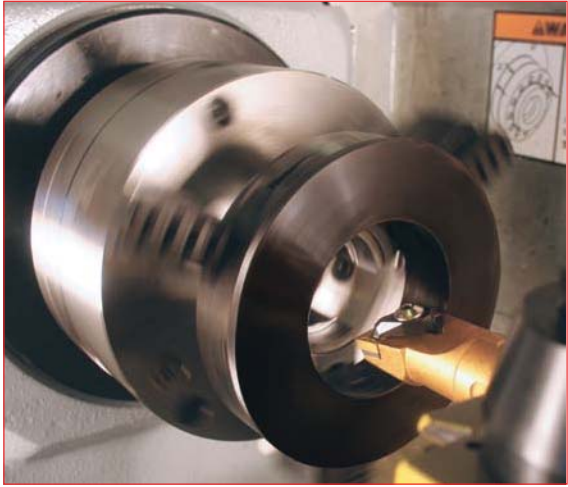




TruJaws® Soft Jaw Machining Adapter

Re-machine soft top jaws on power and manual chucks to improve machining quality and productivity.

- Minimum stock removal
- Perfect concentricity & squareness of jaw
- Maximum rigidity of jaws
- Replaces thousands of rings and spiders



Working Principle

TruJaws chuck adapter is designed to hold the soft top jaws in a positive position while being remachined.

The TruJaws operation is based on the principle of a manual chuck.

The scroll gear opens and closes the pronged jaws, giving infinite adjustment for machining any required diameter.

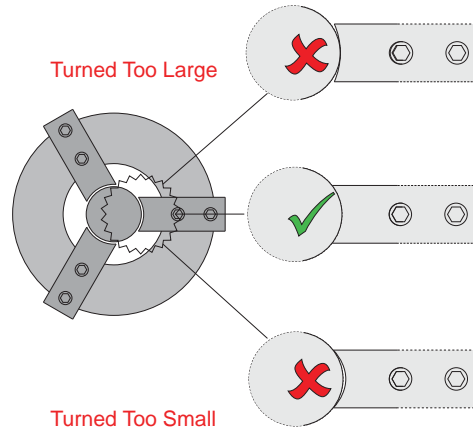
For maximum capability of the TruJaws adapter, the jaws are reversible.

Trouble Shooting

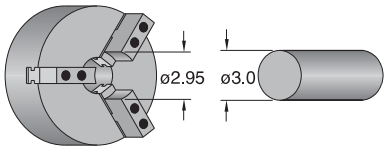
The chuck jaw diameter is **turned too large**, causing the jaws to hold the part with only the inside edge. This reduces the holding pressure and can mar the part surface.

Chuck jaws are **turned to the correct diameter**, so that the part is held with the maximum surface area. This increases the holding force and reduces marring of the part surface.

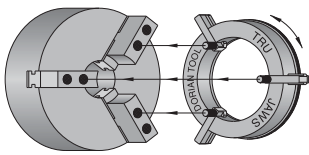
The chuck jaw diameter is **turned too small**, causing the jaws to hold the part with only the outside edges. This reduces the holding pressure and can mar the part surface.



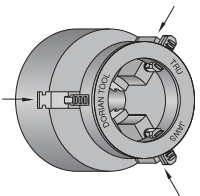
Using the TruJaws® is easy and requires very few steps



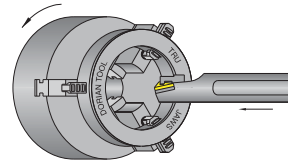
(1) Set the jaws for the required job. The diameter of the jaws must be set smaller than the part diameter.



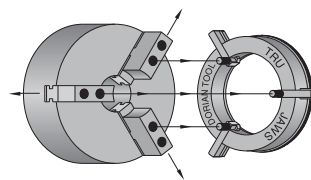
(2) Adjust the TruJaws to fit into the bolt holes of the soft jaws. Then, rotate the body of the TruJaws until snug, pulling the jaws rigid in the opposite direction of the clamping force (away from the part to be held).



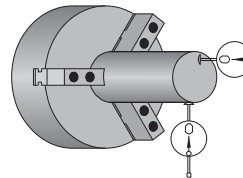
(3) Lock the chuck. Jaws must be locked in the direction of the part to be held. The soft jaws will then be held rigidly by the TruJaws as if holding the part.



(4) Machine the diameter desired. The bore diameter must be precise with the diameter of the part to be held.

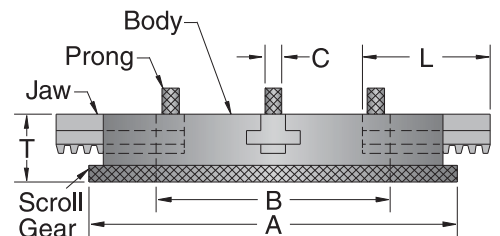


(5) Remove the TruJaws. Unlock the chuck opposite to the locking direction.



(6) Chuck the part. If these steps are followed correctly, the part will be true within .0002" T.I.R.

TruJaws® Soft Jaw Machining Adapter Technical Specifications:												
UPC No. 733101-	Desc.	Thick T	Weight		Prong Dia. C	Max. Boring Range B	Min. Outside Range A	Length of Jaws L	Chuck Range	Max. Load Capacity		Max. RPM Use
			Lbs	Kg						Lbs	Kg	
03540	TJP47-3	1.250	12	5,40	.500	3.250	6.125	3.00	UP-8"	8,000	3,360	900
03542	TJP52-3	1.750	28	12,7	.750	6.625	10.625	4.75	8-14"	20,000	9,070	600
03544	TJP57-3	1.750	43	19,5	.750	11.50	16.000	4.75	14-26"	15,000	6,800	250





The CNC Marker will replace punches, hammers, presses and secondary operations!

You can stamp numbers, letters, and logos onto any material on your Manual or CNC Machine. Automatic Stamping Eliminates Secondary Operations & Labor Costs.



Shank Sizes
• .75" and 1.0" Diameters

Sealed Against Chips & Coolant
The CNC Marker is sealed to protect against chips and coolant to ensure smooth performance and long tool life.

Internal Inertia System
Advancing the CNC Marker into the work piece charges and launches the internal inertia system, which triggers the movement of the marking head. There is absolute zero recoil due to the advanced dampening system.

Adjustable Force
The depth of marking is adjustable by the clockwise or counterclockwise rotation of the outer body, which increases or decreases the depth for various materials and hardnesses.

Two Models
Available in two models, the DKN-10 series and the DKN-15 series.

Steel Stamp
• Industry Standard
• Wide Character Range
• Up To (25) Character Capacity
• .062" (1.5mm) to 0.250" (6mm) Character Height

Steel Stamp Holder
• Multi-Character Marking
• Uniform Marking Depth
• Accurate Stamp Location
• Positive Locking
• Rapid Changeability
• Accepts Blank Spacers

Safety Pins
Safety pins for the steel stamps assure that the steel stamps never come loose during operation when the CNC Marker is used on a CNC machine.



The CNC Marker is a mechanical multi-character marking tool, engineered to operate in conjunction with Manual Machines or CNC Machining Centers and CNC Turning Centers.

The CNC Marker is easy, simple, and quick to set-up and safe to operate. The CNC Marker can be utilized for single piece marking to high-production marking operations.

The compact design of The CNC Marker makes the tool easy to install in the tool magazine of a CNC Machining Center or CNC Turning Center without interference with the machine components or the workpiece.

The accessibility of having The CNC Marker tooling up in the machine facilitates marking the workpiece while still in the machine, eliminating secondary operations as well as expensive stamping machines and operators.

The CNC Marker is available in two models, the DKN-10 series with a maximum steel stamp capacity of 15 and the DKN-15 series with a maximum steel stamp capacity of 25.

The CNC Marker is loaded in the CNC Machining Center's spindle or the CNC Turning Center's turret, then aligned and positioned on the workpiece.

There is zero recoil due to the advanced dampening system.

The marking depth is adjustable by the clockwise or counterclockwise rotation of the outer body, which increases or decreases the depth for various materials and hardness.

Safety pins for the steel stamp will assure that the steel stamps never come loose during operation when The CNC Marker is used on the CNC machine.

The Stamp Holder provides accurate stamp location, positive locking, and durability with rapid steel stamp changeability.

The Stamp Holder accepts industry standard steel stamps with character heights from .062" (1.5mm) to 0.250" (6mm).

The application of The CNC Marker is not limited to CNC Machining Centers and Turning Centers.

The CNC Marker can be used in conjunction with virtually any Manual Turning, Milling, or Drilling Machines, as well.



The CNC Marker Working Principle:

Step 1:

Move (rapid) the CNC Marker towards the workpiece until the stamps make contact with the surface to be marked.



Step 2:

From the position where the CNC Marker makes contact with the workpiece, advance the CNC Marker into the workpiece by a certain distance called "loading stroke" which is specified in the instructions manual of the CNC Marker.



Step 3:

At the end of the "loading stroke", the spring loaded mechanism of the CNC Marker triggers and stamps the workpiece. Do not advance the CNC Marker into the workpiece after stamping.



Step 4:

Retract the CNC Marker up. It automatically re-charges itself and at this point is ready for the next stamp.



CNC Marker's Compact Design and Light Weight allows for use in:

CNC Lathe



CNC Vertical Machining Center



CNC Horizontal Machining Center



Drill Press



CNC Marker Stores in Machine's Tool Magazine for Automatic Tool Change*

Carrousel



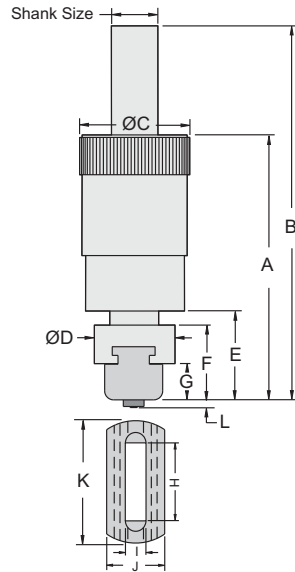
Side Mount - Vertical



Side Mount - Horizontal



*Check machine's tool magazine specifications for maximum size & weight for tool storage & automatic tool change.



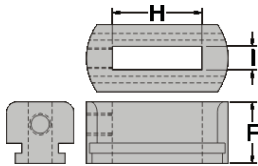
- Adjustable Force
- Absolute Zero Recoil
- Interchangeable Stamping Head
- Uniform & Consistant Stamp Depth and Pattern
- Easy Loading & Unloading of Stamps
- Industry Standard Steel Stamps with a Notch

CNC Marker - Spring Loaded Mechanical Marking Device															
UPC 733101-	Description	Shank in	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	L in	Weight (lbs)
35003	DKN-10-075	3/4	7.425	5.300	2.500	1.625	1.395	1.090	0.480	0.955	0.251	1.062	2.080	0.200	3.5
35021	DKN-15-100	1	9.900	7.500	3.550	2.235	2.055	0.460	0.485	1.520	0.251	1.250	2.700	0.200	9.5

Special Heads: with custom logos, website addresses, emails, non-standard characters can be quoted and made for specific applications. Call or email us for more information.

Single & Double Row Stamping Head

- Quick change feature for faster change over
- Accepts standard steel types
- Accomodates special stamps



Single & Double Row Stamping Head								
UPC 733101-	Description	F		H		I		Max. Capacity
		in	mm	in	mm	in	mm	
Single Row Stamping Head								
35052	DKN-10HD-1-250	.650	16,5	0.965	24,5	.252	6,4	15
35060	DKN-15HD-1-250	.650	16,5	1.575	40,0	.252	6,4	25
35063	DKN-15HD-1-375	.525	13,3	1.575	40,0	.377	9,6	25
Double Row Stamping Head								
35053	DKN-10HD-2-250	.650	16,5	0.965	24,5	.504	12,8	2 x 15
35061	DKN-15HD-2-250	.650	16,5	1.575	40,0	.504	12,8	2 x 50

Caution: Depending on the material, marking depth may deteriorate as more marking characters are used and / or larger character sizes are used because more marking force is required.

Quadra® Indexing Tool Post		
Description	Part No. 733101-	Page
Quadra® Indexing Tool Post		
QITP25N	00000	15
QITP30N	00002	15
QITP35N	00004	15
QITP40N	00006	15
QITP50N	00008	15
QITP60N	00010	15
Quadra® Indexing Toolholders		
Turning & Facing Toolholder		
QITP25N-1	00100	18
QITP30N-1	00250	18
QITP35N-1	00400	18
QITP40N-1	00550	18
QITP50N-1	00700	18
QITP60N-1	00850	18
Turning , Facing & Boring Toolholder		
QITP25N-2	00104	18
QITP30N-2	00254	18
QITP35N-2	00404	18
QITP40N-2	00554	18
QITP50N-2	00704	18
QITP60N-2	00854	18
Turning & Facing EXTENDED Toolholder		
QITP25N-3R	00106	18
QITP30N-3R	00256	18
QITP35N-3R	00406	18
QITP40N-3R	00556	18
QITP50N-3R	00706	18
QITP60N-3R	00856	18
Heavy Duty Boring Bar Toolholder		
QITP25N-4-CNC	00110	19
QITP25N-4M-CNC	00112	19
QITP30N-4-CNC	00260	19
QITP30N-4M-CNC	00262	19
QITP35N-4-CNC	00410	19
QITP35N-4M-CNC	00412	19
QITP40N-4-CNC	00560	19
QITP40N-4M-CNC	00562	19
QITP50N-4-CNC	00710	19
QITP50N-4M-CNC	00712	19
QITP60N-4-CNC	00860	19
QITP60N-4M-CNC	00862	19
EXTRA HD Boring Bar Toolholder		
QITP25N-41-CNC	00114	19
QITP25N-41M-CNC	00116	19
QITP30N-41-CNC	00264	19
QITP30N-41M-CNC	00266	19
QITP35N-41-CNC	00414	19
QITP35N-41M-CNC	00416	19
QITP40N-41-CNC	00564	19
QITP40N-41M-CNC	00566	19
QITP50N-41-CNC	00714	19
QITP50N-41M-CNC	00716	19
QITP60N-41-CNC	00864	19
QITP60N-41M-CNC	00866	19
SUPER Oversized Boring Bar Toolholder		
QITP35N-41-150-CNC	00418	19
QITP35N-41M-40-CNC	00420	19
QITP40N-41-200-CNC	00568	19
QITP40N-41M-50-CNC	00570	19
QITP50N-41-250-CNC	00718	19
QITP50N-41M-60-CNC	00720	19
QITP60N-41-300-CNC	00868	19
QITP60N-41M-80-CNC	00870	19
EXTRA HD Boring Bar Toolholder		
QITP35N-41-COL	00456	20
QITP40N-41-COL	00604	20
QITP50N-41-COL	00746	20
QITP60N-41-COL	00896	20
SUPER Oversized Boring Bar Toolholder		
QITP35N-41-150-COL	00458	20
QITP40N-41-200-COL	00606	20
QITP50N-41-250-COL	00748	20
QITP60N-41-300-COL	00898	20

Quadra® Indexing Toolholders		
Description	Part No. 733101-	Page
Morse Taper Toolholder		
QITP25N-5-2	00122	20
QITP30N-5-3	00272	20
QITP35N-5-4	00424	20
QITP40N-5-4	00572	20
QITP50N-5-5	00722	20
QITP60N-5-5	00872	20
Extra Heavy Duty Cut-Off Blade Toolholder		
QITP25N-7-71C	00126	21
QITP30N-7-71C	00276	21
QITP35N-7-71C	00426	21
QITP40N-7-71C	00576	21
QITP50N-7-71C	00726	21
QITP60N-7-71C	00876	21
Oversized HD Cut-Off Blade Toolholder		
QITP25N-71-26	00128	21
QITP30N-71-26	00278	21
QITP35N-71-32	00430	21
QITP40N-71-32	00578	21
O.D. & I.D. Threading Toolholder		
QITP25N-881-OE	00132	23
QITP25N-881-LD	00133	23
QITP30N-881-OE	00282	23
QITP30N-881-LD	00283	23
QITP35N-881-OE	00434	23
QITP35N-881-LD	00435	23
QITP40N-881-OE	00582	23
QITP40N-881-LD	00583	23
Knurling Toolholder		
QITP25N-10	00134	24
QITP30N-10	00284	24
QITP35N-10	00436	24
QITP40N-10	00584	24
Drill Chuck Toolholder		
QITP25N-35	00140	24
QITP30N-35	00290	24
QITP35N-35	00442	24
QITP40N-35	00590	24
5C Collet Toolholder		
QITP25N-36	00142	25
QITP30N-36	00292	25
QITP35N-36	00444	25
QITP40N-36	00592	25
Quadra® First Time Buyer SET		
QITP25N-FTB	00056	25
QITP30N-FTB	00058	25
QITP35N-FTB	00060	25
QITP40N-FTB	00062	25
Quadra® Turning SET		
QITP25N-TS	00014	26
QITP30N-TS	00015	26
QITP35N-TS	00016	26
QITP40N-TS	00017	26
QITP50N-TS	00018	26
QITP60N-TS	00019	26
Quadra® Standard SET		
QITP25N-INSS	00020	26
QITP30N-INSS	00021	26
QITP35N-INSS	00022	26
QITP40N-INSS	00023	26
QITP50N-INSS	00024	26
QITP60N-INSS	00025	26
SUPER Quick Change Tool Post		
SDN25AXA	01000	32
SDN30BXA	01002	32
SDN35CXA	01004	32
SDN40CA	01006	32
SDN50DA	01008	32
SDN60EA	01010	32

SUPER Quick Change Toolholders		
Description	Part No. 733101-	Page
Turning & Facing Toolholder		
D25AXA-1	01100	33
D25AXA-1MS	01101	33
D30BXA-1	01250	33
D30BXA-1MS	01251	33
D35CXA-1	01400	33
D35CXA-1MS	01401	33
D40CA-1	01550	33
D40CA-1MS	01551	33
D50DA-1	01700	33
D50DA-1MS	01701	33
D60EA-1	01850	33
D60EA-1MS	01851	33
Turning , Facing & Boring Toolholder		
D25AXA-2	01104	33
D25AXA-2MS	01105	33
D30BXA-2	01254	33
D30BXA-2MS	01255	33
D35CXA-2	01404	33
D35CXA-2MS	01405	33
D40CA-2	01554	33
D40CA-2MS	01555	33
D50DA-2	01704	33
D50DA-2MS	01705	33
D60EA-2	01854	33
D60EA-2MS	01855	33
Heavy Duty Boring Bar Toolholder		
D25AXA-4-CNC	01110	33
D25AXA-4M-CNC	01112	33
D30BXA-4-CNC	01260	33
D30BXA-4M-CNC	01262	33
D35CXA-4-CNC	01410	33
D35CXA-4M-CNC	01412	33
D40CA-4-CNC	01560	33
D40CA-4M-CNC	01562	33
D50DA-4-CNC	01710	33
D50DA-4M-CNC	01712	33
D60EA-4-CNC	01860	33
D60EA-4M-CNC	01862	33
EXTRA HD Boring Bar Toolholder		
D25AXA-41-CNC	01114	34
D25AXA-41M-CNC	01116	34
D30BXA-41-CNC	01264	34
D30BXA-41M-CNC	01266	34
D35CXA-41-CNC	01414	34
D35CXA-41M-CNC	01416	34
D40CA-41-CNC	01564	34
D40CA-41M-CNC	01566	34
D50DA-41-CNC	01714	34
D50DA-41M-CNC	01716	34
D60EA-41-CNC	01864	34
D60EA-41M-CNC	01866	34
SUPER Oversized Boring Bar Toolholder		
D35CXA-41-150-CNC	01418	34
D35CXA-41M-40-CNC	01420	34
D40CA-41-200-CNC	01568	34
D40CA-41M-50-CNC	01570	34
D50DA-41-250-CNC	01718	34
D50DA-41M-60-CNC	01720	34
D60EA-41-300-CNC	01868	34
D60EA-41M-80-CNC	01870	34
EXTRA HD Boring Bar Toolholder		
D35CXA -41-COL	01460	34
D40CA-41-COL	01608	34
D50DA-41-COL	01752	34
D60EA -41-COL	01896	34
SUPER Oversized Boring Bar Toolholder		
D35CXA-41-150-COL	01462	35
D40CA-41-200-COL	01610	35
D50DA-41-250-COL	01754	35
D60EA-41-300-COL	01898	35
Morse Taper Toolholder		
D25AXA-5-2	01122	35
D30BXA-5-3	01272	35
D35CXA-5-4	01424	35
D40CA-5-4	01572	35
D50DA-5-5	01722	35
D60EA-5-5	01872	35

SUPER Quick Change Toolholders		
Description	Part No. 733101-	Page
Extra HD Cut-Off Blade Toolholder		
D25AXA-7-71C	01126	35
D30BXA-7-71C	01276	35
D35CXA-7-71C	01428	35
D40CA-7-71C	01576	35
D50DA-7-71C	01726	35
D60EA-7-71C	01876	35
Oversized HD Cut-Off Blade Toolholder		
D25AXA-71-26	01128	35
D30BXA-71-26	01278	35
D35CXA-71-32	01430	35
D40CA-71-32	01578	35
O.D. & I.D. Threading Toolholder		
D25AXA-881-OE	01132	37
D25AXA-881-LD	01133	37
D30BXA-881-OE	01282	37
D30BXA-881-LD	01283	37
D35CXA-881-OE	01434	37
D35CXA-881-LD	01435	37
D40CA-881-OE	01582	37
D40CA-881-LD	01583	37
Knurling Toolholder		
D25AXA-10	01134	38
D30BXA-10	01284	38
D35CXA-10	01436	38
D40CA-10	01584	38
Drill Chuck Toolholder		
D25AXA-35	01140	38
D30BXA-35	01290	38
D35CXA-35	01442	38
D40CA-35	01590	38
5C Collet Toolholder		
D25AXA-36	01142	39
D30BXA-36	01292	39
D35CXA-36	01444	39
D40CA-36	01592	39
SUPER Quick Change First Time Buyer SET		
SDN25AXA-FTB	01056	39
SDN30BXA-FTB	01058	39
SDN35CXA-FTB	01060	39
SDN40CA-FTB	01062	39
SUPER Quick Change Turning SET		
SDN25AXA-TS	01014	40
SDN30BXA-TS	01015	40
SDN35CXA-TS	01016	40
SDN40CA-TS	01017	40
SDN50DA-TS	01018	40
SDN60EA-TS	01019	40
SUPER Quick Change Standard SET		
SDN25AXA-INSS	01020	40
SDN30BXA-INSS	01021	40
SDN35CXA-INSS	01022	40
SDN40CA-INSS	01023	40
SDN50DA-INSS	01024	40
SDN60EA-INSS	01025	40
Victory™ Thru Coolant Tool Post		
V25tc	04200	49
V30tc	04201	49
V35tc	04202	49
V40tc	04203	49
V50tc	04204	49
V60tc	04205	49
Victory™ Thru Coolant Toolholders		
Turning & Facing Toolholder		
V25tc-1	04210	50
V30tc-1	04230	50
V35tc-1	04250	50
V40tc-1	04270	50
V50tc-1	04290	50
V60tc-1	04305	50
Turning , Facing & Boring Toolholder		
V25tc-2	04211	50
V30tc-2	04231	50
V35tc-2	04251	50
V40tc-2	04271	50
V50tc-2	04291	50
V60tc-2	04306	50

Victory™ Thru Coolant Toolholders		
Description	Part No. 733101-	Page
Heavy Duty Boring Bar Toolholder		
V25tc-4-CNC	04212	50
V25tc-4M-CNC	04213	50
V30tc-4-CNC	04232	50
V30tc-4M-CNC	04233	50
V35tc-4-CNC	04252	50
V35tc-4M-CNC	04253	50
V40tc-4-CNC	04272	50
V40tc-4M-CNC	04273	50
V50tc-4-CNC	04292	50
V50tc-4M-CNC	04293	50
V60tc-4-CNC	04307	50
V60tc-4M-CNC	04308	50
EXTRA Heavy Duty Boring Bar Toolholder		
V25tc-41-CNC	04214	51
V25tc-41M-CNC	04215	51
V30tc-41-CNC	04234	51
V30tc-41M-CNC	04235	51
V35tc-41-CNC	04254	51
V35tc-41M-CNC	04255	51
V40tc-41-CNC	04274	51
V40tc-41M-CNC	04275	51
V50tc-41-CNC	04294	51
V50tc-41M-CNC	04295	51
V60tc-41-CNC	04309	51
V60tc-41M-CNC	04310	51
SUPER Oversized Boring Bar Toolholder		
V35tc-41-150-CNC	04256	51
V35tc-41M-40-CNC	04257	51
V40tc-41-200-CNC	04276	51
V40tc-41M-50-CNC	04277	51
V50tc-41-250-CNC	04296	51
V50tc-41M-60-CNC	04297	51
V60tc-41-300-CNC	04311	51
V60tc-41M-80-CNC	04312	51
EXTRA Heavy Duty Boring Bar Toolholder		
V35tc-41-COL	04264	51
V40tc-41-COL	04284	51
V50tc-41-COL	04300	51
V60tc-41-COL	04315	51
SUPER Oversized Boring Bar Toolholder		
V35tc-41-150-COL	04266	52
V40tc-41-200-COL	04286	52
V50tc-41-250-COL	04302	52
V60tc-41-300-COL	04317	52
Morse Taper Toolholder		
V25tc-5-2	04218	52
V30tc-5-3	04238	52
V35tc-5-4	04258	52
V40tc-5-4	04278	52
V50tc-5-5	04298	52
V60tc-5-5	04313	52
Extra Heavy Duty Cut-Off Blade Toolholder		
V25tc-7-71C	04219	52
V30tc-7-71C	04239	52
V35tc-7-71C	04259	52
V40tc-7-71C	04279	52
V50tc-7-71C	04299	52
V60tc-7-71C	04314	52
O.D. & I.D. Threading Toolholder		
V25tc-881-OE	04220	54
V25tc-881-LD	04228	54
V30tc-881-OE	04240	54
V30tc-881-LD	04248	54
V35tc-881-OE	04260	54
V35tc-881-LD	04268	54
V40tc-881-OE	04280	54
V40tc-881-LD	04288	54
Knurling Toolholder		
V25tc-10	04221	55
V30tc-10	04241	55
V35tc-10	04261	55
V40tc-10	04281	55

Victory™ Thru Coolant Toolholders		
Description	Part No. 733101-	Page
Drill Chuck Toolholder		
V25tc-35	04222	56
V30tc-35	04242	56
V35tc-35	04262	56
V40tc-35	04282	56
5C Collet Toolholder		
V25tc-36	04223	56
V30tc-36	04243	56
V35tc-36	04263	56
V40tc-36	04283	56
Victory™ Thru Coolant Turning SET		
V25tc-TS	04184	57
V30tc-TS	04185	57
V35tc-TS	04186	57
V40tc-TS	04187	57
V50tc-TS	04188	57
V60tc-TS	04189	57
Victory™ Thru Coolant Standard SET		
V25tc-INSS	04174	57
V30tc-INSS	04175	57
V35tc-INSS	04176	57
V40tc-INSS	04177	57
V50tc-INSS	04178	57
V60tc-INSS	04179	57

Internal Threading Bar For Toolholder No. 881		
NL50R	03661	23/37/54
NL75R	03663	23/37/54
NL125R	03665	23/37/54
NL50L	03669	23/37/54
NL75L	03671	23/37/54
NL125L	03673	23/37/54

On Edge Threading Insert For Toolholder No. 881		
TNMC-32NV-	72003	23/37/54
TNMC-32NV-	72004	23/37/54

Laydown Threading Insert For Toolholder No. 881			
11IR-A60	74056	74057	23/37/54
16IR-A60	74064	74065	23/37/54
16IR-G60	74072	74073	23/37/54
16IR-AG60	74080	74081	23/37/54
22IR-N60	74088	74089	23/37/54
11IL-A60	74060	74061	23/37/54
16IL-A60	74068	74069	23/37/54
16IL-G60	74076	74077	23/37/54
16IL-AG60	74084	74085	23/37/54
22IL-N60	74092	74093	23/37/54

Knurling Wheels For Toolholder 10			
SS-16-HSB-CP	26839	24/38/55	
SS-20-HSB-CP	26841	24/38/55	
SS-25-HSB-CP	26843	24/38/55	
SS-30-HSB-CP	26845	24/38/55	
SDR-16-HSB-CP	26961	24/38/55	
SDR-20-HSB-CP	26963	24/38/55	
SDR-25-HSB-CP	26965	24/38/55	
SDR-30-HSB-CP	26967	24/38/55	
SDL-16-HSB-CP	27085	24/38/55	
SDL-20-HSB-CP	27087	24/38/55	
SDL-25-HSB-CP	27089	24/38/55	
SDL-30-HSB-CP	27091	24/38/55	
AS-16-HSB-CP	23541	24/38/55	
AS-20-HSB-CP	23543	24/38/55	
AS-25-HSB-CP	23545	24/38/55	
AS-30-HSB-CP	23547	24/38/55	
ADR-16-HSB-CP	23673	24/38/55	
ADR-20-HSB-CP	23675	24/38/55	
ADR-25-HSB-CP	23677	24/38/55	
ADR-30-HSB-CP	23679	24/38/55	
ADL-16-HSB-CP	23805	24/38/55	
ADL-20-HSB-CP	23807	24/38/55	
ADL-25-HSB-CP	23809	24/38/55	
ADL-30-HSB-CP	23811	24/38/55	

Slot Grip Cut-Off Blades		
Description	Part No. 733101-	Page
Slot Grip Cut-Off Blades		
SGIH19-2	62950	22/36/53
SGIH26-2	62951	22/36/53
SGIH26-3	62952	22/36/53
SGIH26-4	62953	22/36/53
SGIH26-5	62954	22/36/53
SGIH26-6	62955	22/36/53
SGIH32-3	62956	22/36/53
SGIH32-4	62957	22/36/53
SGIH32-5	62958	22/36/53
SGIH32-6	62959	22/36/53
SGIH32-8	62960	22/36/53
SGIH32-9	62961	22/36/53

Cut-Off & Grooving Inserts			
GRADE -	DASK25	DC656	
SGTN-2	82223	82222	22/36/53
SGTR-2-8	82251	82250	22/36/53
SGTL-2-8	82279	82278	22/36/53
SGTN-3	82227	82226	22/36/53
SGTR-3-8	82255	82254	22/36/53
SGTL-3-8	82283	82282	22/36/53
SGTN-4	82231	82230	22/36/53
SGTR-4-8	82259	82258	22/36/53
SGTL-4-8	82287	82286	22/36/53
SGTN-5	82235	82234	22/36/53
SGTR-5-8	82263	82262	22/36/53
SGTL-5-8	82291	82290	22/36/53
SGTN-6	82239	82238	22/36/53
SGTR-6-8	82267	82266	22/36/53
SGTL-6-8	82295	82294	22/36/53
SGTN-8	82243	82242	22/36/53
SGTR-8-8	82271	82270	22/36/53
SGTL-8-8	82299	82298	22/36/53
SGTN-9	82247	82246	22/36/53
SGTR-9-8	82275	82274	22/36/53
SGTL-9-8	82303	82302	22/36/53

Quick Change FLAT Base		
DQCFB-20N	03120	58
DQCFB-25N	03122	58
DQCFB-30N	03124	58
DQCFB-35N	03126	58
DQCFB-40N	03128	58
DQCFB-50N	03130	58
DQCFB-60N	03132	58
Quick Change Base		
DQCB-20N	03100	58
DQCB-25N	03102	58
DQCB-30N	03104	58
DQCB-35N	03106	58
DQCB-40N	03108	58
DQCB-50N	03110	58
DQCB-60N	03112	58

Victory™ CNC Quick Change Gang Tool		
V25CNCgt-075-6-I	04351	62
V25CNCgt-020-6-M	04322	62
V30CNCgt-075-6-I	04352	62
V30CNCgt-020-6-M	04324	62
V35CNCgt-100-7-I	04355	62
V35CNCgt-025-7-M	04326	62
V40CNCgt-100-7-I	04358	62
V40CNCgt-025-7-M	04328	62
V25CNCgt-075-9-I	04350	63
V25CNCgt-020-9-M	04330	63
V30CNCgt-075-9-I	04353	63
V30CNCgt-020-9-M	04333	63
V35CNCgt-100-10-I	04356	63
V35CNCgt-025-10-M	04336	63
V40CNCgt-100-10-I	04359	63
V40CNCgt-025-10-M	04339	63

Victory™ CNC Quick Change Gang Toolholders		
Description	Part No. 733101-	Page
Double Turning & Facing Toolholder		
V2530CNCgt-TF-062-I	04370	65
V2530CNCgt-TF-16-M	04371	65
V3540CNCgt-TF-100-I	04400	65
V3540CNCgt-TF-25-M	04401	65
Compact Round Tool Boring Bar Holder		
V2530CNCgt-B1-050-I	04372	66
V2530CNCgt-B1-12-M	04373	66
V3540CNCgt-B1-075-I	04402	66
V3540CNCgt-B1-20-M	04403	66
V2530CNCgt-B2-050-I	04374	66
V2530CNCgt-B2-12-M	04375	66
V3540CNCgt-B2-075-I	04404	66
V3540CNCgt-B2-20-M	04405	66
V2530CNCgt-B3-050-I	04376	66
V2530CNCgt-B3-12-M	04377	66
V3540CNCgt-B3-075-I	04406	66
V3540CNCgt-B3-20-M	04407	66
Modular Toolholder Base		
V2530CNCgt-MTB	04378	67
V3540CNCgt-MTB	04408	67
Modular Turning & Facing Toolholder		
V2530CNCgt-MSTH-062-016	04379	67
V3540CNCgt-MSTH-100-025	04409	67
V2530CNCgt-MMTH-062-016	04381	67
V3540CNCgt-MMTH-100-025	04411	67
V2530CNCgt-MLTH-062-016	04383	67
V3540CNCgt-MLTH-100-025	04413	67
Modular Cut-off & Grooving Toolholder		
V2530CNCgt-MSCO-19	04385	68
V3540CNCgt-MSCO-26	04415	68
V2530CNCgt-MSCO-19	04386	68
V3540CNCgt-MSCO-26	04416	68
V2530CNCgt-MSCO-19	04387	68
V3540CNCgt-MSCO-26	04417	68
Victory™ CNC Quick Change Gang Tool SET		
V35CNCgt-100-10IK	04491	69
V35CNCgt-025-10MK	04481	69
V40CNCgt-100-10IK	04492	69
V40CNCgt-025-10MK	04482	69

NVIT Manual Turret		
NVIT8-50	07505	75
NVIT8-58	07510	75
NVIT8-75	07515	75
NVIT8-100	07520	75
NVIT8-125	07525	75
NVIT Manual Turret Toolholders		
BBH12-1	07600	76
BBH16-1	07602	76
BBH20-1	07604	76
BBH25-1	07606	76
BBH32-1	07608	76
BBH12-075-2	07620	76
BBH16-100-2	07622	76
BBH20-125-3	07644	76
BBH25-150-3	07646	76
BBH32-200-2	07628	76
BBH12-20-2	07680	76
BBH16-25-2	07682	76
BBH20-32-3	07704	76
BBH25-40-3	07706	76
BBH32-50-2	07688	76
FTH12-2	07740	76
FTH16-2	07742	76
FTH20-3	07760	76
FTH25-3	07762	76
FTH32-2	07748	76

POWERDEX Automated CNC Turret		
Description	Part No. 733101-	Page
POWERDEX Automated CNC Turret		
PDEX50N.08	11011	79
PDEX63N.08	11021	79
PDEX80N.08	11031	79
PDEX100N.08	11041	79
PDEX125N.08	11051	79
Milled Seat Turret Head		
MS.050.S.08.750.190	11508	80
MS.050.S.08.750.220	11510	80
MS.063.S.08.750.220	11512	80
MS.080.S.08.100.275	11514	80
MS.100.S.08.125.350	11516	80
MS.125.S.08.150.450	11520	80
MS.050.S.08.20.190	11568	80
MS.050.S.08.20.220	11570	80
MS.063.S.08.20.220	11572	80
MS.080.S.08.25.275	11574	80
MS.100.S.08.32.350	11576	80
MS.125.S.08.40.450	11580	80
Milled Seat Boring Bar Holder		
MSBH-16-100	12015	82
MSBH-20-125	12025	82
MSBH-25-150	12030	82
MSBH-32-200	12035	82
MSBH-40-250	12040	82
MSBH-16-25	12050	82
MSBH-20-32	12060	82
MSBH-25-40	12070	82
MSBH-32-50	12080	82
MSBH-40-60	12090	82
Milled Seat Face Toolholders		
MSFH-20-75	12110	83
MSFH-25-100	12115	83
MSFH-32-125	12120	83
MSFH-40-150	12125	83
MSFH-20-20	12140	83
MSFH-25-25	12145	83
MSFH-32-32	12150	83
MSFH-40-40	12155	83

Precision ER Collets		
Description	Part No. 733101-	Page
ER11, ER16 ER		
ER11-STIMC-10	46236	86
ER11-STIMC-15	46237	86
ER11-STIMC-20	46238	86
ER11-STIMC-25	46239	86
ER11-STIMC-30	46240	86
ER11-STIMC-35	46241	86
ER11-STIMC-40	46242	86
ER11-STIMC-45	46243	86
ER11-STIMC-50	46244	86
ER11-STIMC-55	46245	86
ER11-STIMC-60	46246	86
ER11-STIMC-65	46247	86
ER11-STIMC-70	46248	86
ER16-STMC-10	46290	86
ER16-STMC-20	46291	86
ER16-STMC-30	46292	86
ER16-STMC-40	46293	86
ER16-STMC-50	46294	86
ER16-STMC-60	46295	86
ER16-STMC-70	46296	86
ER16-STMC-80	46297	86
ER16-STMC-90	46298	86
ER16-STMC-100	46299	86

Precision ER Collets			
Description	Part No. 733101-	Page	
ER 32 Inch/Metric			
ER32-STIMC-30	46522	86	
ER32-STIMC-35	46523	86	
ER32-STIMC-40	46524	86	
ER32-STIMC-50	46525	86	
ER32-STIMC-60	46526	86	
ER32-STIMC-70	46527	86	
ER32-STIMC-80	46528	86	
ER32-STIMC-90	46529	86	
ER32-STIMC-100	46530	86	
ER32-STIMC-110	46531	86	
ER32-STIMC-115	46532	86	
ER32-STIMC-120	46533	86	
ER32-STIMC-130	46534	86	
ER32-STIMC-140	46535	86	
ER32-STIMC-150	46536	86	
ER32-STIMC-160	46537	86	
ER32-STIMC-170	46538	86	
ER32-STIMC-180	46539	86	
ER32-STIMC-190	46540	86	
ER32-STIMC-195	46541	86	
ER32-STIMC-200	46542	86	

ER Collet Straight Holder		
ER11, ER16, ER32		
CCER11-0500-500	45773	87
CCER11-M012-100	49807	87
CC ER11-0750-500	45775	87
CCER11-M020-100	49827	87
CCER16-0750-500	45777	87
CCER16-M020-100	49813	87
CCER16-1000-500	45778	87
CCER16-M025-100	49815	87
CCER32-1000-500	45785	87
CCER32-M025-100	49837	87
CCER32-1250-500	45786	87
CCER32-M032-120	49841	87

Bushings			
Type A Boring Bar Bushings inch			
D25-4B	03705	84	
D30-4B	03707	84	
D35-4B	03709	84	
D40-4B	03711	84	
D50-4B	03713	84	
D60-4B	03715	84	
Type A Boring Bar Bushings metric			
D25-41B	03719	84	
D30-41B	03721	84	
D35-41B	03723	84	
D40-41B	03725	84	
D50-41B	03727	84	
D60-41B	03729	84	
D25-41SB	03733	84	
D30-41SB	03735	84	
D35-41SB	03737	84	
D40-41SB	03739	84	
D50-41SB	03741	84	
D60-41SB	03743	84	

Bushings		
Description	Part No. 733101-	Page
Type A Boring Bar Bushings metric		
D25-4BM	03747	84
D30-4BM	03749	84
D35-4BM	03751	84
D40-4BM	03753	84
D50-4BM	03755	84
D60-4BM	03757	84
D25-41BM	03761	84
D30-41BM	03763	84
D35-41BM	03765	84
D40-41BM	03767	84
D50-41BM	03769	84
D60-41BM	03771	84
D25-41SBM	03775	84
D30-41SBM	03777	84
D35-41SBM	03779	84
D40-41SBM	03781	84
D50-41SBM	03783	84
D60-41SBM	03785	84
Type B Reducer Bushings Inch		
THB75-25	93106	84
THB75-31	93107	84
THB75-38	93108	84
THB75-50	93109	84
THB100-38	93110	84
THB100-50	93111	84
THB100-62	93112	84
THB100-75	93113	84
THB125-38	93114	84
THB125-50	93115	84
THB125-62	93116	84
THB125-75	93117	84
THB125-100	93118	84
THB150-50	93119	84
THB150-62	93120	84
THB150-75	93121	84
THB150-100	93122	84
THB150-125	93123	84
THB200-50	93124	84
THB200-62	93125	84
THB200-75	93126	84
THB200-100	93127	84
THB200-125	93128	84
THB200-150	93129	84
THB200-175	93130	84
THB250-50	93131	84
THB250-62	93132	84
THB250-75	93133	84
THB250-100	93134	84
THB250-125	93135	84
THB250-150	93136	84
THB250-175	93137	84
THB250-200	93138	84
THB250-225	93139	84
Type B Reducer Bushings metric		
THB20-6	93140	84
THB20-8	93141	84
THB20-10	93142	84
THB20-12	93143	84
THB25-10	93144	84
THB25-12	93145	84
THB25-16	93146	84
THB25-20	93147	84
THB32-10	93148	84
THB32-12	93149	84
THB32-16	93150	84
THB32-20	93151	84
THB32-25	93152	84

Bushings		
Description	Part No. 733101-	Page
Type B Reducer Bushings metric		
THB40-12	93153	84
THB40-16	93154	84
THB40-20	93155	84
THB40-25	93156	84
THB40-32	93157	84
THB50-12	93158	84
THB50-16	93159	84
THB50-20	93160	84
THB50-25	93161	84
THB50-32	93162	84
THB50-40	93163	84
THB60-20	93164	84
THB60-25	93165	84
THB60-32	93166	84
THB60-40	93167	84
THB60-45	93168	84
THB60-50	93169	84
Type LBF Reducer Bushings Inch		
LBF125-0250	93215	85
LBF125-0375	93216	85
LBF125-0500	93217	85
LBF125-0625	93218	85
LBF125-0750	93219	85
LBF125-0875	93220	85
LBF125-1000	93221	85
LBF150-0250	93222	85
LBF150-0375	93223	85
LBF150-0500	93224	85
LBF150-0625	93225	85
LBF150-0750	93226	85
LBF150-0875	93227	85
LBF150-1000	93228	85
LBF150-1000	93229	85
LBF200-0500	93230	85
LBF200-0625	93231	85
LBF200-0750	93232	85
LBF200-0875	93233	85
LBF200-1000	93234	85
LBF200-1250	93235	85
LBF200-1500	93236	85
Type LBF Reducer Bushings metric		
LBF032-008	93238	85
LBF032-010	93239	85
LBF032-012	93240	85
LBF032-016	93241	85
LBF032-020	93242	85
LBF032-025	93243	85
LBF040-010	93244	85
LBF040-012	93245	85
LBF040-016	93246	85
LBF040-020	93247	85
LBF040-025	93248	85
LBF040-032	93249	85
LBF050-010	93250	85
LBF050-012	93251	85
LBF050-016	93252	85
LBF050-020	93253	85
LBF050-025	93254	85
LBF050-032	93255	85
LBF050-040	93256	85
LBF050-045	93257	85
Type A Morse Taper Bushings Inch		
MTB75-1-A	93197	85
MTB100-2-A	93198	85
MTB125-3-A	93199	85
MTB150-3-A	93200	85
MTB150-4-A	93201	85
MTB200-4-A	93202	85
MTB250-5-A	93203	85

Bushings		
Description	Part No. 733101-	Page
Type B Morse Taper Bushings Inch		
MTB100-2-B	93174	85
MTB125-3-B	93179	85
MTB150-3-B	93180	85
MTB150-4-B	93184	85
MTB200-4-B	93185	85
MTB250-5-B	93187	85

Type B Morse Taper Bushings metric		
MTB25-2-B	93191	85
MTB32-3-B	93192	85
MTB40-3-B	93193	85
MTB40-4-B	93194	85
MTB50-4-B	93195	85
MTB65-5-B	93196	85

5 C Collet Holder Bushing Inch		
5CHB-150	93265	85
5CHB-200	93266	85
5CHB-250	93267	85

5 C Collet Holder Bushing Inch		
5CHB-040	93260	85
5CHB-050	93269	85
5CHB-060	93270	85

Soft Jaw Machaning Adapter		
TruJaws®		
TJP47-3	03540	88
TJP52-3	03542	88
TJP57-3	03544	88

CNC Marker		
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Catalog	Quantity	Catalog	Quantity
<p>Tool Guide for Everyday Machining Vol.No 3</p>  <p>Our most current Volume will be sent to you. Products offered per volume may vary depending on demand and featured items.</p> <p>Inside this Tool Guide You will find High Performance cutting tools, inserts and machine tool accessories for every day machining. Additionally this catalog will give you an excellent overview of our complete line of tooling.</p>		<p>NEW 2011 Jet-Stream Thru Coolant System Vol.No 3</p>  <p>Dorian Tool's Jet-Stream™ Thru Coolant Cutting Tools use a patented thru-coolant locking clamp which is precisely aimed to direct high pressure, high velocity coolant exactly onto the cutting edge of the carbide insert, from a short distance of 1/4"(6mm). This catalog offers a vast range Jet-Stream™ Thru Coolant Cutting Tools for Turning, Boring and Threading applications.</p>	
<p>NEW 2011 Turning & Boring Cutting Tools & Inserts</p>  <p>Dorian Tool offers a complete selection of indexable cutting tools. Our wide variety of Turning, Boring tools and inserts provide solutions for all your Turning, Facing, Boring, Chamfering, I.D. & O.D. Profiling, Chuck Work and Between Center Work Machining Operations.</p> <p><i>For Milling, Cut-off and Drilling Indexable Tools see our 2003 Indexable catalog online.</i></p>		<p>NEW 2011 Threading, Grooving & API Cutting Tools & Inserts</p>  <p>Dorian Tool offers a complete selection of indexable cutting tools. Our wide variety of Turning, Boring, threading tools and inserts provide solutions for all your Turning, Facing, Boring, Chamfering, I.D. & O.D. Profiling, Chuck Work and Between Center Work Machining Operations.</p>	
<p>2008 CNC Adjustable Angle Heads</p>  <p>Choose from two styles (Universal and 90°) and six models for any milling, drilling, tapping and face milling operations. The Universal CNC Adjustable Angle Heads have two positioning axes and are offered in ER25 and ER32 collet toolholding systems. The use of the Universal CNC Adjustable Angle Heads increases productivity and quality by eliminating secondary operations and the need for more expensive 4th & 5th axis rotary tables. The 90° CNC Adjustable Angle Heads have one positioning axis and are offered in ER16, ER25 and ER32 collet toolholding systems as well as CAT/ISO/BT 40 taper toolholding system.</p>		<p>2007 knurling Tools & Wheels</p>  <p>Dorian Tool offers a wide range of knurling tools to cover most knurling applications. Since the introduction of Dorian's modular knurling tool system, knurling has never been easier. The knurl tools range from cutting to forming a knurling pattern. The cutting style knurl tools have revolutionized knurling. It is faster and requires less pressure to create a knurl over forming. A wide range of knurl wheel pitches are also available.</p>	
<p>2006 Perfetta Live Centers & Bull Nose</p>  <p>These live centers, which have already been recognized throughout the rest of the industrial world as the most precise live centers ever built, are now available to the American machine tool industry. Designed for turning on a CNC lathe or for use on a CNC grinding machine, the Perfetta™ Live Center has over 50 years of proven workmanship. Where speed, precision and dependability are the requirements, these tools guarantee quality and performance.</p>		<p>NEW Lathe Accessories Catalog</p>  <p>With a full line of Victory Automatic Thru Coolant, Super Quick Change and Quadra™ Indexing Quick Change tool posts and holders as well as manual, electro-pneumatic, and electro-mechanical turrets, Dorian Tool has all that is needed to improve efficiency on both manual and CNC lathes. In addition, the Dorian Tru-Jaws system makes for easy remachining of soft jaws.</p> <p>This catalog replaces all three Dorian Tool post catalogs as well as the 2005 MTA (Machine Tool Accessories) catalog.</p>	
<p>Swiss Screw Machine Tools and Advanced Technology Catalog</p>  <p>Featuring Jet-Stream™ Thru Coolant System for Turning, Threading and Cut-off Toolholders. Designed for Swiss Screw Machines. This catalog will be available in a U.S.A. and European Version.</p>		<p>COMING SOON in 2011/2012</p> <p>Indexable Turning Grooving And Parting-Off Toolholders Catalog For CNC and Manual Lathes</p>  <p>Featuring Jet-Stream™ Thru Coolant System, multi-application tools, modular face grooving system, and high performance inserts.</p> <p>COMING SOON in 2011/2012</p>	



Sales Policy

Conditions of Sale: All sales are made in accordance with our standard conditions of sale, current at the time orders are accepted. Specifications and prices are subject to change without notice.

Terms of Payment: Standard payment terms for all products is (1% 10 Net 30 days) upon credit approval. Dorian reserves the right to hold shipments or to ship on a C.O.D. basis, any orders received from any purchaser whose account is delinquent. Invoices not paid timely are subject to 1.5% interest per month, not to exceed 18%. However, purchasers who default on terms agreed upon, Dorian reserves the right to add collection and/or attorney fees to the total amount of the invoice or total amount of all invoices. No order will be processed if any invoices are over 45 days old. All taxes, duties, or other expenses arising out of, or in connection with the sale of product shall be the sole liability of purchaser.

No Minimum Order: There will be a \$5.00 handling fee for orders drop shipped with a value under \$50.00 net.

Delivery Terms: F.O.B. East Bernard, Texas. All shipments are made by regular UPS, Parcel Post, or truck. Full transportation costs will be charged to the buyer. Specify shipment to be made by other than regular means of transportation.

Defective Product Claim: If within 30 days from shipping date, customer claims that product is defective and requires an immediate replacement, a distributor can issue a purchase order for a new product and return the defective product to Dorian for inspection. Upon inspection, if the product is found to be defective a credit will be issued for the replacement. If the product is not found to be defective, an invoice will be issued for the replacement. Freight to and from Dorian will be at the customer's expense.

Claims: Any claim discrepancies in shipments are to be made within 7 days of receipt of merchandise. Any in transit claim for damaged and lost goods must be made against the transportation company only. The foregoing shall constitute the sole and exclusive remedies of the customer and are in lieu of all other warranties, expressed, implied, or statutory, including but not limited to any implied warranty of merchantability or fitness.

Satisfaction Guaranteed: If you are not fully satisfied with a Dorian product, simply return it within 30 days of shipping date and you will receive full CREDIT if the merchandise is received in resalable condition.

Product Limited Warranty: Dorian extends to the purchaser for resale, use in their own business, or original equipment manufacturing, a limited warranty, that products made by DORIAN will be free from any defects in material and workmanship for one year after the date of purchase when used under normal intended applications. No other guarantee is made by this policy, nor does it apply to any product which has been altered, misused, or used in applications other than its normal intended use. Request for a Return Goods Authorization (RGA) number from Dorian and return freight pre-paid to Dorian any part or product which is determined by Dorian to be defective in material or workmanship will be repaired or replaced at Dorian's option.

Special Product Quotations: All special product quotations are valid for thirty days from the date of quotation unless otherwise specified. Orders for special products must be confirmed in writing before manufacturing can begin, along with payment for 50% of the quoted price, with the remaining 50% to be paid upon delivery of the special products. Special products and non-stock standard products cannot be canceled or returned for exchange or credit.

Cancellations: Customer may not cancel or modify any purchase order once a purchase order has been expressly accepted by Dorian, unless (a) customer has given Dorian reasonable notice to stop work, (b) customer pays for all work -in-progress and any raw materials or supplies used or consumed by Dorian in connection with the order, at the time work is stopped (or for which commitments have been made by Dorian at such time) in connection with the order (c) customer pays all costs and expenses otherwise incurred by Dorian in connection with the order, and (d) customer pays a cancellation charge of fifteen percent (15%) of the initial quoted price.

Returns: Return undamaged product within 30 days of the ship date, if the merchandise is received in resalable condition you will receive full CREDIT on your account,- Product(s) returned after 30 days but prior to 90 days after the ship date is subject to a 20% restocking fee.- Unless otherwise specified, no material will be accepted for returned after 90 days of the ship date.- If the Distributor or End User, within 30 days of the ship date, claims a product is defective and needs immediate replacement, the customer must place a new order, and a RMA number will be issued for the defective product. The Distributor will be advised upon completion of inspection if credit will be issued.- Any product returned for repair, under warranty or warranty expired, will not be accepted without a RMA number.- Customer will be advised of any charges before repairs are made.- All returns must be authorized by Dorian Tool with a official RMA number.- Dorian Tool does not constitute acceptance of the product when a RMA number is issued.- The RMA number must be visible on the outside of the box and a copy of the RMA form must be placed inside the original box along with the returned product.- Any package received without an official RMA number visible on the outside of the box will be refused and returned to the sender at their expense.- The customer is responsible for the freight to and from Dorian Tool.- **NO PRODUCT WILL BE ACCEPTED FOR RETURN WHEN RECEIVED IN NON-RESALABLE CONDITION.** This includes, but is not limited to: damaged packages, non Dorian labels and marking, missing parts, cosmetic damages, used and/or obsolete product(s).- Quality Control must inspect and accept product before credit will be issued.- RMAs are processed daily by RMA Service Center at X 260.- RMA numbers are valid for 30 days from the date is issued. All product(s) requested for return must be received by Dorian Tool within 30 days of the RMA date.- In the event the RMA is denied, the customer has 30 days from the date of notification to respond with shipping instructions for their product. If shipping instructions are not provided by the customer within 30 days from the RMA denial notification, the product will be disposed at the customers expense.- By writing the RMA number on the outside of the box and shipping product to Dorian against this number constitutes acceptance of Dorian's terms and conditions.

Conditions, terms and specifications are subject to change without notice.

Any typographical error in any printing matter is subject to correction.



Fontana Liri Italy

U.S.A., Corporate Headquarters and Manufacturing Plant
Dorian Tool International, Inc.

615 County Rd 219, East Bernard, TX 77435 U.S.A.
Phone: 979-282-2861 Fax: 979-282-2951
E-Mail: Sales@doriantool.com
Visit: www.doriantool.com

México, Grupo Mecausa de Maquinas y Herramientas S. A. de C.V.

Col. San Javier, Guerrero No.58 Tlalnepantla, Estado de Mexico C.P.54030
Telf.: 55 5362 3257, Telf.: 55 5362 8245, Movil.: 55 5366 0533
Fax.: 55 5362 2262
E-Mail: Sales@mecausa.com

Germany, Am Scheessberg 23 53343 Wachtberg Germany

Tel +49(0)2225 704381 Fax+49(0)2225 704382
Mobil +49(0)1796739098DE 1207143913
E-Mail: pheumueller@doriantool.com

Canada, Minicut International, Inc.

11100 L-H Lafontaine Blvd., Montreal, QC H1J 2Y5, Canada
Phone 514-352-6464 or 800-800-2011
Fax 514-352-6644
Email: International@minicut.com

Italy, International Minicut Italia s.r.l.

Via Abigale Zanetta 59 00143 Roma Italy
Tel: 011 39 06 519 63476 Fax: 011 39 06 519 63350
Mobil: 011 39 337 78 2009
E-Mail: int.minicutitalia@minicut.com



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