

2020/2021

# GLOBAL CNC

"We are the original Manufacturer"

**GLOBAL CNC INDUSTRIES, LTD.**



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# Technical Information

1. **Manufactured in Pure Michigan!** All Bolt-on Tool Blocks, Toolholder Bushings and VDI Tooling are manufactured by Global CNC Industries, Ltd. At Company Headquarters located in Plymouth, Michigan.
2. **All Holders are made from Alloy Steel – Raw Bar Stock:** Precision Machined and Ground: and coated with a Black Oxide Finish for long-lasting protection.
3. **All Toolholders are Inspected 100% by Global CNC's Inspection Department** according to ISO 9001/2000 Certification Standards. Superior Quality!
4. **Our Holders are Built to Last!** Made from premium Alloy Steel – never a cast material.
5. **We Guarantee our Quality!** Precision Ground using extensive Fixturing Systems. Bolt Hole Pattern to ID or OD Concentricity to perfection.
6. **Bushings:** All Bushings are made to inch OD and inch ID specifications. If you need Metric: simply specify – most available in Stock too! Made from Alloy Steel and Precision Ground concentric. Entire Portfolio designed to fit most machines. Case Hardened 48-52. Rc.
7. **Bolt-on Tool Blocks:** Global CNC manufactures the Finest Lathe mounting Blocks available. These are the Blocks that mount directly to the Turret with typically 4 Bolts. Blocks are specific to each Turret: simply advise us of your Machine Make and Model and Bolt Hole Pattern and we will match the correct base configuration. We Guarantee the Blocks to Fit your Machine: no matter how Old or New your machine may be. All Blocks are made as a Standard – and Priced as a Standard – since they are all made individually. Should you have a design that you do not see offered: simply ask our Customer Service Department and they would be pleased to Quote the items to you – priced as Standard based on the Material Cost and Machining Costs. All Blocks are made from Alloy Steel and are Precision Ground using Fixtures.
8. **Live VDI Tooling:** Global CNC manufactures our own Brand of Live Tooling made in Michigan: for BMT45, BMT55 and BMT65 Turrets. We offer both Straight and Right-angle Styles. ER32, External Coolant and 6,000 rpm. We use only superior Precision Angular Contact Bearings.
9. **Live VDI Tooling Repair:** Guaranteed Repair of your Live Tooling to New performance Standards. We Repair all makes and models of Live Tooling.
10. **Static VDI Toolholders:** Global CNC offers a complete Line of DIN 69880 Face Mounted VDI Holders. A Complete Line of OD Peripheral Mounted VDI Holders. Nakamura VDI Holders. Mazak VDI Holders, SQT VDI, Integrex VDI, Multi-plex VDI, Hyperquadrex VDI and Emco Style VDI Holders.
11. **Custom Precision Machining:** Global CNC is a Quality Precision Machine Job Shop performing all types of Custom Precision Machining. Whether your requirement is for one Prototype Part or for several thousand-part runs; we will machine all size projects.

***We Are the Manufacturer!***

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BUSHING

VDI: DIN 69880

PERIPHERAL VDI

MAZAK

NAKAMURA

BACK SPOTFACERS

DRIVEN VDI

TOOL BLOCKS

TURRET WEDGES

NEW PRODUCTS





# POLICY AND PROCEDURES

## 1. **GUARANTEE / SERVICE:**

The products are guaranteed 100% to be free from defect in material and workmanship. Defective products will be replaced at no charge. We guarantee our Toolholders for two years from cracking or breaking. However, items that have been misused, abused, accidentally damaged or where alterations have been made will not be guaranteed.

## 2. **DELIVERY:**

All merchandise will be shipped FOB, Global CNC, Plymouth, MI., 48170. We ship via UPS unless otherwise specified. All merchandise will be shipped same day as order placement for stock items. All orders will be shipped as complete as possible with non-stock items being backordered.

## 3. **MINIMUM ORDERS:**

Global CNC does not have a minimum order requirement.

## 4. **DROP SHIPMENTS:**

There will be no additional charge for any order requesting drop shipments.

## 5. **PRICES:**

Prices are guaranteed at time of order. Prices are subject to change without notice.

## 6. **SPECIALS:**

Specials are priced per quote. All special products are non-returnable and non-cancelable once the order is placed.

## 7. **TERMS:**

All first orders ship C.O.D. or Prepayment. Approved accounts are Net 30 days. Past due accounts, over 45 days, will be placed on Credit Hold and the order will not ship until the account is up to date. Delinquent accounts will be subject to C.O.D. terms.

## 8. **CLAIMS / SHORTAGES / SHORT SHIPMENTS:**

Claims, shortages or short shipments must be reported within 3 days after receipt of merchandise. Packaging must be retained for damaged goods inspection.

## 9. **RETURNS / RESTOCKING CHARGES:**

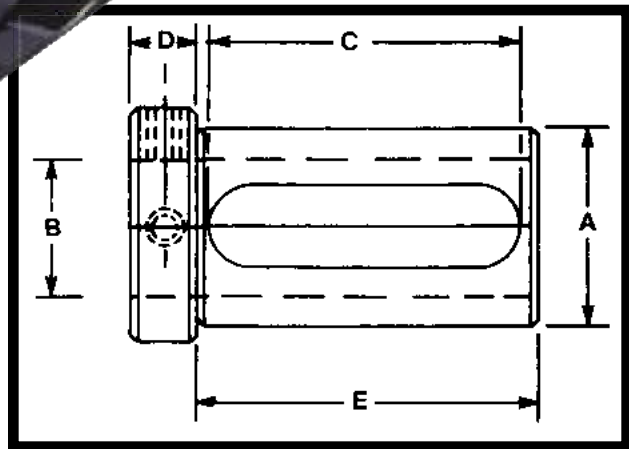
All returns must be authorized and accompanied by an RGA number issued by Global CNC and shipped prepaid. We will accept standard item returns within 30 days of order shipment as long as the items have not been used. If the error was our responsibility, there will be no restocking charge. All other returns will be subject to a restocking charge. All authorized returns must be packed properly in the original packing material. Any damages will be charged to the customer. Credit cannot be issued for returned material if it has been marked, altered or used.





# Toolholder Bushing Type “Z”

The most flexible Toolholder Bushing for all types of CNC Turning Centers, Turret Lathes and Chuckers. The Elongated Slot gives the user a complete interchangeability with all brands of equipment. The added Set Screws in the Head allow for increased rigidity. The bushings are hardened and precision ground concentric. Can also be used for Preset Tooling. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		LENGTH OF SLOT			HEAD THICKNESS	LENGTH UNDER HEAD		
	A		B		C			D	E		
	INCH	MM	INCH	MM	ZS	Z	ZL		ZS	Z	ZL
CNC 86-40Z	3/4	20	1/4, 5/16, 3/8, 1/2	6, 8, 10, 12		2 3/8		1/2		2 1/2	
CNC 86-41Z	1	25	1/4, 5/16, 3/8, 1/2, 5/8, 3/4	8, 10, 12, 16, 20		2 3/8		1/2		2 3/4	
CNC 86-42Z	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	1 7/8	2 5/8	3 1/8	5/8	2 1/4	3	3 3/4
CNC 86-43Z	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	2 1/8	2 7/8	3 5/8	3/4	2 1/2	3 1/4	4
CNC 86-44Z	1 3/4	45	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	2 3/8	3 1/8	3 7/8	3/4	2 3/4	3 1/2	4 1/4
CNC 86-45Z	2	50	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40, 45	2 5/8	3 1/2	4 1/8	3/4	3	3 3/4	4 1/2
CNC 86-46Z	2 1/2	65	5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4	16, 20, 25, 32, 40, 45, 50	3 1/8	3 7/8	4 5/8	3/4	3 1/2	4 1/4	5
CNC 86-47Z	3	80	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2	25, 32, 40, 50, 60, 65	3 3/8	4 3/8	5 3/8	3/4	3 3/4	4 3/4	5 3/4
CNC 86-48Z	3 1/2	90	1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	32, 40, 50, 60, 65	3 7/8	4 7/8	5 7/8	1	4 1/2	5 1/2	6 1/2
CNC 86-49Z	4	100	1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	40, 50, 60, 65, 80	4 3/8	5 5/8	7 1/8	1	5	6 1/4	7 1/2

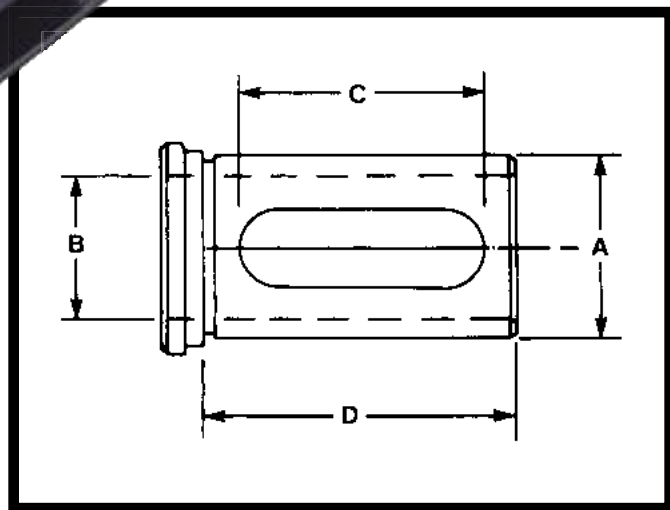
\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.



# Toolholder Bushing Type “C”

This CNC Type C Bushing is designed for universal use on all C/N/C turning machines. To adapt a wide variety of Boring Bars, Drills, Reamers and Shank type tools. Precision machine hardened and ground concentric; made in the U.S.A. – BUILT TO LAST! Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		LENGTH OF SLOT C	LENGTH UNDER HEAD D	NUMBER OF SLOTS
	A		B				
	INCH	MM	INCH	MM			
CNC 86-10C	3/4	20	1/4, 5/16, 3/8, 1/2	6, 8, 10, 12	1 1/2	2	1
CNC 86-11C	1	25	1/4, 5/16, 3/8, 1/2, 5/8, 3/4	8, 10, 12, 16, 20	2 3/8	2 3/4	1
CNC 86-12C	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	2 3/4	3 1/4	1
CNC 86-13C	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	3	3 3/8	1
CNC 86-14C	1 3/4	45	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	3 1/8	3 1/2	1
CNC 86-15C	2	50	1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40, 45	3 5/8	4	1
CNC 86-16C	2 1/2	65	3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4	20, 25, 32, 40, 45, 50	4 1/8	4 1/2	1 or 2*
CNC 86-17C	3	80	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2	25, 32, 40, 45, 50, 60, 65	4 5/8	5	1 or 2*
CNC 86-18C	3 1/2	90	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	25, 32, 40, 45, 50, 60, 65	5	5 3/4	1 or 2*

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

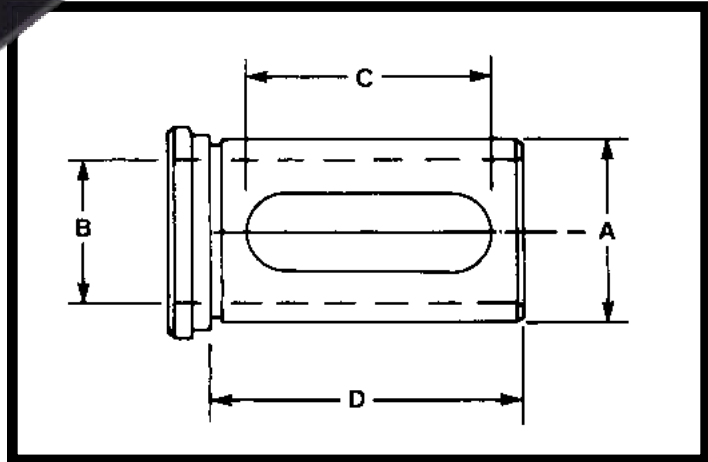
\*Bushings 2 1/2 OD and larger: ID's larger than 1 1/2" have 2 slots.

\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D. when ordering.



# Toolholder Bushing Type “CS” Short Series

Introducing the “all new” CNC Type CS Bushing designed for universal use on all CNC Turning machines. The Bushings are hardened & precision ground concentric. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		LENGTH OF SLOT C	LENGTH UNDER HEAD D
	A		B			
	INCH	MM	INCH	MM		
CNC 86-10CS	3/4	20	1/4, 5/16, 3/8, 1/2	6, 8, 10, 12	1 1/8	1 1/2
CNC 86-11CS	1	25	1/4, 5/16, 3/8, 1/2, 5/8, 3/4	8, 10, 12, 16, 20	1 3/8	1 3/4
CNC 86-12CS	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	1 3/4	2 1/8
CNC 86-13CS	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	2 1/8	2 1/2
CNC 86-14CS	1 3/4	45	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	2 5/8	3
CNC 86-15CS	2	50	1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40, 45	3	3 1/2
CNC 86-16CS	2 1/2	65	3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4	20, 25, 32, 40, 45, 50	3 1/2	4
CNC 86-17CS	3	80	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2	25, 32, 40, 45, 50, 60, 65	4 1/8	4 1/2
CNC 86-18CS	3 1/2	90	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	25, 32, 40, 45, 50, 60, 65	4 3/4	5 1/4

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

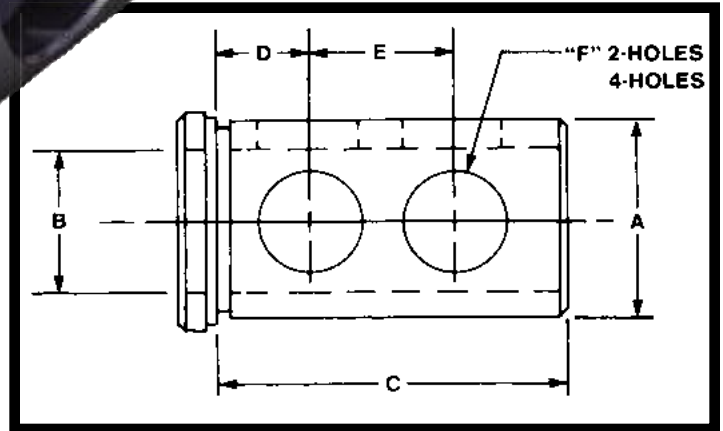
\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.





# Toolholder Bushing Type “J”

This Type J Toolholder Bushing, with long solid body, has clearance holes so that you can clamp directly on the tool with set screws for positive alignment of the cutting edge of the tool. They are hardened and precision ground concentric. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		SPECIAL BORE SIZES AVAILABLE		LENGTH UNDER HEAD	LENGTH DIMENSIONS		HOLE SIZE	NO. HOLES
	A		B		MIN.	MAX.	C	D	E		
	IN.	MM	IN.	MM							
CNC 86-01J	3/4	20	1/4, 5/16, 3/8, 1/2	6, 8, 10, 12	3/16	5/8	1 1/2	3/8	13/16	3/8	2
CNC 86-02J	1	25	3/8, 1/2, 5/8, 3/4	10, 12, 16, 20	1/4	7/8	1 3/4	7/16	7/8	5/8	2
CNC 86-12J	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	1/4	1 1/8	2 1/8	5/8	1	3/4	2
CNC 86-03J	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	1/4	1 1/4	2 1/2	1 1/16	1 1/8	7/8	2
CNC 86-04J	1 3/4	45	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	1/4	1 1/2	3	3/4	1 1/4	7/8	2
CNC 86-05J	2	50	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40, 45	3/8	1 3/4	3 1/2	3/4	1 1/2	1	2
CNC 86-06J	2 1/2	65	3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4	20, 25, 32, 40, 45, 50	1/2	2 1/4	4	7/8	1 3/4	1 1/4	2
CNC 86-07J	3	80	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2	25, 32, 40, 45, 50, 60, 65	1/2	2 1/2	4 1/2	1	2	1 1/4	4
CNC 86-08J	3 1/2	90	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	25, 32, 40, 45, 50, 60, 65	3/4	3	5 1/4	1 1/4	2 1/2	1 1/4	4

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

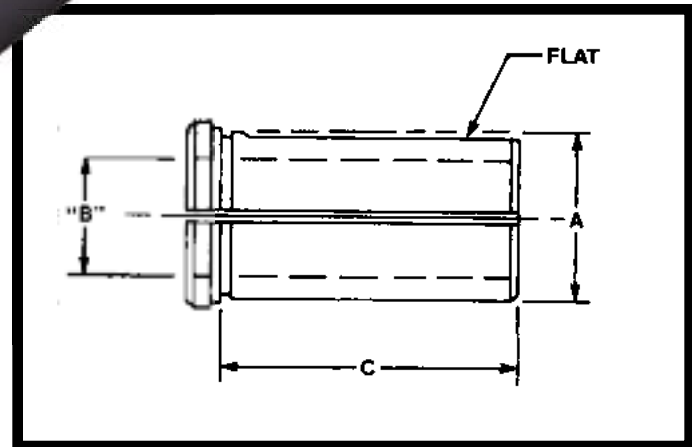
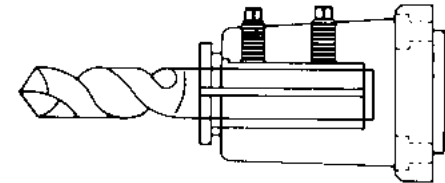
\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.





# Toolholder Bushing Type “B”

These split Type B Bushings are manufactured with flexible manufacturing systems, for all Types and sizes of CNC Lathes and Chuckers; are Heat Treated and precision ground concentric. It is used to adapt Drills, Boring Bars, and other Shank Tools. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		SPECIAL BORE SIZES AVAILABLE		LENGTH UNDER HEAD
	A		B		MIN.	MAX.	C
	IN.	MM	IN.	MM			
CNC 86-01B	3/4	20	1/4, 5/16, 3/8, 1/2	6, 8, 10, 12	3/16	5/8	1 1/2
CNC 86-02B	1	25	3/8, 1/2, 5/8, 3/4	10, 12, 16, 20	3/16	7/8	1 3/4
CNC 86-12B	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	3/16	1	2 1/8
CNC 86-03B	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	3/16	1 1/4	2 1/2
CNC 86-04B	1 3/4	45	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2	10, 12, 16, 20, 25, 32, 40	1/4	1 1/2	3
CNC 86-05B	2	50	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40	1/2	1 3/4	3 1/2
CNC 86-06B	2 1/2	65	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4	20, 25, 32, 40, 45, 50	1/2	2 1/4	4
CNC 86-07B	3	80	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2	25, 32, 40, 45, 50, 60, 65	5/8	2 1/2	4 1/2
CNC 86-08B	3 1/2	90	1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3	25, 32, 40, 45, 50, 60, 65	5/8	3	5 1/4

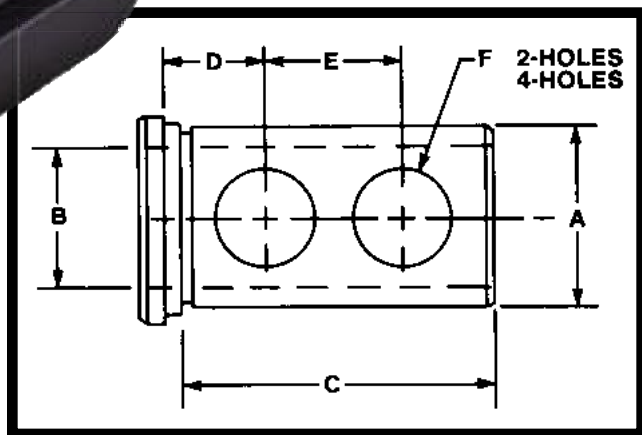
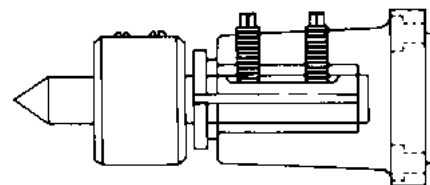
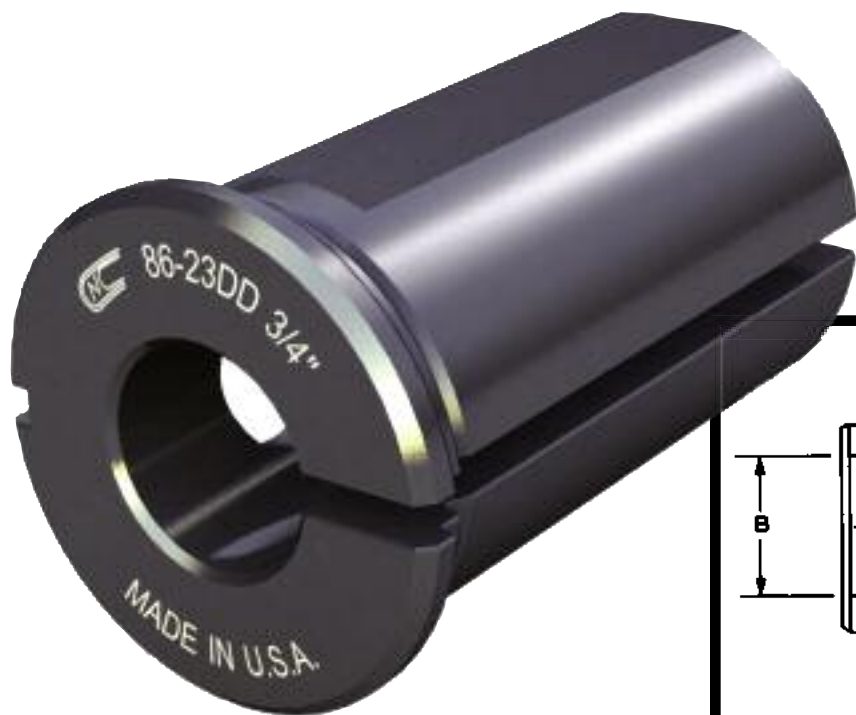
\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.



# Toolholder Bushing Type “DD”

With the combination of the industry standard “B” style split bushing and “J” set screw clearance bushing design, CNC has a set a precedent with its new innovative “DD” Double Duty bushing. This new improved “DD” bushing with clearance holes and split milled flat can be used as a conventional “B” style or “J” style bushing. “Double Duty” one of CNC’s latest innovations. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		SPECIAL BORE SIZES AVAILABLE		LENGTH UNDER HEAD	LENGTH DIMENSIONS		HOLE SIZE	NO. HOLES
	A		B		MIN.	MAX.	C	D	E	F	
	IN.	MM	IN.	MM							
CNC 86-23DD	1½	40	⅜, ½, ⅝, ¾, ⅞, 1, 1¼	10, 12, 16, 20, 25, 32	¼	1¼	2½	1¼ <sub>16</sub>	1⅛	⅞	2
CNC 86-24DD	1¾	45	½, ⅝, ¾, ⅞, 1, 1¼, 1½	12, 16, 20, 25, 32, 40	⅜	1½	3	¾	1¼	⅞	2
CNC 86-25DD	2	50	½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾	12, 16, 20, 25, 32, 40, 45	⅜	1¾	3½	¾	1½	1	2
CNC 86-26DD	2½	65	½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2, 2¼	20, 25, 32, 40, 45, 50	½	2¼	4	⅞	1¾	1¼	2
CNC 86-27DD	3	80	1, 1¼, 1½, 1¾, 2, 2¼, 2½	25, 32, 40, 45, 50, 60, 65	¾	2½	4½	1	2	1¼	4
CNC 86-28DD	3½	90	1½, 1¾, 2, 2¼, 2½, 3	25, 32, 40, 45, 50, 60, 65	¾	3	5¼	1¼	2½	1¼	4

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.

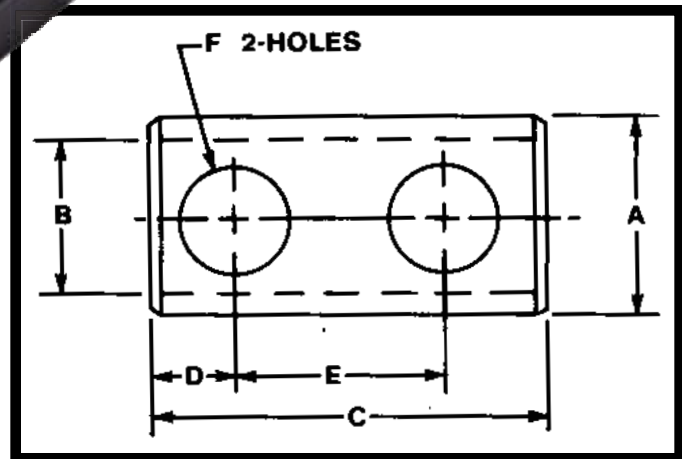




# Toolholder Bushing Type “L”

All “L” style bushings are shoulder-less, have set screw clearance holes opposite the slot and have a split with a flat on the O.D.

“L” Style Bushings are used to adapt drills, boring bars and shank tools to any size in a standard turret or toolholder. CNC has full selection and assortment of these bushings. We can supply these to you, minimizing production downtime – allowing you to increase production. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	BUSH DIA.		STANDARD BORE SIZES STOCKED		SPECIAL BORE SIZES AVAILABLE		OVERALL LENGTH	LENGTH DIMENSIONS			HOLE SIZE	NO. HOLES
	A		B		MIN.	MAX.	C	D	E	F		
	IN.	MM	IN.	MM								
CNC 86-53L	1½	40	⅜, ½, ⅝, ¾, 1, 1¼	10, 12, 16, 20, 25, 32	¼	1¼	3	¾	1⅝	⅞	2	
CNC 86-54L	1¾	45	½, ⅝, ¾, 1, 1¼, 1½	12, 16, 20, 25, 32, 40	⅜	1½	3	¾	1⅝	⅞	2	
CNC 86-56L	2¼	60	⅝, ¾, 1, 1¼, 1½, 1¾, 2	16, 20, 25, 32, 40, 50	½	2	4½	⅞	2	1	2	
CNC 86-57L	2¾	70	¾, 1, 1¼, 1½, 1¾, 2, 2¼	20, 25, 32, 40, 50	½	2¼	4½	⅞	2	1	2	

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

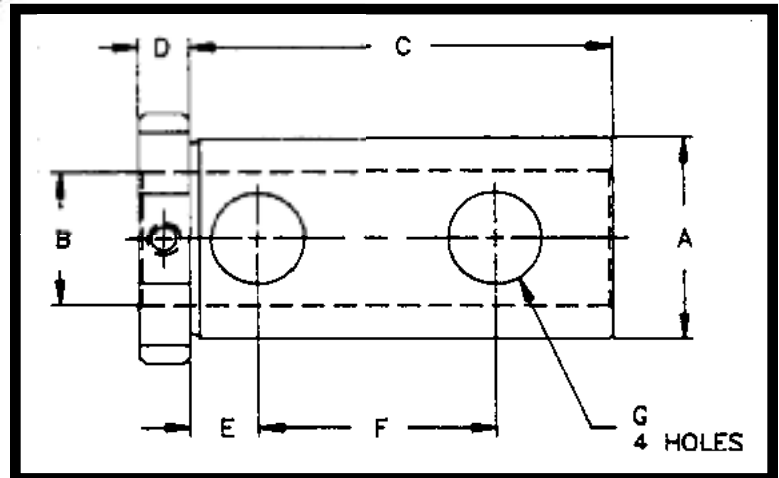
\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.





# Toolholder Bushing Type “LB”

This Type LB Toolholder Bushing with long solid body, has four clearance holes so that you can clamp directly on the tool with Set Screws for positive alignment of the cutting edge of the tool. Manufactured to include clearance notches for coolant. They are hardened and precision ground concentric. For use on all Okuma CNC Machines.



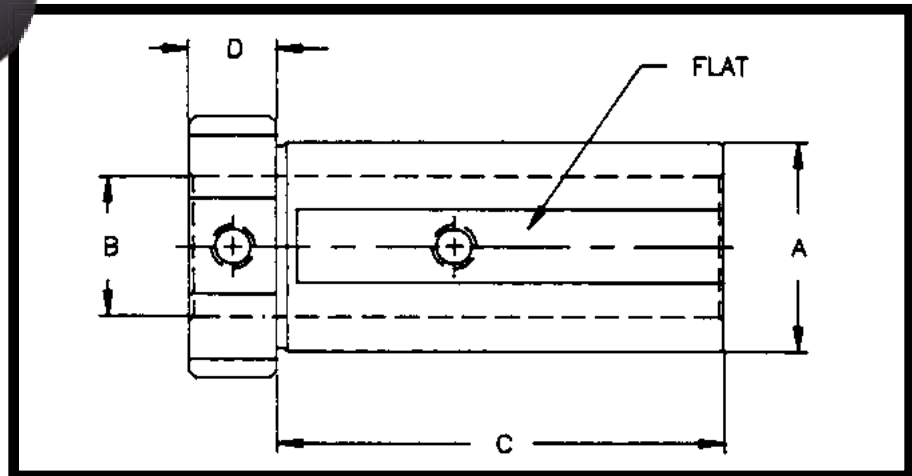
CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		LENGTH UNDER HEAD	HEAD THICKNESS	LENGTH DIM.		HOLE SIZE
	A		B		C	D	E	F	G
	INCH	M M	INCH	M M					
CNC 86-12LB	1¼	32	⅜, ½, ⅝, ¾, ⅞, 1	10, 12, 16, 20, 25	3⅜	⅜	½	1¾	⅝
CNC 86-13LB	1½	40	⅜, ½, ⅝, ¾, ⅞, 1, 1¼	10, 12, 16, 20, 25, 32	3⅜	⅜	½	1¾	⅝
CNC 86-15LB	2	50	½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾	12, 16, 20, 25, 32, 40, 45	4½	½	½	2¾	11/16

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.  
 \*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.



# Toolholder Bushing Type “LBF”

These LBF Type Bushings are manufactured with a flat for clamping the Toolholder and two set screws for clamping a variety of Drills, Boring Bars and other Shank Tools. Equipped with two clearance notches for coolant. Are Heat Treated and precision ground concentric. This Universal Style is good for Coolant Through the Tool applications due to its solid configuration. For use on all Okuma CNC Machines.



CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		LENGTH UNDER HEAD	HEAD THICKNESS
	A		B		C	D
			INCH	MM		
CNC 86-12LBF	1 1/4	32	3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	2 13/16	5/8
CNC 86-03LBF	1 1/2	40	3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	3 5/32	5/8
CNC 86-05LBF	2	50	1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4	12, 16, 20, 25, 32, 40, 45	3 3/4	3/4

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.

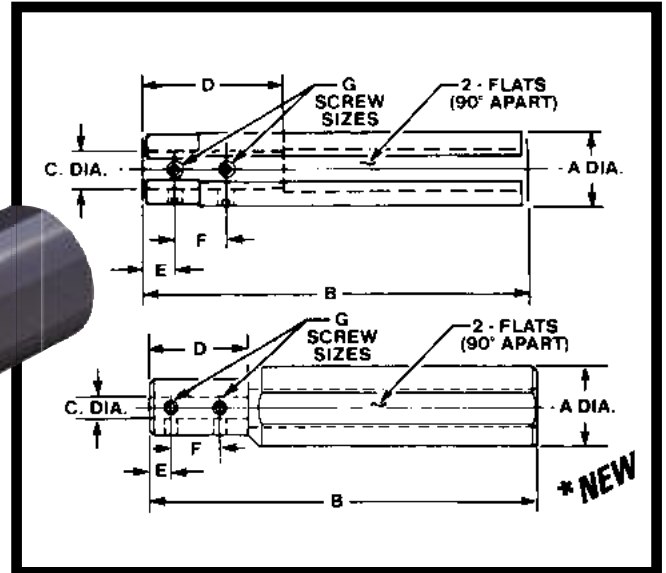




# Boring Bar Sleeves

CNC Boring Bar Sleeves are universally used to adapt all Boring Bar or shank type tools to any CNC Turning Machines and Machining Centers for extensions or hard to reach areas. They are hardened, precision ground, concentric, and black oxidized for long lasting protection. Select the O.D. size, length, and ID size from the chart below.

\*This NEW innovative design on the 1½ O.D. boring bar sleeves helps the tools stay cool longer by projecting the coolant directly on the cutting edge.



CNC PART NUMBER	DIMENSIONS							SCREW SIZE	
	A		B	C		D	E		F
	IN.	MM		IN	MM				
CNC 8815	¾	20	5	¼	6	1½	⅝	⅝	10-32
CNC 8816	¾	20	5	⅝	8	1½	⅝	⅝	10-32
CNC 8817	¾	20	5	¾	10	1½	⅝	⅝	10-32
CNC 8818	¾	20	5	½	12	3	⅝	⅝	10-32
CNC 8819	1	25	6	⅝	8	1¼	⅞	⅝	¼-28
CNC 8820	1	25	6	¾	10	1¼	⅞	⅝	¼-28
CNC 8821	1	25	6	½	12	2	⅞	⅝	¼-28
CNC 88125	1¼	32	6½	¾	10	1½	⅝	⅝	¼-28
CNC 88126	1¼	32	6½	½	12	2¼	⅞	⅝	¼-28
CNC 88127	1¼	32	6½	⅝	16	2½	⅞	¾	¼-28
CNC 88128	1¼	32	6½	¾	20	3	⅞	¾	¼-28
CNC 88129	1¼	32	6½	⅞	22	4	⅞	¾	10-32
CNC 88130	1¼	32	6½	1	25	4	⅞	¾	10-32
CNC 8822	1½	40	7	¾	10	2	⅝	⅝	¼-28
CNC 8823	1½	40	7	½	12	2¼	⅞	1⅛	⅝-24
CNC 8824	1½	40	7	⅝	16	2¼	⅞	¾	⅝-24
CNC 8825	1½	40	7	¾	20	2½	⅞	¾	⅝-24
CNC 8826	1½	40	8	⅞	22	3	⅞	¾	¼-28
CNC 8827	1½	40	8	1	25	4	⅞	⅞	¼-28
CNC 8828	1¾	45	8	½	12	2½	⅝	⅝	⅝-24
CNC 8829	1¾	45	8	⅝	16	2½	⅞	1	⅝-24
CNC 8830	1¾	45	8	¾	20	2½	⅞	1	¾-24
CNC 8831	1¾	45	8	⅞	22	2½	⅞	1	¾-24
CNC 8832	1¾	45	8	1	25	2½	⅞	1	¾-24

CNC PART NUMBER	DIMENSIONS							SCREW SIZE	
	A		B	C		D	E		F
	IN.	MM		IN	MM				
CNC 8834	2	50	9	⅝	16	2	⅞	1	⅞-20
CNC 8835	2	50	9	¾	20	2¾	⅞	1	⅞-20
CNC 8833	2	50	9	⅞	22	2	⅞	1	⅞-20
CNC 8836	2	50	9	1	25	3½	⅞	1	½-20
CNC 8837	2	50	9	1¼	32	3	⅝	1	½-20
CNC 8838	2½	65	10	⅝	16	3½	⅞	1	½-20
CNC 8839	2½	65	10	¾	20	3½	⅞	1	½-20
CNC 8840	2½	65	10	1	25	4	⅞	1	½-20
CNC 8841	2½	65	10	1¼	32	4	⅝	1	½-20
CNC 8842	2½	65	10	1½	40	3½	½	1	½-20
CNC 8845	3	80	11½	1	25	4	½	1	½-20
CNC 8843	3	80	11½	1¼	32	3½	½	1	½-20
CNC 8844	3	80	11½	1½	40	4½	½	1	½-20
CNC 8847	3	80	11½	1¾	45	3¾	⅝	1¼	½-20
CNC 8846	3	80	11½	2	50	4½	½	1	½-20
CNC 8850	4	100	14	1½	40	3¾	19/32	1⅞	⅝-18
CNC 8851	4	100	14	1¾	45	3¾	⅝	1⅞	⅝-18
CNC 8852	4	100	14	2	50	3¾	19/32	1¾	⅝-18
CNC 8853	4	100	14	2½	65	4	⅝	2	⅝-18
CNC 8854	4	100	14	3	80	4	¾	1¼	⅝-18

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

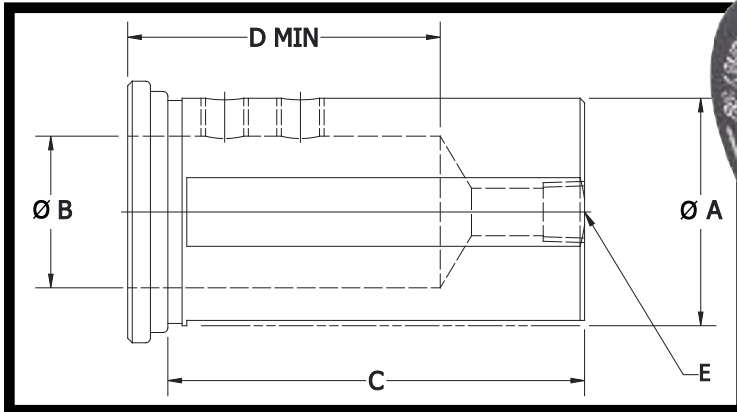
\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.





# NPT Boring Bar Sleeve

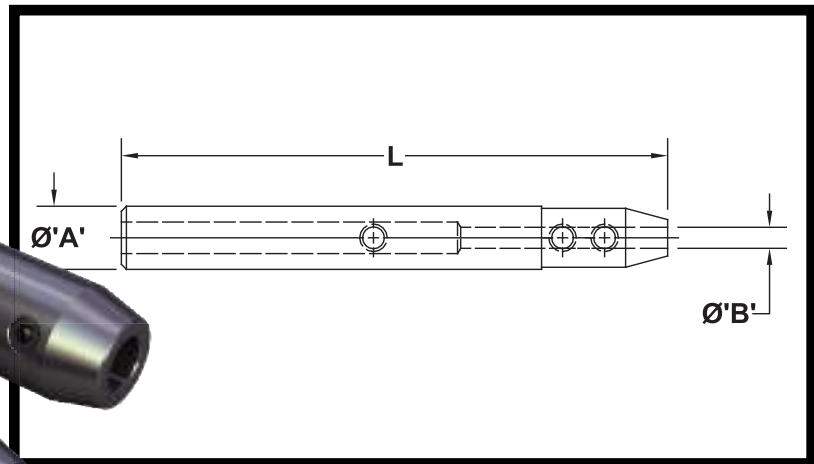
These New NPT Threaded Boring Bar Sleeves have a threaded back end to allow for the inducing Internal Coolant Applications.



CNC PART NUMBER	A	B	C	D (MIN)	E
86-12NPT	1-1/4	3/8-1	2-3/8	2-1/16	1/8-27 NPT
86-13NPT	1-1/2	3/8-1	2-3/4	2-1/16	1/8-27 NPT
86-14NPT	1-3/4	1/2-1	3	2-1/16	1/8-27 NPT
86-15NPT	2	1/2-1	3-1/2	2-1/16	1/4-18 NPT

# NEW! Small OD Boring Bar Sleeve

You can Now Hold Small ID Tools



CNC Part Number	BUSHING DIA.	STANDARD BORE	OVERALL LENGTH
	A	B	L
CNC S88-01	3/8	3/32	2.250
CNC S88-03	3/8	1/8	3.250
CNC S88-05	1/2	5/32	3.500
CNC S88-07	1/2	3/16	3.500
CNC S88-09	5/8	1/4	4.250

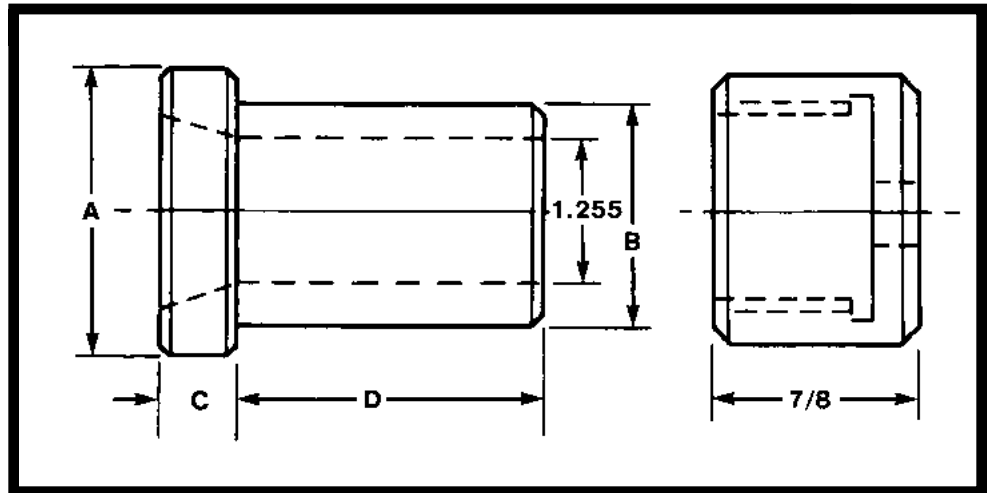
Special sizes available to your machine specifications: inch-metric, metric-inch, or metric-metric. Please specify inch or metric O.D. or I.D., when ordering.





# “5C” Collet Holder Bushing

This brand new 5C Collet Holder Bushing is used to adapt all kinds of Drills, Reamers, Counter Bores and End Mills to your CNC machines. Adds flexibility, versatility and reduces set-up time. Includes back locking nut and screw to hold your 5C Collet in place.



CNC PART NUMBER	A	B		C	D	OD NUT SIZE
		INCH	MM			
CNC 885C 1½	2	1½	40	½	2¼	1¾/64
CNC 885C 1¾	2¼	1¾	45	½	2¼	1¹¹/16
CNC 885C 2	2½	2	50	½	2¼	1¹⁹/16
CNC 885C 2½	3	2½	65	½	2¼	2 7/16

Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric. All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.

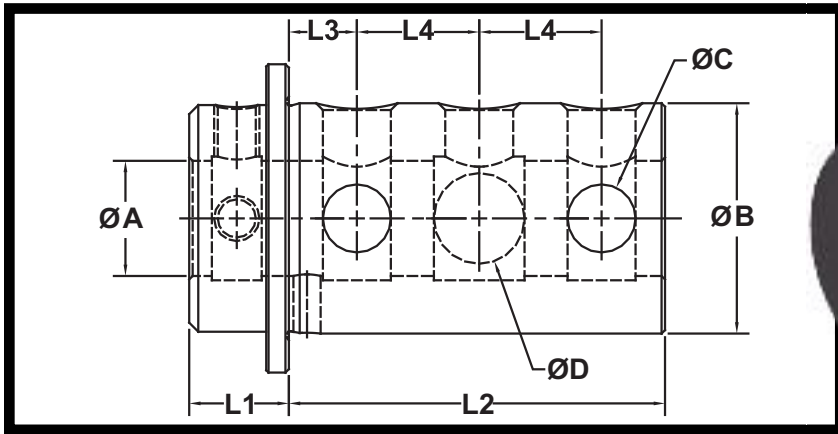






# Mazak QTN Bushing

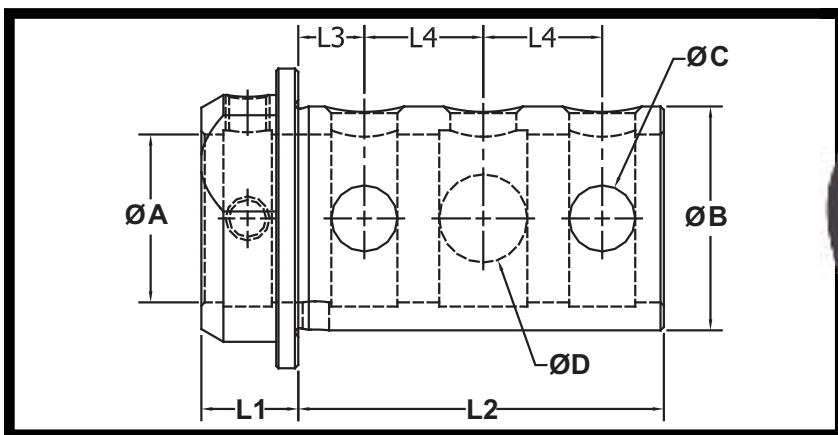
This 8 Hole Style Toolholder Bushing is designed to fit your Mazak QTN Machines. Allows for precise alignment of the Holes with the Set Screws from the Tool Block. Set Screw in Head allows for added rigidity. They are Hardened, Precision Ground concentric and Black Oxidized for long lasting protection.



PART NUMBER	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 1/4	$\varnothing_A$	$\varnothing_B$	$L_1$	$L_2$	$L_3$	$L_4$	$\varnothing_C$	$\varnothing_D$
86-15MZ8H	1/2						.500	2.000	22	83	15	27	15	20
86-15MZ8H		5/8					.625	2.000	22	83	15	27	15	20
86-15MZ8H			3/4				.750	2.000	22	83	15	27	15	20
86-15MZ8H				7/8			.875	2.000	22	83	15	27	15	20
86-15MZ8H					1		1.000	2.000	22	83	15	27	15	20
86-15MZ8H						1 1/4	1.250	2.000	22	83	15	27	15	20

# Mazak QTN Bushing

This 8 Hole Style Toolholder Bushing is designed to fit your Mazak QTN Machines. Allows for precise alignment of the Holes with the Set Screws from the Tool Block. Set Screw in Head allows for added rigidity. They are Hardened, Precision Ground concentric and Black Oxidized for long lasting protection.



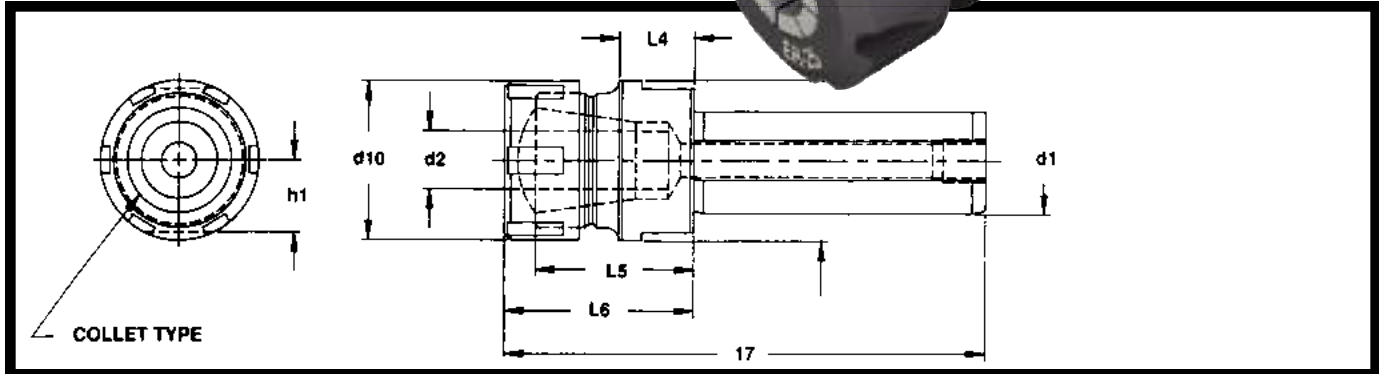
PART NUMBER	1 1/2	1 3/4	$\varnothing_A$	$\varnothing_B$	$L_1$	$L_2$	$L_3$	$L_4$	$\varnothing_C$	$\varnothing_D$
86-15MZ8H	1 1/2		1.500	2.000	22	83	15	27	15	20
86-15MZ8H		1 3/4	1.750	2.000	22	83	15	27	15	20





# Collet Chuck; Straight Shank ER & TG Style

Extremely versatile Universal Toolholder  
Designed to hold your ER Collets. One  
Toolholder can hold a variety of sized  
tools!



CNC PART	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>2</sub> metric	d <sub>6</sub>	d <sub>10</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>	h <sub>1</sub>	COLLET TYPE
CNC 56.2025	¾	1/16-5/8	1-16	40	42	18	38	50	108	17	ER25
CNC 56.2032	¾	3/32-¾	2-20	50	50	18	48	60	118	23.4	ER32
CNC 56.2040	¾	1/8-1	3-25	50	63	34	52	66	121.5	23.4	ER40
CNC 56.2525	1	1/16-5/8	1-16	40	42	18	38	50	108	17	ER25
CNC 56.2532	1	3/32-¾	2-20	50	50	18	48	60	118	23.4	ER32
CNC 56.2540	1	1/8-1	3-25	50	63	34	52	66	121.5	23.4	ER40
CNC 56.3225	1¼	1/16-5/8	1-16	40	42	18	38	50	120.5	17	ER25
CNC 56.3232	1¼	3/32-¾	2-20	50	50	18	48	60	131	23.4	ER32
CNC 56.3240	1¼	1/8-1	3-25	50	63	34	52	66	134	23.4	ER40
CNC 56.4025	1½	1/16-5/8	1-16	50	42	22	63	75	149	22.2	ER25
CNC 56.4032	1½	3/32-¾	2-20	50	50	18	48	60	134	23.4	ER32
CNC 56.4040	1½	1/8-1	3-25	50	63	34	52	66	137.5	23.4	ER40
CNC 56.4525	1¾	1/16-5/8	1-16	60	42	22	63	75	152	25.4	ER25
CNC 56.4532	1¾	3/32-¾	2-20	60	50	18	48	60	137	25.4	ER32
CNC 56.4540	1¾	1/8-1	3-25	60	63	34	52	66	140.5	25.4	ER40
CNC 56.5025	2	1/16-5/8	1-16	65	42	22	52	75	164.5	28.6	ER25
CNC 56.5032	2	3/32-¾	2-20	65	50	22	52	66	153.5	28.6	ER32
CNC 56.5040	2	1/8-1	3-25	65	63	22	52	62	151	28.6	ER40

CNC PART	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>6</sub>	d <sub>10</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>	h <sub>1</sub>	COLLET TYPE
CNC 56.2075TG	¾	3/64-¾	40	50	40.7	63	77.4	147	17	75TG
CNC 56.20100TG	¾	3/32-1	50	60	40	64.2	82.1	152	23.4	100TG
CNC 56.2575TG	1	3/64-¾	40	50	40.7	63	77.4	147	17	75TG
CNC 56.25100TG	1	3/32-1	50	60	40	64.2	82.1	152	23.4	100TG
CNC 56.3275TG	1¼	3/64-¾	40	50	40.7	63	77.4	160	17	75TG
CNC 56.32100TG	1¼	3/32-1	50	60	40	64.2	82.1	165	23.4	100TG
CNC 56.4075TG	1½	3/64-¾	50	50	40.7	63	77.4	163	23.4	75TG
CNC 56.40100TG	1½	3/32-1	50	60	40	64.2	82.1	168	23.4	100TG
CNC 56.4575TG	1¾	3/64-¾	60	50	42	63	77.4	166	25.4	75TG
CNC 56.45100TG	1¾	3/32-1	60	60	40	64.2	82.1	171	25.4	100TG
CNC 56.5075TG	2	3/64-¾	65	50	42	63	77.4	179	28.6	75TG
CNC 56.50100TG	2	3/32-1	65	60	40	39.2	82.1	184	28.6	100TG





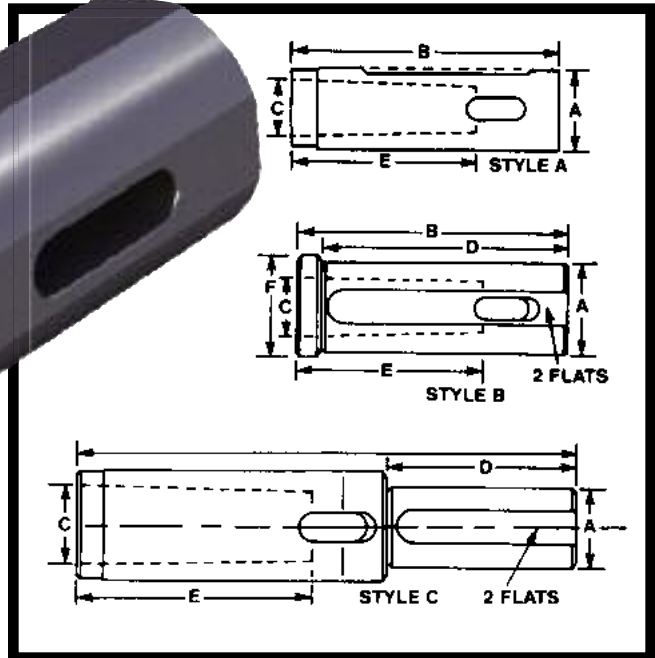
# Taper Drill Sockets: Morse Taper

## The New Headed Series:

All of our Taper Drill Sockets have been redesigned with a shoulder, as a “B” style, to further insure correct depth of the drilling operation. This new style also provides safety for secondary operations such as boring and reaming. It is held with set screws on two flats so that it will never push back or turn.

Our taper drill sockets are hardened, precision ground, and concentric within .0002 of an inch. They fit directly into tool holders and turrets to positively drive all morse taper shank tools, drills, reamers and counterbores.

**The Headless Style “A” Series:** straight shank style “A” taper drill sockets are manufactured in limited quantities and sizes. Please contact our courteous sales staff for availability and pricing information. Select the O.D. size that fits your machine and order from the chart below.



CNC PART NUMBER	STYLE	SHANK DIA.		B	MORSED TAPER C	D	E	F
		A						
		INCH	MM					
CNC 86-01#1	A	3/4	20	3 1/4	#1	2 5/16	2 3/16	1
CNC 86-02#1	B	1	25	3 3/4	#1	3 1/8	2 3/16	1 1/4
CNC 86-02#2	B	1	25	3 3/4	#2	3 1/8	2 5/8	1 1/4
CNC 86-03#1	B	1 1/4	32	4	#1	3 3/8	2 3/16	1 1/2
CNC 86-03#2	B	1 1/4	32	4	#2	3 3/8	2 5/8	1 1/2
CNC 86-03#3	B	1 1/4	32	4	#3	4	3 1/4	1 1/2
CNC 86-04#1	B	1 1/2	40	5	#1	4 3/8	2 3/16	1 3/4
CNC 86-04#2	B	1 1/2	40	5	#2	4 3/8	2 5/8	1 3/4
CNC 86-04#3	B	1 1/2	40	5	#3	4 3/8	3 1/4	1 3/4
CNC 86-04#4	B	1 1/2	40	5 3/4	#4	4 3/8	4 1/8	1 3/4
CNC 86-05#1	B	1 3/4	45	5 3/4	#1	5 1/8	2 3/16	2
CNC 86-05#2	B	1 3/4	45	5 3/4	#2	5 1/8	2 5/8	2
CNC 86-05#3	B	1 3/4	45	5 3/4	#3	5 1/8	3 1/4	2
CNC 86-05#4	B	1 3/4	45	5 3/4	#4	4 3/8	4 1/8	2
CNC 86-06#5	C	1 3/4	45	11 1/8	#5	4 1/4	5 1/4	1 3/8

CNC PART NUMBER	STYLE	SHANK DIA.		B	MORSED TAPER C	D	E	F
		A						
		INCH	MM					
CNC 86-07#2	B	2	50	6 1/8	#2	5 1/2	2 5/8	2 1/4
CNC 86-07#3	B	2	50	6 1/8	#3	5 1/2	3 1/4	2 1/4
CNC 86-07#4	B	2	50	6 1/8	#4	5 1/2	4 1/8	2 1/4
CNC 86-08#5	C	2	50	11 1/8	#5	4 1/4	5 1/4	2 3/8
CNC 86-09#2	B	2 1/2	65	5 3/4	#2	5 1/8	2 5/8	2 3/4
CNC 86-09#3	B	2 1/2	65	6 5/8	#3	6	3 1/4	2 3/4
CNC 86-09#4	B	2 1/2	65	6 5/8	#4	6	4 1/8	2 3/4
CNC 86-09#5	B	2 1/2	65	7 5/8	#5	7	5 1/4	2 3/4
CNC 86-11#4	B	3	80	6 5/8	#4	6	4 1/8	3 3/8
CNC 86-12#5	B	3	80	7 5/8	#5	7	5 1/4	3 3/8
CNC 86-13#4	B	2 1/4	60	6 5/8	#4	6	4 1/8	2 1/2
CNC 86-14#5	B	2 1/4	60	7 5/8	#5	7	5 1/4	2 1/2
CNC 86-15#4	B	2 3/4	70	6 5/8	#4	6	4 1/8	3
CNC 86-16#5	B	2 3/4	70	7 5/8	#5	7	5 1/4	3

\*Special sizes available to fit your machine specifications: inch-metric, metric-inch, or metric-metric.

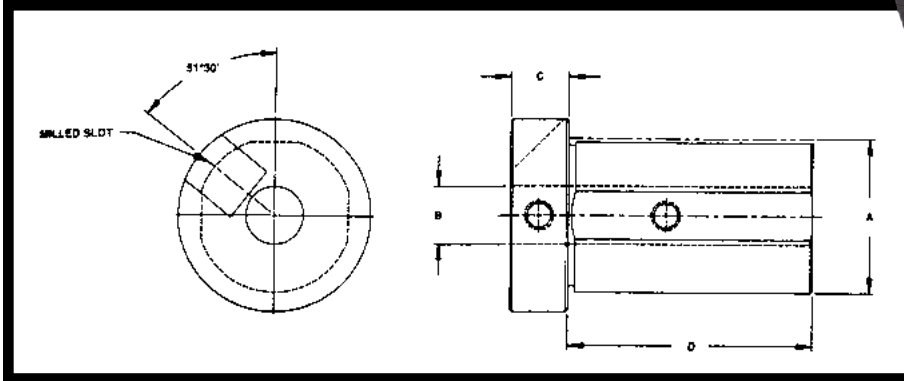
\*All Orders ship standard in inch sizes. If required; please specify metric O.D. or I.D., when ordering.





# Mazak Style Toolholder Bushing Style "V"

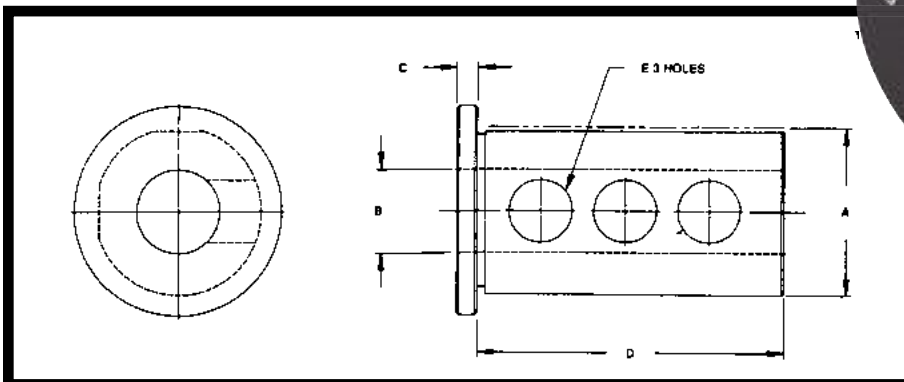
New Mazak Bushings like the ones that came with the machine.  
For Mazak Integrex 70Y Machines



CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		SLOT THICKNESS C	LENGTH UNDER HEAD D
			B			
	A		INCH	MM		
CNC 86-70V	2	50	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2	8, 10, 12, 16, 20, 25, 32, 40	3/4	3 5/32

# Mazak Style Toolholder Bushing Style "W"

New Mazak Bushings like the ones that came with the machine.  
For Mazak Integrex 70Y Machines



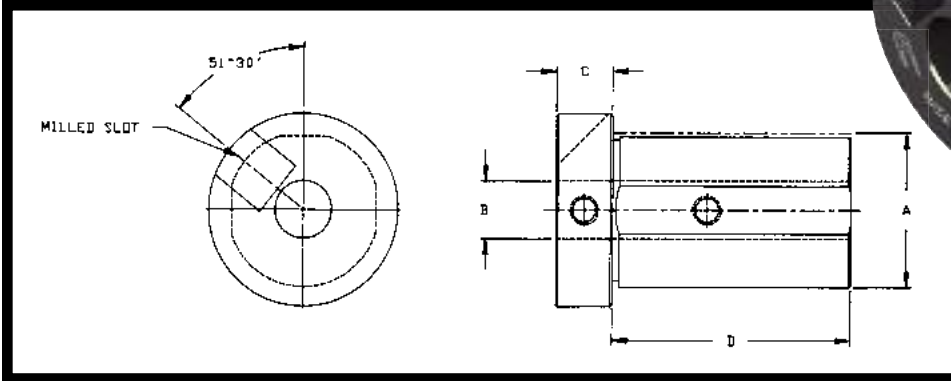
CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		SLOT THICKNESS C	LENGTH UNDERHEAD D	HOLES E
			B				
	A		INCH	MM			
CNC 86-70W	2	50	1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	1/4	4	3/4





# Mazak Style Toolholder Bushing Style "P"

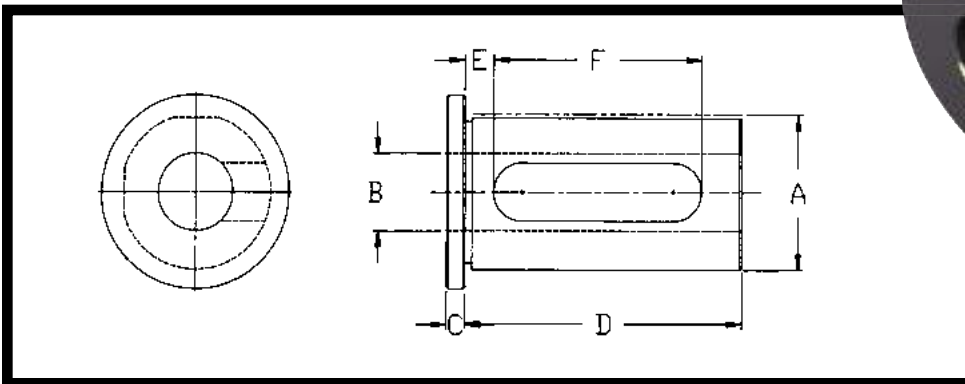
New Mazak Bushings like the ones that came with the machine.  
For Mazak Integrex 50Y Machines



CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		SLOT THICKNESS	LENGTH UNDER HEAD
	A	50	B			
			INCH	MM	C	D
CNC 86-70P	2	50	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2	8, 10, 12, 16, 20, 25, 32, 40	3/4	4 1/64

# Mazak Style Toolholder Bushing Style "Q"

New Mazak Bushings like the ones that came with the machine.  
For Mazak Integrex 50Y Machines



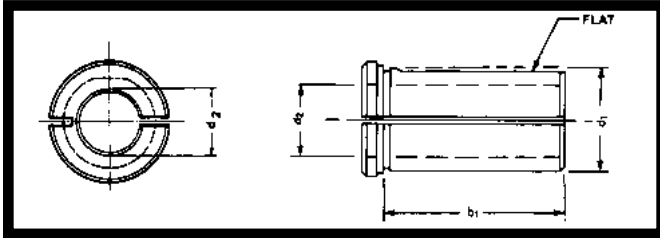
CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		SLOT THICKNESS	LENGTH UNDER HEAD	DIM	LENGTH OF SLOT
	A	50	B					
			INCH	MM	C	D	E	F
CNC 86-70Q	2	50	1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2	12, 16, 20, 25, 32, 40	1/4	4 1/64	5/16	3 3/8





# VDI Style Toolholder Bushing

Type "BV"



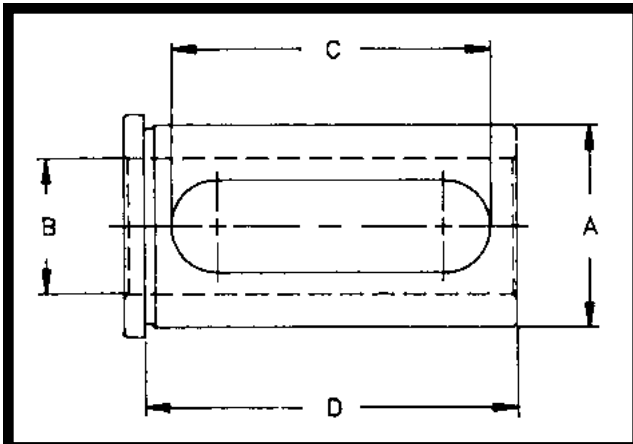
PART NUMBER	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>2</sub> metric	b <sub>1</sub>
CNC86 61.2508	25	5/16	8	36
CNC86 61.2510	25	3/8	10	36
CNC86 61.2512	25	1/2	12	36
CNC86 61.2516	25	5/8	16	36
CNC86 61.2520	25	3/4	20	36
CNC86 61.3208	32	5/16	8	46
CNC86 61.3210	32	3/8	10	46
CNC86 61.3212	32	1/2	12	46
CNC86 61.3216	32	5/8	16	46
CNC86 61.3220	32	3/4	20	46
CNC86 61.3225	32	1	25	46

PART NUMBER	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>2</sub> metric	b <sub>1</sub>
CNC86 61.4010	40	3/8	10	81
CNC86 61.4012	40	1/2	12	81
CNC86 61.4016	40	5/8	16	81
CNC86 61.4020	40	3/4	20	81
CNC86 61.4025	40	1	25	81
CNC86 61.4032	40	1 1/4	32	81
CNC86 61.5020	50	3/4	20	102
CNC86 61.5025	50	1	25	102
CNC86 61.5032	50	1 1/4	32	102
CNC86 61.5040	50	1 1/2	40	102
CNC86 61.6025	60	1	25	118
CNC86 61.6032	60	1 1/4	32	118
CNC86 61.6040	60	1 1/2	40	118
CNC86 61.6050	60	2	50	118

# VDI Style Toolholder Bushing

Type "CV":

Special length to fit your Form E2 Boring Bar Holder



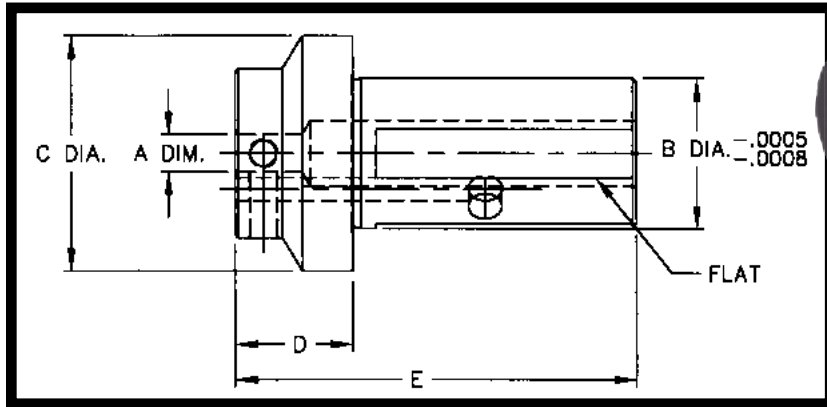
CNC PART NUMBER	BUSHING DIA.		STANDARD BORE SIZES STOCKED		SLOT	LENGTH UNDER HEAD
	A		B			
	IN.	MM	IN.	MM	C	D
CNC 86-12CV	1.25	32	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	10, 12, 16, 20, 25	50MM	60MM
CNC 86-13CV	1.5	40	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4	10, 12, 16, 20, 25, 32	60MM	70MM





# Coolant Fed Toolholder Bushing

The CNC Type Coolant Fed Bushing is designed for use on applications requiring an External Side Coolant Entry Port. Clamp the Screws from the CNC Machine on the flat and use the Set-screws in the head to clamp directly on the tool allowing for positive alignment of the cutting edge of the tool.

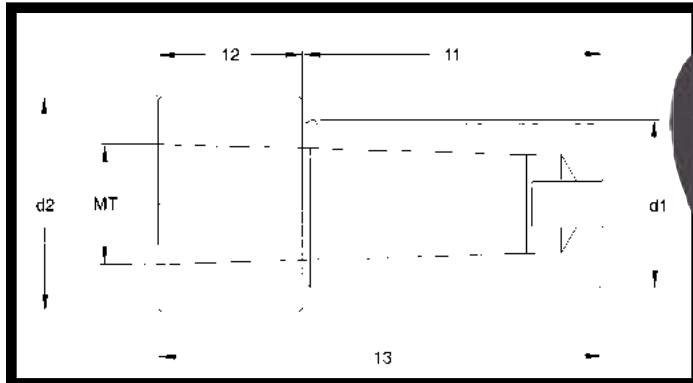


CNC PART NUMBER	STANDARD BORE SIZES STOCKED	BUSHING DIA.	HEAD DIA.	HEAD THICKNESS	OVER ALL LENGTH
	A	B	C	D	E
CNC 86-12CFB	5/16, 3/8, 1/2, 5/8, 3/4, 1	1 1/4	50	25	85
CNC 86-13CFB	5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4	1 1/2	58	30	105

# VDI Style Taper Drill Sockets

## VDI Style

Adapt your VDI Boring Bar Holder into a Morse Taper Holder by adding this inexpensive Bushing. Save money by using your existing Boring Bar Holder and purchasing this inexpensive Bushing.



PART NUMBER	d, in	d, mm	MT	d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
CNC86 64.4073#1	1 1/2	40	1	52	60	16	76
CNC86 64.4073#2	1 1/2	40	2	52	60	16	76
CNC86 64.4073#3	1 1/2	40	3	52	71	43	114
CNC86 64.4073#4	1 1/2	40	4	52	71	43	114
CNC86 64.4083#1	1 3/4	45	1	57	60	16	76
CNC86 64.4083#2	1 3/4	45	2	57	60	16	76
CNC86 64.4083#3	1 3/4	45	3	57	81	33	114
CNC86 64.4083#4	1 3/4	45	4	57	81	33	114
CNC86 64.4083#5	1 3/4	45	5	57	81	69	150

PART NUMBER	d, in	d, mm	MT	d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
CNC86 64.4583#1	2	50	1	64	60	16	76
CNC86 64.4583#2	2	50	2	64	60	16	76
CNC86 64.4583#3	2	50	3	64	81	33	114
CNC86 64.4583#4	2	50	4	64	81	33	114
CNC86 64.4583#5	2	50	5	64	81	69	150

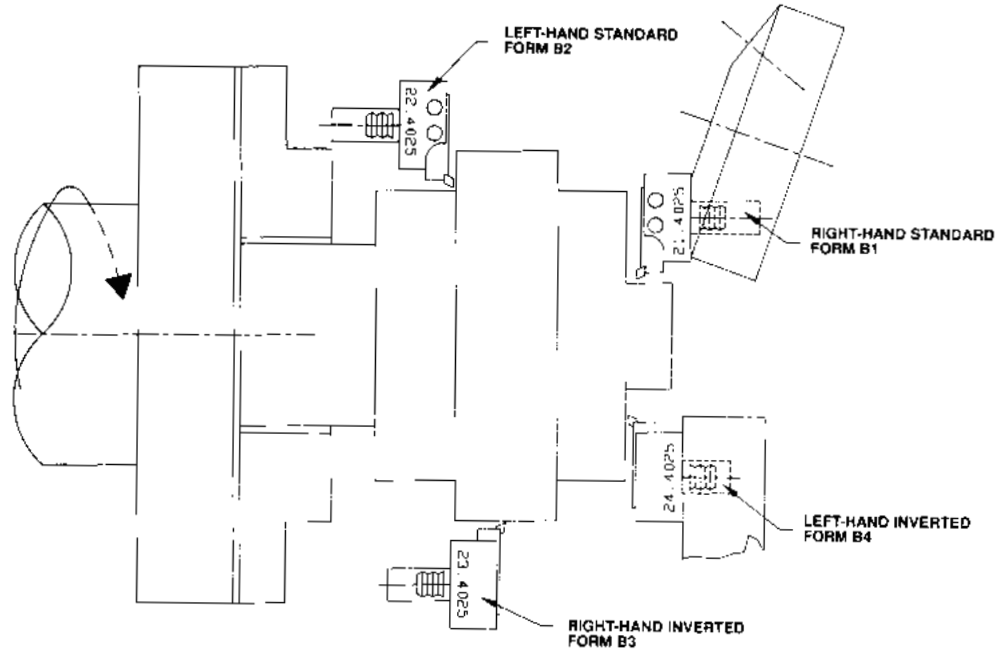




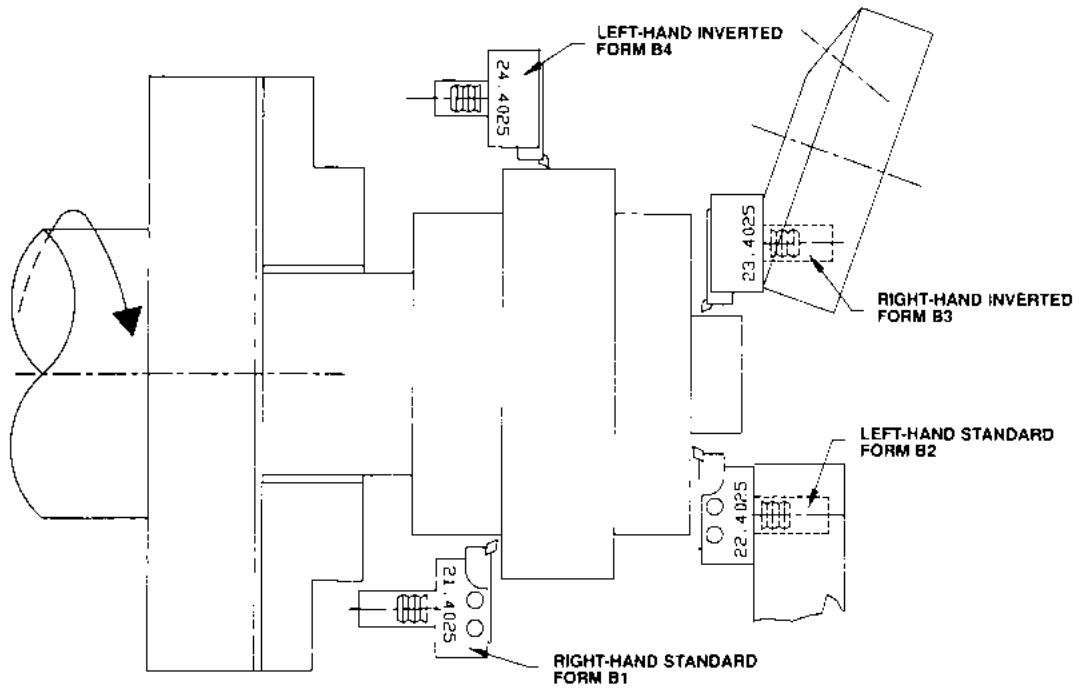
# VDI Orientation Chart:

Find the Toolholder you need by referencing this chart.

Left-Hand (Clockwise) Spindle Rotation



Right-Hand (Counter-Clockwise) Spindle Rotation



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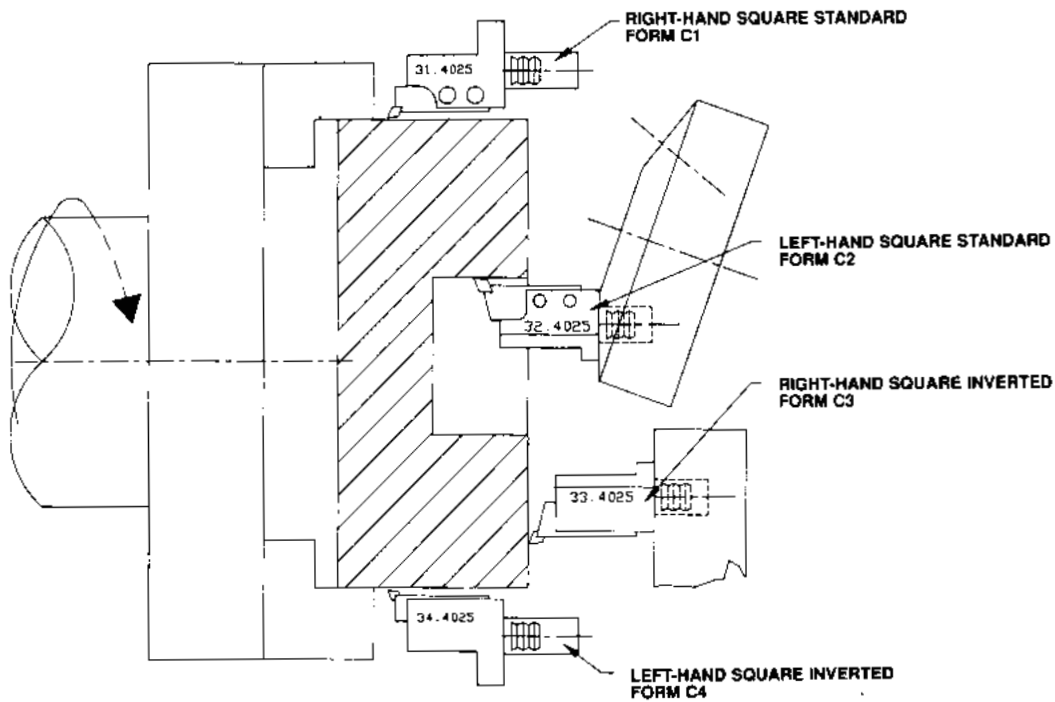




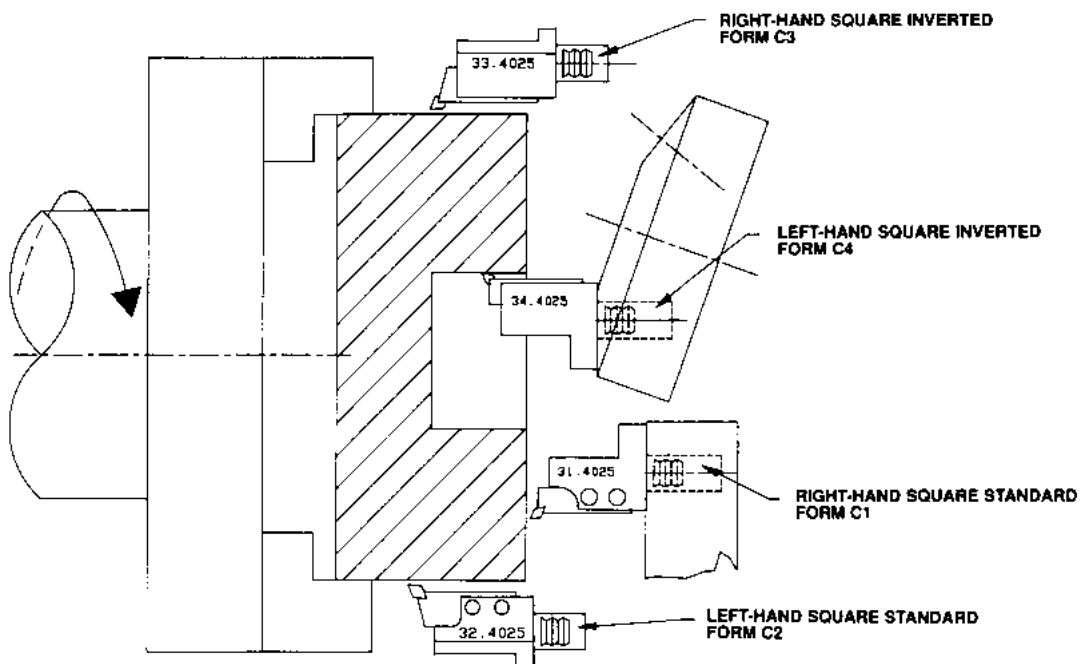


# VDI Orientation Chart

## Left-Hand (Clockwise) Spindle Rotation



## Right-Hand (Counter-Clockwise) Spindle Rotation



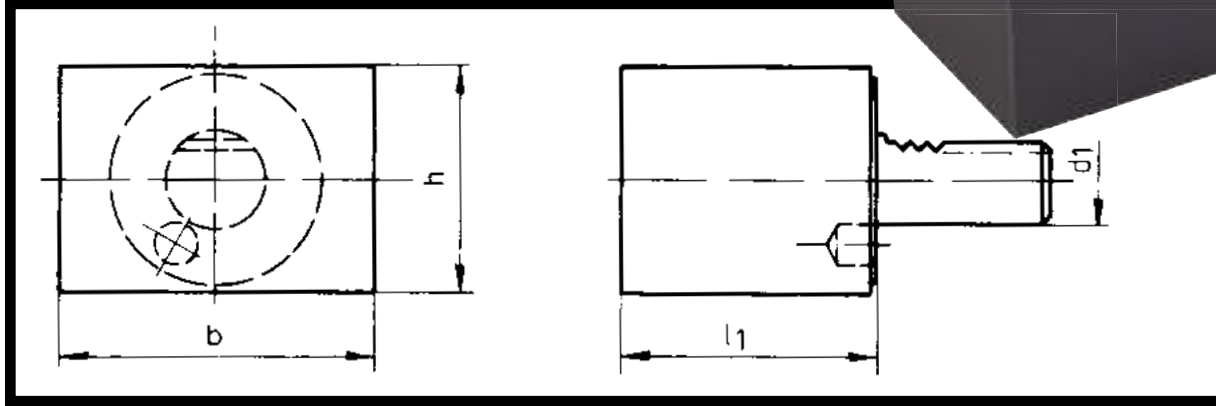
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*Superior Design/Premium Quality*





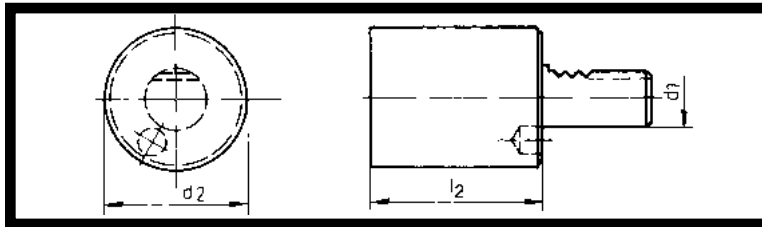
# Toolholder Blank – Form A1 Rectangular



PART NUMBER	d <sub>1</sub>	L <sub>1</sub>	b	h
CNC86 B16.44.78.44	16	44	78	44
CNC86 B20.50.60.60	20	50	60	60
CNC86 B20.65.100.60	20	65	100	60
CNC86 B25.75.100.60	25	75	100	60
CNC86 B30.85.130.76	30	85	130	76

PART NUMBER	d <sub>1</sub>	L <sub>1</sub>	b	h
CNC86 B40.100.151.96	40	100	151	96
CNC86 B50.125.160.120	50	125	160	120
CNC86 B60.160.165.125	60	160	165	125
CNC86 B80.200.220.160	80	200	220	160

# Toolholder Blank – Form A2 Round



PART NUMBER	d <sub>1</sub>	d <sub>2</sub>	L <sub>2</sub>
CNC86 B16.40.60	16	40	60
CNC86 B20.50.70	20	50	70
CNC86 B20.52.160	20	52	160
CNC86 B25.58.80	25	58	80
CNC86 B25.58.200	25	58	200
CNC86 B30.68.100	30	68	100
CNC86 B30.68.150	30	68	150
CNC86 B30.70.200	30	70	200
CNC86 B30.68.240	30	68	240
CNC86 B40.83.120	40	83	120
CNC86 B40.83.150	40	83	150
CNC86 B40.83.200	40	83	200
CNC86 B40.83.320	40	83	320

PART NUMBER	d <sub>1</sub>	d <sub>2</sub>	L <sub>2</sub>
CNC86 B50.98.135	50	98	135
CNC86 B50.98.220	50	98	220
CNC86 B50.98.400	50	98	400
CNC86 B60.123.150	60	123	150
CNC86 B60.123.250	60	123	250
CNC86 B60.123.480	60	123	480
CNC86 B80.158.XXX	80	158	XXX
CNC86 B80.158.500	80	158	500

Special sizes available to your machine specifications:

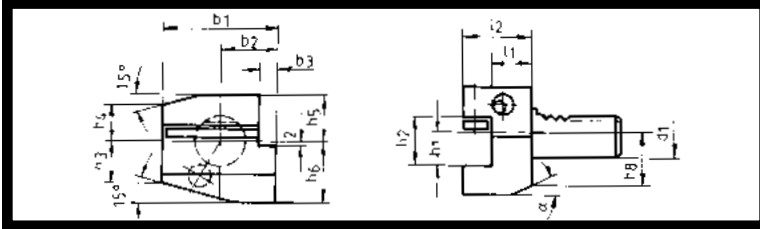
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# Turning Toolholder – Form B1

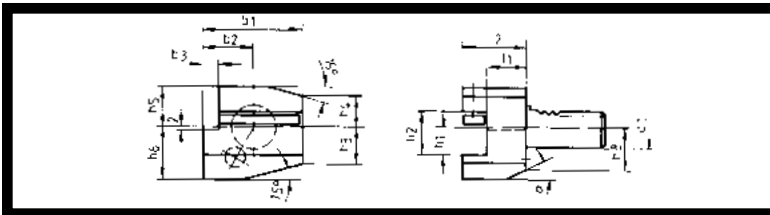
## Right-Hand Short



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 21.1612	16	42	23	5	1/2	12	17	15	15	20	22	18	13	25	30
CNC86 21.1612.1	16	42	23	5	1/2	12	17	15	15	20	22	18	23	35	30
CNC86 21.2016	20	55	30	7	5/8	16	22	19	19	25	30	23	16	31	30
CNC86 21.2016.1	20	55	30	7	5/8	16	22	19	19	25	30	23	26	41	30
CNC86 21.2516	25	55	30	7	5/8	16	22	22.5	22.5	25	30	25	16	31	30
CNC86 21.2516.1	25	55	30	7	5/8	16	22	22.5	22.5	25	30	25	26	41	30
CNC86 21.3020	30	70	35	10	3/4	20	29	26	22	28	38	30	22	40	25
CNC86 21.3020.1	30	70	35	10	3/4	20	29	26	22	28	38	30	42	60	25
CNC86 21.3025	30	70	35	10	1	25	34	28	26	32	48	43	22	47	25
CNC86 21.4025	40	85	42.5	12.5	1	25	34	35	30	32.5	48	42	22	47	30
CNC86 21.5025	50	100	50	16	1	25	34	42	35	35	60		30	55	
CNC86 21.5032	50	100	50	16	1/4	32	41	42	35	35	60		30	61	
CNC86 21.6032	60	125	62.5	16	1/4	32	41	46	42.5	42.5	62.5		30	60	
CNC86 21.8040	80	160	80	20	1 1/2	40	53	60	55	55	80		40	78	

# Turning Toolholder – Form B2

## Left-Hand Short



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 22.1612	16	42	23	5	1/2	12	17	15	15	20	22	18	13	25	30
CNC86 22.1612.1	16	42	23	5	1/2	12	17	15	15	20	22	18	23	35	30
CNC86 22.2016	20	55	30	7	5/8	16	22	19	19	25	30	23	16	31	30
CNC86 22.2016.1	20	55	30	7	5/8	16	22	19	19	25	30	23	26	41	30
CNC86 22.2516	25	55	30	7	5/8	16	22	22.5	22.5	25	30	25	16	31	30
CNC86 22.2516.1	25	55	30	7	5/8	16	22	22.5	22.5	25	30	25	26	41	30
CNC86 22.3020	30	70	35	10	3/4	20	29	26	22	28	38	30	22	40	25
CNC86 22.3020.1	30	70	35	10	3/4	20	29	26	22	28	38	30	42	60	25
CNC86 22.3025	30	70	35	10	1	25	34	28	26	32	48	43	22	47	25
CNC86 22.4025	40	85	42.5	12.5	1	25	34	35	30	32.5	48	42	22	47	30
CNC86 22.5025	50	100	50	16	1	25	34	42	35	35	60		30	55	
CNC86 22.5032	50	100	50	16	1/4	32	41	42	35	35	60		30	61	
CNC86 22.6032	60	125	62.5	16	1/4	32	41	46	42.5	42.5	62.5		30	60	
CNC86 22.8040	80	160	80	20	1 1/2	40	53	60	55	55	80		40	78	

Special sizes available to your machine specifications:

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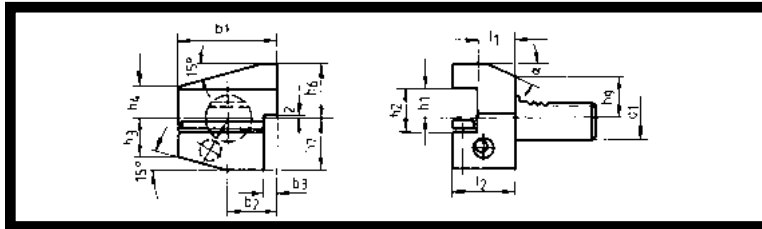
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# Turning Toolholder – Form B3

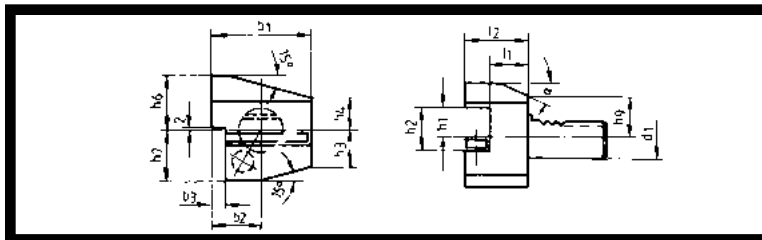
Right-Hand Short-Inverted



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 23.1612	16	42	23	5	1/2	12	17	15	15	22	20	18	13	25	30
CNC86 23.1612.1	16	42	23	5	1/2	12	17	15	15	22	20	18	23	35	30
CNC86 23.2016	20	55	30	7	5/8	16	22	19	19	30	25	23	16	31	30
CNC86 23.2016.1	20	55	30	7	5/8	16	22	19	19	30	25	23	26	41	30
CNC86 23.2516	25	55	30	7	5/8	16	22	22.5	22.5	30	25	25	16	31	30
CNC86 23.2516.1	25	55	30	7	5/8	16	22	22.5	22.5	30	25	25	26	41	30
CNC86 23.3020	30	70	35	10	3/4	20	29	26	22	38	35	28	22	40	25
CNC86 23.3020.1	30	70	35	10	3/4	20	29	26	22	38	38	30	42	60	25
CNC86 23.3025	30	70	35	10	1	25	34	26	28	48	31	38	22	47	25
CNC86 23.4025	40	85	42.5	12.5	1	25	34	35	30	48	42.5	32.5	22	47	30
CNC86 23.5025	50	100	50	16	1	25	34	42	35	60	50		30	55	
CNC86 23.5032	50	100	50	16	1/4	32	41	42	35	60	50		30	55	
CNC86 23.6032	60	125	62.5	16	1/4	32	41	46	42.5	62.5	62.5		30	61	
CNC86 23.8040	80	160	80	20	1/2	40	53	60	55	80	80		40	78	

# Turning Toolholder – Form B4

Left-Hand Short-Inverted



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 24.1612	16	42	23	5	1/2	12	17	15	15	22	20	18	13	25	30
CNC86 24.1612.1	16	42	23	5	1/2	12	17	15	15	22	20	18	23	35	30
CNC86 24.2016	20	55	30	7	5/8	16	22	19	19	30	25	23	16	31	30
CNC86 24.2016.1	20	55	30	7	5/8	16	22	19	19	30	25	23	26	41	30
CNC86 24.2516	25	55	30	7	5/8	16	22	22.5	22.5	30	25	25	16	31	30
CNC86 24.2516.1	25	55	30	7	5/8	16	22	22.5	22.5	30	25	25	26	41	30
CNC86 24.3020	30	70	35	10	3/4	20	29	26	22	38	35	28	22	40	25
CNC86 24.3020.1	30	70	35	10	3/4	20	29	26	22	38	38	30	42	60	25
CNC86 24.3025	30	70	35	10	1	25	34	26	28	48	31	38	22	47	25
CNC86 24.4025	40	85	42.5	12.5	1	25	34	35	30	48	42.5	32.5	22	47	30
CNC86 24.5025	50	100	50	16	1	25	34	42	35	60	50		30	55	
CNC86 24.5032	50	100	50	16	1/4	32	41	42	35	60	50		30	55	
CNC86 24.6032	60	125	62.5	16	1/4	32	41	46	42.5	62.5	62.5		30	61	
CNC86 24.8040	80	160	80	20	1/2	40	53	60	55	80	80		40	78	

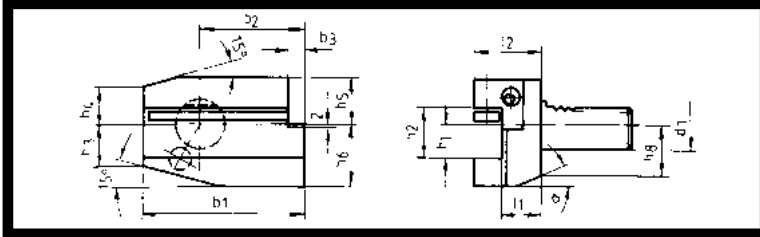
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# Turning Toolholder – Form B5

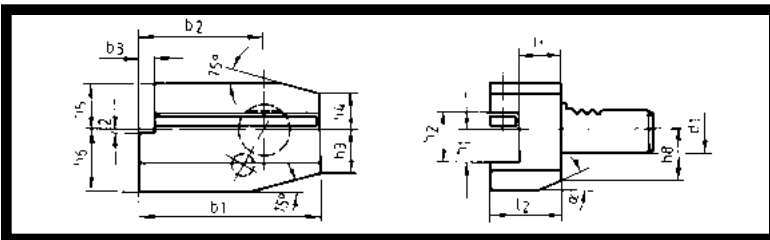
## Right-Hand Long



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 25.1612	16	58	39	5	1/2	12	17	15	15	20	22	18	13	25	30
CNC86 25.1612.1	16	58	39	5	1/2	12	17	15	15	20	22	18	23	35	30
CNC86 25.2016	20	75	50	7	5/8	16	22	19	19	25	30	23	16	31	30
CNC86 25.2016.1	20	75	50	7	5/8	16	22	19	19	25	30	23	26	41	30
CNC86 25.2516	25	75	50	7	5/8	16	22	22.5	22.5	25	30	25	16	31	30
CNC86 25.2516.1	25	75	50	7	5/8	16	22	22.5	22.5	25	30	25	26	41	30
CNC86 25.3020	30	100	65	10	3/4	20	29	26	22	28	38	30	22	40	25
CNC86 25.3020.1	30	100	65	10	3/4	20	29	26	22	28	38	30	42	60	25
CNC86 25.3025	30	100	65	10	1	25	35	33	22	28	45	40	22	47	25
CNC86 25.4025	40	118	75.5	12.5	1	25	34	35	30	32.5	48	42	22	47	30
CNC86 25.5025	50	130	80	16	1	25	34	42	35	35	60		30	55	
CNC86 25.5032	50	130	80	16	1/4	32	41	42	35	35	60		30	61	
CNC86 25.6032	60	145	82.5	16	1/4	32	41	46	42.5	42.5	62.5		30	61	
CNC86 25.8040	80	190	110	20	1 1/2	40	53	60	55	55	80		40	78	

# Turning Toolholder – Form B6

## Left-Hand Long



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 26.1612	16	58	39	5	1/2	12	17	15	15	20	22	18	13	25	30
CNC86 26.1612.1	16	58	39	5	1/2	12	17	15	15	20	22	18	23	35	30
CNC86 26.2016	20	75	50	7	5/8	16	22	19	19	25	30	23	16	31	30
CNC86 26.2016.1	20	75	50	7	5/8	16	22	19	19	25	30	23	26	41	30
CNC86 26.2516	25	75	50	7	5/8	16	22	22.5	22.5	25	30	25	16	31	30
CNC86 26.2516.1	25	75	50	7	5/8	16	22	22.5	22.5	25	30	25	26	41	30
CNC86 26.3020	30	100	65	10	3/4	20	29	26	22	28	38	30	22	40	25
CNC86 26.3020.1	30	100	65	10	3/4	20	29	26	22	28	38	30	42	60	25
CNC86 26.3025	30	100	65	10	1	25	35	33	22	28	44	40	22	47	25
CNC86 26.4025	40	118	75.5	12.5	1	25	34	35	30	32.5	48	42	22	47	30
CNC86 26.5025	50	130	80	16	1	25	34	42	35	35	60		30	55	
CNC86 26.5032	50	130	80	16	1/4	32	41	42	35	35	60		30	61	
CNC86 26.6032	60	145	82.5	16	1/4	32	41	46	42.5	42.5	62.5		30	61	
CNC86 26.8040	80	190	110	20	1 1/2	40	53	60	55	55	80		40	78	

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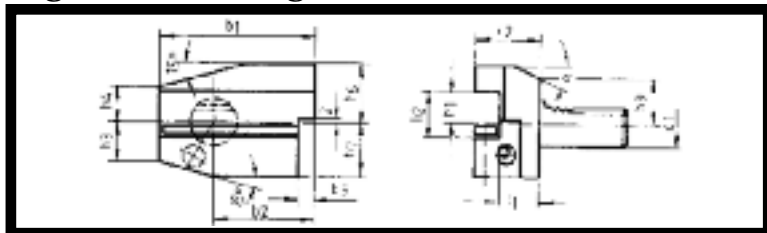
B6

VDI: DIN 69880



# Turning Toolholder – Form B7

Right-Hand Long-Inverted

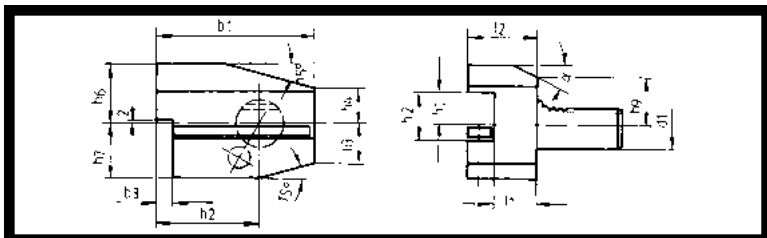


VDI: DIN 69880

PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>9</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 27.1612	16	58	39	5	1/2	12	17	15	15	22	20	18	13	24	30
CNC86 27.1612.1	16	58	39	5	1/2	12	17	15	15	22	20	18	23	34	30
CNC86 27.2016	20	75	50	7	5/8	16	22	19	19	30	25	23	16	30	30
CNC86 27.2016.1	20	75	50	7	5/8	16	22	19	19	30	25	23	26	40	30
CNC86 27.2516	25	75	50	7	5/8	16	22	22.5	22.5	30	25	25	16	30	30
CNC86 27.2516.1	25	75	50	7	5/8	16	22	22.5	22.5	30	25	25	26	40	30
CNC86 27.3020	30	100	65	10	3/4	20	29	26	22	38	35	28	22	40	25
CNC86 27.3020.1	30	100	65	10	3/4	20	29	26	22	38	35	28	42	60	25
CNC86 27.3025	30	100	65	10	1	25	34	26	28	44	35	40	22	47	25
CNC86 27.4025	40	118	75.5	12.5	1	25	34	35	30	48	42.5	32.5	30	44	30
CNC86 27.5025	50	130	80	16	1	25	34	42	35	60	50		30	55	
CNC86 27.5032	50	130	80	16	1/4	32	41	42	35	60	50		22	55	
CNC86 27.6032	60	145	82.5	16	1/4	32	41	46	42.5	62.5	62.5	42.5	30	60	
CNC86 27.8040	80	190	110	20	1 1/2	40	53	60	55	80	80		40	75	

# Turning Toolholder – Form B8

Left-Hand Long-Inverted



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>9</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 28.1612	16	58	39	5	1/2	12	17	15	15	22	20	18	13	24	30
CNC86 28.1612.1	16	58	39	5	1/2	12	17	15	15	22	20	18	23	34	30
CNC86 28.2016	20	75	50	7	5/8	16	22	19	19	30	25	23	16	30	30
CNC86 28.2016.1	20	75	50	7	5/8	16	22	19	19	30	25	23	26	40	30
CNC86 28.2516	25	75	50	7	5/8	16	22	22.5	22.5	30	25	25	16	30	30
CNC86 28.2516.1	25	75	50	7	5/8	16	22	22.5	22.5	30	25	25	26	40	30
CNC86 28.3020	30	100	65	10	3/4	20	29	26	22	38	35	28	22	40	25
CNC86 28.3020.1	30	100	65	10	3/4	20	29	26	22	38	35	28	42	60	25
CNC86 28.3025	30	100	65	10	1	25	34	26	28	48	42	40	22	47	25
CNC86 28.4025	40	118	75.5	12.5	1	25	34	42	35	60	50	32.5	22	44	
CNC86 28.5025	50	130	80	16	1	25	34	42	35	60	50		30	55	
CNC86 28.5032	50	130	80	16	1/4	32	41	42	35	60	50		30	55	30
CNC86 28.6032	60	145	82.5	16	1/4	32	41	46	42.5	62.5	62.5		30	60	
CNC86 28.8040	80	190	110	20	1 1/2	40	53	60	55	80	80		40	75	

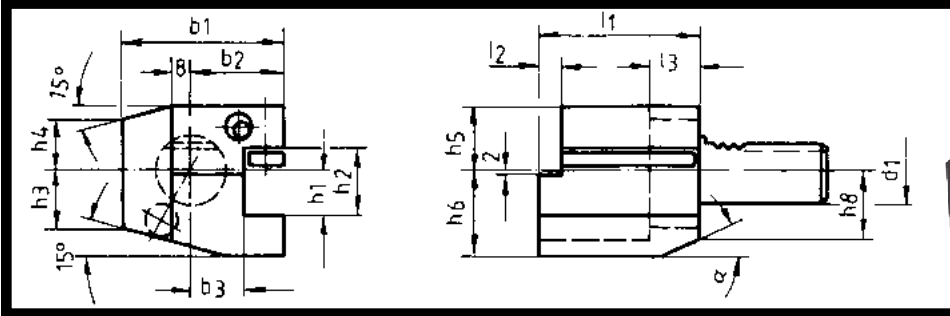
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# Turning Toolholder – Form C1

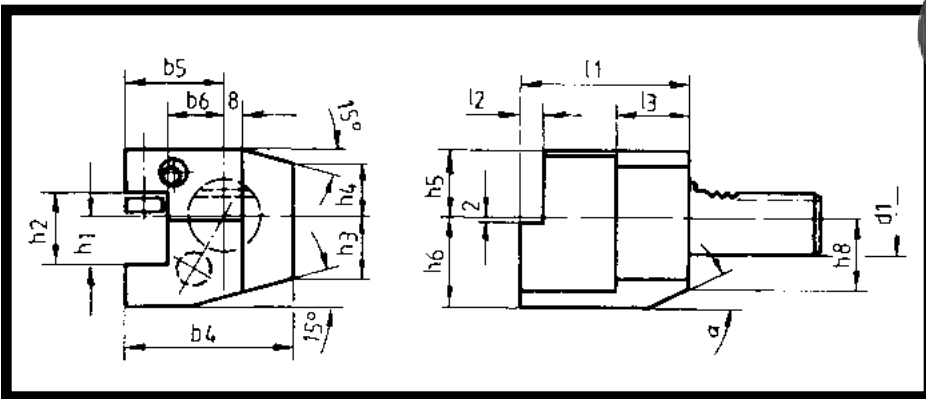
Square Tool Right-Hand



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	α
CNC86 31.1612	16	43	24	13	1/2	12	17	15	15	20	22	18	44	5	20	30
CNC86 31.2016	20	52	27	13	5/8	16	22	19	19	25	30	23	55	7	30	30
CNC86 31.2016.1	20	65	40	26	5/8	16	22	19	19	25	30	23	55	7	30	30
CNC86 31.2516	25	58	33	19	5/8	16	22	22.5	22.5	25	30	25	55	7	30	30
CNC86 31.3020	30	70	35	17	3/4	20	29	26	22	28	38	30	70	10	30	25
CNC86 31.3025	30	77	42	17	1	25	34	32	22	25	48	40	70	10	30	25
CNC86 31.4025	40	85	42.5	20.5	1	25	34	35	30	32.5	48	42	85	12.5	30	30
CNC86 31.5025	50	100	50	26	1	25	34	42	35	35	60		100	16	40	
CNC86 31.5032	50	100	50	25.5	1.25	32	41	42	35	35	60		100	16	40	
CNC86 31.6032	60	125	62.5	32.5	1.25	32	41	46	42.5	42.5	62.5		125	16	40	
CNC86 31.8040	80	160	80	41	1.5	40	53	60	55	55	80		160	20	40	

# Turning Toolholder – Form C2

Square Tool Left-Hand



PART NUMBER	d <sub>1</sub>	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>8</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	α
CNC86 32.1612	16	43	24	13	1/2	12	17	15	15	20	22	18	44	5	20	30
CNC86 32.2016	20	65	40	26	5/8	16	22	19	19	25	30	23	55	7	30	30
CNC86 32.2516	25	58	33	19	5/8	16	22	22.5	22.5	25	30	25	55	7	30	30
CNC86 32.3020	30	76	41	23	3/4	20	29	26	22	28	38	30	70	10	30	30
CNC86 32.4025	40	93	50.5	25.5	1	25	34	35	30	32.5	48	42	85	12.5	30	25
CNC86 32.5032	50	105	55	30.5	1.25	32	41	42	35	35	60		100	16	40	30
CNC86 32.6032	60	125	62.5	32.5	1.25	32	41	46	42.5	42.5	62.5		125	16	40	
CNC86 32.8040	80	160	80	41	1.5	40	53	60	55	55	80		160	20	40	

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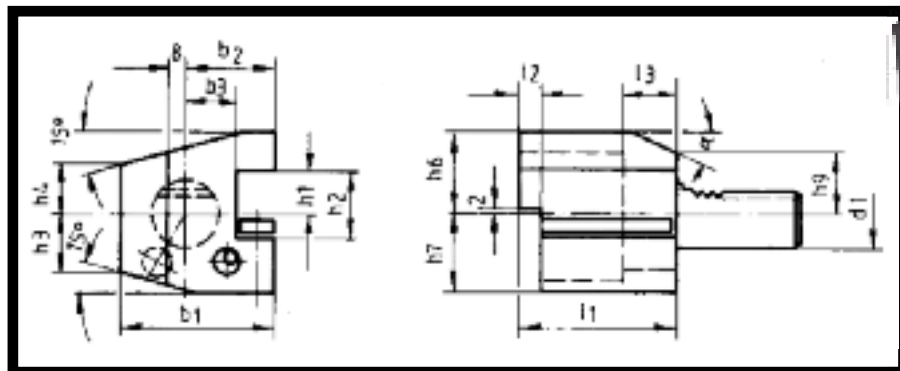




VDI: DIN 69880

# Turning Toolholder – Form C3

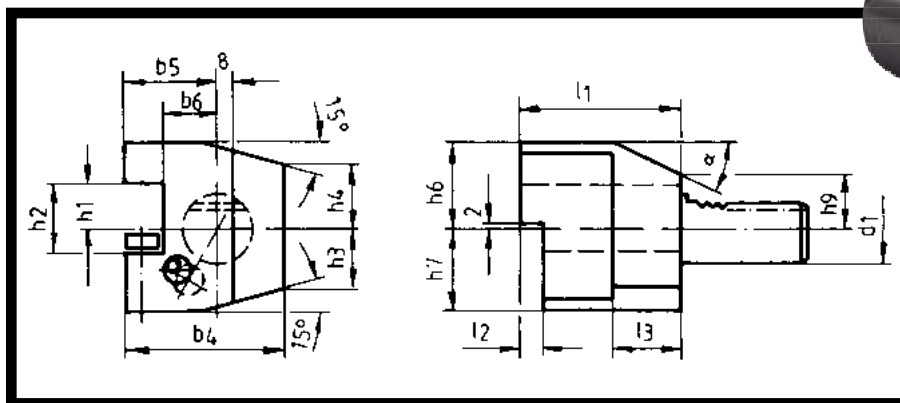
Square Tool Right-Hand Inverted



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> , in	h <sub>1</sub> , mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>9</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	α
CNC86 33.1612	16	43	24	13	1/2	12	17	15	15	22	20	18	44	5	20	30
CNC86 33.2016	20	52	27	13	5/8	16	22	19	19	30	25	23	55	7	30	30
CNC86 33.2016.1	20	65	40	26	5/8	16	22	19	19	30	25	23	55	7	30	30
CNC86 33.2516	25	58	33	19	5/8	16	22	22.5	22.5	30	25	25	55	7	30	30
CNC86 33.3020	30	70	35	17	3/4	20	29	26	22	38	35	28	70	10	30	25
CNC86 33.4025	40	85	42.5	20.5	1	25	34	35	30	48	42.5	42	85	12.5	30	30
CNC86 33.5032	50	100	50	25.5	1.25	32	41	42	35	60	50		100	16	40	
CNC86 33.6032	60	125	62.5	32.5	1.25	32	41	46	42.5	62.5	62.5		125	16	40	
CNC86 33.8040	80	160	80	41	1.5	40	53	60	55	80	80		160	20	40	

# Turning Toolholder – Form C4

Square Tool Left-Hand Inverted



PART NUMBER	d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	h <sub>1</sub> , in	h <sub>1</sub> , mm	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>9</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	α
CNC86 34.1612	16	43	24	13	1/2	12	17	15	15	22	20	18	44	5	20	30
CNC86 34.2016	20	65	40	26	5/8	16	22	19	19	30	25	23	55	7	30	30
CNC86 34.2516	25	58	33	19	5/8	16	22	22.5	22.5	30	25	25	55	7	30	30
CNC86 34.3020	30	76	41	23	3/4	20	29	26	22	38	35	28	70	10	30	25
CNC86 34.4025	40	90	47.5	25.5	1	25	34	35	30	48	42.5	42	85	12.5	30	30
CNC86 34.5032	50	105	55	30.5	1.25	32	41	42	35	60	50		100	16	40	
CNC86 34.6032	60	125	62.5	32.5	1.25	32	41	46	42.5	62.5	62.5		125	16	40	
CNC86 34.8040	80	160	80	41	1.5	40	53	60	55	80	80		160	20	40	

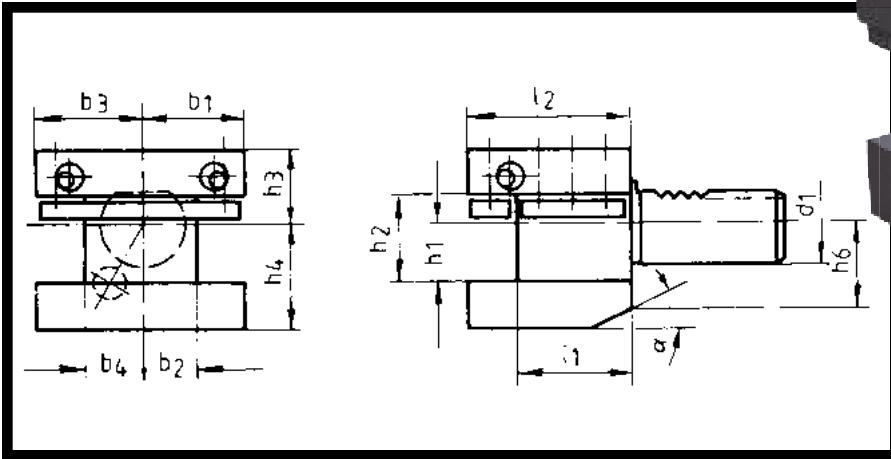
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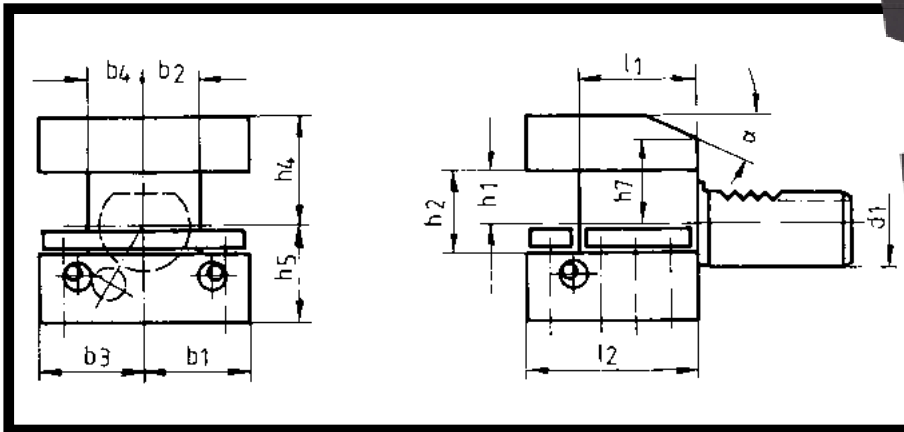


# Square Toolholder – Form D1



PART NUMBER	d <sub>1</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>6</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 41.2516	25	5/8	16	33	19	33	19	22	25	30	25	34	48	30°
CNC86 41.3020	30	3/4	20	35	17	41	23	29	28	38	30	42	60	25°
CNC86 41.4025	40	1	25	42.5	20.5	47.5	25.5	34	32.5	48	42	50	72	30°
CNC86 41.5032	50	1 1/4	32	50	25.5	55	30.5	41	35	60		60	85	
CNC86 41.6032	60	1 1/4	32	57.5	32.5	57.5	32.5	41	42.5	62.5		85	110	
CNC86 41.8040	80	1 1/2	40	76	41	76	41	53	55	80		105	140	

# Square Toolholder Inverted – Form D2



PART NUMBER	d <sub>1</sub>	h <sub>1</sub> in	h <sub>1</sub> mm	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	h <sub>2</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>7</sub>	L <sub>1</sub>	L <sub>2</sub>	α
CNC86 42.2516	25	5/8	16	33	19	33	19	22	30	25	25	34	48	30°
CNC86 42.3020	30	3/4	20	35	17	41	23	29	38	35	28	42	60	25°
CNC86 42.4025	40	1	25	42.5	20.5	47.5	25.5	34	48	42.5	32.5	50	72	30°
CNC86 42.5032	50	1 1/4	32	50	25.5	55	30.5	41	60	50		60	85	
CNC86 42.6032	60	1 1/4	32	57.5	32.5	57.5	32.5	41	62.5	62.5		85	110	
CNC86 42.8040	80	1 1/2	40	76	41	76	41	53	80	80		105	140	

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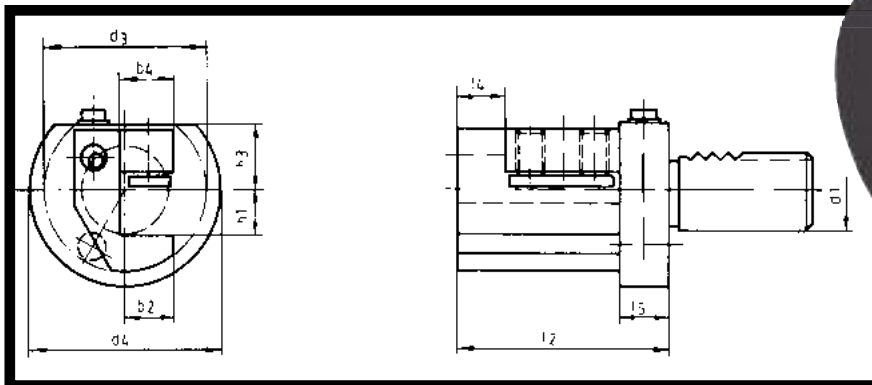
Superior Design/Premium Quality





# Axial Toolholder

Right-Hand or Left-Hand

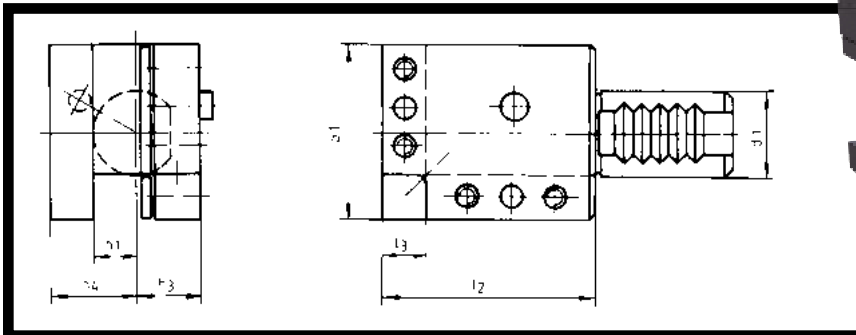


VDI: DIN 69880

PART NUMBER	d <sub>1</sub>	h <sub>1</sub> , in	h <sub>1</sub> , mm	h <sub>3</sub>	b <sub>2</sub>	b <sub>4</sub>	L <sub>2</sub>	L <sub>4</sub>	L <sub>5</sub>
CNC86 35.3016R	30	5/8	16	28	16	16	70	16	14
CNC86 35.3016L	30	5/8	16	28	16	16	70	16	14
CNC86 35.4020R	40	3/4	20	32.5	20	20	100	20	16
CNC86 35.4020L	40	3/4	20	32.5	20	20	100	20	16
CNC86 35.5025R	50	1	25	35	25	25	120	25	28
CNC86 35.5025L	50	1	25	35	25	25	120	25	28
CNC86 35.6032R	60	1 1/4	32	42.5	20	32	120	15	28
CNC86 35.6032L	60	1 1/4	32	42.5	20	32	120	15	28

# Radial-Axial Toolholder

Right-Hand or Left-Hand



PART NUMBER	d <sub>1</sub>	h <sub>1</sub> , in	h <sub>1</sub> , mm	L <sub>2</sub>	L <sub>3</sub>	b <sub>1</sub>	h <sub>3</sub>	h <sub>4</sub>
CNC86 36.3020R	30	3/4	20	70	18	70	28	38
CNC86 36.3020L	30	3/4	20	70	18	76	28	38
CNC86 36.4025R	40	1	25	103	25	85	32.5	48
CNC86 36.4025L	40	1	25	103	25	88	32.5	48
CNC86 36.5032R	50	1 1/4	32	126	31	105	35	60
CNC86 36.5032L	50	1 1/4	32	126	31	111	35	60
CNC86 36.6032R	60	1 1/4	32	138	31	125	42.5	62.5
CNC86 36.6032L	60	1 1/4	32	138	31	125	42.5	62.5
CNC86 36.8040R	80	1 1/2	40	140	35	160	55	80
CNC86 36.8040L	80	1 1/2	40	140	35	160	55	80

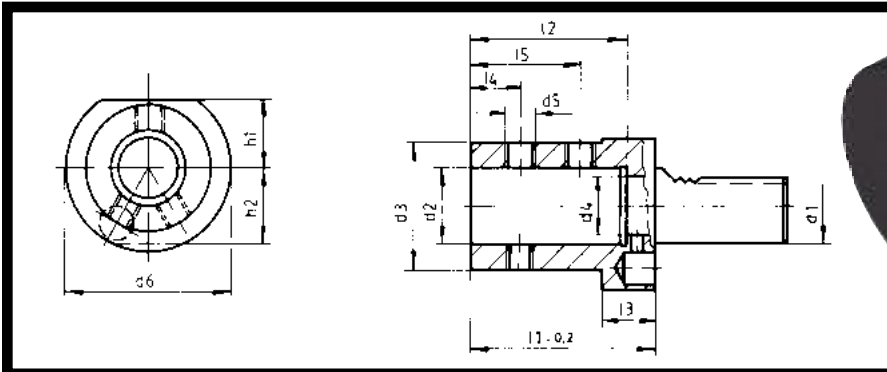
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# Boring Bar Holder – Form E1

Internal Coolant Flow



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>
CNC86 51.2016	20	5/8	16	48	12	3/8-16	50	23	23	67	54	18	15	35°
CNC86 51.2020	20	3/4	20	48	12	3/8-16	50	23	23	67	54	18	15	35°
CNC86 51.2025	20	1	25	48	17	3/8-16	50	23	23	71	59	18	17	40°
CNC86 51.2516	25	5/8	16	41	12	3/8-16	58	25	25	67	54	18	15	35°
CNC86 51.2520	25	3/4	20	44	12	3/8-16	58	25	25	67	54	18	15	35°
CNC86 51.2525	25	1	25	45	17	3/8-16	58	25	25	71	59	18	17	40°
CNC86 51.2532	25	1 1/4	32	50	24	1/2-13	60	25	25	80	63	22	15	38°
CNC86 51.3008	30	5/16	8	46	6	1/4-20	68	28	30	67	54	22	15	34°
CNC86 51.3012	30	1/2	12	46	10	1/4-20	68	28	30	67	54	22	15	34°
CNC86 51.3016	30	5/8	16	46	12	3/8-16	68	28	30	67	54	22	15	35°
CNC86 51.3020	30	3/4	20	50	12	3/8-16	68	28	30	67	54	22	15	35°
CNC86 51.3025	30	1	25	55	17	3/8-16	68	28	30	71	59	22	17	40°
CNC86 51.3032	30	1 1/4	32	62	24	3/8-16	68	28	30	75	63	22	20	44°
CNC86 51.3040	30	1 1/2	40	66	32	5/8-11	68	28	30	90	73	22	22	50°
CNC86 51.4016	40	5/8	16	54	12	3/8-16	83	32.5		67	54	22	15	35°
CNC86 51.4020	40	3/4	20	54	12	3/8-16	83	32.5		67	54	22	15	35°
CNC86 51.4025	40	1	25	63	17	3/8-16	83	32.5		75	59	22	17	40°
CNC86 51.4032	40	1 1/4	32	69	24	3/8-16	83	32.5		75	63	22	20	44°
CNC86 51.4040	40	1 1/2	40	76	32	5/8-11	83	32.5		90	73	22	22	54°
CNC86 51.4045	40	1 3/4	45	83	40	5/8-11	83	32		100	83		24	60°
CNC86 51.4050	40	2	50	81	32	5/8-11	83	32.5		100	83	22	24	60°
CNC86 51.5020	50	3/4	20	57	12	3/8-16	98	35		67	54	30	15	35°
CNC86 51.5025	50	1	25	63	17	3/8-16	98	35		80	59	30	17	40°
CNC86 51.5032	50	1 1/4	32	69	24	3/8-16	98	35		80	63	30	20	44°
CNC86 51.5040	50	1 1/2	40	76	32	5/8-11	98	35		100	73	30	22	54°
CNC86 51.5050	50	2	50	88	42	5/8-11	98	35		100	83	30	24	60°
CNC86 51.6020	60	3/4	20	57	12	3/8-16	123	42.5		80	54	30	15	35°
CNC86 51.6025	60	1	25	63	17	3/8-16	123	42.5		80	59	30	17	40°
CNC86 51.6032	60	1 1/4	32	69	24	3/8-16	123	42.5		80	63	30	20	44°
CNC86 51.6040	60	1 1/2	40	76	32	5/8-11	123	42.5		100	73	30	22	54°
CNC86 51.6045	60	1 3/4	45	83	40	5/8-11	123	42		100	83	30	22	54°
CNC86 51.6050	60	2	50	89	40	5/8-11	123	42.5		100	83	30	24	60°
CNC86 51.6065	60	2 1/2	65	89	40	5/8-18	123	42		100	83	30	22	54°
CNC86 51.8020	80	3/4	20	57	12	3/8-16	158	55		80	54	40	15	35°
CNC86 51.8025	80	1	25	63	17	3/8-16	158	55		80	59	40	17	40°
CNC86 51.8032	80	1 1/4	32	69	24	3/8-16	158	55		80	63	40	20	44°
CNC86 51.8040	80	1 1/2	40	76	32	1/2-13	158	55		100	73	40	22	54°
CNC86 51.8050	80	2	50	88	42	1/2-13	158	55		100	83	40	24	60°

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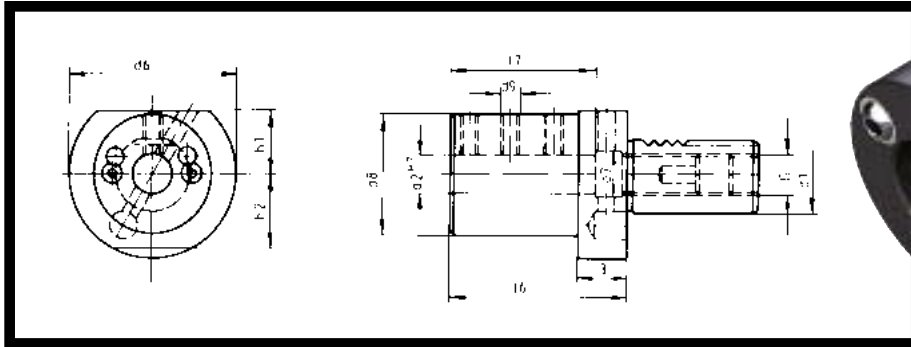
Superior Design/Premium Quality





# Boring Bar Holder – Form E2

Dual External Coolant Flow



VDI: DIN 69880

PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	d <sub>9</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>3</sub>	L <sub>6</sub>	L <sub>7</sub>	G
CNC86 52.1606	16	1/4	6	40	7	40	10-32	18	18	13	44	34	5/16-24
CNC86 52.1608	16	5/16	8	45	7	40	10-32	18	18	13	44	34	5/16-24
CNC86 52.1610	16	3/8	10	45	7	40	10-32	18	18	13	44	34	5/16-24
CNC86 52.1612	16	1/2	12	45	7	40	1/4-28	18	18	13	44	34	5/16-24
CNC86 52.1616	16	5/8	16	45	7	40	1/4-28	18	18	13	44	34	5/16-24
CNC86 52.2008	20	9/16	8	50	9	40	10-24	23	23	18	50	41	3/8-16
CNC86 52.2010	20	3/8	10	50	9	40	10-24	23	23	18	50	41	3/8-16
CNC86 52.2012	20	1/2	12	50	9	40	1/4-20	23	23	18	50	41	3/8-16
CNC86 52.2016	20	5/8	16	50	9	40	1/4-20	23	23	18	50	41	3/8-16
CNC86 52.2020	20	3/4	20	50	9	50	1/4-20	23	23	18	50	41	3/8-16
CNC86 52.2025	20	1	25	50	9	50	1/4-20	23	23	18	60	51	3/8-16
CNC86 52.2508	25	9/16	8	58	12.5	40	1/4-20	25	25	18	50	41	3/8-16
CNC86 52.2510	25	3/8	10	58	12.5	40	1/4-20	25	25	18	50	41	3/8-16
CNC86 52.2512	25	1/2	12	58	12.5	40	1/4-20	25	25	18	50	41	3/8-16
CNC86 52.2516	25	5/8	16	58	12.5	40	1/4-20	25	25	18	50	41	3/8-16
CNC86 52.2520	25	3/4	20	58	12.5	58	1/4-20	25	25	18	50	41	3/8-16
CNC86 52.2525	25	1	25	58	12.5	58	1/4-20	25	25	18	60	51	3/8-16
CNC86 52.3006	30	1/4	6	68	14	55	10-32	28	30	22	60	51	5/8-18
CNC86 52.3008	30	5/16	8	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3010	30	3/8	10	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3012	30	1/2	12	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3016	30	5/8	16	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3020	30	3/4	20	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3025	30	1	25	68	16.5	55	1/4-20	28	30	22	60	51	5/8-11
CNC86 52.3032	30	1 1/4	32	68	16.5	68	3/8-16	28	30	22	75	61	5/8-11
CNC86 52.3040	30	1 1/2	40	83	41	74	1/2-13	32	30	22	90	74	5/8-18
CNC86 52.4008	40	9/16	8	83	20.5	55	1/4-20	32.5		22	75	61	5/8-11
CNC86 52.4010	40	3/8	10	83	20.5	55	1/4-20	32.5		22	75	61	5/8-11
CNC86 52.4012	40	1/2	12	83	20.5	55	3/8-16	32.5		22	75	61	5/8-11
CNC86 52.4016	40	5/8	16	83	20.5	55	3/8-16	32.5		22	75	61	5/8-11
CNC86 52.4020	40	3/4	20	83	20.5	55	3/8-16	32.5		22	75	61	5/8-11
CNC86 52.4025	40	1	25	83	20.5	55	1/2-13	32.5		22	75	61	5/8-11
CNC86 52.4032	40	1 1/4	32	83	20.5	83	1/2-13	32.5		22	75	61	5/8-11
CNC86 52.4040	40	1 1/2	40	83	20.5	83	1/2-13	32.5		22	90	76	5/8-11
CNC86 52.4045	40	1 3/4	45	83	46	74	1/2-13	32		22	90	74	5/8-18
CNC86 52.4050	40	2	50	83	51	83	1/2-13	32			100	86	5/8-18
CNC86 52.5012	50	1/2	12	98	26.5	68	3/8-16	35		30	90	76	5/8-11
CNC86 52.5016	50	5/8	16	98	26.5	68	3/8-16	35		30	90	76	5/8-11
CNC86 52.5020	50	3/4	20	98	26.5	68	1/2-13	35		30	90	76	5/8-11
CNC86 52.5025	50	1	25	98	26.5	68	1/2-13	35		30	90	76	5/8-11
CNC86 52.5032	50	1 1/4	32	98	26.5	68	1/2-13	35		30	90	76	5/8-11
CNC86 52.5040	50	1 1/2	40	98	26.5	98	1/2-13	35		30	90	76	5/8-11
CNC86 52.5045	50	1 3/4	45	98	46	95	1/2-13	35		30	90	76	5/8-18
CNC86 52.5050	50	2	50	98	26.5	98	1/2-13	35		30	100	86	5/8-18
CNC86 52.5065	50	2 1/2	65	102	66	102	1/2-13	42			108	86	5/8-18
CNC86 52.6016	60	5/8	16	123	40.5	68	3/8-16	42.5		30	90	76	3/4-16
CNC86 52.6020	60	3/4	20	123	40.5	68	1/2-13	42.5		30	90	76	5/16-16
CNC86 52.6025	60	1	25	123	40.5	68	1/2-13	42.5		30	90	76	3/4-16
CNC86 52.6032	60	1 1/4	32	123	40.5	68	1/2-13	42.5		30	90	76	3/4-16
CNC86 52.6040	60	1 1/2	40	123	40.5	98	1/2-13	42.5		30	90	76	3/4-16
CNC86 52.6050	60	2	50	123	40.5	98	1/2-13	42.5		30	100	86	3/4-16
CNC86 52.6065	60	2 1/2	65	123	66	108	1/2-13	42		30	100	86	5/8-18
CNC86 52.8020	80	3/4	20	158	40.5	68	1/2-13	55		30	100	86	5/8-18
CNC86 52.8025	80	1	25	158	40.5	68	1/2-13	55		30	100	86	3/4-16
CNC86 52.8032	80	1 1/4	32	158	40.5	68	1/2-13	55		30	100	86	3/4-16
CNC86 52.8040	80	1 1/2	40	158	40.5	98	1/2-13	55		30	100	86	3/4-16
CNC86 52.8050	80	2	50	158	40.5	98	1/2-13	55		30	100	86	3/4-16
CNC86 52.8065	80	2 1/2	65	158	66	98	1/2-13	55		40	100	80	3/4-16

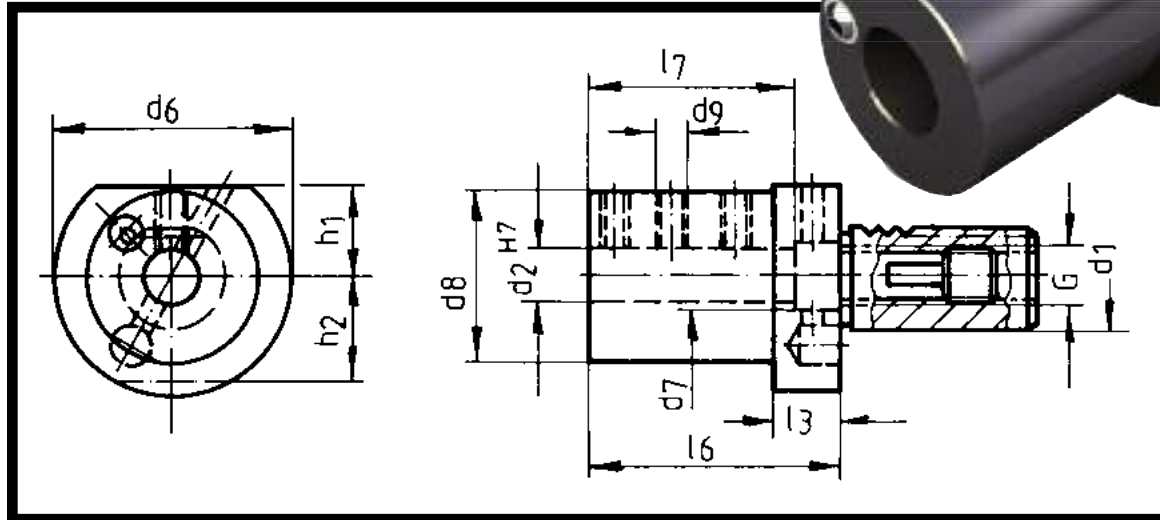
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# Boring Bar Holder – Form E4

External Single Coolant Flow



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	d <sub>9</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>3</sub>	L <sub>6</sub>	L <sub>7</sub>	G
CNC86 54.3008	30	5/16	8	68	16.5	55	1/4-20	28	30	22	85	70	5/8-11
CNC86 54.3010	30	3/8	10	68	16.5	55	5/16-18	28	30	22	85	70	5/8-11
CNC86 54.3012	30	1/2	12	68	16.5	55	5/16-18	28	30	22	85	70	5/8-11
CNC86 54.3016	30	5/8	16	68	16.5	55	3/8-16	28	30	22	85	70	5/8-11
CNC86 54.3020	30	3/4	20	68	16.5	55	3/8-16	28	30	22	85	70	5/8-11
CNC86 54.3025	30	1	25	68	16.5	55	1/2-13	28	30	22	85	70	5/8-11
CNC86 54.3032	30	1 1/4	32	68	16.5	55	1/2-13	28	30	30	85	70	5/8-11
CNC86 54.3040	30	1 1/2	40	68	41	73	1/2-13	28	30	22	85	70	5/8-18
CNC86 54.4008	40	5/16	8	83	20.5	55	1/4-20	32.5		22	95	80	5/8-11
CNC86 54.4010	40	3/8	10	83	20.5	55	5/16-18	32.5		22	95	80	5/8-11
CNC86 54.4012	40	1/2	12	83	20.5	55	3/8-16	32.5		22	95	80	5/8-11
CNC86 54.4016	40	5/8	16	83	20.5	55	3/8-16	32.5		22	95	80	5/8-11
CNC86 54.4020	40	3/4	20	83	20.5	55	3/8-16	32.5		22	95	80	5/8-11
CNC86 54.4025	40	1	25	83	20.5	55	1/2-13	32.5		22	95	80	5/8-11
CNC86 54.4032	40	1 1/4	32	83	20.5	55	1/2-13	32.5		30	95	80	5/8-11
CNC86 54.4040	40	1 1/2	40	83	20.5	70	1/2-13	32.5		30	95	80	5/8-11
CNC86 54.5012	50	1/2	12	98	26.5	68	3/8-16	35		30	95	78	5/8-11
CNC86 54.5016	50	5/8	16	98	26.5	68	3/8-16	35		30	95	78	5/8-11
CNC86 54.5020	50	3/4	20	98	26.5	68	1/2-13	35		30	95	78	5/8-11
CNC86 54.5025	50	1	25	98	26.5	68	1/2-13	35		30	95	78	5/8-11
CNC86 54.5032	50	1 1/4	32	98	26.5	68	1/2-13	35		30	95	78	5/8-11
CNC86 54.5040	50	1 1/2	40	98	26.5	68	1/2-13	35		30	95	78	5/8-11
CNC86 54.5045	50	1 3/4	45	98	46	89	1/2-13	35		30	95	78	5/8-18
CNC86 54.5050	50	2	50	98	51	89	1/2-13	35		30	95	78	5/8-18
CNC86 54.6016	60	5/8	16	123	40.5	68	1/2-13	42.5		30	100	83	3/4-16
CNC86 54.6020	60	3/4	20	123	40.5	68	1/2-13	42.5		30	100	83	3/4-16
CNC86 54.6025	60	1	25	123	40.5	68	1/2-13	42.5		30	100	83	3/4-16
CNC86 54.6032	60	1 1/4	32	123	40.5	68	1/2-13	42.5		30	100	83	3/4-16
CNC86 54.6040	60	1 1/2	40	123	40.5	80	1/2-13	42.5		30	100	83	3/4-16
CNC86 54.6050	60	2	50	123	51	95	1/2-13	42		30	100	83	5/8-18

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Superior Design/Premium Quality



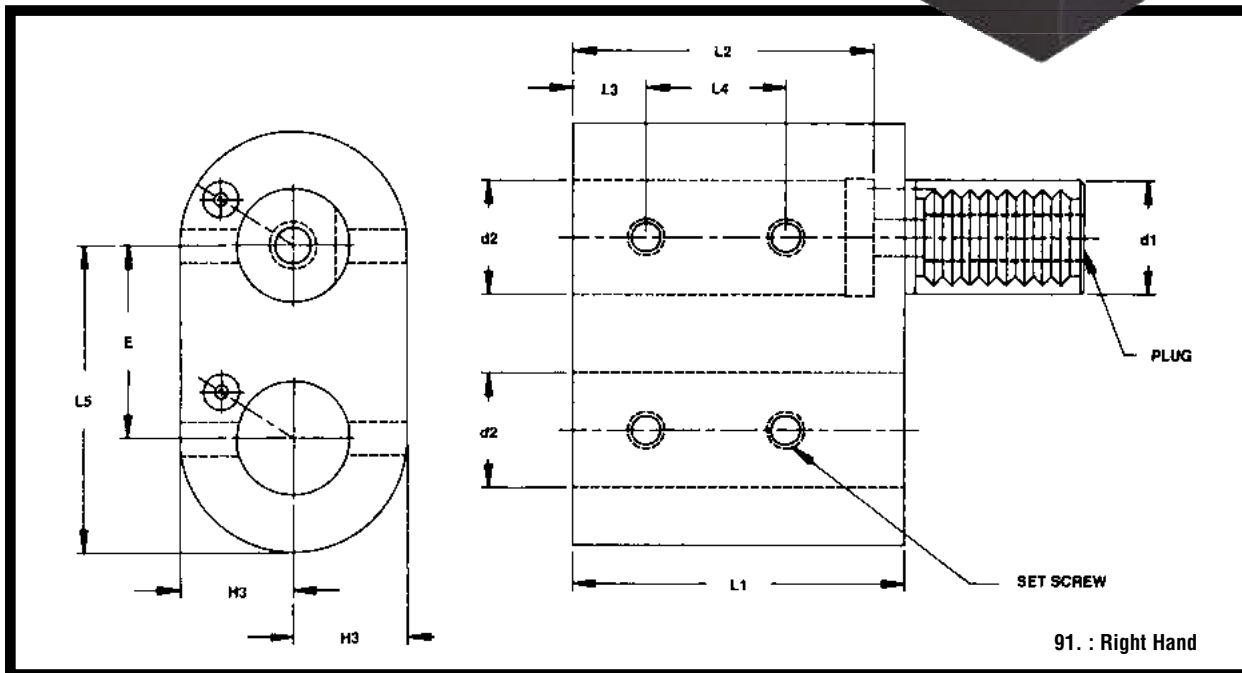


# Double Offset Boring Bar Holder

Right-Hand or Left-Hand



92. : Left Hand



## RIGHT-HAND

PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	E	H <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	SET SCREW	PLUG
CNC86 91.2020	20	¾	20	32	25	45	43	10	20	50	¼-20	⅜-24
CNC86 91.3025	30	1	25	45	34	56	50	14	24	65	¼-20	⅝-18
CNC86 91.4032	40	1¼	32	50	42	66	63	15	30	75	⅜-16	⅝-18
CNC86 91.5040	50	1½	40	65	49	80	75	18	38	95	½-13	⅝-18
CNC86 91.6050	60	2	50	80	62	90	85	20	46	120	½-13	⅝-18

## LEFT-HAND

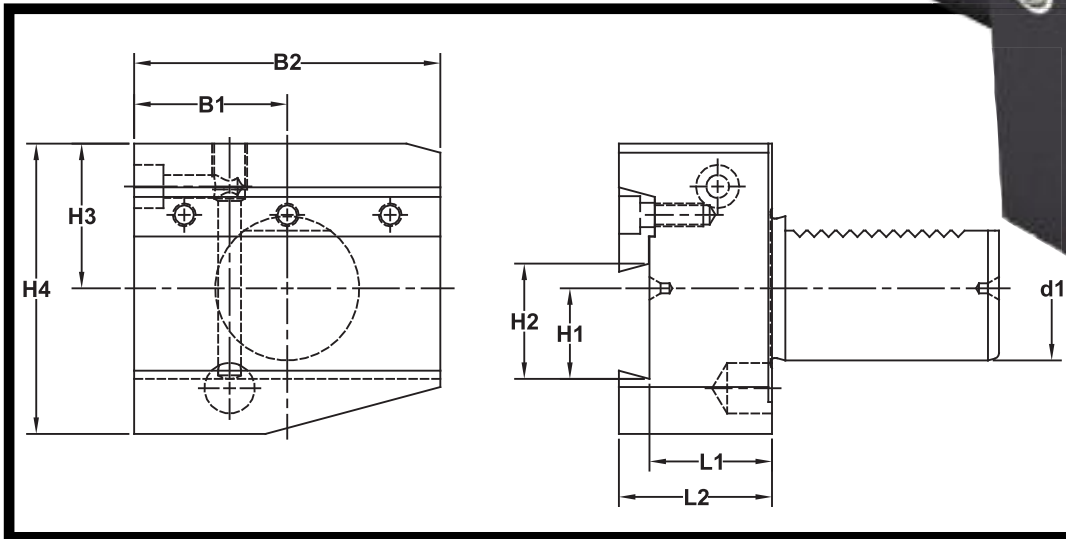
PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	E	H <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	SET SCREW	PLUG
CNC86 92.2020	20	¾	20	32	25	45	43	10	20	50	¼-20	⅜-24
CNC86 92.3025	30	1	25	45	34	56	50	14	24	65	¼-20	⅝-18
CNC86 92.4032	40	1¼	32	50	42	66	63	15	30	75	⅜-16	⅝-18
CNC86 92.5040	50	1½	40	65	49	80	75	18	38	95	½-13	⅝-18
CNC86 92.6050	60	2	50	80	62	90	85	20	46	120	½-13	⅝-18

**We Now Repair Driven VDI Tooling Guaranteed!**



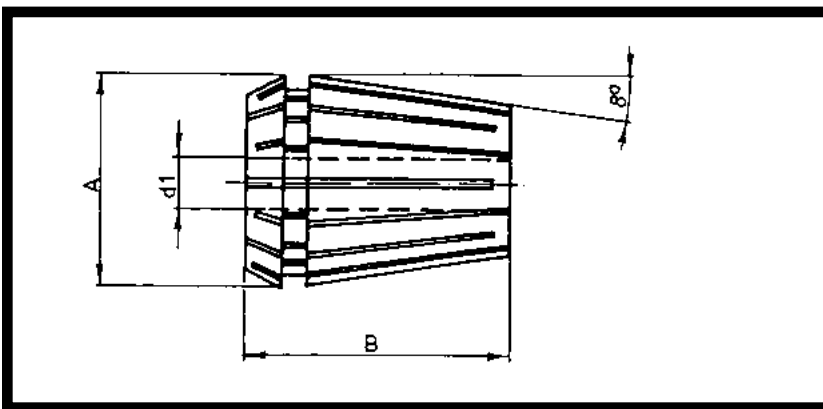


# Cut-Off Blade Holder— Form D5



PART NUMBER	D1	H1	H2	H3	H4	L1	L2
CNC86 45.3025	30	21	25	40	80	34	42.5
CNC86 45.4032	40	25	32	40	80	34	42.5

# Collet – Form ER



PART NUMBER	d, in	d, mm	A	B	Increments mm
ER16	1/32-3/8	.5-10	17	27	1
ER20	1/16-1/2	1-12	21	31	1
ER25	1/16-5/8	1-16	26	35	1
ER32	3/32-3/4	2-20	33	40	1
ER40	1/8-1	3-25	41	46	1
ER50	7/16-1 5/16	10-34	52	60	2

**We Now Repair Driven VDI Tooling Guaranteed!**

Superior Design/Premium Quality



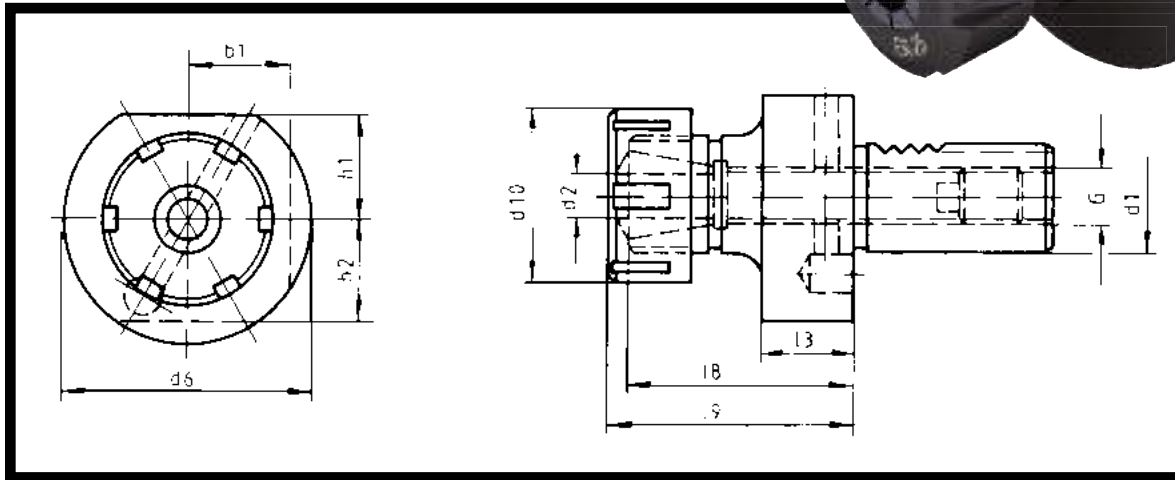


# Collet Chuck – Form E3

ER & RDO Style



VDI: DIN 69880



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> in	d <sub>2</sub> mm	d <sub>6</sub>	d <sub>10</sub>	b <sub>1</sub>	L <sub>3</sub>	L <sub>8</sub>	L <sub>9</sub>	h <sub>1</sub>	h <sub>2</sub>	G	COLLET TYPE
CNC86 53.1616	16	1/32-3/8	1/2-10	40	28		13	30	40	18	18	9/16-24	ER16
CNC86 53.1620	16	1/32-9/16	1-12	40	34		13	33	45	18	18	9/16-24	ER20
CNC86 53.2016	20	1/32-3/8	1/2-10	50	28		18	30	40	23	23	3/8-24	ER16
CNC86 53.2025	20	1/32-5/8	1-16	50	42		18	38	50	23	23	3/8-24	ER25
CNC86 53.2032	20	1/16-3/4	2-20	50	50		18	48	60	23	23	3/8-24	ER32
CNC86 53.2040	20	3/32-1 1/32	3-25	50	63		18	52	66	23	23	3/8-24	ER40
CNC86 53.2525	25	1/32-5/8	1-16	58	42		18	38	50	25	25	3/8-24	ER25
CNC86 53.2532	25	1/16-3/4	2-20	58	50		18	48	60	25	25	3/8-24	ER32
CNC86 53.3025	30	1/32-5/8	1-16	68	42	30	22	63	75	28	30	5/8-18	ER25
CNC86 53.3032	30	1/16-3/4	2-20	68	50	30	22	63	75	28	30	5/8-18	ER32
CNC86 53.3040	30	3/32-1 1/32	3-25	68	63	30	22	61	75	28	30	5/8-18	ER40
CNC86 53.4025	40	1/32-5/8	1-16	83	42		22	63	75	32.5		5/8-18	ER25
CNC86 53.4032	40	1/16-3/4	2-20	83	50		22	63	75	32.5		5/8-18	ER32
CNC86 53.4040	40	3/32-1 1/32	3-25	83	63		22	61	75	32.5		5/8-18	ER40
CNC86 53.5040	50	3/32-1 1/32	3-25	98	63		30	61	75	35		5/8-18	ER40
CNC86 53.6040	60	3/32-1 1/32	3-25	123	63		30	61	75	42.5		5/8-18	ER40
CNC86 53.20415	20	1/16-5/8	1 1/2-16	50	43		18	43	57	23	23	5/8-18	EX25
CNC86 53.25415	25	1/16-5/8	1 1/2-16	58	43		18	48	62	25	25	5/8-18	EX25
CNC86 53.30415	30	1/16-5/8	1 1/2-16	68	43	30	22	47	57	28	30	5/8-18	EX25
CNC86 53.30462	30	1/16-1	1 1/2-25	68	60		22	59	75	28	30	5/8-18	EX32
CNC86 53.40415	40	1/16-5/8	1 1/2-16	83	43	30	22	43	57	32.5		5/8-18	EX25
CNC86 53.40462	40	1/16-1	1 1/2-25	83	60	30	22	59	75	32.5		5/8-18	EX32
CNC86 53.40467	40	1/8-1 1/4	3 1/2-32	83	72		30	78	90	32.5		5/8-18	EX40
CNC86 53.50462	50	1/16-1	1 1/2-25	98	60		30	59	75	35		5/8-18	EX32
CNC86 53.50467	50	1/8-1 1/4	3 1/2-32	98	72		30	78	90	35		5/8-18	EX40
CNC86 53.60467	60	1/8-1 1/4	3 1/2-32	123	72		30	78	90	42.5		5/8-18	EX40

**We Now Repair Driven VDI Tooling Guaranteed!**





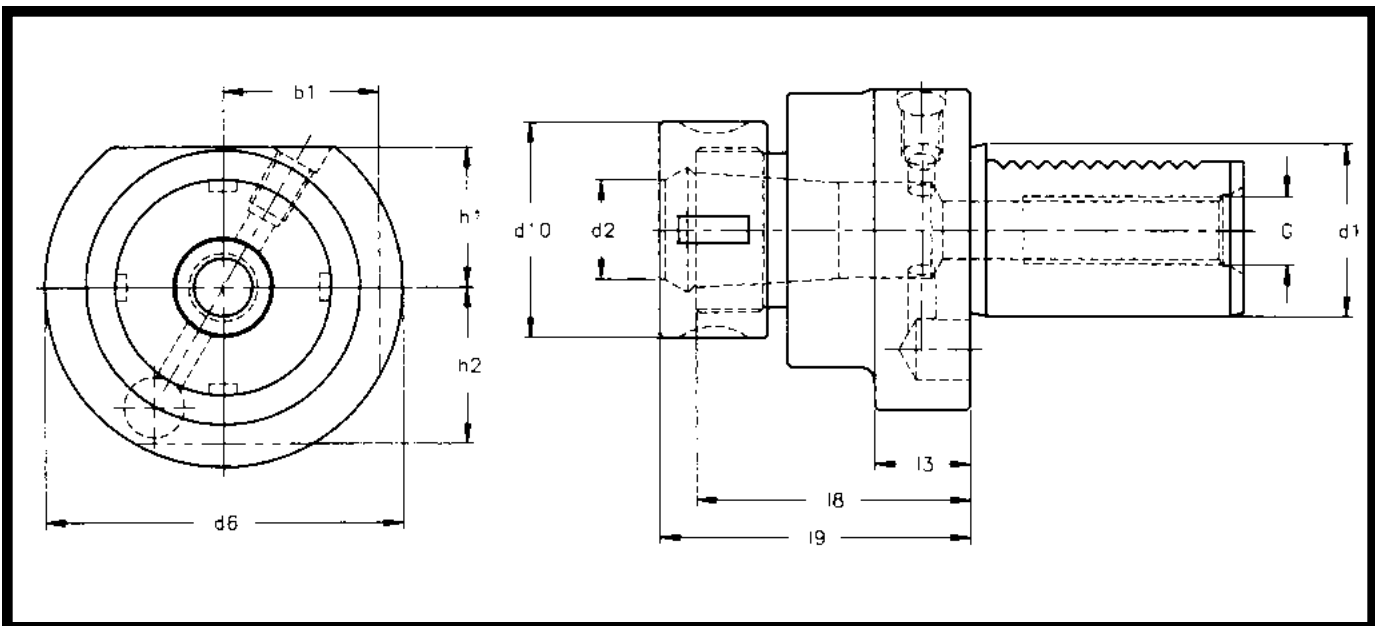


# Collet Chuck – Form E3

TG75 and TG100 Style



VDI: DIN 69880



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>6</sub>	d <sub>10</sub>	b <sub>1</sub>	L <sub>3</sub>	L <sub>8</sub>	L <sub>9</sub>	h <sub>1</sub>	h <sub>2</sub>	g	COLLET TYPE
CNC86 53.3075TG	30	3/64-3/4	68	50	30	22	63	77.4	28	30	5/8-18	75TG
CNC86 53.30100TG	30	3/32-1	68	60	30	22	63	82.1	28	30	5/8-18	100TG
CNC86 53.4075TG	40	3/64-3/4	83	50		22	63	77.4	32.5		5/8-18	75TG
CNC86 53.40100TG	40	3/32-1	83	60		22	63	82.1	32.5		5/8-18	100TG
CNC86 53.5075TG	50	3/64-3/4	98	50		30	71	77.4	35		5/8-18	75TG
CNC86 53.50100TG	50	3/32-1	98	60		30	71	82.1	35		5/8-18	100TG
CNC86 53.6075TG	60	3/64-3/4	123	50		30	71	77.4	42.5		5/8-18	75TG
CNC86 53.60100TG	60	3/32-1	123	60		30	71	82.1	42.5		5/8-18	100TG
CNC86 53.8075TG	80	3/64-3/4	158	50		40	63	77.4	55		5/8-18	75TG
CNC86 53.80100TG	80	3/32-1	158	60		40	63	82.1	55		5/8-18	100TG

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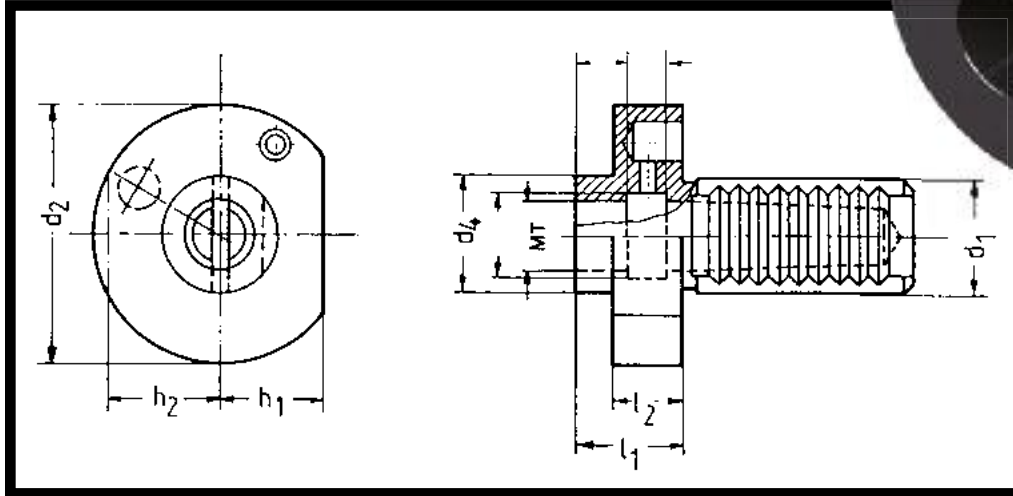




# Morse Taper VDI



VDI: DIN 69880



PART NUMBER	d <sub>1</sub>	MT	d <sub>2</sub>	d <sub>4</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
CNC86 71.2010	20	1	50		23	23	23	
CNC86 71.2510	25	1	58		25	25	23	
CNC86 71.2520	25	2	58		25	25	27	
CNC86 71.3010	30	1	68		28	30	27	
CNC86 71.3020	30	2	68		28	30	27	
CNC86 71.3030	30	3	68		28	30	70	
CNC86 71.4010	40	1	83	55	32.5		36	22
CNC86 71.4020	40	2	83	55	32.5		36	22
CNC86 71.4030	40	3	83	62	32.5		36	22
CNC86 71.4040	40	4	83	68	32.5		80	22
CNC86 71.5020	50	2	98	59	35		36	30
CNC86 71.5030	50	3	98	62	35		36	30
CNC86 71.5040	50	4	98	69	35		50	30
CNC86 71.6020	60	2	123	58	42.5		36	30
CNC86 71.6030	60	3	123	58	42.5		36	30
CNC86 71.6040	60	4	123	68	42.5		50	30
CNC86 71.6050	60	5	123	98	42.5		63	30
CNC86 71.8040	80	4	158	68	55		50	40
CNC86 71.8050	80	5	158	98	55		50	40
CNC86 71.3020T	30	2	68		28	30	37	
CNC86 71.3030T	30	3	68		28	30	70	
CNC86 71.4020T	40	2	83	55	32.5		46	22
CNC86 71.4030T	40	3	83	62	32.5		56	22
CNC86 71.4040T	40	4	83	68	32.5		92	22
CNC86 71.5020T	50	2	98	59	35		46	30
CNC86 71.5030T	50	3	98	62	35		46	30
CNC86 71.5040T	50	4	98	69	35		62	30
CNC86 71.6020T	60	2	98	58	42.5		46	30
CNC86 71.6030T	60	3	98	58	42.5		46	30
CNC86 71.6040T	60	4	123	68	42.5		62	30

Form "T" has Tang enclosed

**We Now Repair Driven VDI Tooling Guaranteed!**





# Interchangeable Head VDI

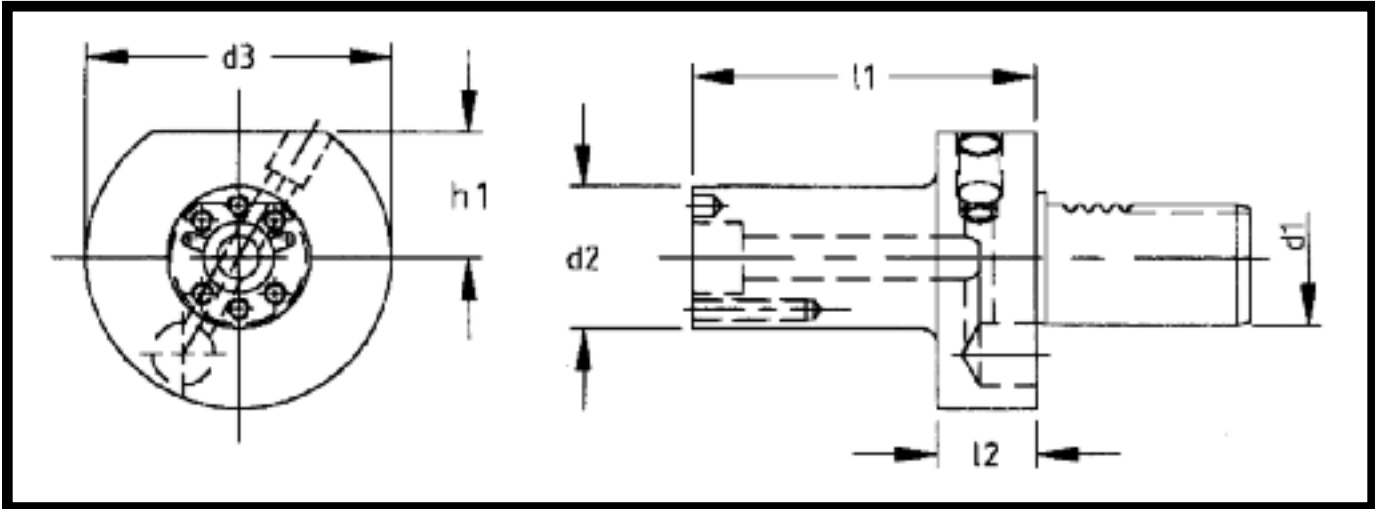
Our new line of Interchangeable Head Boring System VDI Toolholders are designed to fit your Kennametal Bolt-on Boring Heads. The DIN 69 880 VDI Toolholder will accept a Kennametal style LP-series Boring Head with internal coolant capabilities.

These toolholders are designed to increase your productivity in boring applications and maintain higher quality surface finishes as a result of a more statically stable tool.

Eliminates a joint in tool set-ups which have been known to show performance increases up to 20% to 30%.



VDI: DIN 69880



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>
CNC86 58.3032-3	30	1¼	68	75	22	28
CNC86 58.3032-4	30	1¼	68	100	22	28
CNC86 58.3032-5	30	1¼	68	125	22	28
CNC86 58.3040-3	30	1½	68	75	22	28
CNC86 58.3040-4	30	1½	68	100	22	28
CNC86 58.3040-5	30	1½	68	125	22	28
CNC86 58.4032-3	40	1¼	83	75	22	31
CNC86 58.4032-4	40	1¼	83	100	22	31
CNC86 58.4032-5	40	1¼	83	125	22	31

PART NUMBER	d <sub>1</sub>	d <sub>2</sub> inch	d <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	h <sub>1</sub>
CNC86 58.4040-3	40	1½	83	75	22	31
CNC86 58.4040-4	40	1½	83	100	22	31
CNC86 58.4040-5	40	1½	83	125	22	31
CNC86 58.5032-3	50	1¼	98	75	30	35
CNC86 58.5032-4	50	1¼	98	100	30	35
CNC86 58.5032-5	50	1¼	98	125	30	35
CNC86 58.5040-3	50	1½	98	75	30	35
CNC86 58.5040-4	50	1½	98	100	30	35
CNC86 58.5040-5	50	1½	98	125	30	35

**We Now Repair Driven VDI Tooling Guaranteed!**

Superior Design/Premium Quality



B20



VDI: DIN 69880

# VDI BAR PULLER

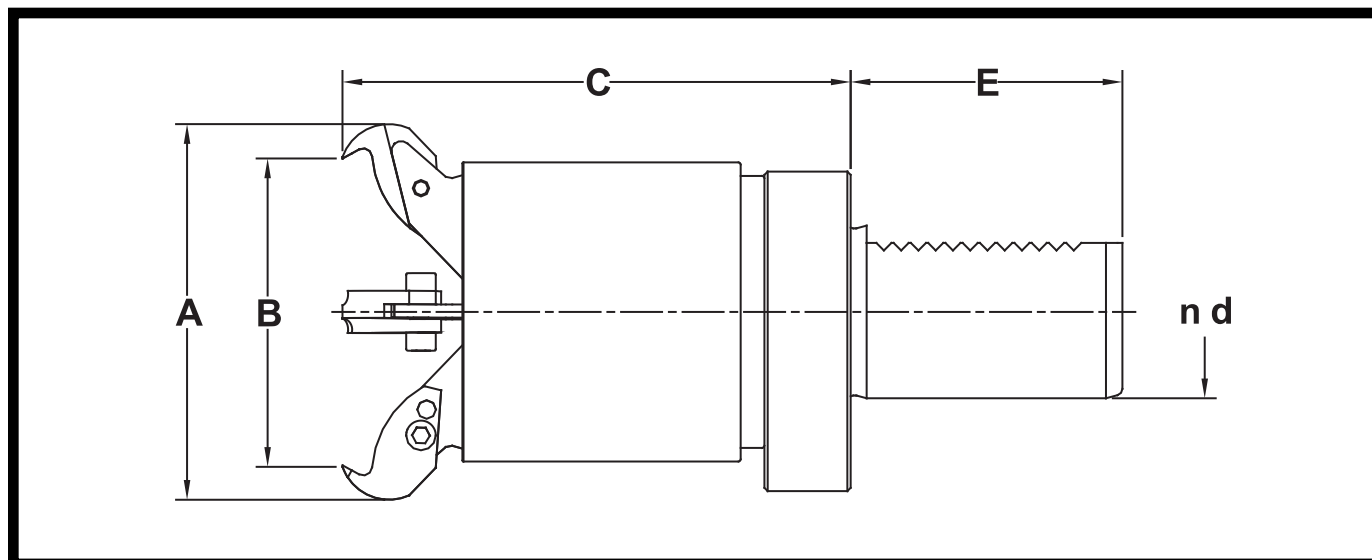
Bar Pullers to fit your DIN 69880 VDI 30MM and 40MM Turret and allow you the flexibility to hold a Variety of Shapes and Diameters of Material: Flat, Hex, Square and Round.



## Why use a Bar Puller?

- They provide a simple and inexpensive method for automating any CNC Lathe.
- Costs far less than a bar feed.
- Bar Pullers don't take up valuable Floor Space.
- They are Easy to Set up and use-no electrical interface required.
- Maintenance-Free Operation.
- They can be easily moved from one machine to another.
- A wide gripping range is obtained from a very compact design.
- **Gripping Range:** 1/8" to 3 1/8" Diameter.

**Included for Free: a Set of Hard Steel Fingers for your Bar Puller**



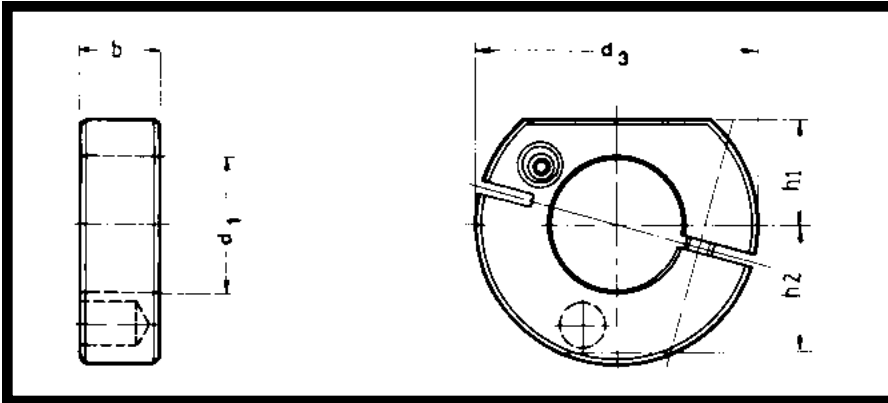
PART NUMBER	D	A	B	C	E
BP85.30	30mm	100	1/8 - 3-1/8	114	55
BP85.40	40mm	100	1/8 - 3-1/8	118	63





# Clamping Ring – Form Z1

Internal Coolant

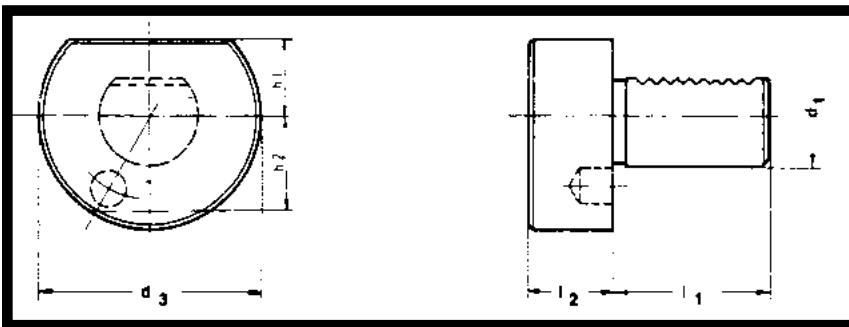


PART NUMBER	d <sub>2</sub> inch	d <sub>2</sub> metric	d <sub>3</sub>	b	h <sub>1</sub>	h <sub>2</sub>
CNC86 63.5020	¾	20	50	15	23	23
CNC86 63.5825	1	25	58	16	25	25
CNC86 63.6830	1¼	32	68	20	28	30
CNC86 63.8340	1½	40	83	22	32.5	
CNC86 63.9850	2	50	98	30	35	
CNC86 63.12360	2¼	60	123	30	42.5	
CNC86 63.15880	3	80	158	40	55	

# Plug – Form Z2

Steel or Plastic:

Protect your Turret from Chips!



PART NUMBER	d <sub>1</sub>	d <sub>3</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
CNC86 82.1640S	16	40	18	18	32	13
CNC86 82.1640P	16	40	18	18	32	13
CNC86 82.2050S	20	50	23	23	40	16
CNC86 82.2050P	20	50	23	23	40	16
CNC86 82.2558S	25	58	25	25	48	16
CNC86 82.2558P	25	58	25	25	48	16
CNC86 82.3068S	30	68	28	30	55	16
CNC86 82.3068P	30	68	28	30	55	16

PART NUMBER	d <sub>1</sub>	d <sub>3</sub>	h <sub>1</sub>	h <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
CNC86 82.4083S	40	83	32.5		63	20
CNC86 82.4083P	40	83	32.5		63	20
CNC86 82.5098S	50	98	35		78	20
CNC86 82.5098P	50	98	35		78	20
CNC86 82.60123S	60	123	42.5		94	20
CNC86 82.60123P	60	123	42.5		94	20
CNC86 82.80158S	80	158	55		124	20
CNC86 82.80158P	80	158	55		124	20

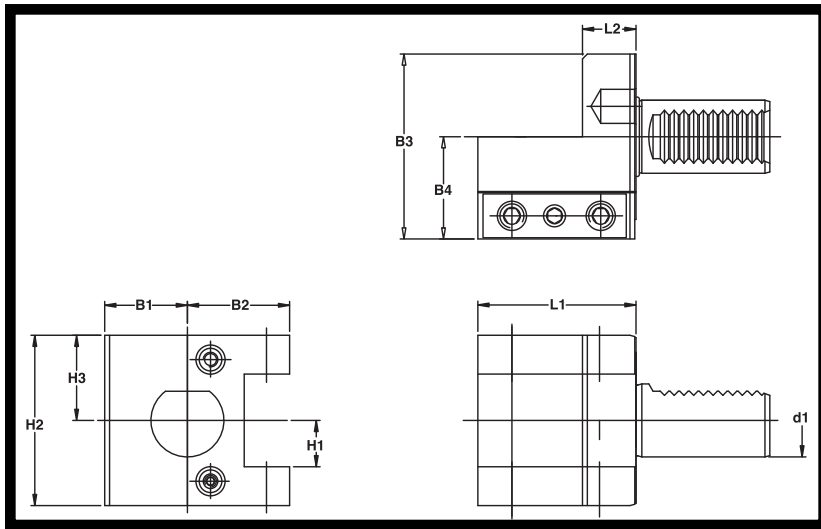
VDI: DIN 69880





# PM Facing Holder - Form C1

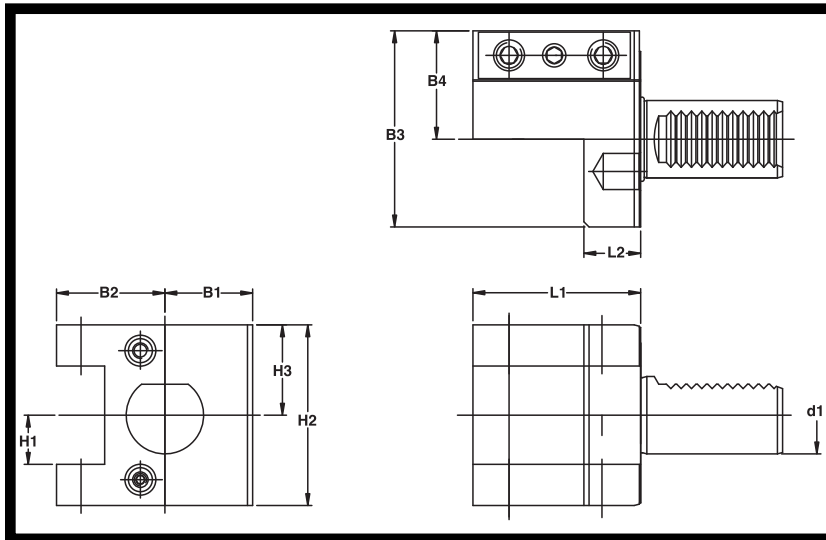
## Right Hand Peripheral Mounted VDI



PART NUMBER	d <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>
PM31.3020L	30	34	42	76	42	3/4	70	35	65	22
PM31.3020S	30	34	42	76	42	3/4	70	35	45	22
PM31.4025L	40	42.5	50	92.5	50	1	96	48	85	30
PM31.4025S	40	42.5	50	92.5	50	1	96	48	70	30

# PM Facing Holder - Form C2

## Left Hand Peripheral Mounted VDI



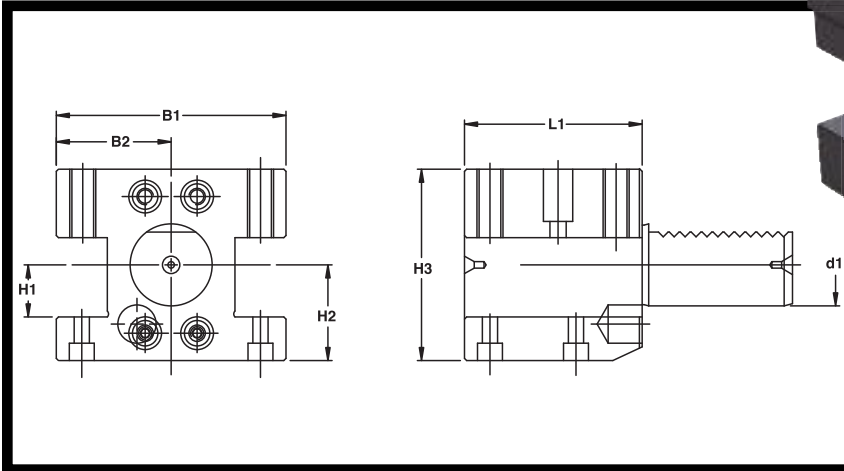
PART NUMBER	d <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>
PM32.3020L	30	34	42	76	42	3/4	70	35	65	22
PM32.3020S	30	34	42	76	42	3/4	70	35	45	22
PM32.4025L	40	42.5	50	92.5	50	1	96	48	85	30
PM32.4025S	40	42.5	50	92.5	50	1	96	48	70	30





# PM Double Square - Form D1

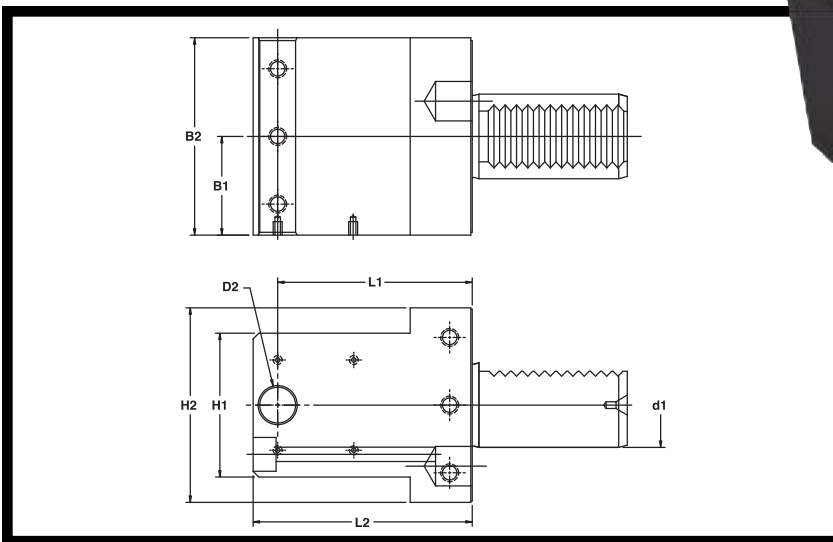
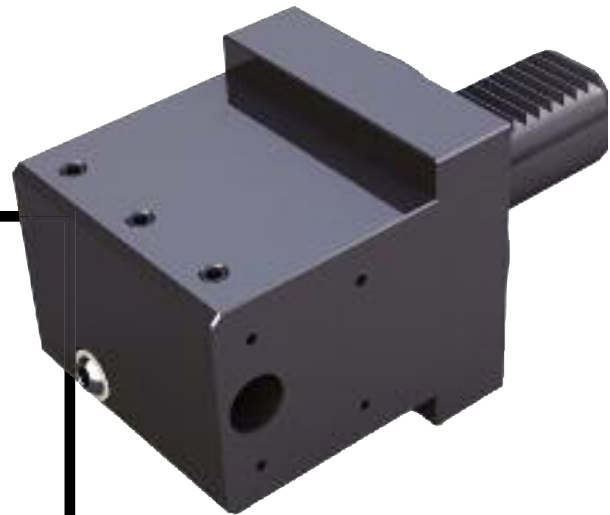
OD Holder Peripheral Mounted VDI



PART NUMBER	d <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	L <sub>1</sub>
PM41.3020	30	84	42	3/4	35	75	65
PM41.4025	40	120	60	1	48	96	85

# PM Y-Axis Drill Holder

Peripheral Mounted VDI



PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
PM59.3012D	30	1/2	35	70	51	69	69	77.7
PM59.4012D	40	1/2	42.5	85	75	96	78	103

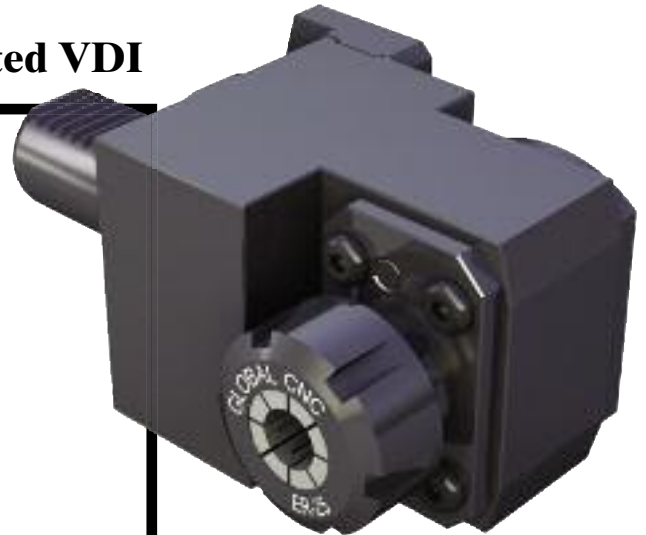
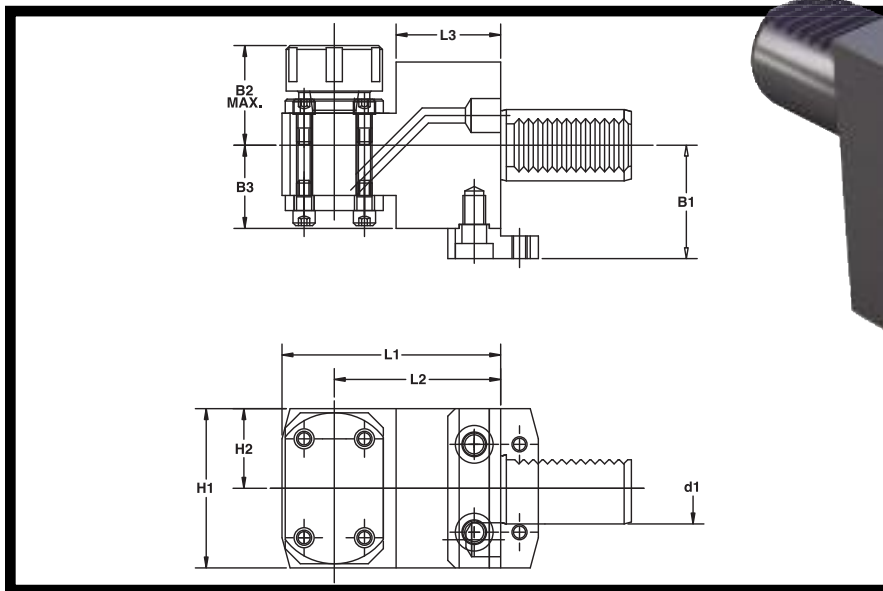
PERIPHERAL VDI





# PM Collet Chuck

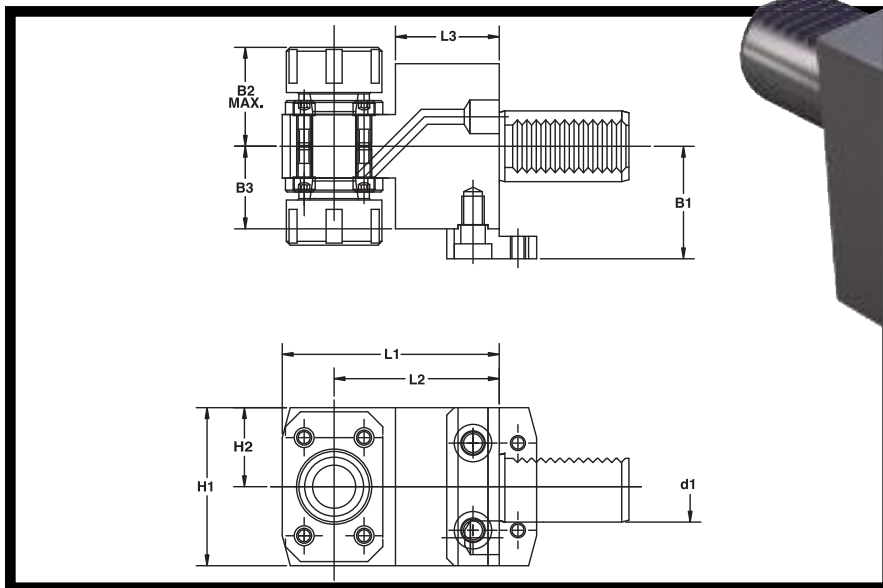
## ER Style Right Hand Peripheral Mounted VDI



PART NUMBER	d <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
PM53.3025ER	30	53	50.5	35	67	33.5	92	70	44
PM53.4032ER	40	72	57	42.5	96	48	125	100	65

# PM Collet Chuck Double

## ER Style Double Two Sided



PART NUMBER	d <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
PM93.3025ER	30	53	50.5	35	67	33.5	92	70	44
PM93.4032ER	40	72	57	42.5	96	48	125	100	65

PERIPHERAL VDI

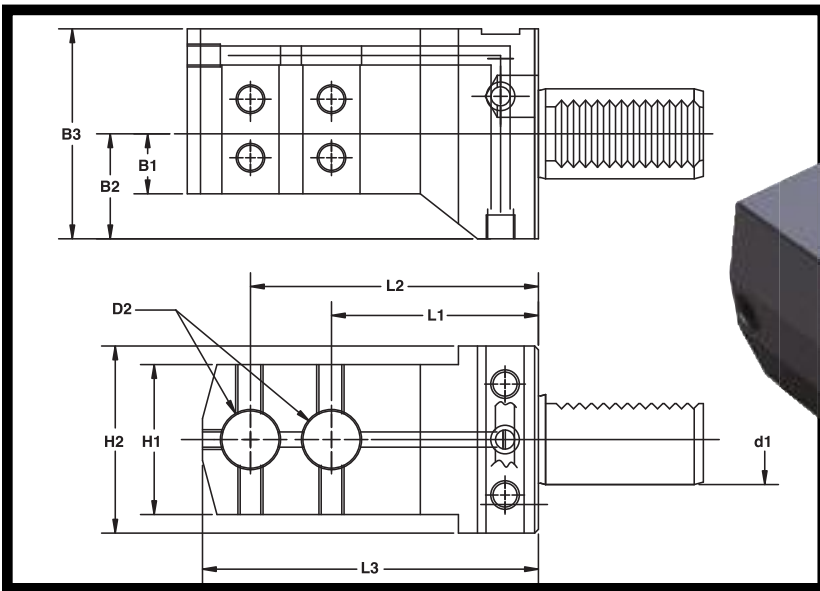






# PM Double ID Boring Bar Holder

## Right Hand Peripheral Mounted VDI

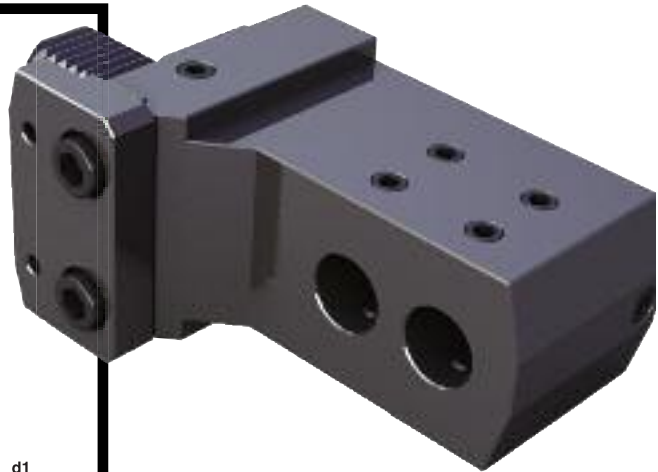
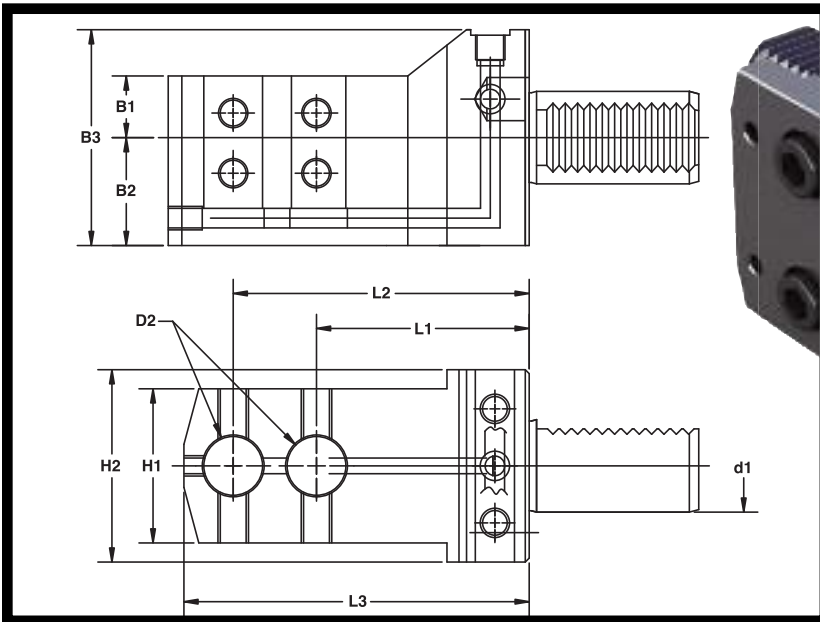


- More ID's Available
- More L1 & L2 Sizes Available

PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
PM91.3020R	30	¾	20	35	70	50	62	69	96	112
PM91.4025R	40	1	40	39	89	75	85	75	140	179

# PM Double ID Boring Bar Holder

## Left Hand Peripheral Mounted VDI



- More ID's Available
- More L1 & L2 Sizes Available

PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
PM91.3020L	30	¾	20	35	70	50	62	69	96	112
PM91.4025L	40	1	40	39	89	75	85	75	140	179

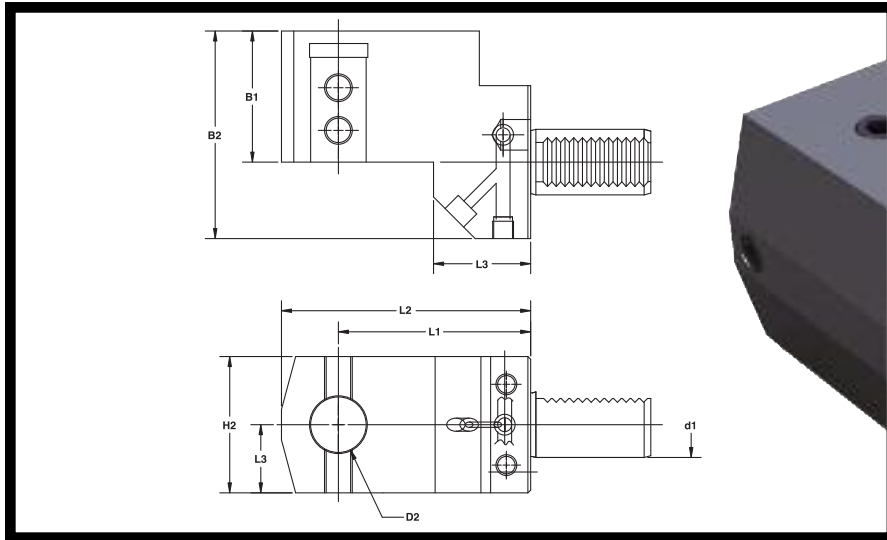
PERIPHERAL VDI





# PM Offset ID Boring Bar Holder

## Right Hand Peripheral Mounted VDI

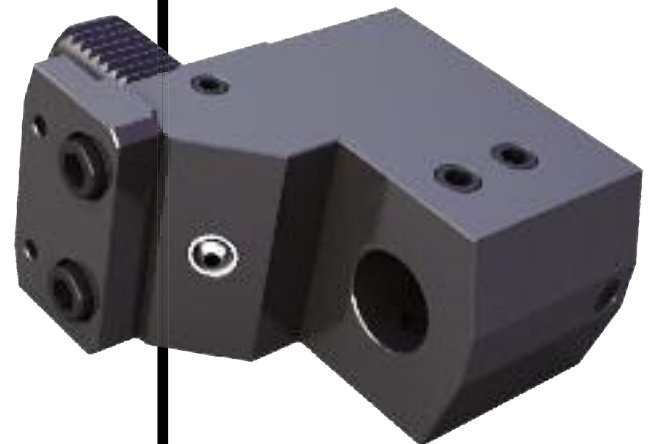
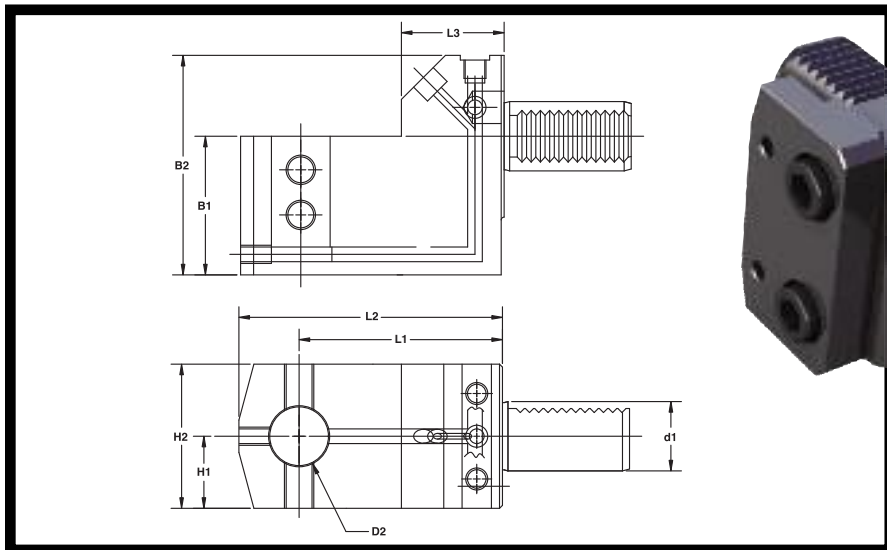


- More ID's Available
- More L1 Sizes Available

PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
PM56.3025RL	30	1	60	95	60	31	62	88	114
PM56.3025RS	30	1	60	95	60	31	62	70	96
PM56.4032RL	40	1¼	63	100	50	43	86	105	135
PM56.4032RS	40	1¼	63	100	50	43	86	85	115

# PM Offset ID Boring Bar Holder

## Left Hand Peripheral Mounted VDI



- More ID's Available
- More L1 Sizes Available

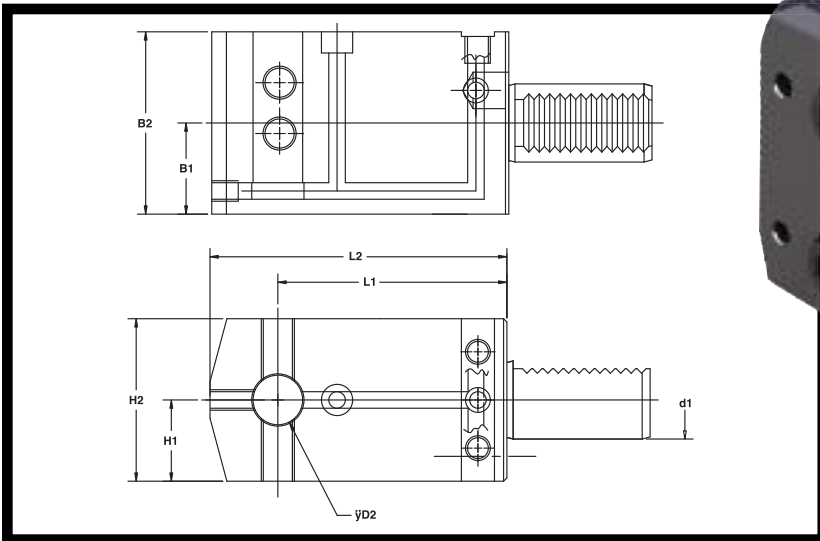
PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
PM56.3025LL	30	1	60	95	60	31	62	88	114
PM56.3025LS	30	1	60	95	60	31	62	70	96
PM56.4032LL	40	1¼	63	100	50	43	86	105	135
PM56.4032LS	40	1¼	63	100	50	43	86	85	115





# PM Straight ID Boring Bar Holder

## Left Hand Peripheral Mounted VDI

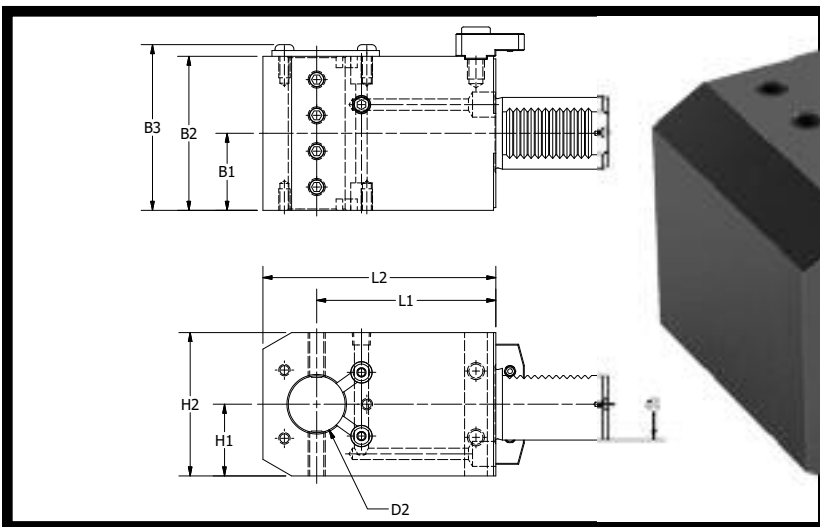


- More ID's Available
- More L1 Sizes Available

PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
PM52.3020LL	30	¾	35	70	31	62	88	114
PM52.3020LS	30	¾	35	70	31	62	69	95
PM52.4025LL	40	1	43	86	42.5	85	140	179
PM52.4025LS	40	1	43	86	42.5	85	110	149

# PM Straight ID Boring Bar Holder : I/E

## Right Hand & Left Hand : Internal and External Coolant



PART NUMBER	d <sub>1</sub>	D <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
PM54.3032	30	1¼	35	70	76.5	32	64	100	125
PM54.4040	40	1½	43	86	92.5	40	80	100	130

PERIPHERAL VDI

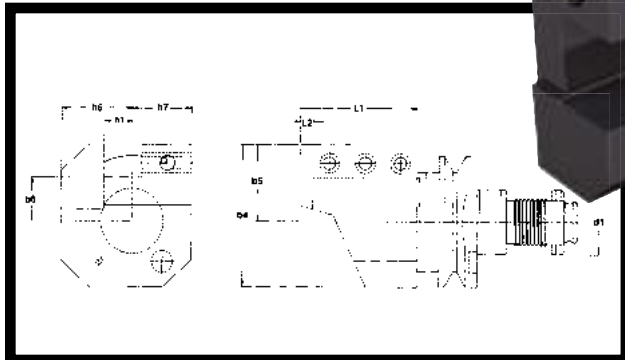




# Mazak Integrex Style Turning Toolholder

Right-Hand & Left-Hand –  
Form MC1 & MC2

For Mazak Integrex 50Y  
and 70Y Machines



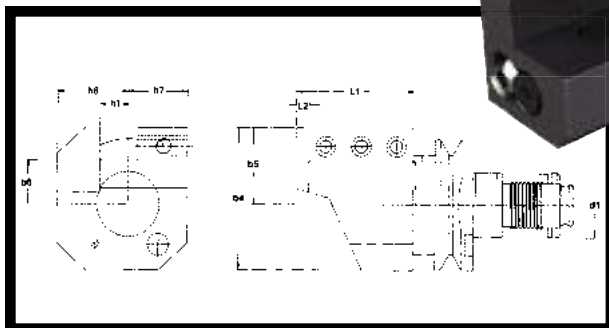
• **More Styles Available:  
Everything in B Section of  
Catalog available In Mazak  
Integrex Style as a Standard.**

PART NUMBER	d <sub>1</sub>	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	h <sub>1</sub>	h <sub>6</sub>	h <sub>7</sub>	L <sub>1</sub>	L <sub>2</sub>
CNC86 M31.5025R (Top)	50	107	57	31.8	1	50	29	135	10
CNC86 M31.6032R (Top)	60	122	72	40	1¼	56	335	155	10
CNC86 M32.5025L (Bottom)	50	107	57	31.8	1	50	29	135	10
CNC86 M32.6032L (Bottom)	60	122	72	40	1¼	56	335	155	10

# Mazak Integrex Style Turning Toolholder

Inverted – Form MC3  
& MC4

For Mazak Integrex 50Y  
and 70Y Machines



• **More Styles Available:  
Everything in B Section of  
Catalog available In Mazak  
Integrex Style as a Standard.**

PART NUMBER	d <sub>1</sub>	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	h <sub>1</sub>	h <sub>6</sub>	h <sub>7</sub>	L <sub>1</sub>	L <sub>2</sub>
CNC86 M33.5025R (Top)	50	107	57	31.8	1	50	29	135	10
CNC86 M33.6032R (Top)	60	122	72	40	1¼	56	335	155	10
CNC86 M34.5025L (Bottom)	50	107	57	31.8	1	50	29	135	10
CNC86 M34.6032L (Bottom)	60	122	72	40	1¼	56	335	155	10

Please note: All Standard VDI from "B" section available in MZK Style for Mazak Machines.

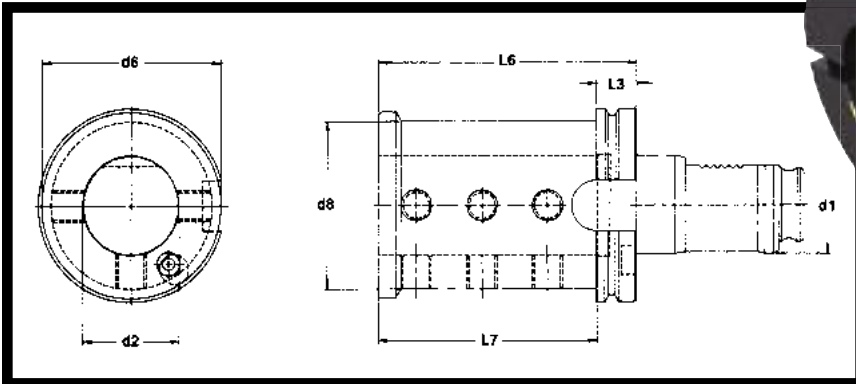




# Mazak Integrex Style Boring Bar Holder

Single External Coolant Flow –  
Form ME4

For Mazak Integrex 50Y and 70Y Machines



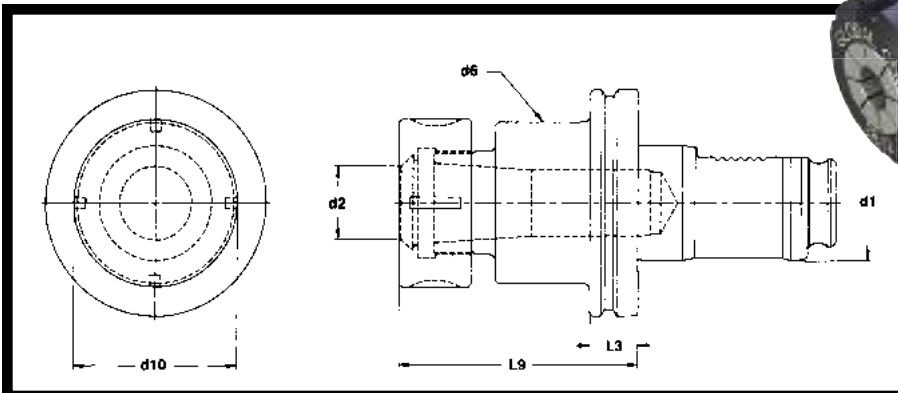
• **More Styles Available:**  
Everything in B Section of  
Catalog available In Mazak  
Integrex Style as a Standard.

PART NUMBER	d <sub>1</sub>	d <sub>2</sub>	d <sub>6</sub>	d <sub>8</sub>	L <sub>3</sub>	L <sub>6</sub>	L <sub>7</sub>
CNC86 M54.5050	50	2	95.5	85	21	135	115
CNC86 M54.6050	60	2	120	98	25	128	112

# Mazak Integrex Style Collet Chuck

ER32 or TG100 – Form ME3

For Mazak Integrex 50Y and 70Y Machines



• **More Styles Available:**  
Everything in B Section of  
Catalog available In Mazak  
Integrex Style as a Standard.

PART NUMBER	d <sub>1</sub>	COLLET	d <sub>2</sub>	d <sub>6</sub>	d <sub>10</sub>	L <sub>3</sub>	L <sub>9</sub>
CNC86 M53.5032	50	ER32	2-20	70	50	21	106.5
CNC86 M53.6032	60	ER32	2-20	70	50	21	106.5
CNC86 M53.50100TG	50	100TG	2-25	70	60	21	112
CNC86 M53.60100TG	60	100TG	2-25	70	60	32	112

Please note: All Standard VDI from "B" section available in MZK Style for Mazak Machines.

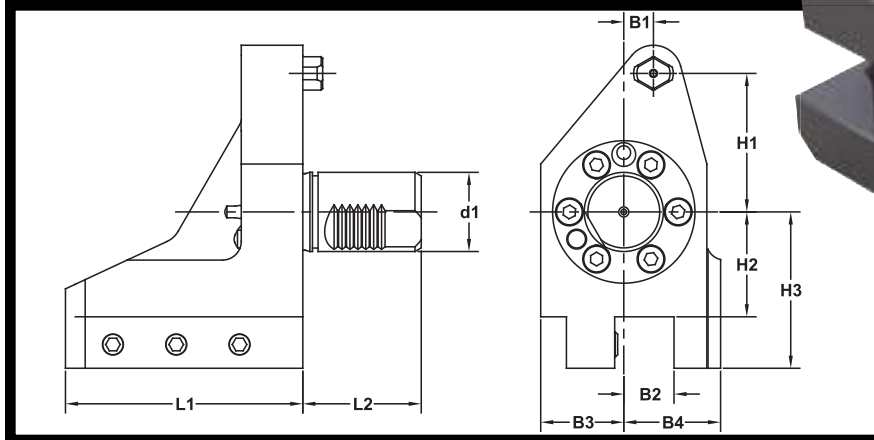
MAZAK





# Mazak SQT Style Forward Turning Toolholder

3/4" or 1" OD Holder  
Form SQT-C1

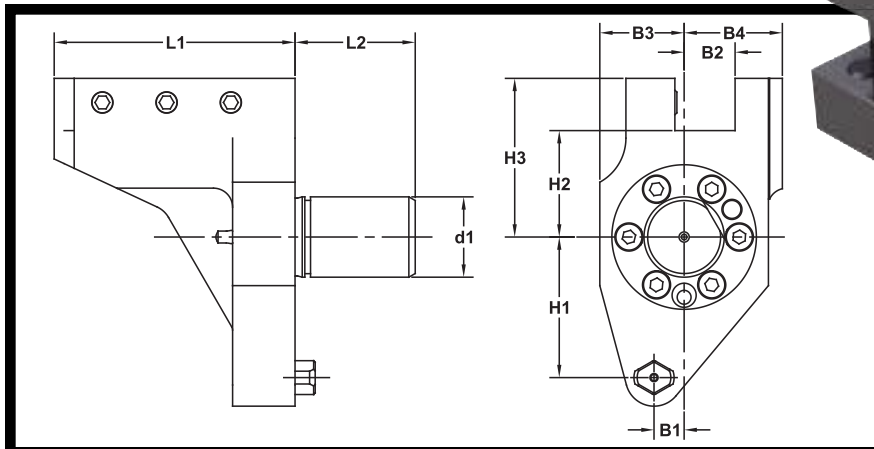


• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	B1	B2	B3	B4	L1	L2	H1	H2	H3
SQT31.1020	40	15	20	38	41	100	60	68	45	65
SQT31.1525	40	15	25	42	50	120	60	70	53	79
SQT31.2825	50	N/A	1" / 25	50	50	150	75	70	55	80

# Mazak SQT Style Reverse Turning Toolholder

3/4" or 1" OD Holder  
Form SQT-C2



• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	B1	B2	B3	B4	L1	L2	H1	H2	H3
SQT32.1020	40	15	20	38	41	100	60	68	45	65
SQT32.1525	40	15	25	42	50	120	60	70	53	79
SQT32.2825	50	N/A	1" / 25	50	50	150	75	70	55	80

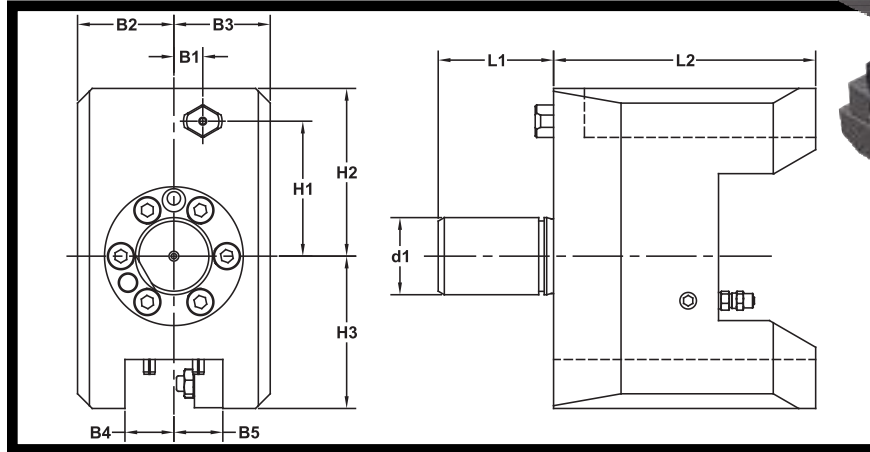
MAZAK





# Mazak SQT Style Double Turning Toolholder

Dual 3/4" or 1" OD Toolholder  
Form SQT-D1

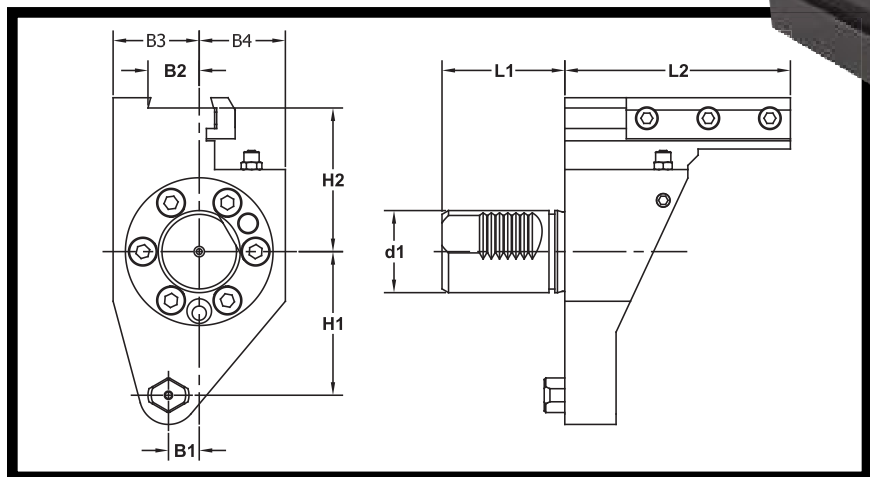


• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	B2	B3	B4	B5	L1	L2	H1	H2	H3
SQT41.1020	40	45	45	20	20	60	103	68	85	65
SQT41.1525	40	50	50	25	25	60	136	70	87	79
SQT41.2825	50	50	50	1" / 25	1" / 25	75	150	70	83	127

# Mazak SQT Style Cut-off Holder

Single Cut-off Blade  
Turning Toolholder



• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	B1	B2	B3	B4	L1	L2	H1	H2
SQT45.1020	40	15	21	38	38	60	92	68	62
SQT45.1525	40	15	25	42	42	60	110	70	75
SQT45.2832	50	N/A	25	50	50	75	145	70	70

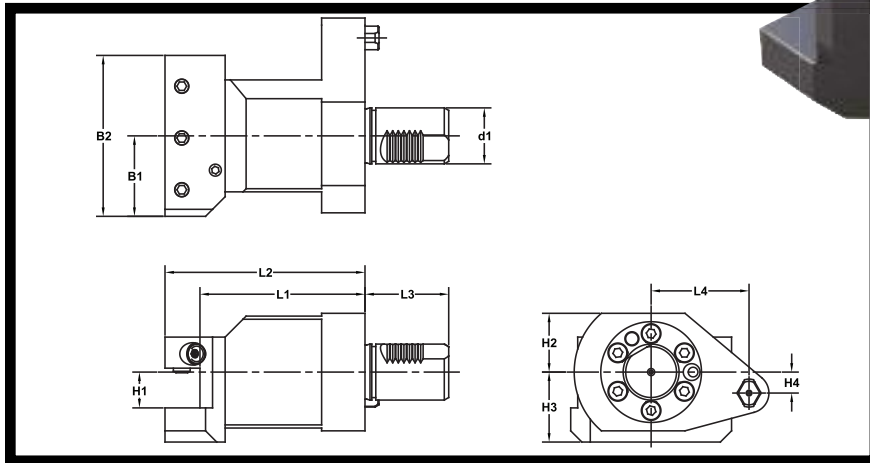
MAZAK





# Mazak SQT Style Facing Holder

Form SQT-B1



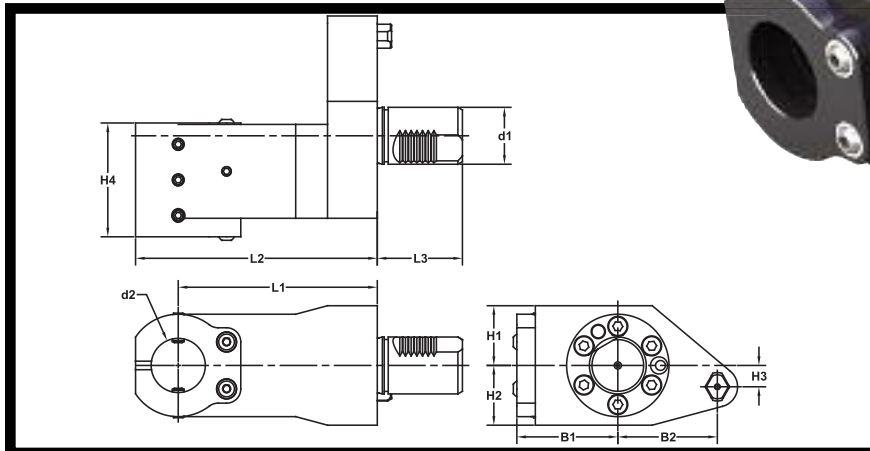
• SQT28 & Multiplex VDI Also Available

PART NUMBER	D1	B1	B2	L1	L2	L3	L4	H1	H2	H3
SQT21.1020	40	55	110	90	110	60	68	20	38	41
SQT21.1525	40	57.5	115	118	143	80	70	250	42	50
SQT21.2825	50	57	130	138	163	75	70	1" / 25	50	50

# Mazak SQT Style Single Boring Bar Holder

Peripheral Mounted ID Holder Form SQT-E1

External Coolant; Offset



• SQT28 & Multiplex VDI Also Available

PART NUMBER	D1	D2	B1	B2	L1	L2	L3	H1	H2	H4
SQT51.1020	40	3/4	56	68	110	137	60	38	38	55
SQT51.1525	40	1-1/2	71	70	140	170	60	42	42	80
SQT51.2850	50	2" / 50	65	70	175	214	75	50	50	100

MAZAK

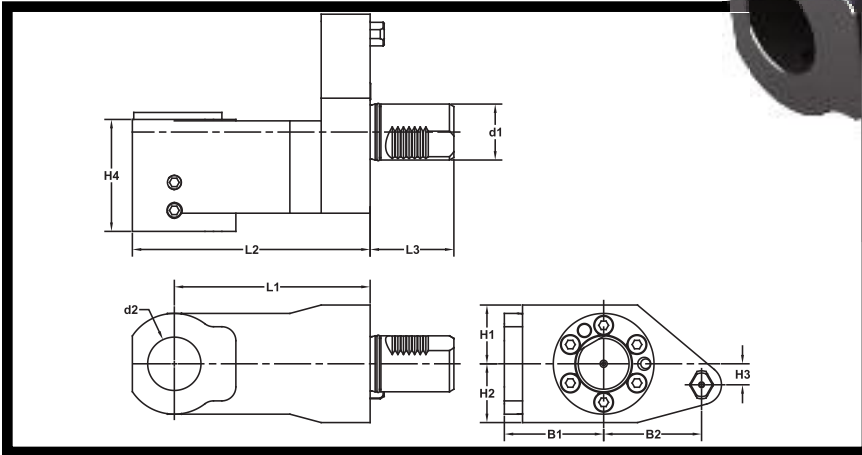






# Mazak SQT Style U-Drill Holder

Form SQT-E3



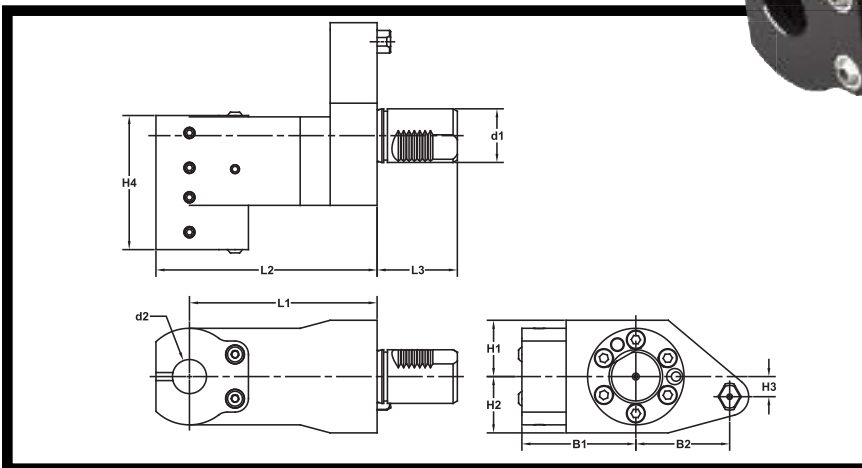
• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	D2	B1	B2	L1	L2	L3	H1	H2	H4
SQT53.1020	40	32	50	68	110	137	60	38	38	65
SQT53.1525	40	40	71	70	140	170	60	42	42	80

# Mazak SQT Style Double Boring Bar Holder

Main and Sub Spindle 1-1/4" and  
1-1/2" ID Holder

Form SQT-I1



• SQT28 & Multiplex VDI  
Also Available

PART NUMBER	D1	D2	B1	B2	L1	L2	L3	H1	H2	H4
SQT91.1020	40	20	60	68	110	137	60	38	38	70
SQT91.1525	40	25	85	70	140	165	60	42	42	100

MAZAK

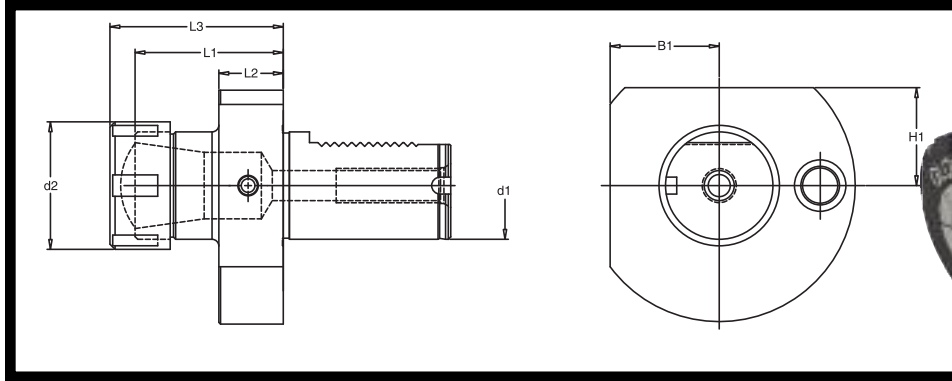




# Nakamura Style Collet Chuck

**More Styles Now Available!**  
**Stocked in ALL styles shown**  
**in "B" Section of catalog.**

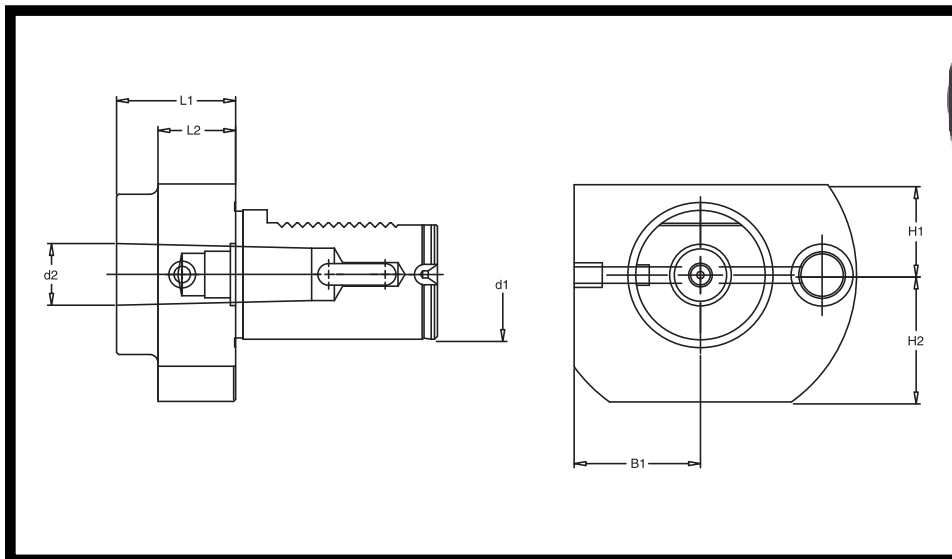
## ER Style For Nakamura Machines



PART NUMBER	d <sub>1</sub>	d <sub>2</sub>	B <sub>1</sub>	H <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	COLLET TYPE
NK53.3025	30	42	50	45.5	69	22	81	ER25
NK53.3032	30	50	50	45.5	69	22	81	ER32
NK53.3040	30	63	50	45.5	69	22	81	ER40
NK53.4025	40	42	50	45.5	69	22	81	ER25
NK53.4032	40	50	50	45.5	69	22	81	ER32
NK53.4040	40	63	50	45.5	69	22	81	ER40
NK53.5040	50	63	50	45.5	69	30	81	ER40

# Nakamura Style Morse Taper Adaptor

## Nakamura Style VDI Shank and Locating Pin



PART NUMBER	d <sub>1</sub>	d <sub>2</sub>	B <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
NK71.5030	50	#3 M.T.	50.6	35	49	46	30
NK71.5040	50	#4 M.T.	50.6	35	49	46	30

NAKAMURA



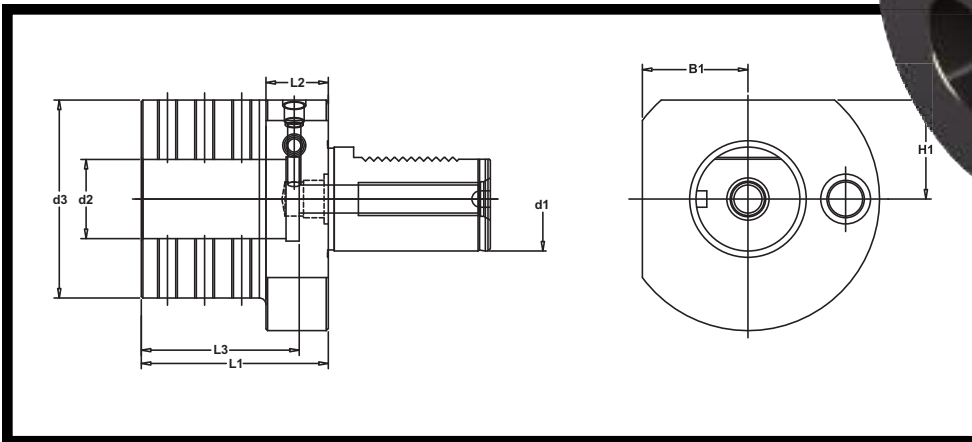


# Nakamura Style Boring Bar Holder

**More Styles Now Available!**  
**Stocked in ALL styles shown**  
**in "B" Section of catalog.**

## Dual External Coolant Flow

### Nakamura Style VDI Shank and Locating Pin



PART NUMBER	d <sub>1</sub>	d <sub>2</sub> METRIC	d <sub>2</sub> INCH	d <sub>3</sub>	B <sub>1</sub>	H <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
NK52.3010	30	10	3/8	85	—	45.5	90	30	76
NK52.3012	30	12	1/2	85	—	45.5	90	30	76
NK52.3020	30	20	3/4	95	50	47.6	90	30	76
NK52.3025	30	25	1	95	50	47.6	90	30	76
NK52.3032	30	32	1-1/4	95	50	47.6	90	30	76
NK52.3040	30	40	1-1/2	95	50	47.6	90	30	76
NK52.3045	30	45	1-3/4	95	50	47.6	90	30	76
NK52.3050	30	50	2	95	50	47.6	90	30	76
NK52.4010	40	10	3/8	85	—	45.5	90	30	76
NK52.4012	40	12	1/2	85	—	45.5	90	30	76
NK52.4020	40	20	3/4	95	50	47.6	90	30	76
NK52.4025	40	25	1	95	50	47.6	90	30	76
NK52.4032	40	32	1-1/4	95	50	47.6	90	30	76
NK52.4040	40	40	1-1/2	95	50	47.6	90	30	76
NK52.4045	40	45	1-3/4	95	50	47.6	90	30	76
NK52.4050	40	50	2	95	50	47.6	90	30	76
NK52.5010	50	10	3/8	85	—	45.5	90	30	76
NK52.5012	50	12	1/2	85	—	45.5	90	30	76
NK52.5020	50	20	3/4	95	50	47.6	90	30	76
NK52.5025	50	25	1	95	50	47.6	90	30	76
NK52.5032	50	32	1-1/4	95	50	47.6	90	30	76
NK52.5040	50	40	1-1/2	95	50	47.6	90	30	76
NK52.5045	50	45	1-3/4	95	50	47.6	90	30	76
NK52.5050	50	50	2	95	50	47.6	90	30	76

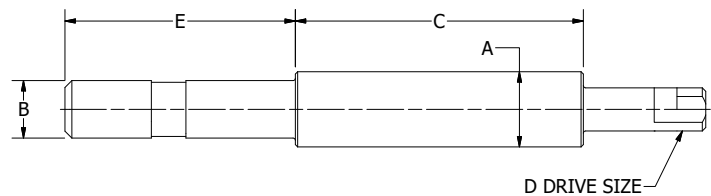
NAKAMURA





# Straight Shank : Pilots for Balanced Drive Back SpotFacers and Back Counterbores.

These Straight Shank Back Spotfacers and Back Counterbores are inspected to perfection with Quality guages. Global CNC is pleased to offer a complete array of Sizes to meet all of your Pilot Back Spotfacer and Back Counterbore needs. All Holders for Spotfacers and Counterbores are made in Michigan. Commonly known as the 453 Series.



A : Pilot Dia	Part Number	B : Shank Diameter	C : Body Length	D : Inverted Drive	E : Shank Length
.3125	86453-1031	.500	2.500	.3125	2.000
.3438	86453-1034	.500	2.500	.3125	2.000
.3750	86453-1037	.500	2.500	.3125	2.000
.4063	86453-1040	.500	2.500	.3125	2.000
.4375	86453-1043	.500	2.500	.3125	2.000
.4688	86453-1046	.500	2.500	.3125	2.000
.5000	86453-1050	.500	2.500	.3125	2.000
.5313	86453-1053	.500	2.500	.3125	2.000
.3750	86453-2037	.500	2.500	.3750	2.000
.4063	86453-2040	.500	2.500	.3750	2.000
.4375	86453-2043	.500	2.500	.3750	2.000
.4688	86453-2046	.500	2.500	.3750	2.000
.5000	86453-2050	.500	2.500	.3750	2.000
.5313	86453-2053	.500	2.500	.3750	2.000
.5625	86453-2056	.500	2.500	.3750	2.000
.5938	86453-2059	.500	2.500	.3750	2.000
.6250	86453-2062	.500	2.500	.3750	2.000
.6563	86453-2065	.500	2.500	.3750	2.000
.5000	86453-3050	.500	2.500	.5000	2.000
.5313	86453-3053	.500	2.500	.5000	2.000
.5625	86453-3056	.500	2.500	.5000	2.000
.5938	86453-3059	.500	2.500	.5000	2.000
.6250	86453-3062	.500	2.500	.5000	2.000
.6563	86453-3065	.500	2.500	.5000	2.000
.6875	86453-3068	.500	2.500	.5000	2.000
.7500	86453-3075	.500	2.500	.5000	2.000
.7813	86453-3078	.500	2.500	.5000	2.000
.8125	86453-3081	.500	3.500	.5000	2.000
.8750	86453-3087	.500	3.500	.5000	2.000
.9063	86453-3090	.500	3.500	.5000	2.000
1.0313	86453-3103	.500	3.500	.5000	2.000
.7500	86453-4075	.750	3.500	.7500	2.250
.8125	86453-4081	.750	3.500	.7500	2.250
.8750	86453-4087	.750	3.500	.7500	2.250
.9375	86453-4093	.750	3.500	.7500	2.250
1.000	86453-4100	.750	3.500	.7500	2.250
1.125	86453-4112	.750	3.500	.7500	2.250
1.250	86453-4125	.750	3.500	.7500	2.250
1.375	86453-4137	.750	3.500	.7500	2.250
1.000	86453-5100	1.00	3.500	1.000	2.500
1.125	86453-5112	1.00	3.500	1.000	2.500
1.250	86453-5125	1.00	3.500	1.000	2.500
1.375	86453-5137	1.00	3.500	1.000	2.500
1.500	86453-5150	1.00	5.000	1.000	2.500
1.625	86453-5162	1.00	5.000	1.000	2.500

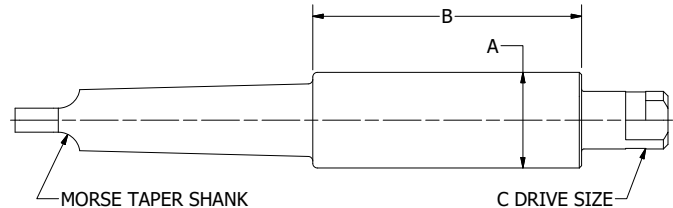
BACK SPOTFACERS





# Taper Shank : Pilots for Balanced Drive Back Spotfacers and Back Counterbores

These Taper Shank Back Spotfacers and Back Counterbores are inspected to perfection with Quality guages. Global CNC is pleased to offer a complete array of Sizes to meet all of your Pilot Back Spotfacer and Back Counterbore needs. All Holders for Spotfacers and Counterbores are made in Michigan. Commonly known as the 450 Series.



A : Pilot Dia	Part Number	Morse Taper Shank	B : Body Length	C : Inverted Drive
.3125	86450-1031	2	2.500	.3125
.3438	86450-1034	2	2.500	.3125
.3750	86450-1037	2	2.500	.3125
.4063	86450-1040	2	2.500	.3125
.4375	86450-1043	2	2.500	.3125
.4688	86450-1046	2	2.500	.3125
.5000	86450-1050	2	2.500	.3125
.5313	86450-1053	2	2.500	.3125
.3750	86450-2037	2	2.500	.3750
.4063	86450-2040	2	2.500	.3750
.4375	86450-2043	2	2.500	.3750
.4688	86450-2046	2	2.500	.3750
.5000	86450-2050	2	2.500	.3750
.5313	86450-2053	2	2.500	.3750
.5625	86450-2056	2	2.500	.3750
.5938	86450-2059	2	2.500	.3750
.6250	86450-2062	2	2.500	.3750
.6563	86450-2065	2	2.500	.3750
.5000	86450-3050	2	2.500	.5000
.5313	86450-3053	2	2.500	.5000
.5625	86450-3056	2	2.500	.5000
.5938	86450-3059	2	2.500	.5000
.6250	86450-3062	2	2.500	.5000
.6563	86450-3065	2	2.500	.5000
.6875	86450-3068	2	2.500	.5000
.7500	86450-3075	2	2.500	.5000
.7813	86450-3078	2	2.500	.5000
.8125	86450-3081	2	3.500	.5000
.8750	86450-3087	2	3.500	.5000
.9063	86450-3090	2	3.500	.5000
1.0313	86450-3103	2	3.500	.5000
.7500	86450-4075	3	3.500	.7500
.8125	86450-4081	3	3.500	.7500
.8750	86450-4087	3	3.500	.7500
.9375	86450-4093	3	3.500	.7500
1.000	86450-4100	3	3.500	.7500
1.125	86450-4112	3	3.500	.7500
1.250	86450-4125	3	3.500	.7500
1.375	86450-4137	3	3.500	.7500
1.000	86450-5100	4	3.500	1.000
1.125	86450-5112	4	3.500	1.000
1.250	86450-5125	4	3.500	1.000
1.375	86450-5137	4	3.500	1.000
1.500	86450-5150	4	5.000	1.000
1.625	86450-5162	4	5.000	1.000

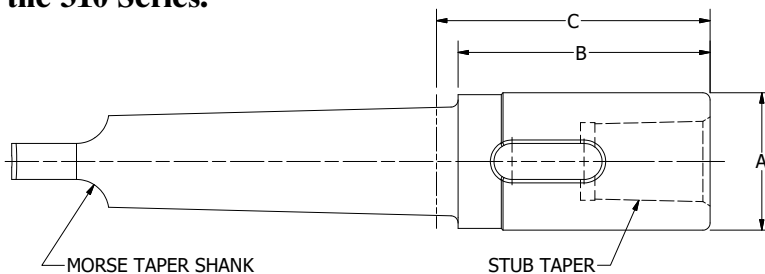
BACK SPOTFACERS





# Stub Taper with Taper Shank : Holder for Counterbores and Countersinks

These Stub Taper Holders for Counterbores are inspected to perfection with Quality gauges. Global CNC is pleased to offer a complete array of Sizes to meet all of your Stub Taper Holder for Counterbore and Countersinks needs. All Holders for Counterbore and Countersinks are made in Michigan. Commonly Known as the 310 Series.



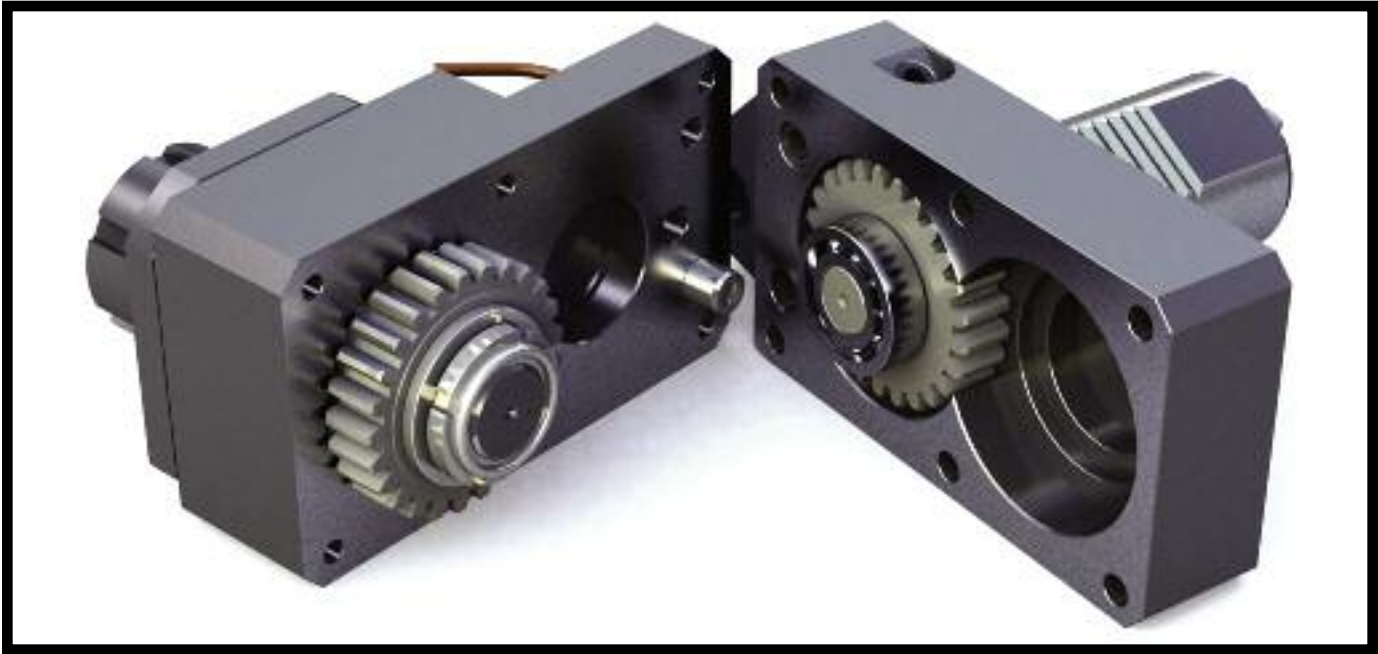
Cutter Range	Part Number	Stub Taper	Morse Taper	A : Body Dia	B : Body Length	C : Projection
.4375 to .6875	86310-1208	1	2	.8750	1.750	1.938
.4375 to .6875	86310-1308	1	3	.8750	1.750	1.938
.7500 to 1.500	86310-2211	2	2	1.1875	2.188	2.375
.7500 to 1.500	86310-2311	2	3	1.1875	2.188	2.375
.7500 to 1.500	86310-2411	2	4	1.1875	2.188	2.438
1.5625 to 1.9375	86310-3214	3	2	1.4375	2.563	2.375
1.5625 to 1.9375	86310-3314	3	3	1.4375	2.563	2.375
1.5625 to 1.9375	86310-3414	3	4	1.4375	2.563	2.813
2.000 to 3.000	86310-4318	4	3	1.8750	3.000	3.188
2.000 to 3.000	86310-4418	4	4	1.8750	3.000	3.250
2.000 to 3.000	86310-4518	4	5	1.8750	3.000	3.250
2.875 to 3.000	86310-5527	5	5	2.7500	3.750	4.000

BACK SPOTFACERS





# DRIVEN VDI REPAIR: FREE Estimates!



## **Certified Repair of your Driven VDI Toolholders. All Styles Guaranteed!**

Global CNC Industries, Ltd. is North America's Leading Manufacturer of VDI Toolholders. We are a complete manufacturing facility; dedicated to serving our Customers with the highest degree of Quality workmanship.

Let our in-house Engineering staff and ISO 9001-2000 Certified Inspection Department Repair your Driven VDI Toolholders to their Original state. All at a fraction of their original cost! Free Repair Cost Evaluation. Send us your broken Tools today and we will fix them so they work like new tomorrow.

### **The Global CNC Guarantee:**

- 1) Repair of your Driven VDI Toolholders by our Lead Engineer all at an economical cost and in a timely manner.
- 2) All Repairs will be made in accordance to ISO standards and will include the incorporation of all New Components required.
- 3) Your broken Driven VDI Toolholders are guaranteed to leave our Facility working like New!

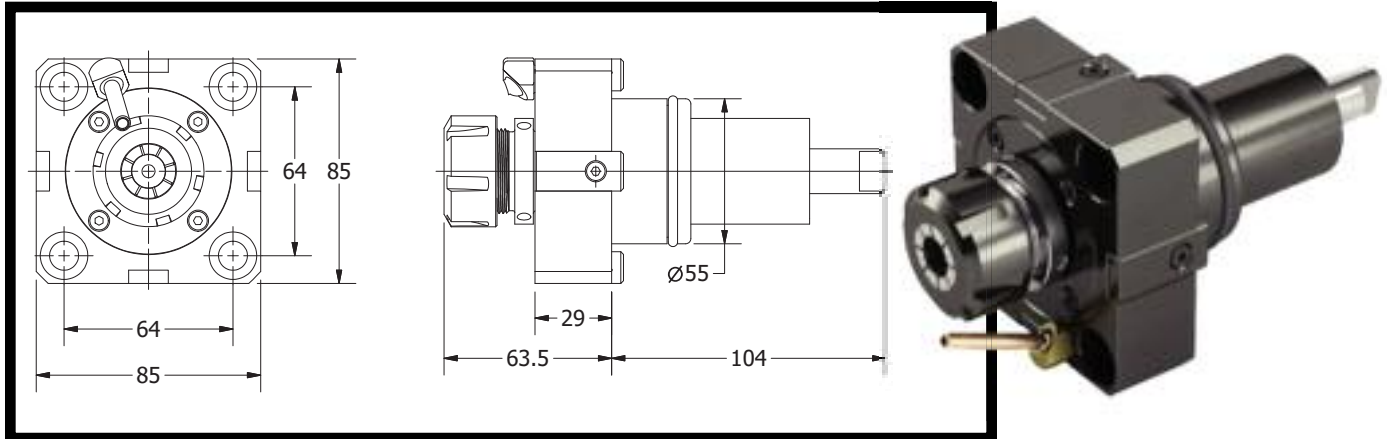
**Contact us today for more information on the Guaranteed Repair of your  
Driven VDI Toolholders.**

DRIVEN VDI



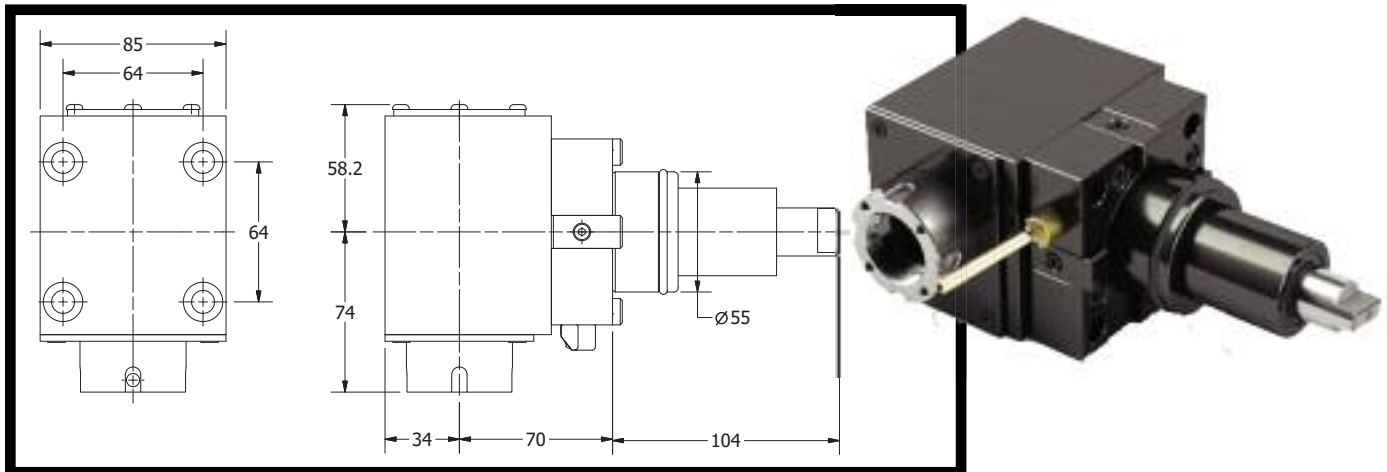


# BMT55 Live Tooling: Straight



Part Number	Description	Quality
<b>BMT55-ER25-SLT</b>	<ul style="list-style-type: none"> <li>• Axial: Straight</li> <li>• External Coolant</li> <li>• ER Collet Size: ER25</li> <li>• Maximum RPM: 6,000 rpm</li> <li>• Gear Ratio: 1 to 1</li> <li>• Precision Angular Contact Bearings</li> </ul>	<ul style="list-style-type: none"> <li>• Made using Superior Quality Precision Angular Contact Bearings.</li> <li>• Coolant is routed to Bypass the Bearings: thus extending the life of the Bearings.</li> <li>• Made from Superior Steel: Precision Machined and Ground.</li> </ul>

# BMT55 Live Tooling: Right Angle



Part Number	Description	Quality
<b>BMT55-ER25-RA</b>	<ul style="list-style-type: none"> <li>• Radial: Right Angle</li> <li>• External Coolant</li> <li>• ER Collet Size: ER25</li> <li>• Maximum RPM: 6,000 rpm</li> <li>• Gear Ratio: 1 to 1</li> <li>• Precision Angular Contact Bearings</li> </ul>	<ul style="list-style-type: none"> <li>• Made using Superior Quality Precision Angular Contact Bearings.</li> <li>• Coolant is routed to Bypass the Bearings: thus extending the life of the Bearings.</li> <li>• Made from Superior Steel: Precision Machined and Ground.</li> </ul>

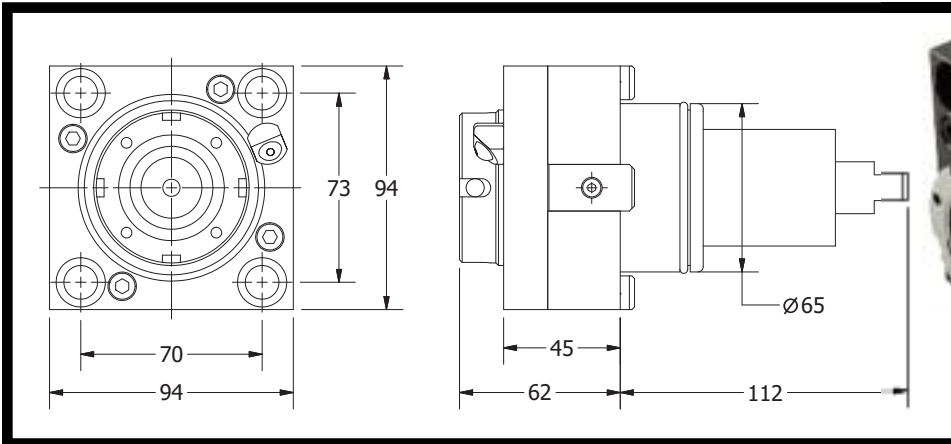
DRIVEN VDI





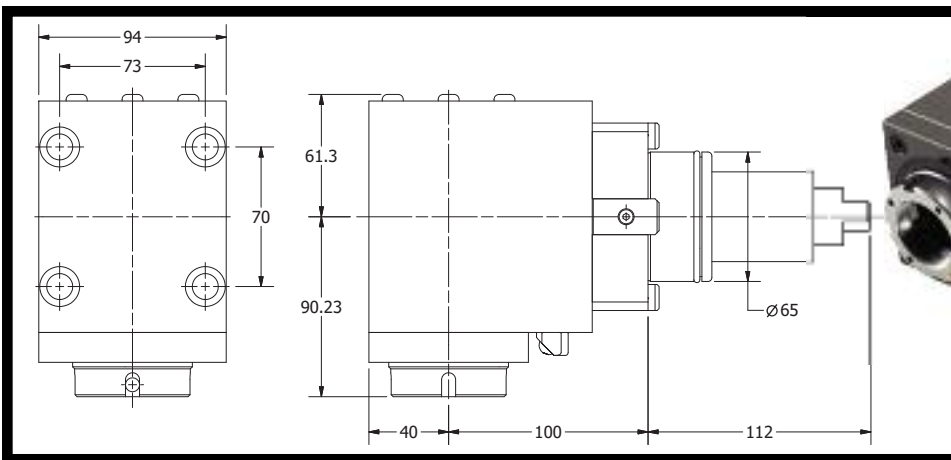


# BMT65 Live Tooling: Straight



Part Number	Description	Quality
<b>BMT65-ER32-SLT</b>	<ul style="list-style-type: none"> <li>• Axial: Straight</li> <li>• External Coolant</li> <li>• ER Collet Size: ER32</li> <li>• Maximum RPM: 6,000 rpm</li> <li>• Gear Ratio: 1 to 1</li> <li>• Precision Angular Contact Bearings</li> </ul>	<ul style="list-style-type: none"> <li>• Made using Superior Quality Precision Angular Contact Bearings.</li> <li>• Coolant is routed to Bypass the Bearings: thus extending the life of the Bearings.</li> <li>• Made from Superior Steel: Precision Machined and Ground.</li> </ul>

# BMT65 Live Tooling: Right Angle



Part Number	Description	Quality
<b>BMT65-ER32-RA</b>	<ul style="list-style-type: none"> <li>• Radial: Right Angle</li> <li>• External Coolant</li> <li>• ER Collet Size: ER32</li> <li>• Maximum RPM: 6,000 rpm</li> <li>• Gear Ratio: 1 to 1</li> <li>• Precision Angular Contact Bearings</li> </ul>	<ul style="list-style-type: none"> <li>• Made using Superior Quality Precision Angular Contact Bearings.</li> <li>• Coolant is routed to Bypass the Bearings: thus extending the life of the Bearings.</li> <li>• Made from Superior Steel: Precision Machined and Ground.</li> </ul>

DRIVEN VDI





# Tool Blocks For All Machines

- Bolt On Tool Blocks (Lathe Mounting Blocks & Block Tool Holders) for all types of Machines; New or Old.
- Block Tool Holders have a specific Bolt Hole Pattern unique to each Machine Make and Model.
- Select Block Tool Holders from list below. If you do not see your Machine Listed; contact us at 800-992-1195; We manufacture Blocks for Every Machine.
- Made From Alloy Steel; Precision Machined and Ground. High Pressure Coolant Nozzles.
- Components Included: Wedges, Coolant Nozzles and Set Screws.
- Internal Coolant Option available for all ID Tool Blocks; add "INT" to the Part Number.
- Made in the USA in Michigan.



VDI ID



ER ID

Part Number Code: First List Part Number Prefix - Style.  
 For Example: Okuma L470 2" ID Tool Block = Part Number L470-8436 2"  
*For Internal Coolant; add INT to end of Part Number: L470-8436 2" INT*

- 3 New Items:
- 1) VDI ID Block Tool Holders; convert your standard Bolt On Block Lathe to a VDI Turret.
  - 2) ER 32 Collet ID Tool Blocks; offered in Standard Style and Recessed Style (Shown Below).
  - 3) Need to Hold a Very Long Bar; we can make any ID Tool Block "Extended Style" - Increase your Gripping Power!
  - 4) More ID Sizes Available - We make a variety of ID sizes Standard for All Blocks - Call for Listing & Prices!

## Daewoo/Doosan Tool Blocks



### BHP 58mm x 58mm (Series BMT45-) Bolt Hole Pattern

Machine Models : Doosan BMT45 Turret Lynx 220

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	BMT45-8425	1" ID	65mm
	BMT45-8432	1.25" ID	65mm
OD Turning Blocks	BMT45-8311A	.75" Sq. OD	
OD Facing Blocks	BMT45-8411A	.75" Sq. OD	

### BHP 64mm x 64mm (Series BMT55-) Bolt Hole Pattern

Machine Models : Doosan BMT55 Doosan TT18SY Doosan TT1800Sy Puma 2000

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	BMT55-8432	1.25" ID	70mm
	BMT55-8435	1.5" ID	70mm
	BMT55-8436	2" ID	70mm
	BMT55-8432 X 100 ID CL	1.25" ID	100mm
	BMT55-8435 X 100 ID CL	1.5" ID	100mm
	BMT55-8436 X 100 ID CL	2" ID	100mm
OD Turning Blocks	BMT55-8311	1" Sq. OD	
	BMT55-8311 DBL	1" Sq. OD	
OD Facing Blocks	BMT55-8411	1" Sq. OD	

### BHP 73mm x 70mm (Series BMT65-) Bolt Hole Pattern

Machine Models : Doosan BMT65 Puma 3100 Doosan 2600ms Doosan TT2500SY  
 Puma V400 Puma V300M Puma400MB Puma 300LM

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	BMT65-8435	1.5" ID	100mm
	BMT65-8436	2" ID	100mm
	BMT65-8435 X 72 ID CL	1.5" ID	72mm
	BMT65-8436 X 72 ID CL	2" ID	72mm
OD Turning Blocks	BMT65-8311	1" Sq. OD	
	BMT65-8311 DBL	1" Sq. OD	
OD Facing Blocks	BMT65-8411	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Daewoo/Doosan Tool Blocks



ID

OD TURNING

OD FACING

## BHP 90mm x 90mm (Series BMT75-) Bolt Hole Pattern

Machine Models : Doosan BMT75 Puma V550 Puma 400

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	BMT75-8436	2" ID	60mm
	BMT75-8437	2.5" ID	60mm
	BMT75-8475	3" ID	60mm
OD Turning Blocks	BMT75-8311	1" Sq. OD	
	BMT75-8311 B	1.25" Sq. OD	
OD Facing Blocks	BMT75-8411	1" Sq. OD	
	BMT75-8411 B	1.25" Sq. OD	

## BHP 100mm x 100mm (Series BMT85-) Bolt Hole Pattern

Machine Models : Puma 700

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	BMT85-8437	2.5" ID	85mm
	BMT85-8475	3" ID	85mm
OD Turning Blocks	BMT85-8311 B	1.25" Sq. OD	
OD Facing Blocks	BMT85-8411 B	1.25" Sq. OD	

## BHP 72mm x 45mm (Series Puma200K-) Bolt Hole Pattern

Machine Models : Puma 200 Puma 240C  
With Locator Keyway

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Puma200K-8435	1.5" ID	40mm
	Puma200K-8436	2" ID	40mm
OD Turning Blocks	Puma200K-8311	1" Sq. OD	
OD Facing Blocks	Puma200K-8411	1" Sq. OD	

## BHP 72mm x 45mm (Series Puma200S-) Bolt Hole Pattern

Machine Models : Puma 200 Puma 240C  
With Locator Slot

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Puma200S-8432	1.25" ID	40mm
	Puma200S-8435	1.5" ID	40mm
OD Turning Blocks	Puma200S-8311	1" Sq. OD	
OD Facing Blocks	Puma200S-8411	1" Sq. OD	

## BHP 80mm x 55mm (Series Puma300K-) Bolt Hole Pattern

Machine Models : Puma 300 Puma 250L Puma 300L Daewoo 12  
With Locator Keyway

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Puma300K-8435	1.5" ID	40mm
	Puma300K-8436	2" ID	40mm
OD Turning Blocks	Puma300K-8311	1" Sq. OD	
OD Facing Blocks	Puma300K-8411	1" Sq. OD	

## BHP 80mm x 55mm (Series Puma300S-) Bolt Hole Pattern

Machine Models : Puma 300 Puma 250L Puma 300L Daewoo 12  
With Locator Slot

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Puma300S-8435	1.5" ID	40mm
	Puma300S-8436	2" ID	40mm
OD Turning Blocks	Puma300S-8311	1" Sq. OD	
OD Facing Blocks	Puma300S-8411	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# HAAS Tool Blocks



## BHP 64mm x 50mm (Series HST20-) Bolt Hole Pattern

Machine Models : ST20 DS30 ST30SS

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HST20-8420	.75" ID	40mm
	HST20-8425	1" ID	40mm
	HST20-8432	1.25" ID	40mm
	HST20-8435	1.5" ID	40mm
	HST20-8436	2" ID	40mm
<b>OD Turning Blocks : Parting Tool</b>	HST20-8311A	.75" Sq. OD	
<b>OD Facing Blocks : Face Grooving</b>	HST20-8411A	.75" Sq. OD	

## BHP 70mm x 45mm (Series HSL10-) Bolt Hole Pattern

Machine Models : SL-10 ST10 HT10

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HSL10-8420	.75" ID	1"
	HSL10-8425	1" ID	1"
	HSL10-8432	1.25" ID	1"
	HSL10-8435	1.5" ID	1"
<b>OD Turning Blocks : Parting Tool</b>	HSL10-8311A	.75" Sq. OD	
<b>OD Facing Blocks : Face Grooving</b>	HSL10-8411A	.75" Sq. OD	

## BHP 80mm x 45mm (Series HSL30-) Bolt Hole Pattern

Machine Models : SL20 SL30 ST30 ST31 TL15 TL25

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HSL20/30-8425	1" ID	1.25"
	HSL20/30-8432	1.25" ID	1.25"
	HSL20/30-8435	1.5" ID	1.25"
	HSL20/30-8445	1.75" ID	1.25"
	HSL20/30-8436	2" ID	1.35"
	HSL20/30-8437	2.5" ID	1.35"
<b>OD Turning Blocks : Parting Tool</b>	HSL20/30-8311	1" Sq. OD	
<b>OD Facing Blocks : Face Grooving</b>	HSL20/30-8411	1" Sq. OD	

## BHP 105mm x 70mm (Series HSL40-) Bolt Hole Pattern

Machine Models : SL-40

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HSL40-8436	2" ID	1.625"
	HSL40-8437	2.5" ID	1.625"
<b>OD Turning Blocks : Parting Tool</b>	HLS40-8311B	1.25" Sq. OD	
<b>OD Facing Blocks : Face Grooving</b>	HSL40-8411B	1.25" Sq. OD	

## BHP 73mm x 70mm (Series H-BMT65-) Bolt Hole Pattern

Machine Models : ST-20 ST-25 ST-30 ST-35 Y SERIES DS-30Y

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	H-BMT65-8425 INT	1" ID	72mm
	H-BMT65-8435 INT	1.5" ID	72mm
	H-BMT65-8425 SPLIT	1" SPLIT ID	72mm
	H-BMT65-8435 SPLIT	1.5" SPLIT ID	72mm
	H-BMT65-8432 T	1.25" ID TWIN STYLE	72mm
	H-BMT65-8425 TPL	1" TRIPLE OFFSET ID	
	H-BMT65-8425 TPL-T	1" TRIPLE OFFSET ID TWIN STYLE	
<b>OD Turning Blocks : Parting Tool</b>	H-BMT65-8311	1" Sq. OD	
	H-BMT65-8311 DBL	1" Sq. DOUBLE OD	
	H-BMT65-8311 DBL-OS	1" Sq. DOUBLE OD OFFSET	
	H-BMT65-8311 OS	1" Sq. DOUBLE OD OFFSET TWIN	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# HWACHEON Tool Blocks



ID



OD TURNING



OD FACING

## BHP 74mm X 30mm (Series HWA21HS-) Bolt Hole Pattern

Machine Models : Hi-Echo 21HS

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HWA21HS-8432	1-1/4" ID	35mm
	HWA21HS-8435	1-1/2" ID	35mm
	HWA21HS-8436	2" ID	35mm
OD Turning Blocks	HWA21HS-8311	1" Sq. OD	
OD Facing Blocks	HWA21HS-8411	1" Sq. OD	

## BHP 74mm X 70mm (Series HWA-BMT65-) Bolt Hole Pattern

Machine Models : Cutex 240 Hi-Tech 200/300/400/450 T2 VT450

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HWA-BMT65-8435	1-1/2" ID	50mm
	HWA-BMT65-8436	2" ID	90mm
OD Turning Blocks	HWA-BMT65-8311	1" Sq. OD	
	HWA-BMT65-8311B	1-1/2" Sq. OD	

## BHP 80mm X 50mm (Series HWA31AA-) Bolt Hole Pattern

Machine Models : Hi-Echo 31AA

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HWA31AA-8435	1-1/2" ID	41mm
	HWA31AA-8436	2" ID	41mm
OD Facing Blocks	HWA31AA-8411	1" Sq. OD	

## BHP 90mm X 50mm (Series HT400-) Bolt Hole Pattern

Machine Models : HT400

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HT400-8435	1-1/2" ID	40mm
	HT400-8436	2" ID	40mm
	HT400-8437	2-1/2" ID	50mm
OD Facing Blocks	HT400-8411	1" Sq. OD	

## BHP 115mm X 80mm (Series HWA700-) Bolt Hole Pattern

Machine Models : Hi-Tech 700

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HWA700-8436	2" ID	50mm
	HWA700-8437	2-1/2" ID	50mm
OD Facing Blocks	HWA700-8411B	1-1/4" Sq. ID	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Mazak Tool Blocks



## BHP 76mm x 45mm (Series NEX100-) Bolt Hole Pattern

Machine Models : Nexus100/150    QT8    QT150    QT250

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	NEX100-8425	1" ID	1"
	NEX100-8432	1.25" ID	1.125"
	NEX100-8435	1.50" ID	1.125"
OD Turning Blocks			
OD Facing Blocks	NEX100-8411	1" Sq. OD	

## BHP 94mm x 60mm (Series NEX350-) Bolt Hole Pattern

Machine Models : Bridgeport    QT8    QT15/18    QTN15    SQT250    QT200    Romi M27  
 NEX150-8D    DualTurn 20    QT Nexus250    Duplomatic    QT Nexus 200    QT Nexus 350  
 QT Nexus 300    QT20    QT Nexus 2000

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	NEX350-8420	.75" ID	50mm
	NEX350-8425	1" ID	50mm
	NEX350-8432	1.25" ID	50mm
	NEX350-8435	1.5" ID	50mm
	NEX350-8436	2" ID	50mm
	NEX350-8437	2.5" ID	50mm
	NEX350-8475	3" ID	50mm
OD Turning Blocks	NEX350-8311	1" Sq. OD	
OD Facing Blocks	NEX350-8411	1" Sq. OD	

## BHP 118mm x 88mm (Series NEX450-) Bolt Hole Pattern

Machine Models : NEXUS 400    NEXUS 450

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	NEX450-8435	1.5" ID	2"
	NEX450-8436	2" ID	2"
	NEX450-8437	2.5" ID	2"
	NEX450-8475	3" ID	2"
OD Turning Blocks	NEX450-8311B	1.25" Sq. OD	
OD Facing Blocks	NEX450-8411B	1.25" Sq. OD	

## BHP 104mm x 57mm (Series QT30-) Bolt Hole Pattern

Machine Models : QT25    QT28N    QT30    QT300

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	QT30-8435	1.5" ID	2.25"
	QT30-8436	2" ID	2.25"
OD Turning Blocks	QT30-8311	1" Sq. OD	
OD Facing Blocks	QT30-8411	1" Sq. OD	

## BHP 94mm x 84mm (Series QT35-) Bolt Hole Pattern

Machine Models : QT35N    QTN40    QT350

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	QT35-8435	1.5" ID	2"
	QT35-8436	2" ID	2"
OD Turning Blocks	QT35-8311B	1.25" Sq. OD	
OD Facing Blocks	QT35-8411B	1.25" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Mazak Tool Blocks



ID



U-DRILL



SPLIT



OD TURNING



OD FACING

## BHP 84mm x 60mm (Series QT200-) Bolt Hole Pattern

Machine Models : QT200      QTN250      Smart250      Smart200

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	QT200-8432	1.25" ID	2"
	QT200-8435	1.5" ID	2"
OD Turning Blocks	QT200-8311	1" Sq. OD	
OD Facing Blocks	QT200-8411	1" Sq. OD	

## BHP 114mm x 203mm (Series Slant50-) Bolt Hole Pattern - 6 Hole BHP 114mm x 101mm (Series Slant50-) Bolt Hole Pattern - 4 Hole ALT.

Machine Models : Slant50      Slant60

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Slant50-8437-4H	2.5" ID	80mm
	Slant50-8475-4H	3" ID	80mm
	Slant50-8437-6H	2.5" ID	80mm
	Slant50-8475-6H	3" ID	80mm
OD Turning Blocks	Slant50-8311B-4H	1.25" Sq. OD	
OD Facing Blocks	Slant50-8411B-4H	1.25" Sq. OD	

## BHP 134mm x 216mm (Series Slant60-) Bolt Hole Pattern - 6 Hole BHP 134mm x 108mm (Series Slant60-) Bolt Hole Pattern - 4 Hole

Machine Models : Slant60

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	Slant60-8437-4H	2.5" Split ID	146mm ID CL
	Slant60-8437-6H	2.5" Split ID	146mm ID CL
	Slant60-8475-6H	3" Split ID	146mm ID CL
OD Turning Blocks	Slant60-8311LH-4H	1.5" Sq. OD	
	Slant60-8411RH-4H	1.5" Sq. OD	

# Mori Seiki Tool Blocks



ID



OD TURNING



OD FACING

## BHP 64mm x 30mm (Series MSL150-) Bolt Hole Pattern

Machine Models : CL15      CL20      SL135      SL150      SL154      ZL15

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL150-8432	1.25" ID	35mm
	MSL150-8435	1.5" ID	35mm
	MSL150-8436	2" ID	35mm
	MSL150-8420DBL	Double .750 ID	35mm & 75mm
OD Turning Blocks	MSL150-8311A	.75" Sq. OD	
OD Facing Blocks	MSL150-8411A	.75" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Mori Seiki Tool Blocks



ID



OD TURNING



OD FACING

## BHP 76mm x 35mm (Series MSL20-) Bolt Hole Pattern

Machine Models :	CL25	CL200	CL253	CL2000	DT1500	DT1530	DT2550
	SL200	SL203	SL204	SL250	SL253	SL300	SL303
	VL25A1	ZL25	ZL200	ZL250	ZT2500	Duraturm 2050	
	SL20	SL25	SL30	SL2500	NLX2500	Frontier	

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL20/30-8425	1" ID	40mm
	MSL20/30-8432	1.25" ID	40mm
	MSL20/30-8435	1.5" ID	40mm
	MSL20/30-8425 DBL	1" Double ID	40mm & 85mm
	MSL20/30-8445	1.75" ID	40mm
OD Turning Blocks	MSL20/30-8436	2" ID	40mm
	MSL20/30-8311	1" Sq. OD	
	MSL20/30-8311 DBL	1" Sq. OD	
OD Facing Blocks	MSL20/30-8411	1" Sq. OD	

## BHP 88mm x 63mm (Series MSL35-) Bolt Hole Pattern

Machine Models :	SL35	TL40-10ST	ZL35	Samsung
------------------	------	-----------	------	---------

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL35-8435	1.5" ID	40mm
	MSL35-8436	2" ID	40mm
	MSL35-8437	2.5" ID	50mm
OD Turning Blocks	MSL35-8311	1" Sq. OD	
OD Facing Blocks	MSL35-8411	1" Sq. OD	

## BHP 102mm x 80mm (Series MSL403-) Bolt Hole Pattern

Machine Models :	SL45	SL400	SL403	SL405	VL55	ZL45
------------------	------	-------	-------	-------	------	------

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL403-8436	2" ID	50mm
	MSL403-8437	2.5" ID	50mm
	MSL403-8475	3" ID	50mm
OD Turning Blocks	MSL403-8311B	1.25" Sq. OD	
OD Facing Blocks	MSL403-8411B	1.25" Sq. OD	

## BHP 115mm x 110mm (Series MSL603-) Bolt Hole Pattern

Machine Models :	SL6	SL65	SL600	SL603	MSL75
------------------	-----	------	-------	-------	-------

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL603-8437	2.5" ID	60mm
	MSL603-8475	3" ID	60mm
	MSL603-84100	4" ID	
OD Turning Blocks	MSL603-8311B	1.25" Sq. OD	
OD Facing Blocks	MSL603-8411B	1.25" Sq. OD	

## BHP 124mm x 95mm (Series MSL603MC-) Bolt Hole Pattern

Machine Models :	SL630MC
------------------	---------

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	MSL603MC-8437	2.5" ID	70mm ID CL
OD Turning Blocks	MSL603MC-8311B	1.25" Sq. OD	
OD Facing Blocks	MSL603MC-8411B	1.25" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS







# Mori Seiki Tool Blocks



ID



OD TURNING



OD FACING

## BHP 70mm x 62mm (Series NZ2000-) Bolt Hole Pattern

Machine Models : NT3100 DCG NT3150 DCG NT3200 DCG NZ1500 NZ2000  
 NZ3000 DURA 2050MC

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	NZ2000-8425DBL	Double 1" ID	75mm, 105mm
	NZ2000-8432	1.25" ID	100mm
	NZ2000-8435	1.5" ID	100mm
OD Turning Blocks	NZ2000-8311A	.75" Sq. OD	
	NZ2000-8311	1" Sq. OD	
OD Facing Blocks	NZ2000-8411	1" Sq. OD	
Plug	NZ2000-PLUG		

## BHP 94mm x 84mm (Series NL3000-) Bolt Hole Pattern

Machine Models : NL1500 NL2500 NL2500 NL3000 NT4200 NT4250  
 NLX2500 Feeler NT4300

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	NL3000-8432DBL	Double 1.25" ID	80mm, 120mm
	NL3000-8435	1.5" ID	80mm
	NL3000-8436	2" ID	80mm
	NL3000-8437	2.5" ID	80mm
	NL3000-8475	3" ID	80mm
OD Turning Blocks	NL3000-8311	1" Sq. OD	
	NL3000-8311 DBL	1" Sq. OD	
OD Facing Blocks	NL3000-8411	1" Sq. OD	

# Nakamura Tool Blocks



ID



OD TURNING



OD FACING

## BHP 60mm x 50mm (Series TW10-) Bolt Hole Pattern

Machine Models : TW-10 WTS150 WTW150 SC250 SUPER NTJ SUPER NTJX  
 SUPER NTM3 TMC15 WT250

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	TW10-8425	1" ID	75mm
	TW10-8432	1.25" ID	75mm
	TW10-8435	1.5" ID	75mm
	TW10-8436	2" ID	75mm
OD Turning Blocks	TW10-8311A	.75" Sq. OD	
	TW10-8311	1" Sq. OD	
OD Facing Blocks	TW10-8411A	.75" Sq. OD	

## BHP 71mm x 69mm (Series TW20-) Bolt Hole Pattern

Machine Models : TW20 Super NTX Super NTXS SC-300 WT300

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	TW20-8435	1.5" ID	90mm
	TW20-8436	2" ID	90mm
OD Turning Blocks	TW20-8311	1" Sq. OD	
OD Facing Blocks	TW20-8411	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Nakamura Tool Blocks

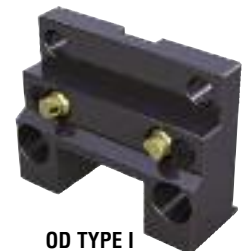


## BHP 85mm x 70mm (Series TW30-) Bolt Hole Pattern

Machine Models : TW30 SC-450

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	TW30-8435	1.5" ID	105mm
	TW30-8436	2" ID	105mm
OD Turning Blocks	TW30-8311	1" Sq. OD	
OD Facing Blocks	TW30-8411	1" Sq. OD	

# Okuma Tool Blocks



## 80mm x 45mm (Series A-118-) Bolt Hole Pattern

Machine Models : Cadet	Captain 370	ESL8	ESL10 Heritage	LB-15	LB15IIM
LB250T	LU25	LU15	Crown	LB25	CAP470
L1420	LB4000EXBB/1500	L470	Genos250-V8	LB3000**	LU4000**

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	A118-8420 DBL	.75" Double ID	1.187" / 3.187"
	A118-8425	1" ID	1.25"
	A118-8432	1.25" ID	1.25"
	A118-8435	1.50" ID	1.25"
	A118-8436	2" ID	1.35"
	A118-8437	2.5" ID	1.625"
	**A118-8636X60CL	2" ID	60mm
OD Turning Blocks	A118-8311	1" Sq. OD	
OD Facing Blocks	A118-8411	1" Sq. OD	

## BHP 85mm x 70mm (Series LB35-) Bolt Hole Pattern

Machine Models : LB35 LU35

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LB35-8435	1.5" ID	1.375"
	LB35-8436	2" ID	1.375"
	LB35-8437	2.5" ID	1.625"
OD Turning Blocks	LB35-8311	1" Sq. OD	
OD Facing Blocks	LB35-8411	1" Sq. OD	

## BHP 105mm x 70mm (Series LB45-) Bolt Hole Pattern

Machine Models : LB45 LU45

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LB45-8435	1.5" ID	1.625"
	LB45-8436	2" ID	1.625"
	LB45-8437	2.5" ID	1.625"
	LB45-8475	3" ID	
	LB45Wide-8437 Split	2.5" ID	40mm
OD Turning Blocks	LB45-8311B	1.25" Sq. OD	
OD Facing Blocks	LB45-8411B	1.25" Sq. OD	

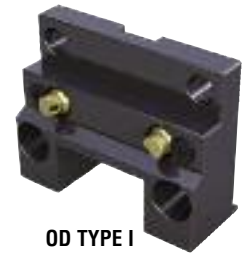
All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Okuma Tool Blocks



### BHP 73mm x 65mm (Series LB3000-) Bolt Hole Pattern

Machine Models : LB2000      LB2500      LB3000      LB3000EX

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LB3000-8416	.625" ID	90mm
	LB3000-8420	.75" ID	90mm
	LB3000-8425	1" ID	90mm
	LB3000-8432	1.25" ID	90mm
	LB3000-8435	1.5" ID	90mm
	LB3000-8436	2" ID	90mm
OD Turning Blocks	LB3000-8311	1" Sq. OD	
	LB3000-8311 DBL	1" Sq. OD	
OD Facing Blocks	LB3000-8411	1" Sq. OD	
Plug	LB3000-PLUG		

### BHP 80mm x 78mm (Series LB4000-) Bolt Hole Pattern

Machine Models : LB4000      LB4000EX

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LB4000-8432	1.25" ID	90mm
	LB4000-8435	1.5" ID	90mm
	LB4000-8436	2" ID	90mm
	LB4000-8437	2.5" ID	90mm
OD Turning Blocks	LB4000-8311	1" Sq. OD	
	LB4000-8311 DBL	1" Sq. OD	
OD Facing Blocks	LB4000-8411	1" Sq. OD	
Plug	LB4000-PLUG		

### BHP 70mm x 45mm (Series LB9-) Bolt Hole Pattern

Machine Models : LB-9      LB-10      GenosL250V12      ESL6 Heritage

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LB9-8420	.75" ID	1"
	LB9-8425	1" ID	1"
	LB9-8432	1.25" ID	1"
	LB9-8435	1.5" ID	1"
OD Turning Blocks	LB9-8311A	1" Sq. OD	
OD Facing Blocks	LB9-8411A	1" Sq. OD	

### BHP 80mm x 45mm (Series LC20-) Bolt Hole Pattern

Machine Models : LC20

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LC20-8432	1.25" ID	1.25"
	LC20-8435	1.5" ID	1.25"
OD Turning Blocks	LC20-8311	1" Sq. OD	
OD Facing Blocks	LC20-8411	1" Sq. OD	

### BHP 85mm x 70mm (Series LC30-) Bolt Hole Pattern

Machine Models : LC30

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LC30-8436	2" ID	1.625"
OD Turning Blocks	LC30-8311	1" Sq. OD	
OD Facing Blocks	LC30-8411	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Okuma Tool Blocks



ID



OD TYPE II



OD TYPE I

## BHP 105mm x 70mm (Series LC40-) Bolt Hole Pattern

Machine Models : LC40

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LC40-8436	2" ID	1.625"
	LC40-8437	2.5" ID	50mm
OD Turning Blocks	LC40-8311B	1.25" Sq. OD	
OD Facing Blocks	LC40-8411B	1.25" Sq. OD	

## BHP 80mm x 120mm (Series LC50-) Bolt Hole Pattern

Machine Models : LC50

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LC50-8437	2.5" ID	1.75"
	LC50-8475	3" ID	2"
OD Turning Blocks	LC50-8311C	1.5" Sq. OD	

## BHP 55mm x 40mm (Series LFS12-) Bolt Hole Pattern

Machine Models : LFS12

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LFS12-8432	1.25" ID	115mm
OD Turning Blocks	LFS12-8311	1" Sq. OD	
	LFS12-8411	1" Sq. OD	

## BHP 75mm x 55mm (Series LFS15-) Bolt Hole Pattern

Machine Models : LFS15

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	LFS15-8435	1.5" ID	115mm
OD Turning Blocks	LFS15-8311	1" Sq. OD	

TOOL BLOCKS

# Okuma Howa Tool Blocks



ID



OD TURNING



OD FACING

## BHP 90mm x 70mm (Series HB4A-) Bolt Hole Pattern

Machine Models : H4

	Part Number	ID / OD Size	ID Centerline Height
ID Blocks	HB4A-1.5	1.5" ID	40mm
	HB4A-2	2" ID	40mm
OD Turning Blocks	HO4A-1RL	1" Sq. OD	
OD Facing Blocks	HF4A-1RL	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.





# Okuma Howa Tool Blocks



ID



OD TURNING



OD FACING

## BHP 80mm x 50mm (Series HB6A-) Bolt Hole Pattern

Machine Models : H6

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB6A-1.5	1.5" ID	40mm
	HB6A-2	2" ID	40mm
	HB6B-1.5	1.5" ID	60mm
	HB6B-2	2" ID	65mm
<b>OD Turning Blocks</b>	HO6A-1RL	1" Sq. OD	
	HO6B-1RL	1" Sq. OD	
<b>OD Facing Blocks</b>	HF6A-1RL	1" Sq. OD	
	HF6B-1RL	1" Sq. OD	

## BHP 120mm x 80mm (Series HB8-) Bolt Hole Pattern

Machine Models : H8

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB8-1.5-N	1.5" ID	155mm
	HB8-1.75-N	1.75" ID	155mm
<b>OD Turning Blocks</b>	HO8-1L-N	1" Sq. OD	
	HO8-1R-N	1" Sq. OD	
<b>OD Facing Blocks</b>	HF8-1RL-N	1" Sq. OD	

## BHP 90mm x 70mm (Series HB8A-) Bolt Hole Pattern

Machine Models : H8A

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB8A-1.75-N	1.75" ID	120mm
	HB8A-2-N	2" ID	120mm
<b>OD Turning Blocks</b>	HO8B-1RN-N-W	1" Sq. OD	
<b>OD Facing Blocks</b>	HF8A-1RN-N-W	1" Sq. OD	

## BHP 95mm x 60mm (Series HB10-) Bolt Hole Pattern

Machine Models : H10

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB10-1.5-N	1.5" ID	110mm
	HB10-1.75-N	1.75" ID	110mm
	HB10-2-N	2" ID	110mm
	HB10-2.5-N	2.5" ID	110mm
<b>OD Turning Blocks</b>	HO10-1RL-N-W	1" Sq. OD	
	HO10-1.25-N-W	1.25" Sq. OD	
<b>OD Facing Blocks</b>	HF10-1RL-N-W	1" Sq. OD	
	HF10-1RL-N-W	1.25" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.

TOOL BLOCKS





# Okuma Howa Tool Blocks



ID



OD TURNING



OD FACING

## BHP 100mm x 90mm (Series HB10A-) Bolt Hole Pattern

Machine Models : \*Signifies M16 Bolt H10B

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB10A-2	2" ID	120mm
	HB10A-2.5	2.5" ID	120mm
	HB10B-2	2" ID	120mm
	HB10B-2.5	2.5" ID	120mm
<b>OD Turning Blocks</b>	HO10A-1	1" Sq. OD	
	HO10A-1.25	1.25" Sq. OD	
	HO10B-1*	1" Sq. OD	
	HO10B-1.25*	1.25" Sq. OD	
<b>OD Facing Blocks</b>	HF10A-1	1" Sq. OD	
	HF10A-1.25	1.25" Sq. OD	
	HF10B-1*	1" Sq. OD	
	HF10B-1.25	1.25" Sq. OD	

## BHP 75mm x 50mm (Series HB12-) Bolt Hole Pattern

Machine Models : H12

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB12-1.5-N	1.5" ID	105mm
	HB12-1.75-N	1.75" ID	105mm
	HB12-2-N	2" ID	105mm
<b>OD Turning Blocks</b>	HO12-1RL-N-W	1" Sq. OD	
<b>OD Facing Blocks</b>	HF12-1RL-N-W	1" Sq. OD	

## BHP 140mm x 115mm (Series HB22-) Bolt Hole Pattern

Machine Models : H22

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB22-2-N	2" ID	128mm
	HB22-2.5-N	2.5" ID	128mm
	HB22-3-N	3" ID	128mm
<b>OD Turning Blocks</b>	HO22-1RL	1" Sq. OD	
	HO22-1.25RL	1.25" Sq. OD	
<b>OD Facing Blocks</b>	HF22-1RL	1" Sq. OD	
	HF22-1.25RL	1.25" Sq. OD	

## BHP 75mm x 50mm (Series HB9-) Bolt Hole Pattern

Machine Models : HB9

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB9-1.25	1.25" ID	130mm
<b>OD Turning Blocks</b>	HO9-.75	.75" Sq. OD	
<b>OD Facing Blocks</b>	HF9-.75	.75" Sq. OD	

## BHP 80mm x 50mm (Series HB23-) Bolt Hole Pattern

Machine Models : HB23

	Part Number	ID / OD Size	ID Centerline Height
<b>ID Blocks</b>	HB23-1.5	1.5" ID	43mm
<b>OD Turning Blocks</b>	HO23-1RL	1" Sq. OD	
<b>OD Facing Blocks</b>	HF23-1RL	1" Sq. OD	

All ID Blocks are shipped External Coolant : For Internal Coolant Plate : Please add "INT" to the end on the Part Number.





# More Tool Blocks / Bolt Hole Pattern List



ID



OD TURNING



OD FACING

These Blocks are Made to Order :

An Approval Print will be supplied by Global CNC. Please note that additional Tool Blocks may be found on our Website: [www.globalcnc.com](http://www.globalcnc.com).

Machine Model	Across	Back	6 Hole	Part Number Prefix	-Add ID Size	-Add OD Turning Size	-Add OD Facing Size
<b>Amera-Seiki</b>							
AMER2L	85	45		AMER2L-			
AMER4L	89	48		AMER4L-			
TC5XL	78	35		TC5XL-			
TC30	76	56		TC30-			
<b>Chevalier</b>							
FBL530	115	70	70	FBL530-			
FCL820	68	42		FCL820-			
FCL32160	80	50		FCL32160-			
<b>Cincinnati</b>							
3H31	110	70		3H31-			
CIFAL	90	50		CIFAL-			
CIN102x45	102	45/65		CIN102x45-			
<b>Dainichi</b>							
F20	61	40		F20-			
F35	85	40		F35-			
F250	78	40		F250-			
MX105	130	90		MX105-			
<b>DMC</b>							
DL21	76	45		DL21-			
<b>Dorian</b>							
BBH-10-125-4	46	45		BBH-10-125-4-			
FTH25-3	64	46		FTH25-3-			
<b>Eurotech</b>							
ET63x65	63	65		ET63x65-			
<b>Feeler</b>							
FTC30	88	56		FTC30-			
<b>Femco</b>							
FEM.110x60	110	60		FEM.110x60-			
HL35	80	75		HL35-			
<b>Fuji</b>							
FUJI-80x60	80	60		FUJI-80x60-			
<b>Goodway</b>							
GOODWAY.72x35	72	35		GOODWAY.72x35-			

TOOL BLOCKS





# More Tool Blocks / Bolt Hole Pattern List



ID



OD TURNING



OD FACING

**These Blocks are Made to Order :**

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Machine Model	Across	Back	6 Hole	Part Number Prefix	-Add ID Size	-Add OD Turning Size	-Add OD Facing Size
<b>Graziano</b>							
CTX510	71	43		CTX510-			
CTX620	90	57		CTX620-			
<b>Hankook</b>							
P100	115	80		P100-			
<b>Hardinge</b>							
CS 0011944	60	50		CS 0011944-			
GS	68	42		GS-			
SG 0011944	76	51		SG 0011944-			
T51-84x56	84	56		T51-84x56-			
<b>Hitachi-Seiki</b>							
HS75x40	75	40		HS75x40-			
HT25G	88	52		HT25G-			
HT40G	120	74		HT40G-			
<b>Honor-Seiki</b>							
VL86	110	60		VL86-			
<b>Horibe</b>							
HOR	80	40		HOR-			
<b>Hurco</b>							
TM6	54	35		TM6-			
A118	80	45		A118-			
<b>Hyundai</b>							
E160	68	35		E160-			
HIT20M	92	48		HIT20M-			
L300A	88	56		L300A-			
LV110RM	154	85		LV110RM-			
<b>Ikegai</b>							
95550550	95	50		95550550-			
IKG	74	50		IKG-			
P74x50	74	50		P74x50-			
TU30	110	80		TU30-			
TU40	125	90		TU40-			
<b>Johnford</b>							
JSL500	78	35		JSL500-			

TOOL BLOCKS







# More Tool Blocks / Bolt Hole Pattern List



ID



OD TURNING



OD FACING

These Blocks are Made to Order :

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Machine Model	Across	Back	6 Hole	Part Number Prefix	-Add ID Size	-Add OD Turning Size	-Add OD Facing Size
<b>Kia</b>							
SKT15/21	75	40		SKT15/21-			
SKT21	76	45		SKT21-			
SKT28L	86	55		SKT28L-			
SKT400	90	66		SKT400-			
SKT400C	90	42		SKT400C-			
SKT460	96	100		SKT460-			
<b>Kingston</b>							
KINGSTON	124	104		KINGSTON-			
<b>Kitako</b>							
HS4200i	70	52		HS4200i-			
K-VT4	70	43		K-VT4-			
NL3000	84	94		NL3000-			
NZ2000	62	70		NZ2000-			
VT4-350	95	36		VT4-350-			
<b>Leadwell</b>							
LTC25	86	55		LTC25-			
LTC30P	110	70		LTC30P-			
<b>Methods</b>							
SLT50	100	55		SLT50-			
<b>Milltronics</b>							
01030301	170	134	134	01030301-			
<b>Mitsubishi</b>							
MTC10B	86	55		MTC10B-			
MTC15B	95	65		MTC15B-			
<b>Miyano</b>							
BNA-42MSY	52	56		BNA-42MSY-			
BNC34	52	35		BNC34-			
LE41	88	62		LE41-			
MIYLEII	80	55		MIYLEII-			
MIYLZ01	42	35		MIYLZ01-			
MIYLZ02	56	68		MIYLZ02-			
<b>Murata</b>							
MC9	76	110		MC9-			

TOOL BLOCKS





# More Tool Blocks / Bolt Hole Pattern List



ID



OD TURNING



OD FACING

These Blocks are Made to Order :

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Machine Model	Across	Back	6 Hole	Part Number Prefix	-Add ID Size	-Add OD Turning Size	-Add OD Facing Size
<b>Pragati</b>							
BTH-3/4	58	32		BTH-3/4-			
BTH-1	72	36		BTH-1-			
<b>Romi</b>							
BPP	64	60		BPP-			
G30	76	60		G30-			
M17	70	30		M17-			
M20	86	60		M20-			
M27	94	60		M27-			
<b>Sauter</b>							
BADA1	88	63		BADA1-			
SAUT104x72	104	72		SAUT104x72-			
<b>Sharp</b>							
ST-10	54	35		ST-10-			
<b>Takamaz</b>							
X100	70	35		X100-			
X150	72	50		X150-			
<b>Takisawa</b>							
TCC2000	66	45		TCC2000-			
TC4	110	60		TC4-			
TAK92x45	92	45		TAK92x45-			
<b>Victor</b>							
VT26	76	35		VT26-			
VT36	102	75		VT36-			
VT50	102	95		VT50-			
<b>Wasino</b>							
LJ1N	60	30		LJ1N-			
LENUC	80	50		LENUC-			
LJ103	100	84		LJ103-			
LJ	96	96		LJ-			
LU5	74	40		LU5-			
<b>Yama-Seiki</b>							
YAMA.80x70	80	70		YAMA.80x70-			
<b>You-Ji</b>							
YOU-JI	114	76		YOU-JI-			

TOOL BLOCKS



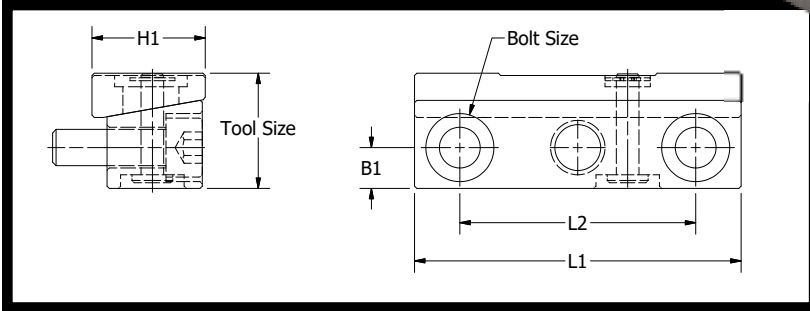


# Turret Wedges

These Two Piece Components mount directly to the Turret to hold your Square Tools precisely. All Hardware included. To determine the correct Wedge for your Turret : you will need to know 3 dimensions:

- Square OD Size
- Overall Length in mm
- Center Distance of Set Screws in mm

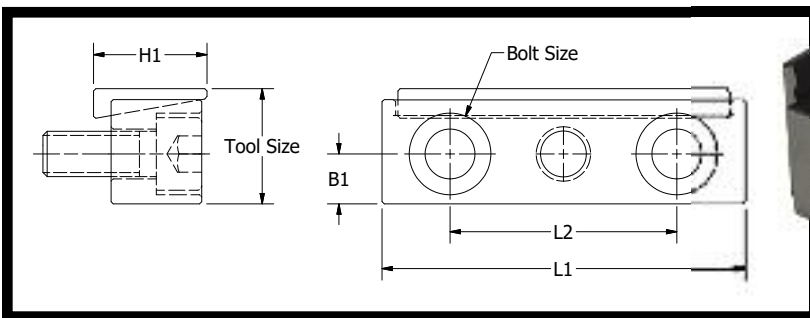
\*Global CNC also has compiled a Listing Based on Machine Model and most common Turrets installed on those Turrets.



# Daewoo / Doosan Turret Wedges

Part Number	Tool Size	L <sub>1</sub>	L <sub>2</sub>	H <sub>1</sub>	B <sub>1</sub>	Bolt Size
DW.75x60x40	3/4"	60mm	40mm	19mm	7mm	M6x1
DW1.0x68x41	1"	68mm	41mm	25mm	9mm	M8x1.25
DW1.0x72x52	1"	72mm	52mm	25mm	9mm	M8x1.25
DW1.25x100x60	1-1/4"	100mm	60mm	31.75mm	11mm	M10x1.5
DW1.25x120x70	1-1/4"	120mm	70mm	31.75mm	11mm	M10x1.5

# Haas Turret Wedges



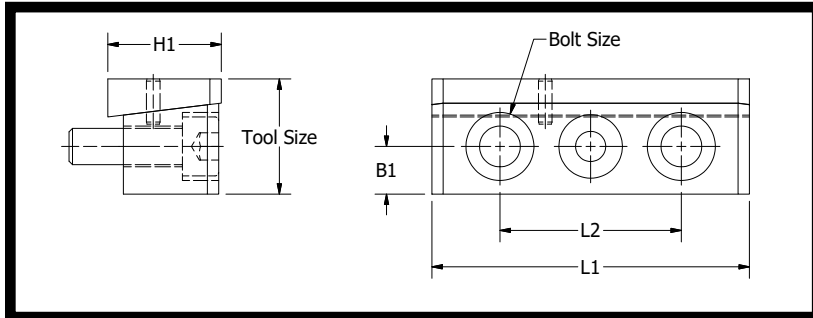
Part Number	Tool Size	L <sub>1</sub>	L <sub>2</sub>	H <sub>1</sub>	B <sub>1</sub>	Bolt Size
TW H.75x1.90x1.15	3/4"	1.90"	1.15"	.75"	.250"	1/4-20
TW H1.0x1.90x1.15	1"	1.90"	1.15"	.98"	.375"	3/8-16
TW H1.0x3.00x1.15	1"	1.90"	1.15"	.98"	.375"	3/8-16
TW1.0x80x50	1"	80mm	50mm	25mm	11mm	3/8-16
TW1.25x110x70-M12	1-1/4"	110mm	70mm	30mm	13.5mm	1/2-13

TURRET WEDGES



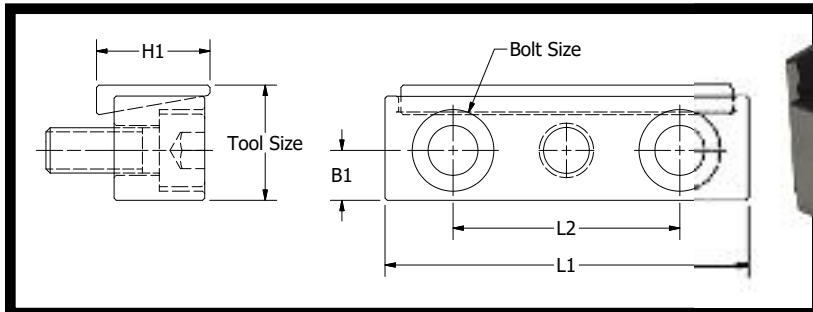


# Mori Seiki Turret Wedges



Part Number	Tool Size	L <sub>1</sub>	L <sub>2</sub>	H <sub>1</sub>	B <sub>1</sub>	Bolt Size
MS.75x64x36	3/4"	64mm	36mm	19mm	8mm	M6x1
MS.75x84x44	3/4"	84mm	44mm	19mm	8mm	M6x1
MS1.0x70x40	1"	70mm	40mm	25mm	10.5mm	M8x1.25
MS1.0x110x50	1"	110mm	50mm	25mm	10.5mm	M8x1.25
MS1.25x110x50	1-1/4"	110mm	50mm	31.75mm	13mm	M10x1.5

# Okuma Turret Wedges



Part Number	Tool Size	L <sub>1</sub>	L <sub>2</sub>	H <sub>1</sub>	B <sub>1</sub>	Bolt Size
TW1.05x58x35-M8	1"	58mm	35mm	19mm	11mm	M8x1.25
TW1.0x80x50	1"	80mm	50mm	25mm	11mm	M10x1.5
TW1.0x110x70	1"	110mm	70mm	25mm	11mm	M10x1.5
TW1.25x110x70-M12	1-1/4"	110mm	70mm	30mm	13.5mm	M12x1.75





# THE “OILY”

## Micro Lubrication Injector for Tapping Applications

**Special  
Introductory  
Offer**

A Unique New Tool for Friction Free Tapping Applications for both Horizontal and Vertical CNC machining processes. Zero interruption of the CNC machining process to manually lubricate the bore hole. Provides dedicated injection of Cutting Oil directly into the Drilled hole of the work piece prior to tapping.

Use CNC programmed positioning of the injector tip to provide micro lubrication of the entire bore hole upon contact. the OILY can hold 100 ml of cutting Oil serving 5000 bore holes 3mm. The OILY becomes just another tool in the CNC Tool-changer and can be used on angular positions. The OILY increases Tap longevity and CNC process safety.

Shank Diameter: 20mm

Part Numbers: OILY-M: Longer style for Mills



# BAR PULLERS:

## Straight Shank For CNC Lathes

**Special  
Introductory  
Offer**

Automate your CNC Turning center: Simple and Inexpensive way to save Time and Money! Self Adjusting coolant or Air Actuated Bar Pullers! The Bar Puller Advantage:

- Fast and Easy Set-up. Increases Productivity.
- Four fingered Bar Puller Holds both Square and Round Parts.
- Self Adjusting & Self Releasing
- Maintenance Free Operation
- Easily moves from one machine to the next.
- Minimal Space required on Turret due to compact design
- No more manually loading bar stock – precisely pulls and positions.
- **Shank Diameters:** Mini: 5/8” Round  
Large: 1”, 30mm and 40mm Round.



- **Two Sizes:** “Mini” has gripping range of 1/8” to 1 1/8” Diameter.  
“Large” has gripping range of 1/8” to 3 1/8” Diameter.

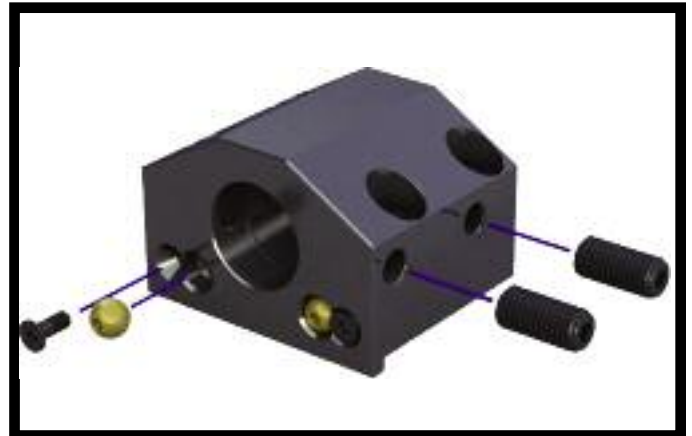
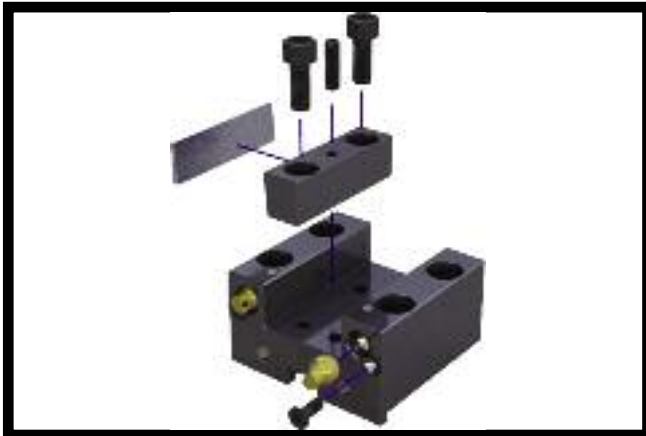
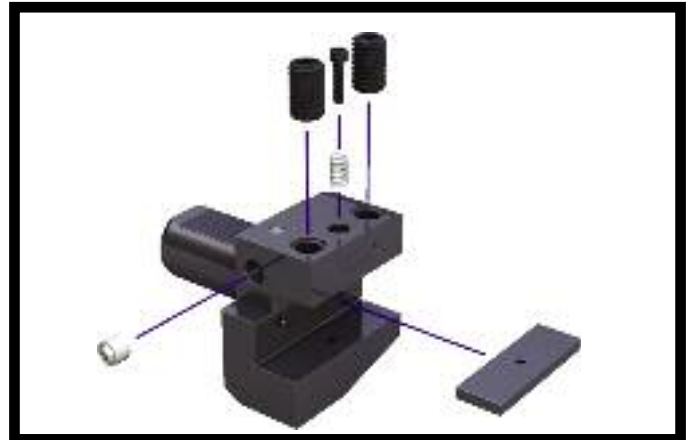
Part Numbers: BPMini 5/8”, BPLarge 1”, BPLarge 40mm & BPLarge 30mm

NEW PRODUCTS





# Accessories



2015-2016  
Coolant Nozzles

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**GLOBAL CNC**

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NEW PRODUCTS





# We Offer Accessory Parts for Your Global CNC Toolholders

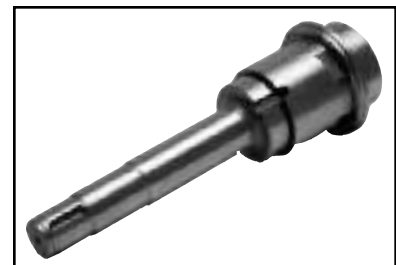
## Toolholder Bushings:

PART NUMBER	PART NUMBER
1) Set Screws	SS (Global Part Number to Fit)
2) Nut for 5C Collet Holder	5CN (Global Part Number to Fit)
3) Back Screw for 5C Collet Holder	BS5C (Global Part Number to Fit)
4) Nut for ER Straight Shank Collet Chuck	NER (Global Part Number to Fit)
5) Nut for TG Straight Shank Collet Chuck	NTG (Global Part Number to Fit)

## VDI Toolholders:

PART NUMBER	PART NUMBER
1) Coolant Nozzle and Plastic Sleeve	CN (Global Part Number to Fit)
2) Clamp Plate	CP (Global Part Number to Fit)
3) Spring and Screws for Clamp Plate	SPSCP (Global Part Number to Fit)
4) VDI Shank Screw for ID Holders	SHS (Global Part Number to Fit)
5) Nut for ER Collet Chuck	VDINER (Global Part Number to Fit)
6) Nut for TG Collet Chuck	VDINTG (Global Part Number to Fit)

## We Now Repair Driven VDI Tooling Guaranteed!



2020/2021

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