



Avoid Thermal Shock Maximize Tool Life Improve Surface Finish
Flush and Evacuate CHIPS Rigidity MAXIMUM COOLANT COVERAGE
INCREASED SPEEDS AND FEEDS NEW DESIGNS Thermalfit



Optimum Coolant Velocity MAX FLOW RATE innovative

CONTACT US
3955 S. Fletcher Rd
Chelsea, MI 48118
Phone: 734.433.1800
Fax: 734.433.1802
www.koolblast.com



Coolant Fed Toolholders NEW Orifice DESIGNS BT 30 CAT 50
OPTIMAL Amount of Coolant Ports and Orifices CAT 40
Lathe Sleeves Hold Tolerances longer MAX high PRESSURE

Optimum Coolant Flow Angle
Productivity

Product Catalog

BOOST Throughput CAT 40

ELIMINATE Coolant LINE adjustments



Balancing
Smaller Shear Zone
www.koolblast.com



KoolBlast Coolant Fed Tool Holders are engineered to direct the optimal coolant volume, concentration, and velocity towards the cutter. Our holders have advanced engineered internal coolant channels and exit orifices that are designed for the coolant jets to resist the effects of centrifugal force caused from spindle RPM. This helps maintain 360 degrees of maximum coolant coverage to the cutting tool.

Our Coolant Fed Products

1. Weldon End Mill Holders
2. Thermafit End Mill Holders
3. Lathe Sleeves
4. Lathe Collars

Styles

- BT 30
- BT 40
- Cat 40
- Cat 50
- HSK



Superior Benefits

- Increased Tool Life up to 100%
- Hold Tolerances Longer
- Eliminate the Effects of Thermal Shock
- Maximize Chip Control
- Increase Chip Evacuation
- Reduce Downtime of Changing Cutters
- Increased Speeds and Feeds
- Improved Surface Finish
- Gain Rigidity with Shorter Tool Lengths
- Eliminate the Chance of Coolant Lines Being Deflected
- Eliminate the Formation of a Coolant Vapor Barrier
- Drastically Increase Performance of Pocket/Cavity Milling
- 360 degrees of coolant coverage
- Advanced Scientific Engineering
- Maximum Coolant Coverage
- Superior Coolant Coverage at Higher RPMs
- Premium Quality
- Increased Productivity and Performance
- Made in USA



SAY HELLO

To PressureMax Our New DESIGN Weldon End Mill Holders

PressureMax

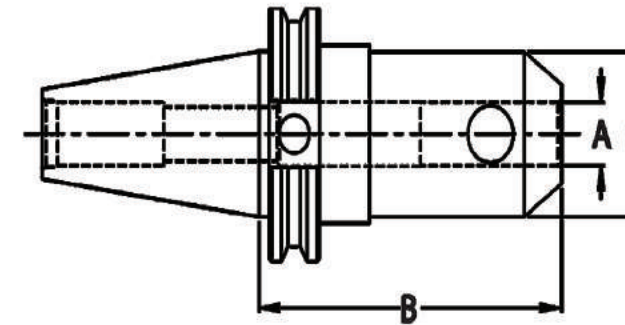
Optimal number of coolant ports.

New Orifice Design for increased coolant coverage.

Pressurized coolant orifices blast coolant towards the cutter to penetrate into the cutting zone, keeping the cutter cool and evacuating chips.

Extensive Fluid Dynamic studies have allowed for reduced flow turbulence and maximum pressure before coolant is released from orifice.

COOLANT FED END MILL HOLDERS



BT 30

- CAT V-flange (CV) tooling ASME standards
- BT tooling constructed to Japanese Industrial Standard (JIS)
- Taper ground in accordance to AT4 ISO-1947
- Case hardened to 52-56 HRC
- Manufactured from quality alloy steel
- Available in DIN Form B coolant thru the flange
- Balanceable

*Please call for availability of metric sizes

CAT 40

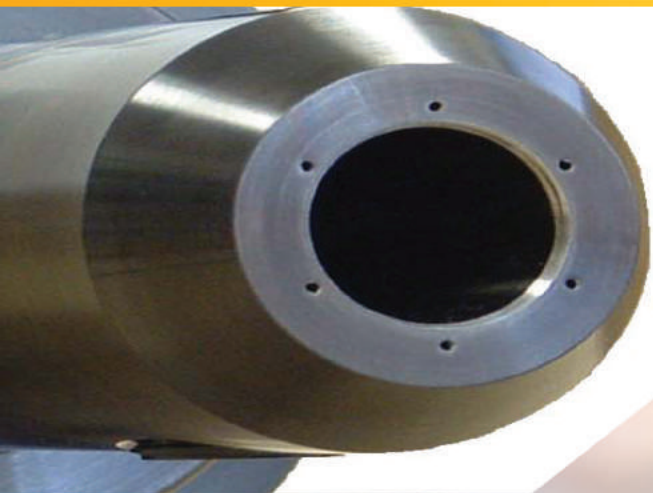
Coolant	A	B	C	Part No.
Thru	.250	3.75	1.00	300-250-W
DIN B	.250	3.75	1.00	300-250-WD
Thru	.250	2.00	1.00	300-250-WS
DIN B	.250	2.00	1.00	300-250-WSD
Thru	.3125	3.75	1.12	300-312-W
DIN B	.3125	3.75	1.12	300-312-WD
Thru	.3125	2.00	1.12	300-312-WS
DIN B	.3125	2.00	1.12	300-312-WSD
Thru	.375	3.75	1.12	300-375-W
DIN B	.375	3.75	1.12	300-375-WD
Thru	.375	2.00	1.12	300-375-WS
DIN B	.375	2.00	1.12	300-375-WSD
Thru	.4375	3.75	1.25	300-438-W
DIN B	.4375	3.75	1.25	300-438-WD
Thru	.4375	2.00	1.25	300-438-WS
DIN B	.4375	2.00	1.25	300-438-WSD
Thru	.500	3.75	1.25	300-500-W
DIN B	.500	3.75	1.25	300-500-WD
Thru	.500	2.00	1.25	300-500-WS
DIN B	.500	2.00	1.25	300-500-WSD
Thru	.625	3.75	1.37	300-625-W
DIN B	.625	3.75	1.37	300-625-WD
Thru	.625	2.00	1.37	300-625-WS
DIN B	.625	2.00	1.37	300-625-WSD
Thru	.750	3.75	1.75	300-750-W
DIN B	.750	3.75	1.75	300-750-WD
Thru	.750	2.00	1.75	300-750-WS
DIN B	.750	2.00	1.75	300-750-WSD
Thru	1.00	3.75	2.00	300-1000-W
DIN B	1.00	3.75	2.00	300-1000-WD
Thru	1.25	4.00	2.25	300-1250-W
DIN B	1.25	4.00	2.25	300-1250-WD
Thru	1.50	4.25	2.50	300-1500-W
DIN B	1.50	4.25	2.50	300-1500-WD

CAT 50

Coolant	A	B	C	Part No.
Thru	.250	4.00	1.00	400-250-W
DIN B	.250	4.00	1.00	400-250-WD
Thru	.250	2.00	1.00	400-250-WS
DIN B	.250	2.00	1.00	400-250-WSD
Thru	.3125	4.00	1.12	400-312-W
DIN B	.3125	4.00	1.12	400-312-WD
Thru	.3125	2.00	1.12	400-312-WS
DIN B	.3125	2.00	1.12	400-312-WSD
Thru	.375	4.00	1.12	400-375-W
DIN B	.375	4.00	1.12	400-375-WD
Thru	.375	2.00	1.12	400-375-WS
DIN B	.375	2.00	1.12	400-375-WSD
Thru	.4375	3.75	1.25	300-438-W
DIN B	.4375	3.75	1.25	300-438-WD
Thru	.4375	2.00	1.25	300-438-WS
DIN B	.4375	2.00	1.25	300-438-WSD
Thru	.500	4.00	1.25	400-500-W
DIN B	.500	4.00	1.25	400-500-WD
Thru	.500	2.00	1.25	400-500-WS
DIN B	.500	2.00	1.25	400-500-WSD
Thru	.625	4.00	1.37	400-625-W
DIN B	.625	4.00	1.37	400-625-WD
Thru	.625	4.00	1.37	400-625-W
DIN B	.625	4.00	1.37	400-625-WSD
Thru	.750	4.00	1.75	400-750-W
DIN B	.750	4.00	1.75	400-750-WD
Thru	.750	2.00	1.75	400-750-WS
DIN B	.750	2.00	1.75	400-750-WSD
Thru	1.00	4.00	2.00	400-1000-W
DIN B	1.00	4.00	2.00	400-1000-WD
Thru	1.25	4.00	2.25	400-1250-W
DIN B	1.25	4.00	2.25	400-1250-WD
Thru	1.50	4.00	2.50	400-1500-W
DIN B	1.50	4.00	2.50	400-1500-WD

BT 40

Coolant	A	B	C	Part No.
Thru	.250	3.50	1.00	800-250-W
DIN B	.250	3.50	1.00	800-250-WD
Thru	.250	2.375	1.00	800-250-WS
DIN B	.250	2.375	1.00	800-250-WSD
Thru	.3125	3.50	1.12	800-312-W
DIN B	.3125	3.50	1.12	800-312-WD
Thru	.3125	2.375	1.12	800-312-WS
DIN B	.3125	2.375	1.12	800-312-WSD
Thru	.375	3.50	1.12	800-375-W
DIN B	.375	3.50	1.12	800-375-WD
Thru	.375	2.375	1.12	800-375-WS
DIN B	.375	2.375	1.12	800-375-WSD
Thru	.4375	3.50	1.25	800-438-W
DIN B	.4375	3.50	1.25	800-438-WD
Thru	.4375	2.275	1.25	800-438-WS
DIN B	.4375	2.375	1.25	800-438-WSD
Thru	.500	3.50	1.25	800-500-W
DIN B	.500	3.50	1.25	800-500-WD
Thru	.500	2.375	1.25	800-500-WS
DIN B	.500	2.375	1.25	800-500-WSD
Thru	.625	3.50	1.37	800-625-W
DIN B	.625	3.50	1.37	800-625-WD
Thru	.625	2.375	1.37	800-625-WS
DIN B	.625	2.375	1.37	800-625-WSD
Thru	.75	3.50	1.75	800-750-W
DIN B	.75	3.50	1.75	800-750-WD
Thru	.75	2.375	1.75	800-750-WS
DIN B	.75	2.375	1.75	800-750-WSD
Thru	1.00	3.50	2.00	800-1000-W
DIN B	1.00	3.50	2.00	800-1000-WD
Thru	1.25	3.50	2.25	800-1250-W
DIN B	1.25	3.50	2.25	800-1250-WD
Thru	1.50	3.50	2.50	800-1500-W
DIN B	1.50	3.50	2.50	800-1500-WD



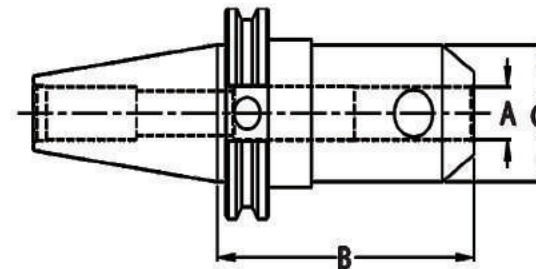
THE ORIGINAL Weldon End Mill Holders

THE ORIGINAL

KoolBlast End Mill Holders: Used for CNC milling applications and machines with thru the spindle or thru the flange coolant. These tool holders are engineered to stabilize and direct the coolant flow toward the cutter.

This intense jet of coolant hugs the cutting tool and blasts chips out of its path. They are designed to resist the effects of RPM.

COOLANT FED END MILL HOLDERS



BT 30

- CAT V-flange (CV) tooling ASME standards
- BT tooling constructed to Japanese Industrial Standard (JIS)
- Taper ground in accordance to AT4 ISO-1947
- Case hardened to 52-56 HRC
- Manufactured from quality alloy steel
- Available in DIN Form B coolant thru the flange
- Balanceable

*Please call for availability of metric sizes

CAT 40

Coolant	A	B	C	Part No.
Thru	.250	3.75	1.375	300-250
DIN B	.250	3.75	1.375	300-250-D
Thru	.250	2.00	1.375	300-250-S
DIN B	.250	2.00	1.375	300-250-SD
Thru	.3125	3.75	1.375	300-312
DIN B	.3125	3.75	1.375	300-312-D
Thru	.3125	2.00	1.375	300-312-S
DIN B	.3125	2.00	1.375	300-312-SD
Thru	.375	3.75	1.375	300-375
DIN B	.375	3.75	1.375	300-375-D
Thru	.375	2.00	1.375	300-375-S
DIN B	.375	2.00	1.375	300-375-SD
Thru	.4375	3.75	1.50	300-438
DIN B	.4375	3.75	1.50	300-438-D
Thru	.4375	2.00	1.50	300-438-S
DIN B	.4375	2.00	1.50	300-438-SD
Thru	.500	3.75	1.50	300-500
DIN B	.500	3.75	1.50	300-500-D
Thru	.500	2.00	1.50	300-500-S
DIN B	.500	2.00	1.50	300-500-SD
Thru	.625	3.75	1.625	300-625
DIN B	.625	3.75	1.625	300-625-D
Thru	.625	2.00	1.625	300-625-S
DIN B	.625	2.00	1.625	300-625-SD
Thru	.750	3.75	1.750	300-750
DIN B	.750	3.75	1.750	300-750-D
Thru	.750	2.00	1.75	300-750-S
DIN B	.750	2.00	1.750	300-750-SD
Thru	1.00	3.75	2.00	300-1000
DIN B	1.00	3.75	2.00	300-1000-D
Thru	1.25	4.00	2.50	300-1250
DIN B	1.25	4.00	2.50	300-1250-D
Thru	1.50	4.25	2.75	300-1500
DIN B	1.50	4.25	2.75	300-1500-D

CAT 50

Coolant	A	B	C	Part No.
Thru	.250	4.00	1.375	400-250
DIN B	.250	4.00	1.375	400-250-D
Thru	.250	2.00	1.375	400-250-S
DIN B	.250	2.00	1.375	400-250-SD
Thru	.3125	4.00	1.375	400-312
DIN B	.3125	4.00	1.375	400-312-D
Thru	.3125	2.00	1.375	400-312-S
DIN B	.3125	2.00	1.375	400-312-SD
Thru	.375	4.00	1.375	400-375
DIN B	.375	4.00	1.375	400-375-D
Thru	.375	2.00	1.375	400-375-S
DIN B	.375	2.00	1.375	400-375-SD
Thru	.4375	3.75	1.50	400-438
DIN B	.4375	3.75	1.50	400-438-D
Thru	.4375	2.00	1.50	400-438-S
DIN B	.4375	2.00	1.50	400-438-SD
Thru	.500	4.00	1.625	400-500
DIN B	.500	4.00	1.50	400-500-D
Thru	.500	2.00	1.50	400-500-S
DIN B	.500	2.00	1.50	400-500-SD
Thru	.625	4.00	1.625	400-625
DIN B	.625	4.00	1.625	400-625-D
Thru	.625	2.00	1.625	400-625-S
DIN B	.625	2.00	1.625	400-625-SD
Thru	.750	4.00	1.75	400-750
DIN B	.750	4.00	1.75	400-750-D
Thru	.750	2.00	1.750	400-750-S
DIN B	.750	2.00	1.750	400-750-SD
Thru	1.00	4.00	2.00	400-1000
DIN B	1.00	4.00	2.00	400-1000-D
Thru	1.25	4.00	2.50	400-1250
DIN B	1.25	4.00	2.50	400-1250-D
Thru	1.50	4.00	2.75	400-1500
DIN B	1.50	4.00	2.75	400-1500-D

BT 40

Coolant	A	B	C	Part No.
Thru	.250	3.50	1.375	800-250
DIN B	.250	3.50	1.375	800-250-D
Thru	.250	2.375	1.375	800-250-S
DIN B	.250	2.375	1.375	800-250-SD
Thru	.3125	3.50	1.375	800-312
DIN B	.3125	3.50	1.375	800-312-D
Thru	.3125	2.375	1.375	800-312-S
DIN B	.3125	2.375	1.375	800-312-SD
Thru	.375	3.50	1.375	800-375
DIN B	.375	3.50	1.375	800-375-D
Thru	.375	2.375	1.375	800-375-S
DIN B	.375	2.375	1.375	800-375-SD
Thru	.4375	3.50	1.50	800-438
DIN B	.4375	3.50	1.50	800-438-D
Thru	.4375	2.375	1.50	800-438-S
DIN B	.4375	2.375	1.50	800-438-SD
Thru	.500	3.50	1.50	800-500
DIN B	.500	3.50	1.50	800-500-D
Thru	.500	2.375	1.50	800-500-S
DIN B	.500	2.375	1.50	800-500-SD
Thru	.625	3.50	1.625	800-625
DIN B	.625	3.50	1.625	800-625-D
Thru	.625	2.375	1.625	800-625-S
DIN B	.625	2.375	1.625	800-625-SD
Thru	.75	3.50	1.750	800-750
DIN B	.75	3.50	1.750	800-750-D
Thru	.75	2.375	1.750	800-750-S
DIN B	.75	2.375	1.750	800-750-SD
Thru	1.00	3.50	2.00	800-1000
DIN B	1.00	3.50	2.00	800-1000-D
Thru	1.25	3.50	2.50	800-1250
DIN B	1.25	3.50	2.50	800-1250-D
Thru	1.50	3.50	2.75	800-1500
DIN B	1.50	3.50	2.75	800-1500-D



ThermalFit®

End Mill Holders w/ New PressureMax

PressureMax

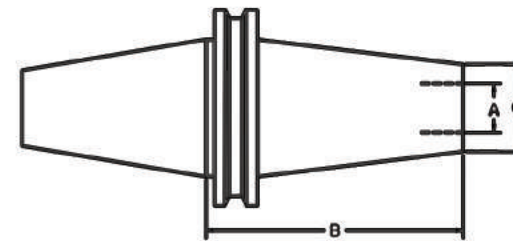
* Optimal number of coolant ports

*Coolant velocity is optimized due to specifically engineered purpose driven port size, shape, length, and angle.

*Extensive Fluid Dynamic studies have allowed for reduced flow turbulence and maximum pressure before coolant is released from orifice.

CAT 40

Coolant	A	B	C	Part No.
Thru	.1875	3.75	.790	300-187-T
DIN B	.1875	3.75	.790	300-187-TD
Thru	.250	3.75	.790	300-250-T
DIN B	.250	3.75	.790	300-250-TD
Thru	.3125	3.75	.790	300-312-T
DIN B	.3125	3.75	.790	300-312-TD
Thru	.375	3.75	.940	300-375-T
DIN B	.375	3.75	.940	300-375-TD
Thru	.4375	3.75	.940	300-438-T
DIN B	.4375	3.75	.940	300-438-TD
Thru	.500	3.75	.940	300-500-T
DIN B	.500	3.75	.940	300-500-TD
Thru	.625	3.75	1.06	300-625-T
DIN B	.625	3.75	1.06	300-625-TD
Thru	.750	3.75	1.30	300-750-T
DIN B	.750	3.75	1.30	300-750-TD
Thru	1.00	3.75	1.73	300-1000-T
DIN B	1.00	3.75	1.73	300-1000-TD
Thru	1.25	3.75	1.73	300-1250-T
DIN B	1.25	3.75	1.73	300-1250-TD
Thru	1.50	3.75	2.00	300-1500-T
DIN B	1.50	3.75	2.00	300-1500-TD



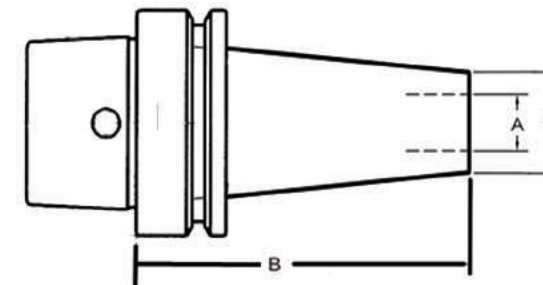
CAT 50

Coolant	A	B	C	Part No.
Thru	.1875	4.00	.790	400-187-T
DIN B	.1875	4.00	.790	400-187-TD
Thru	.250	4.00	.790	400-250-T
DIN B	.250	4.00	.790	400-250-TD
Thru	.3125	4.00	.790	400-312-T
DIN B	.3125	4.00	.790	400-312-TD
Thru	.375	4.00	.940	400-375-T
DIN B	.375	4.00	.940	400-375-TD
Thru	.4375	4.00	.940	400-438-T
DIN B	.4375	4.00	.940	400-438-TD
Thru	.500	4.00	.940	400-500-T
DIN B	.500	4.00	.940	400-500-TD
Thru	.625	4.00	1.06	400-625-T
DIN B	.625	4.00	1.06	400-625-TD
Thru	.750	4.00	1.30	400-750-T
DIN B	.750	4.00	1.30	400-750-TD
Thru	1.00	4.00	1.73	400-1000-T
DIN B	1.00	4.00	1.73	400-1000-TD
Thru	1.25	4.00	1.73	400-1250-T
DIN B	1.25	4.00	1.73	400-1250-TD
Thru	1.50	4.00	2.00	400-1500-T
DIN B	1.50	4.00	2.00	400-1500-TD

ThermalFit COOLANT FED END MILL HOLDERS

- CAT V-flange (CV) tooling ASME standards
- BT tooling constructed to Japanese Industrial Standard (JIS)
- Taper ground in accordance to AT4 ISO-1947
- 52-56 HRC
- Manufactured from H-13
- Balanced to G2.5 @ 20,000 RPM (CV,BT) or 30,000 RPM (HSK)
- Available in DIN Form B coolant thru the flange

*Please call for availability of metric sizes



HSK A63

A	B	C	Part No.
.1875	3.75	.790	500-187-T
.250	3.75	.790	500-250-T
.3125	3.75	.790	500-312-T
.375	3.75	.940	500-375-T
.4375	3.75	.940	500-438-T
.500	3.75	.940	500-500-T
.625	3.75	1.06	500-625-T
.750	3.75	1.30	500-750-T
1.00	3.75	1.73	500-1000-T
1.25	3.75	1.73	500-1250-T



BT 30

Coolant	A	B	C	Part No.
Thru	.1875	3.50	.790	700-187-T
DIN B	.1875	3.50	.790	700-187-TD
Thru	.250	3.50	.790	700-250-T
DIN B	.250	3.50	.790	700-250-TD
Thru	.3125	3.50	.790	700-312-T
DIN B	.3125	3.50	.790	700-312-TD
Thru	.375	3.50	.940	700-375-T
DIN B	.375	3.50	.940	700-375-TD
Thru	.4375	3.50	.940	700-438-T
DIN B	.4375	3.50	.940	700-438-TD
Thru	.500	3.50	.940	700-500-T
DIN B	.500	3.50	.940	700-500-TD
Thru	.625	3.50	1.06	700-625-T
DIN B	.625	3.50	1.06	700-625-TD
Thru	.750	3.50	1.30	700-750-T
DIN B	.750	3.50	1.30	700-750-TD
Thru	1.00	3.50	1.73	700-1000-T
DIN B	1.00	3.50	1.73	700-1000-TD

BT 40

Coolant	A	B	C	Part No.
Thru	.1875	3.75	.790	300-187-T
DIN B	.1875	3.75	.790	300-187-TD
Thru	.250	3.75	.790	300-250-T
DIN B	.250	3.75	.790	300-250-TD
Thru	.3125	3.75	.940	300-312-T
DIN B	.3125	3.75	.940	300-312-TD
Thru	.375	3.75	.940	300-375-T
DIN B	.375	3.75	.940	300-375-TD
Thru	.4375	3.75	.940	300-438-T
DIN B	.4375	3.75	.940	300-438-TD
Thru	.500	3.75	.940	300-500-T
DIN B	.500	3.75	.940	300-500-TD
Thru	.625	3.75	1.06	300-625-T
DIN B	.625	3.75	1.06	300-625-TD
Thru	.750	3.75	1.30	300-750-T
DIN B	.750	3.75	1.30	300-750-TD
Thru	1.00	3.75	1.73	300-1000-T
DIN B	1.00	3.75	1.73	300-1000-TD
Thru	1.25	3.75	1.73	300-1250-T
DIN B	1.25	3.75	1.73	300-1250-TD



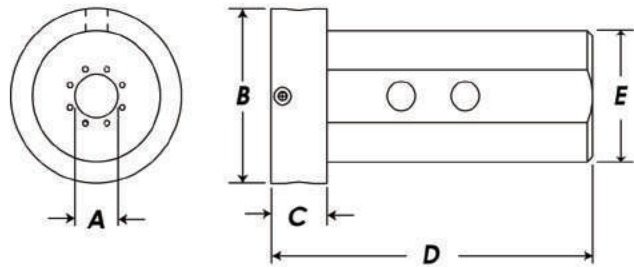


LATHE

Coolant Fed Products

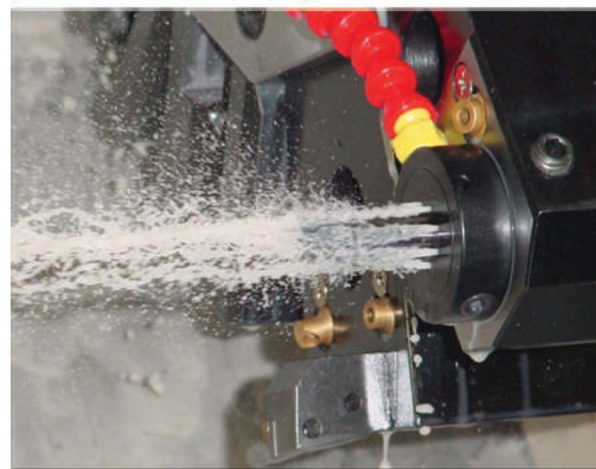
KoolBlast Lathe

KOOLBLAST Sleeve: Designed for CNC lathe applications. Holds boring bars, threading bars and drills. Coolant forced from the face of the sleeve allows positive coolant contact with the cutting edge at all times, eliminating thermal shock and leaving improved surface finishes. Tolerances are held longer. Speeds and feeds are increased. Allows for shorter tool lengths because you can get closer to the part and still have 100% coolant contact with the cutting edge. Eliminates the chance of coolant line deflection.



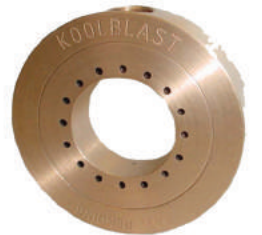
The Original Lathe Sleeves

A	B	C	D	E	Part No.
.250	2.00	.65	3.75	1.50	100-250
.250	2.50	.65	4.65	2.00	110-250
.3125	2.00	.65	3.75	1.50	100-312
.3125	2.50	.65	4.65	2.00	110-312
.375	2.00	.65	3.75	1.50	100-375
.375	2.50	.65	4.65	2.00	110-375
.4375	2.00	.65	3.75	1.50	100-438
.4375	2.50	.65	4.65	2.00	110-438
.500	2.00	.65	3.75	1.50	100-500
.500	2.50	.65	4.65	2.00	110-500
.625	2.00	.65	3.75	1.50	100-625
.625	2.50	.65	4.65	2.00	110-625
.750	2.00	.65	3.75	1.50	100-750
.750	2.50	.65	4.65	2.00	110-750
.875	2.00	.65	3.75	1.50	100-875
.875	2.50	.65	4.65	2.00	110-875
1.00	2.00	.65	3.75	1.50	100-1000
1.00	2.50	.65	4.65	2.00	110-1000



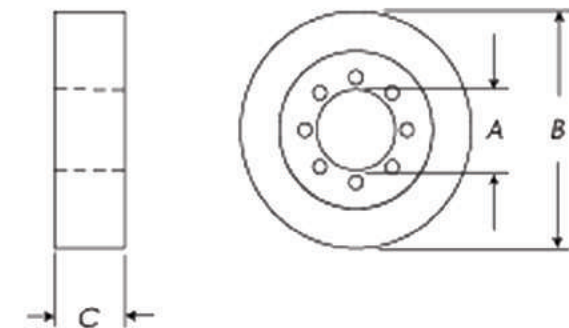
* Please call for Metric Sizing and availability

KOOLBLAST Collar: Designed for use in live and stationary tooling applications, for CNC lathes and screw machines. Creates coolant contact 360° around the cutter, which results in increased tool life and productivity. Coolant supplied through the ID forms a liquid bearing between the rotating cutter and the collar. Simple to use and fast to set up - just slip over the tool and the coolant line holds it in place. Keeps all chips flushed to avoid re-cutting of chips. Eliminates thermal shock to cutter edges. Holds tolerances longer, improves surface finish and allows you to increase speeds and feeds.

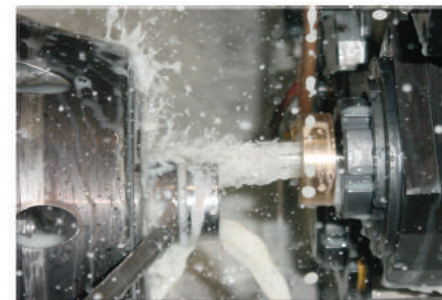


Lathe Collars

A	B	C	Part No.
.250	1.50	.46	200-250
.3125	1.50	.46	200-312
.375	1.50	.46	200-375
.4375	1.50	.46	200-438
.500	1.50	.46	200-500
.625	2.00	.46	200-625
.750	2.00	.46	200-750
.875	2.00	.46	200-875
1.00	2.00	.46	200-1000



* Please call for Metric Sizing and availability



"75% increase! From 180 pieces without KoolBlast to 312 pieces with KoolBlast Collar with live tooling."

47% increase! From 150 pieces without KoolBlast to 220 pieces with KoolBlast Sleeve.

"Excellent. KoolBlast flushes EVERY shaving out of the bore." Company using Mazak Quick Turn 20 with .125" wide full radius groove bar, 3/4" Shank. Material: D2 and M4.