

MMC COLLET CHUCKS



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MMC COLLET CHUCK FEATURES

Accuracy in Small Diameter Cutting

The Mini-Mini Chuck (MMC) features a slim and compact body for precision machining with small diameter tools (up to 0.5"). It is an ideal toolholder for high-speed machining applications where clearance is needed.

High-Speed, High-Precision:

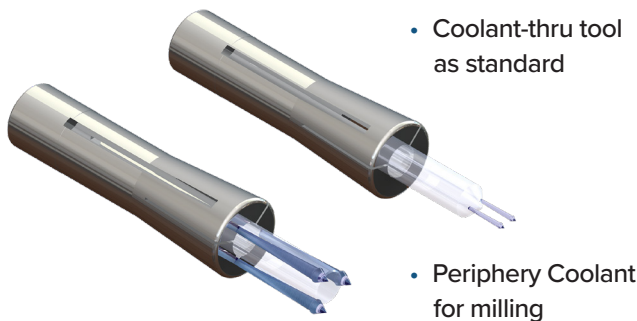
Max. 30,000 RPM (balanced at G2.5)

- Precision ground and pre-balanced, ensuring accuracy, reliability, and repeatability during high-speed operations.
- Most flexible Collet Chuck for machining Die Mold, Aerospace, and Medical parts by providing both clearance and accuracy.

High Runout Accuracy

- Within 0.00012" at 4 times the diameter of the cutting tool!

Coolant-thru Capabilities

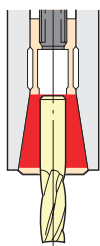


Slim, Compact Nose and Front Clamping

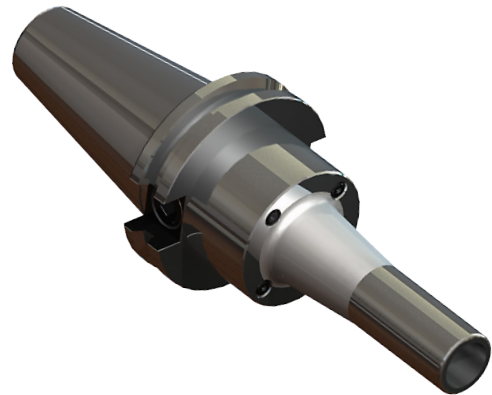
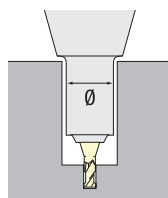
No collet nut required! An internal draw-in collet clamping mechanism results in strong, high-precision gripping and allows for a slim nose that can access hard to reach areas.

Compact with Strong Gripping at Nose

Collet Series Nose Diameters:



- MMC 4: \varnothing 15mm (0.591")
- MMC 8: \varnothing 20mm (0.787")
- MMC 12: \varnothing 30mm (1.181")



Easy-to-use draw-in collet clamping mechanism

Clamp/unclamp with just a wrench!



Wrench included with all "AA" type Mini-Mini Collet Chucks

MMC COLLET CHUCKS



CAT MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



T.I.R.
<.00012" at 4xD



Speed
Up to 30,000 rpm



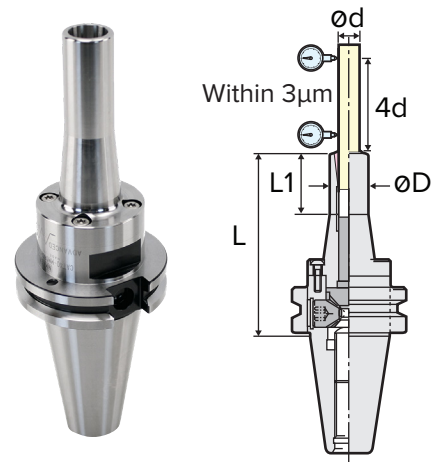
Coolant-Thru
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

CAT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
CAT40-MMC4-90U-AA-IDU	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.18"	0.59"	30K
CAT40-MMC8C-85U-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.35"	1.42"	0.79"	30K
CAT40-MMC8C-90U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
CAT40-MMC8C-120U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
CAT40-MMC8C-125U-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-THEX5-3.75	4.92"	1.42"	0.79"	30K
CAT40-MMC8C-135U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	30K
CAT40-MMC12C-90U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K
CAT40-MMC12C-120U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.72"	2.36"	1.18"	30K



Notes:

- *Wrench included with holder except for AT-type holders.
- *AT denotes collet is drawn directly from the rear of the holder by a bolt.



Wrench-THEX5
(for AT-Type Chucks)



Wrench-ALLEN6
(for AA-Type Chucks)

CAT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
CAT50-MMC8C-105U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.14"	1.30"	0.79"	20K
CAT50-MMC8C-135U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	20K
CAT50-MMC8C-165U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	6.50"	1.57"	0.79"	20K
CAT50-MMC12C-135U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.31"	2.36"	1.18"	20K
CAT50-MMC12C-165U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	6.50"	2.76"	1.18"	20K



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BT MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



T.I.R.
<.00012" at 4xD



Speed
Up to 30,000 rpm



Coolant-Thru
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

BT30

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT30-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	30K
BT30-MMC8C-65-AT*	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	2.56"	1.18"	0.79"	30K
BT30-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	30K
BT30-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	30K

Notes:

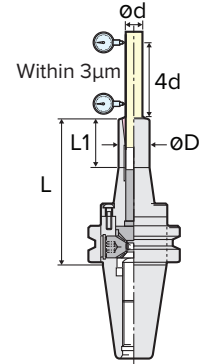
- *Wrench included with holder except for AT-type holders.
- *AT denotes collet is drawn directly from the rear of the holder by a draw bolt.



Wrench-THEx5
(for AT-Type Chucks)



Wrench-ALLEN6
(for AA-Type Chucks)



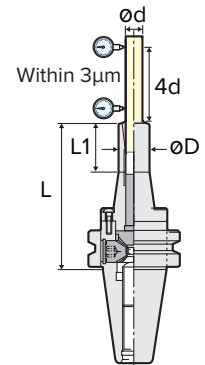
BT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT40-MMC4-90-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.26"	0.59"	30K
BT40-MMC8C-90-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
BT40-MMC8C-120-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
BT40-MMC8C-150-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.90"	1.57"	0.79"	30K
BT40-MMC12C-90-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K
BT40-MMC12C-120-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.72"	2.36"	1.18"	30K
BT40-MMC12C-150-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.90"	2.76"	1.18"	30K

Note: Wrench included with holder.



Wrench-ALLEN6
(for AA-Type Chucks)



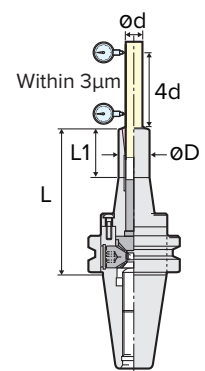
BT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT50-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	20K
BT50-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	20K
BT50-MMC8C-135-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	20K
BT50-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	20K
BT50-MMC12C-135-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.31"	2.36"	1.18"	20K

Note: Wrench included with holder.



Wrench-ALLEN6
(for AA-Type Chucks)



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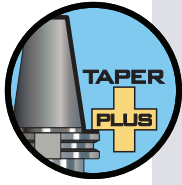


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MMC COLLET CHUCKS

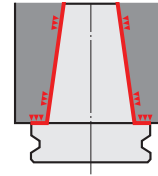


TAPER PLUS CAT & BT MMC COLLET CHUCKS



Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone

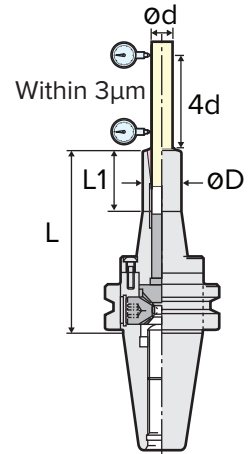


Taper Plus - BT30

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NBT30-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	30K
NBT30-MMC8C-65-AT*	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	2.56"	1.18"	0.79"	30K
NBT30-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	30K
NBT30-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	30K

Notes:

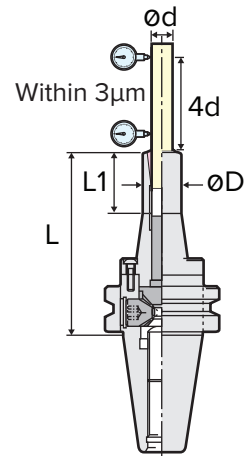
- *Wrench included with holder except for AT-type holders.
- *AT denotes collet is drawn directly from the rear of the holder by a draw bolt.



Taper Plus - BT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NBT40-MMC8C-90-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
NBT40-MMC8C-120-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
NBT40-MMC12C-90-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K

Note: Wrench included with holder.



Taper Plus - CAT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NCAT40-MMC4-90U-AA-IDU	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.18"	0.59"	30K
NCAT40-MMC8C-90U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
NCAT40-MMC8C-120U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
NCAT40-MMC8C-150U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.90"	1.57"	0.79"	30K
NCAT40-MMC12C-90U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K

Note: Wrench included with holder.

HSK MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



T.I.R.
<.00012" at 4xD



Speed
Up to 30,000 rpm



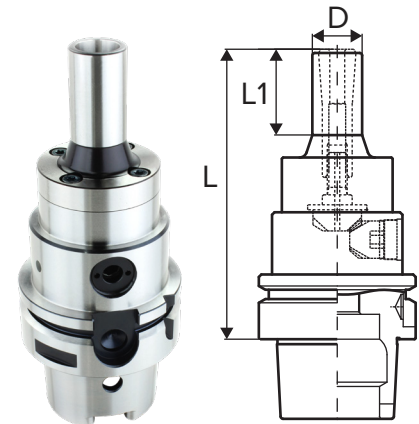
Coolant-Thru
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

HSK63A/100A

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
HSK63A-MMC8C-107-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.21"	1.42"	0.79"	30K
HSK63A-MMC8C-115-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.53"	1.30"	0.79"	30K
HSK63A-MMC12C-110-AT	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.33"	1.38"	1.18"	30K
HSK63A-MMC12C-117-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.61"	1.28"	1.18"	30K
HSK63A-MMC12C-177-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	6.97"	2.76"	1.18"	30K
HSK100A-MMC8C-117-AT	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.61"	1.42"	0.79"	30K
HSK100A-MMC8C-130-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.12"	1.30"	0.79"	30K
HSK100A-MMC8C-145-AT	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	5.71"	2.52"	0.79"	30K
HSK100A-MMC12C-130-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.12"	1.38"	1.18"	20K



Notes:

- *Wrench included with holder except for AT-type holders.
- *AT denotes collet is drawn directly from the rear of the holder by a draw bolt.
- Coolant Tube and Wrench are sold separately (HSK63-TUBE/HSK63-WRENCH).



Wrench-THX5
(for AT-Type Chucks)



Wrench-ALLEN6
(for AA-Type Chucks)

Coolant Tube Wrench For HSK Holders

Part Number	Description
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube



Note: Coolant tube wrenches are needed to remove or install coolant tubes in HSK toolholders.

Coolant Tube For HSK Holders

Part Number	Description
HSK63-TUBE	Coolant Tube for HSK63 Holders
HSK100-TUBE	Coolant Tube for HSK100 Holders



MMC COLLET CHUCKS



POLYGONAL & STRAIGHT SHANK MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



T.I.R.
 <.00012" at 4xD



Speed
 Up to 30,000 rpm



Coolant-Thru
 Thru-tool coolant

MILLING



REAMING



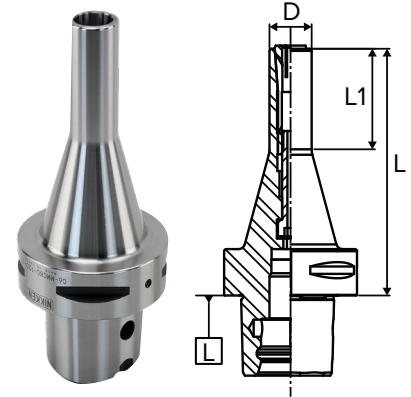
DRILLING



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

C6

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
C6-MMC8C-120-AT	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.72"	1.93"	0.79"	30K



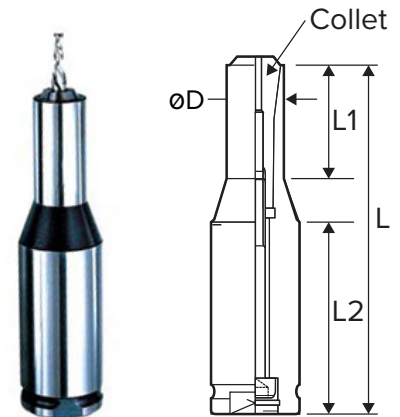
STRAIGHT SHANK

Part Number	Collet Series	Collet Range	Wrench	L	L1	L2	D
K1.1/4-MMC8C-122	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.80"	1.58"	2.64"	0.79"
K1.1/4-MMC8C-160	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	6.30"	1.58"	2.64"	0.79"
K3/4-MMC8C-100	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.94"	1.58"	2.62"	0.79"

Note: Wrench included with holder.



Wrench-ALLEN6
 (for AA-Type Chucks)



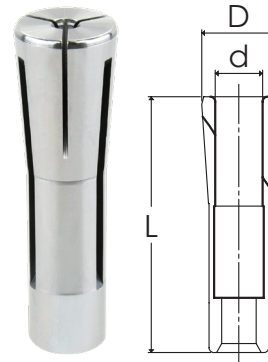
MMC COLLETS

MMC/MPK4 Collets

Part Number	Collet Series	Size
MPK4-1/16*	MPK4	1/16"
MPK4-3/32*	MPK4	3/32"
MPK4-1/8*	MPK4	1/8"
MPK4-1*	MPK4	1.0mm
MPK4-1.5*	MPK4	1.5mm
MPK4-2*	MPK4	2.0mm
MPK4-2.5*	MPK4	2.5mm
MPK4-3*	MPK4	3.0mm
MPK4-3.5*	MPK4	3.5mm
MPK4-4*	MPK4	4.0mm

Notes:

- MMC collets have minimal collapsibility. Highest accuracy and rigidity can be achieved when using cutting tools as close to nominal value as possible.
- *Available in sealed and jet slotted.



MPK4

D:0.394" (10mm)
d:1/16 - 3/32" (1 - 4mm)
L:1.260" (32mm)

PMK8

D:0.591" (15mm)
d:1/8 - 3/8" (2 - 8mm)
L:2.028" (51.5mm)

PMK12

D:0.827" (21mm)
d:3/16 - 1/2" (4 - 12mm)
L:2.205" (56mm)

MMC COLLET CHUCKS

MMC/PMK Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
PMK4-1	PMK4	1.0mm	PMK8-2.4	PMK8	2.4mm
PMK4-1.2	PMK4	1.2mm	PMK8-2.6	PMK8	2.6mm
PMK4-1.4	PMK4	1.4mm	PMK8-3.175	PMK8	3.175mm
PMK4-1.6	PMK4	1.6mm	PMK8-3.2	PMK8	3.2mm
PMK4-1.8	PMK4	1.8mm	PMK8-3.6	PMK8	3.6mm
PMK4-2	PMK4	2.0mm	PMK8-4	PMK8	4.0mm
PMK4-2.2	PMK4	2.2mm	PMK8-4.6	PMK8	4.6mm
PMK4-2.4	PMK4	2.4mm	PMK8-5	PMK8	5.0mm
PMK4-2.6	PMK4	2.6mm	PMK8-5.6	PMK8	5.6mm
PMK4-2.8	PMK4	2.8mm	PMK8-6	PMK8	6.0mm
PMK4-3	PMK4	3.0mm	PMK8-6.4	PMK8	6.4mm
PMK4-3.2	PMK4	3.2mm	PMK8-6.6	PMK8	6.6mm
			PMK8-7	PMK8	7.0mm
			PMK8-7.6	PMK8	7.6mm
			PMK8-7.8	PMK8	7.8mm
			PMK8-8	PMK8	8.0mm
			PMK12-4	PMK12	4.0mm
			PMK12-6	PMK12	6.0mm
			PMK12-10	PMK12	10.0mm
			PMK12-12	PMK12	12.0mm

Features

- Coolant Collets are mechanically sealed.
- No additional accessories are required to make these collets coolant-thru the tool capable.
- 1000 psi high-pressure coolant capable.



VMK: Coolant Sealed Collet
VMK-JB: Jet Slotted Collet
MPK/PMK: Standard Collet



VMK COLLETS

Coolant Sealed Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
VMK8-1/8	VMK8	1/8"	VMK12-3/16	VMK12	3/16"
VMK8-3/16	VMK8	3/16"	VMK12-1/4	VMK12	1/4"
VMK8-1/4	VMK8	1/4"	VMK12-5/16	VMK12	5/16"
VMK8-5/16	VMK8	5/16"	VMK12-3/8	VMK12	3/8"
VMK8-3/8	VMK8	3/8"	VMK12-7/16	VMK12	7/16"
VMK8-2	VMK8	2.0mm	VMK12-1/2	VMK12	1/2"
VMK8-3	VMK8	3.0mm	VMK12-4	VMK12	4.0mm
VMK8-4	VMK8	4.0mm	VMK12-5	VMK12	5.0mm
VMK8-5	VMK8	5.0mm	VMK12-6	VMK12	6.0mm
VMK8-6	VMK8	6.0mm	VMK12-8	VMK12	8.0mm
VMK8-7	VMK8	7.0mm	VMK12-10	VMK12	10mm
VMK8-8	VMK8	8.0mm	VMK12-12	VMK12	12mm
VMK8-10	VMK8	10.0mm			

Jet Slotted Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
VMK8-1/8JB	VMK8	1/8"	VMK12-3/16J	VMK12	3/16"
VMK8-3/16J	VMK8	3/16"	VMK12-1/4J	VMK12	1/4"
VMK8-1/4J	VMK8	1/4"	VMK12-5/16J	VMK12	5/16"
VMK8-5/16J	VMK8	5/16"	VMK12-3/8J	VMK12	3/8"
VMK8-3/8J	VMK8	3/8"	VMK12-7/16J	VMK12	7/16"
VMK8-2J	VMK8	2.0mm	VMK12-1/2J	VMK12	1/2"
VMK8-2JB	VMK8	2.0mm	VMK12-4J	VMK12	4.0mm
VMK8-3JB	VMK8	3.0mm	VMK12-5J	VMK12	5.0mm
VMK8-4J	VMK8	4.0mm	VMK12-6J	VMK12	6.0mm
VMK8-5J	VMK8	5.0mm	VMK12-8J	VMK12	8.0mm
VMK8-6J	VMK8	6.0mm	VMK12-10J	VMK12	10.0mm
VMK8-8J	VMK8	8.0mm	VMK12-12J	VMK12	12.0mm
VMK8-10J	VMK8	10.0mm			

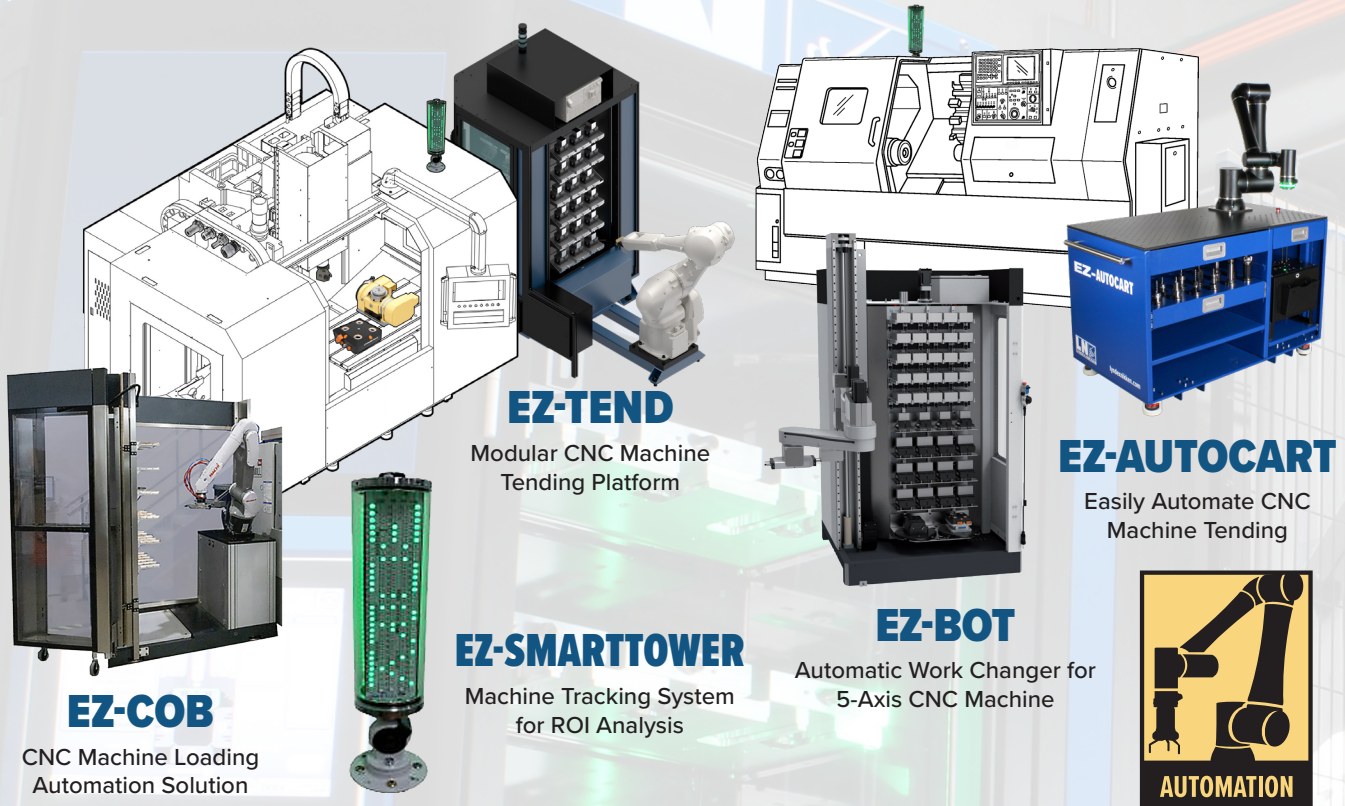
Features

- Collet slots allow coolant to be supplied directly to the periphery of the cutting tool.
- During pocket milling operations, coolant along the periphery of the cutting tool will also help flush out chips.



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