

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 and reliability 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



Easy-to-use draw-in collet clamping mechanism

Clamp/unclamp with just a wrench!

"A" type Mini-Mini Collet Chuck



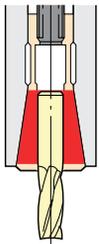
Standard type Mini-Mini Collet Chuck



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.

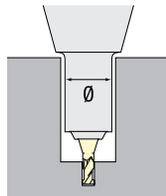
Slim and compact nose with strong gripping at nose



MMC 4: \varnothing 15mm (0.591")

MMC 8: \varnothing 20mm (0.787")

MMC 12: \varnothing 30mm (1.181")



CAT MMC Collet Chucks



T.I.R.: <.00012" or better



Speed: up to 30,000 RPM



Set-up: quick and easy to operate



Coolant-Thru: thru-tool coolant



Milling



Reaming



Drilling



Tapping

- 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.

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

CAT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D
CAT40-MMC4-90U	MPK4	1/16 - 3/32" (1 - 4mm)	Wrench-ALLEN6	3.543"	1.181"	0.591"
CAT40-MMC8C-85U-A*	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-THEX5	3.287"	1.476"	0.787"
CAT40-MMC8C-90U	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	3.543"	1.299"	0.787"
CAT40-MMC8C-120U-A*	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-THEX5	4.724"	1.574"	0.787"
CAT40-MMC8C-120U	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.724"	1.574"	0.787"
CAT40-MMC12C-90U	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	3.543"	1.378"	1.181"
CAT40-MMC12C-120U	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.724"	2.362"	1.181"

Notes:

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



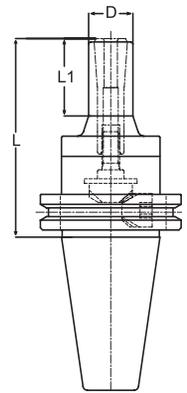
Wrench-THEX5



Wrench-ALLEN6



Available in **TAPER PLUS**
Dual-taper and flange contact



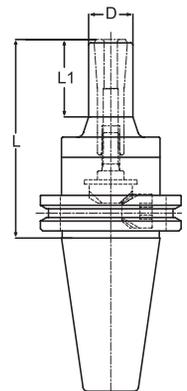
CAT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D
CAT50-MMC4-105U	MPK4	1/16 - 3/32" (1 - 4mm)	Wrench-ALLEN6	4.134"	1.181"	0.591"
CAT50-MMC8C-105U	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.134"	1.299"	0.787"
CAT50-MMC8C-135U	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	5.315"	1.574"	0.787"
CAT50-MMC8C-165U	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	6.496"	1.574"	0.787"
CAT50-MMC12C-105U	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.134"	1.378"	1.181"
CAT50-MMC12C-135U	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	5.315"	2.362"	1.181"
CAT50-MMC12C-165U	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	6.496"	2.756"	1.181"

Note: Wrench included with holder.



Wrench-ALLEN6



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" or better



Speed: up to 30,000 RPM



Set-up: quick and easy to operate



Coolant-Thru: thru-tool coolant



Milling



Reaming



Drilling



Tapping

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
BT30-MMC4-105	MPK4	1/16 - 3/32" (1 - 4mm)	Wrench-ALLEN6	4.134"	1.181"	0.591"
BT30-MMC8C-75-A*	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-THEX5	2.893"	1.476"	0.787"
BT30-MMC12-105	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.134"	1.378"	1.181"

Notes:

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



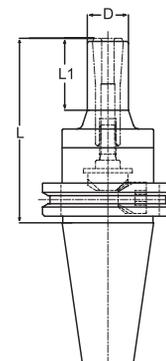
Wrench-THEX5



Wrench-ALLEN6



Available in
TAPER PLUS
Dual-taper and flange contact



BT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D
BT40-MMC4-90	MPK4	1/16 - 3/32" (1 - 4mm)	Wrench-ALLEN6	3.543"	1.181"	0.591"
BT40-MMC8C-90	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	3.543"	1.417"	0.787"
BT40-MMC8C-120	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.724"	1.693"	0.787"
BT40-MMC12C-90	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	3.543"	1.378"	1.181"
BT40-MMC12C-120	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.724"	2.362"	1.181"

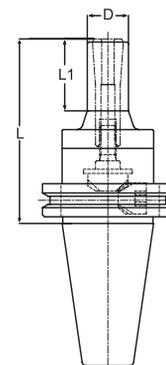
Note: Wrench included with holder.



Wrench-ALLEN6



Available in
TAPER PLUS
Dual-taper and flange contact



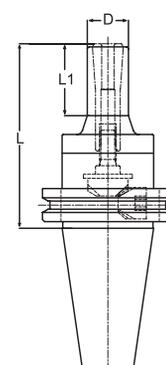
BT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D
BT50-MMC4-105	MPK4	1/16 - 3/32" (1 - 4mm)	Wrench-ALLEN6	4.134"	1.181"	0.591"
BT50-MMC8C-105	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.134"	1.417"	0.787"
BT50-MMC8C-135	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	5.315"	1.693"	0.787"
BT50-MMC8C-165	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	6.496"	1.693"	0.787"
BT50-MMC12C-105	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.134"	1.378"	1.181"
BT50-MMC12C-135	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	5.315"	2.362"	1.181"
BT50-MMC12C-165	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	6.496"	2.756"	1.181"

Note: Wrench included with holder.



Wrench-ALLEN6



MPK & VMK Collets
Page 82



Tool Jaw
Page 234



Retention Knobs
Page 229

HSK MMC Collet Chucks



T.I.R.: <.00012" or better



Speed: up to 30,000 RPM



Set-up: quick and easy to operate



Coolant-Thru: thru-tool coolant



Milling



Reaming



Drilling



Tapping

- 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.

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
HSK63A-MMC8C-115	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.528"	1.299"	0.787"
HSK63A-MMC12C-110-A*	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-THEX6	4.331"	1.417"	1.181"
HSK63A-MMC12C-117	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	4.606"	1.417"	1.181"
HSK100A-MMC8C-130	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	5.118"	1.299"	0.787"
HSK100A-MMC12C-130	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	5.118"	1.417"	1.181"

Notes:

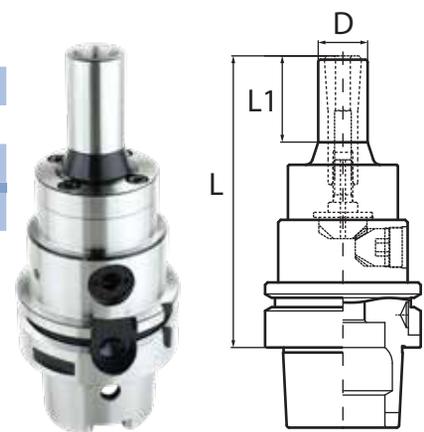
- *Wrench included with holder except for A-type holders.
- *"A" denotes collet is drawn directly from the rear of the holder by a bolt.
- Coolant Tube and Wrench are sold separately (HSK63-TUBE/HSK63-WRENCH).



Wrench-THEX5



Wrench-ALLEN6



HSK63F

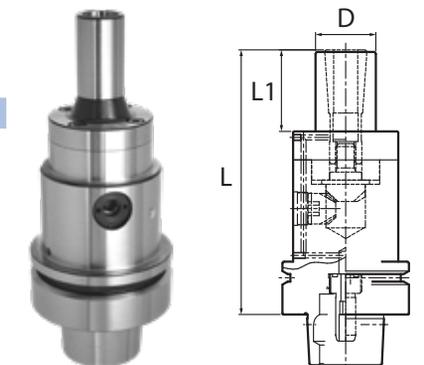
Part Number	Collet Series	Collet Range	Wrench	L	L1	D
HSK63F-MMC8C-127	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	5.000"	1.299"	0.787"
HSK63F-MMC12C-129	VMK12	3/16 - 1/2" (4 - 12mm)	Wrench-ALLEN6	5.078"	1.417"	1.181"

Notes:

- Wrench included with holder.
- Coolant tube and wrench are sold separately (HSK63-TUBE/HSK63-WRENCH).



Wrench-ALLEN6



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



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" or better



Speed: up to 30,000 RPM



Set-up: quick and easy to operate



Coolant-Thru: thru-tool coolant



Milling



Reaming



Drilling



Tapping

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

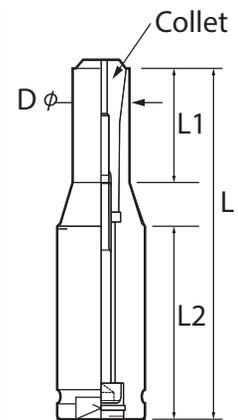
STRAIGHT SHANK

Part Number	Collet Series	Collet Range	Wrench	L	L1	L2	D
K3/4-MMC8C-100	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	3.937"	0.787"	3.149"	0.787"
K1.1/4-MMC8C-122	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	4.803"	1.574"	2.637"	0.787"
K1.1/4-MMC8C-160	VMK8	1/8 - 3/8" (2 - 8mm)	Wrench-ALLEN6	6.299"	1.574"	2.637"	0.787"

Note: Wrench included with holder.



Wrench-ALLEN6

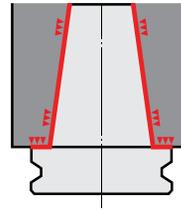


Taper Plus CAT & BT MMC Collet Chucks

Taper Plus Advantages

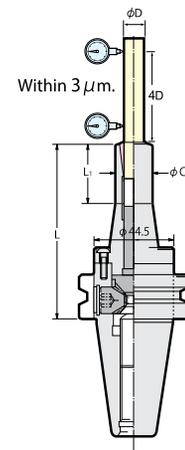


- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



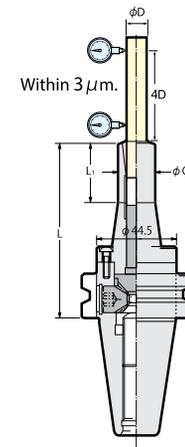
Taper Plus - CAT40

Part Number	Collet Series	Collet Range	L	L1	C
NCAT40-MMC8C-90	VMK8	1/8 - 3/8" (2 - 8mm)	3.543"	1.299"	0.787"
NCAT40-MMC12C-90	VMK12	3/16 - 1/2" (4 - 12mm)	3.543"	1.378"	1.181"



Taper Plus - BT30

Part Number	Collet Series	Collet Range	L	L1	C
NBT30-MMC8C-105	VMK8	1/8 - 3/8" (2 - 8mm)	4.134"	1.417"	0.787"
NBT30-MMC12C-105	VMK12	3/16 - 1/2" (4 - 12mm)	4.134"	1.378"	1.181"



Taper Plus - BT40

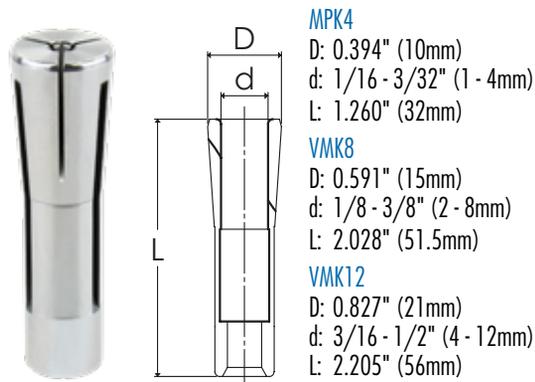
Part Number	Collet Series	Collet Range	L	L1	C
NBT40-MMC8C-90	VMK8	1/8 - 3/8" (2 - 8mm)	3.543"	1.417"	0.787"
NBT40-MMC12C-90	VMK12	3/16 - 1/2" (4 - 12mm)	3.543"	1.378"	1.181"

MMC Collets

Coolant Collets

Part Number	Collet Series	Size
MPK4-1/16	MPK4	1/16"
MPK4-3/32	MPK4	3/32"
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

Note: MMC collets have minimal collapsibility. Highest accuracy and rigidity can be achieved when using cutting tools as close to nominal value as possible.



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
VMK8-8	VMK8	8.0mm	VMK12-10	VMK12	10.0mm
VMK8-10	VMK8	10.0mm	VMK12-12	VMK12	12.0mm

Features

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



Slotted Collets

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

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.

