



## Shell Mill & Face Mill Holder Features

Our Shell Mill Holders are available in a wide variety of tapers and sizes, including CAT, BT, HSK, and R8. Both metric and inch sizes are available, accommodating face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm).

Taper ground to AT3 or better to ensure 80% taper contact

h6 precision ground pilot for concentric and repeatable mounting of shell mill

Surface ground to maintain .0002" perpendicularity to centerline ensuring flat engagement of shell mill



**Shell Mill Holder**

Nickel Chrome Molybdenum Alloy body

Keys included as standard for quick set up

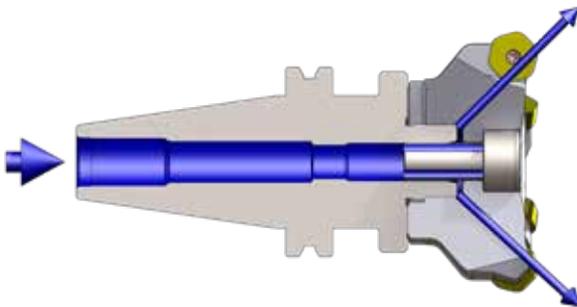
Heat-treated carbon steel nut prevents wear and increases clamping pressure



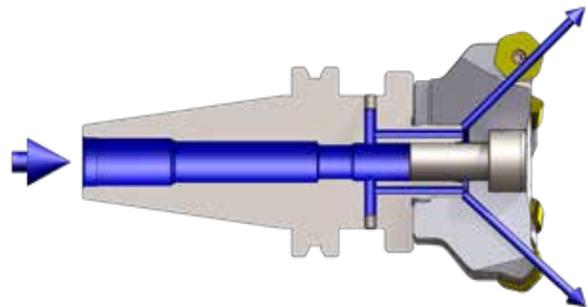
**Face Mill Holder**

## Coolant-Thru Applications

### For Coolant-Thru Shell Mill



**A.** With coolant slotted bolt (grooves along the bolt): coolant applied through body of the shell mill.



**B.** Modified Shell Mill holder to supply coolant through the sides. Please contact us for more information.

## CAT Shell Mill Holders



**T.I.R.:** <.00015" run out at pilot



Milling



**Speed:** up to 30,000 rpm



**Set-up:** quick and easy



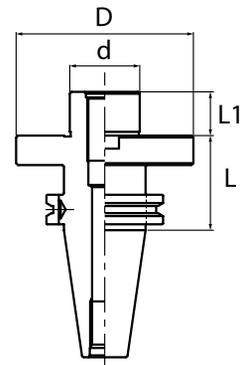
**Coolant-Thru:** thru-pilot (optional)

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

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper
- Available in high-speed balanceable versions

### CAT40 - Inch

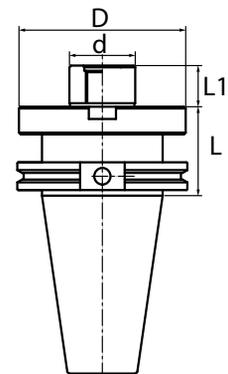
Part Number	d	L	D	L1	Key Size	Arbor Thread
C4001-0500-1.75	1/2"	1.75"	1.378"	0.57"	1/4"	1/4"-28
C4001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
C4011-0750-4.00	3/4"	4.00"	1.929"	0.67"	5/16"	3/8"-24
C4001-1000-1.75	1"	1.75"	2.382"	0.67"	3/8"	1/2"-20
C4011-1000-4.00	1"	4.00"	2.382"	0.67"	3/8"	1/2"-20
C4001-1250-2.00	1-1/4"	2.00"	2.882"	0.67"	1/2"	5/8"-18
C4011-1250-4.00	1-1/4"	4.00"	2.882"	0.67"	1/2"	5/8"-18
C4001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-16
C4011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16



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

### CAT50 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
C5001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
C5011-0750-4.00	3/4"	4.00"	1.929"	0.67"	5/16"	3/8"-24
C5021-0750-6.00	3/4"	6.00"	1.929"	0.67"	5/16"	3/8"-24
C5031-0750-8.00	3/4"	8.00"	1.929"	0.67"	5/16"	3/8"-24
C5001-1000-1.75	1"	1.75"	2.382"	0.69"	3/8"	1/2"-20
C5011-1000-4.00	1"	4.00"	2.382"	0.69"	3/8"	1/2"-20
C5021-1000-6.00	1"	6.00"	2.382"	0.69"	3/8"	1/2"-20
C5031-1000-8.00	1"	8.00"	2.382"	0.69"	3/8"	1/2"-20
C5001-1250-1.75	1-1/4"	1.75"	2.882"	0.69"	1/2"	5/8"-18
C5011-1250-4.00	1-1/4"	4.00"	2.882"	0.69"	1/2"	5/8"-18
C5021-1250-6.00	1-1/4"	6.00"	2.882"	0.69"	1/2"	5/8"-18
C5031-1250-8.00	1-1/4"	8.00"	2.882"	0.69"	1/2"	5/8"-18
C5001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-16
C5011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16
C5021-1500-6.00	1-1/2"	6.00"	3.799"	0.93"	5/8"	3/4"-16
C5031-1500-8.00	1-1/2"	8.00"	3.799"	0.93"	5/8"	3/4"-16
C5001-2000-2.00	2"	2.00"	4.382"	0.93"	3/4"	1"-14
C5011-2000-4.00	2"	4.00"	4.382"	0.93"	3/4"	1"-14



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

All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



Replacement Keys  
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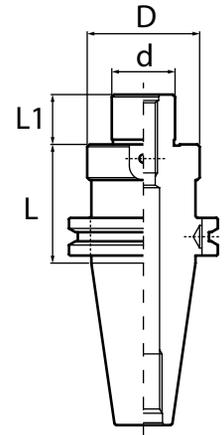


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**CAT Shell/Face Mill Holders**

**CAT40 - Metric**

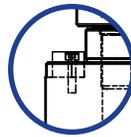
Part Number	d	L	D	L1	Key Size	Arbor Thread
C4001-22-50*	22mm	50mm	40mm	19mm	10mm	M10
C4001-27-50	27mm	50mm	48mm	21mm	12mm	M12
C4001-32-50	32mm	50mm	58mm	24mm	14mm	M16
C4001-40-60	40mm	60mm	67mm	27mm	16mm	M20



**CAT50 - Metric**

Part Number	d	L	D	L1	Key Size	Arbor Thread
C5001-22-60*	22mm	60mm	40mm	19mm	10mm	M10
C5001-27-60	27mm	60mm	48mm	21mm	12mm	M12
C5001-32-60	32mm	60mm	58mm	24mm	14mm	M16
C5001-40-60	40mm	60mm	67mm	27mm	16mm	M20

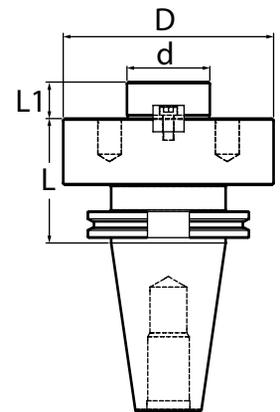
Note: \*Drive Keys for this part number are positioned horizontally.



**CAT50 - Inch Face Mill Holders**

Part Number	d	L	D	L1	Key Size
C50F1-2500-2.95	2-1/2"	2.95"	5.00"	1.18"	1.00"

Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



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## BT Shell Mill Holders



**T.I.R.:** <.00015" run out at pilot



Milling



**Speed:** up to 30,000 rpm



**Set-up:** quick and easy



**Coolant-Thru:** thru-pilot (optional)

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

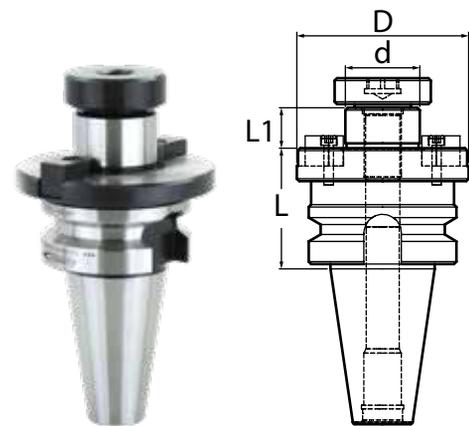
- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper
- Available in high-speed balanceable versions

### BT30 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
B3001-0500-1.19	1/2"	1.19"	1.378"	0.57"	1/4"	1/4"-28
B3001-0750-1.19	3/4"	1.19"	2.000"	0.67"	5/16"	3/8"-24
B3001-1000-1.19	1"	1.19"	2.382"	0.67"	3/8"	1/2"-20



Available in **TAPER PLUS** <sup>+</sup>Dual-taper and flange contact



### BT40 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
B4001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
B4001-1000-1.75	1"	1.75"	2.382"	0.67"	3/8"	1/2"-20
B4001-0500-1.75	1/2"	1.75"	1.378"	0.57"	1/4"	1/4"-28
B4001-1500-2.00	1-1/2"	2.00"	3.799"	0.92"	5/8"	3/4"-16

All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



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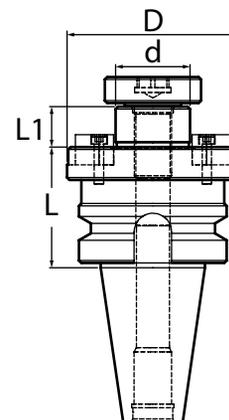


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**BT Shell/Face Mill Holders**

**BT50 - Inch**

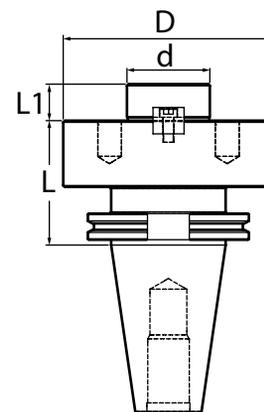
Part Number	d	L	D	L1	Key Size	Arbor Thread
B5001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
B5001-1000-1.75	1"	1.75"	2.382"	0.68"	3/8"	1/2"-20
B5011-1000-4.00	1"	4.00"	2.382"	0.68"	3/8"	1/2"-20
B5021-1000-6.00	1"	6.00"	2.382"	0.68"	3/8"	1/2"-20
B5001-1250-2.00	1-1/4"	2.00"	2.882"	0.68"	1/2"	5/8"-18
B5021-1500-6.00	1-1/2"	6.00"	3.799"	0.93"	5/8"	3/4"-16
B5001-2000-2.00	2"	2.00"	4.382"	0.93"	3/4"	1"-14



**BT50 - Inch Face Mill Holders**

Part Number	d	L	D	L1	Key Size
B50F1-2500-3.00	2-1/2"	3.00"	5.00"	1.18"	1"

Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



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## HSK Shell Mill Holders



**T.I.R.:** <.00015" run out at pilot



Milling



**Speed:** up to 30,000 rpm



**Set-up:** quick and easy



**Coolant-Thru:** thru-pilot (optional)

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

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

### HSK40A/63A

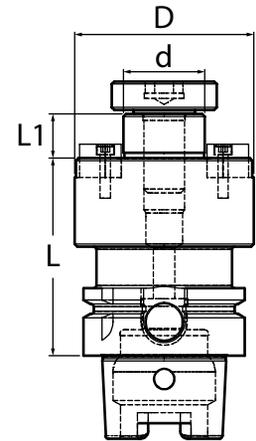
Part Number	d	L	D	L1	Key Size	Arbor Thread
HSK40A-SM0750-60	3/4"	2.36"	1.69"	0.67"	5/16"	3/8"-24
HSK40A-SM1000-60	1"	2.36"	2.17"	0.67"	3/8"	1/2"-20
HSK63A-SM0750-3.00	3/4"	3.00"	1.693"	0.669"	5/16"	3/8"-24
HSK63A-SM0750-5.00	3/4"	5.00"	1.693"	0.669"	5/16"	3/8"-24
HSK63A-SM1000-3.00	1"	3.00"	2.165"	0.669"	3/8"	1/2"-20
HSK63A-SM1000-5.00	1"	5.00"	2.165"	0.669"	3/8"	1/2"-20
HSK63A-SM1250-3.00	1-1/4"	3.00"	2.756"	0.669"	1/2"	5/8"-18
HSK63A-SM1250-5.00	1-1/4"	5.00"	2.756"	0.669"	1/2"	5/8"-18

Note: Coolant tube and coolant tube wrench are not included. See page 147 for more details.

### HSK100A

Part Number	d	L	D	L1	Key Size	Arbor Thread
HSK100A-SM0750-4.00	3/4"	4.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM0750-6.00	3/4"	6.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM1000-4.00	1"	4.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1000-6.00	1"	6.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1250-4.00	1-1/4"	4.00"	2.756"	0.669"	1/2"	5/8"-18
HSK100A-SM1250-6.00	1-1/4"	6.00"	2.756"	0.669"	1/2"	5/8"-18
HSK100A-SM1500-4.00	1-1/2"	4.00"	3.504"	0.902"	5/8"	3/4"-16
HSK100A-SM1500-6.00	1-1/2"	6.00"	3.504"	0.902"	5/8"	3/4"-16
HSK100A-SM2000-4.00	2"	4.00"	4.488"	0.902"	3/4"	1"-14

Note: Coolant tube and coolant tube wrench are not included. See page 147 for more details.



All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



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**NMTB Shell/Face Mill Holders**



**T.I.R.:** <.00015" run out at pilot



Milling



**Set-up:** quick and easy



**Coolant-Thru:** thru-pilot (optional)

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

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

**NMTB30/40/50**

Part Number	Taper	d	L	D	L1	Key Size	Arbor Thread
N3001-0750-1.31	NMTB30	3/4"	1.31"	1.929"	0.67"	5/16"	3/8"-24
N3001-1000-1.31	NMTB30	1"	1.31"	2.382"	0.67"	3/8"	1/2"-20
N3001-1250-1.44	NMTB30	1-1/4"	1.44"	2.882"	0.67"	1/2"	5/8"-18
N4001-0750-0.87	NMTB40	3/4"	0.87"	1.937"	0.67"	5/16"	3/8"-24
N4001-1000-1.31	NMTB40	1"	1.31"	2.382"	0.67"	3/8"	1/2"-20
N4001-1500-1.63	NMTB40	1-1/2"	1.63"	3.500"	0.93"	5/8"	3/4"-16
N5001-1500-1.88	NMTB50	1-1/2"	1.88"	3.500"	0.93"	5/8"	3/4"-16



Note: NMTB shanks are suitable for use with Erickson Quick Change spindles.

**NMTB50 - Face Mill Holders**

Part Number	Taper	d	L	D	L1	Key Size
N50F1-2500-3.00	NMTB50	2-1/2"	3.00"	5.00"	1.18"	1"

Note: NMTB shanks are suitable for use with Erickson Quick Change spindles. Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



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## R8 Shell Mill Holder



**T.I.R.:** <.00015" run out at pilot



Milling



**Set-up:** quick and easy



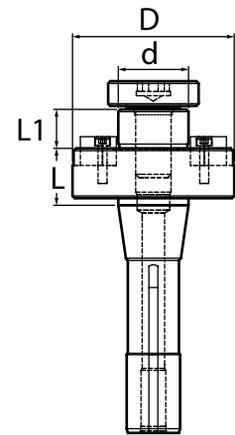
**Coolant-Thru:** thru-pilot (optional)

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

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 1.5" (38.1mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

### R8

Part Number	Taper	d	L	D	L1	Key Size	Arbor Thread
850-032-1.00	R8	1/2"	1.00"	1.38"	0.57"	1/4"	1/4"-28
850-048-1.00	R8	3/4"	1.00"	2.00"	0.69"	5/16"	3/8"-24
850-064-1.00	R8	1"	1.00"	2.38"	0.69"	3/8"	1/2"-20
850-080-1.00	R8	1-1/4"	1.00"	2.88"	0.69"	1/2"	5/8"-18
850-096-1.75	R8	1-1/2"	1.75"	3.50"	0.94"	5/8"	3/4"-16



All Shell Mill Holders are center thru-coolant capable. Arbor screws are not coolant+thru but can be modified to facilitate coolant capabilities. See shell mill manufacturer specifications to determine modification requirements.



### Lyndex-Nikken Offers Single and Dual Plane Balancing for Large Diameter or Long Tooling Assemblies

#### Benefits of Shell Mill Holder Balancing:

- Balanced assemblies can reduce spindle vibration—prolonging the life of your cutting tools and spindle.
- Increase the quality and consistency of machined surface finishes.
- Achieves greater machined surface flatness.
- Balancing service is only required once during initial set up. Assembly balance is maintained until shell mill/face mill is removed.



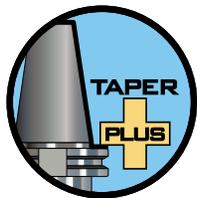
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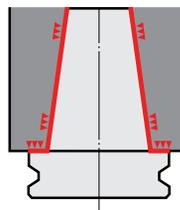
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**Taper Plus CAT/BT - Face/Shell Mill Holders**

**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**

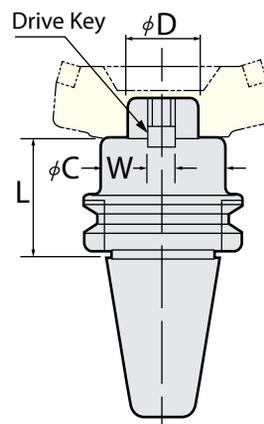
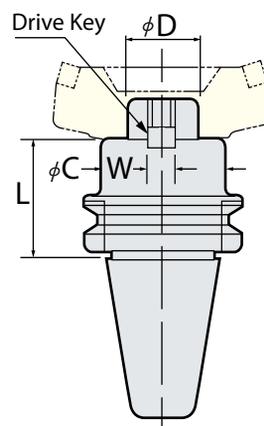
Part Number	L	C	D	Drive Key (W)
NC4001-0750-1.75	1.75"	1.929"	0.750"	0.3125"
NC4001-1000-1.75	1.75"	2.382"	1.000"	0.375"
NC4001-1250-2.00	2.00"	2.882"	1.250"	0.500"
NC4001-1500-2.00	2.00"	3.799"	1.500"	0.625"
NC4011-0750-4.00	4.00"	1.929"	0.750"	0.3125"
NC4011-1000-4.00	4.00"	2.382"	1.000"	0.375"
NC4011-1250-4.00	4.00"	2.882"	1.250"	0.500"

**Taper Plus - CAT50**

Part Number	L	C	D	Drive Key (W)
NC5001-0750-1.75	1.75"	1.929"	0.750"	0.3125"
NC5001-1000-1.75	1.75"	2.382"	1.000"	0.375"
NC5001-1250-1.75	1.75"	2.882"	1.250"	0.500"
NC5001-1500-2.00	2.00"	3.799"	1.500"	0.625"
NC5001-2000-2.00	2.00"	4.382"	2.000"	0.750"
NC5011-0750-4.00	4.00"	1.929"	0.750"	0.3125"
NC5011-1000-4.00	4.00"	2.382"	1.000"	0.375"
NC5011-1250-4.00	4.00"	2.882"	1.250"	0.500"
NC5011-1500-4.00	4.00"	3.799"	1.500"	0.625"
NC5021-0750-6.00	6.00"	1.929"	0.750"	0.3125"
NC5021-1000-6.00	6.00"	2.382"	1.000"	0.375"
NC5021-1250-6.00	6.00"	2.882"	1.250"	0.500"
NC5021-1500-6.00	6.00"	3.799"	1.500"	0.625"
NC5031-0750-8.00	8.00"	1.929"	0.750"	0.3125"
NC5031-1000-8.00	8.00"	2.382"	1.000"	0.375"
NC5031-1500-8.00	8.00"	3.799"	1.500"	0.625"
NC50F1-2500-2.95	2.95"	5.000"	2.500"	1.000"

**Taper Plus - BT30**

Part Number	L	C	D	Drive Key (W)
NB3001-0750-1.19	1.19"	1.929"	0.750"	0.3125"
NB3001-1000-1.19	1.19"	2.382"	1.000"	0.375"



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## Shell Mill Holder Accessories



### Replacement Keys

Part Number	Description	To Use with Holder Size
1/2-KEYSET	1/4" rotating pins (2 Pcs.)	1/2"
3/4-KEYSET	5/16" keys with screws (2 Pcs.)	3/4"
1-KEYSET	3/8" keys with screws (2 Pcs.)	1"
1-1/4-KEYSET	1/2" keys with screws (2 Pcs.)	1-1/4"
1-1/2-KEYSET	5/8" keys with screws (2 Pcs.)	1-1/2"
2-KEYSET	3/4" keys with screws (2 Pcs.)	2"
2-1/2-KEYSET	1" keys with screws (2 Pcs.)	2-1/2"
22-KEYSET	10mm keys with screws (2 Pcs.)	22mm
27-KEYSET	12mm keys with screws (2 Pcs.)	27mm
32-KEYSET	14mm keys with screws (2 Pcs.)	32mm
40-KEYSET	16mm keys with screws (2 Pcs.)	40mm



### Replacement Arbor Screws

Part Number	Head Diameter	Head Thickness	For the Following Shell/ Face Mill Sizes
A5/8-11	23.65mm (0.931")	15.7mm (0.618")	Face Mill Mounting Bolt
A1/4-28	17mm (0.669")	6mm (0.236")	1/2"
A1/4-28SL*	17mm (0.669")	6mm (0.236")	1/2"
A3/8-24	23.5mm (0.925")	8mm (0.315")	3/4"
A3/8-24SL*	23.5mm (0.925")	8mm (0.315")	3/4"
A1/2-20	31mm (1.220")	9.5mm (0.374")	1"
A1/2-20SL*	31mm (1.220")	9.5mm (0.374")	1"
A5/8-18	41mm (1.614")	11mm (0.433")	1-1/4"
A5/8-18SL*	41mm (1.614")	11mm (0.433")	1-1/4"
A3/4-16	49mm (1.929")	12.7mm (0.500")	1-1/2"
A3/4-16SL*	49mm (1.929")	12.7mm (0.500")	1-1/2"
A1-14	68mm (2.677")	18mm (0.709")	2"
A1-14SL*	68mm (2.677")	18mm (0.709")	2"
A10mm-P1.5	16mm (0.630")	10mm (0.394")	22.0mm
A12mm-P1.75	18mm (0.709")	12mm (0.472")	27.0mm
A16mm-P2	24mm (0.945")	16mm (0.630")	32.0mm
A20mm-P2.5	30mm (1.181")	20mm (0.787")	40.0mm



Note: \*"SL" denotes a Slotted Arbor Screw.

### Coolant Tube Wrench for HSK Holders

Part Number	Description
HSK40-WRENCH	Wrench for HSK40 Coolant Tube
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube

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



### Coolant Tube for HSK Holders

Part Number	Description
HSK40-TUBE	HSK40 Coolant Tube
HSK63-TUBE	HSK63 Coolant Tube
HSK100-TUBE	HSK100 Coolant Tube



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