



Current Promotion

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Featured Video

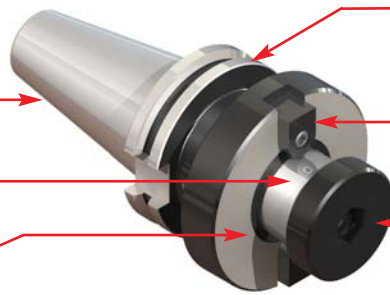
Shell Mill and Face Mill Holder Features

Our Shell Mill Holders are available from stock 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

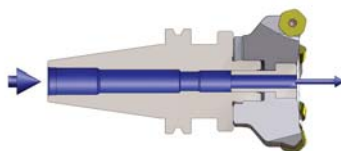
Heat-treated and coated carbon steel nut prevents wear and increases clamping pressure



Face Mill Holder

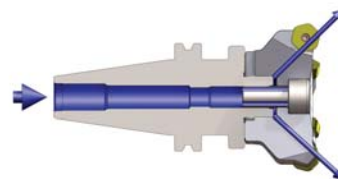
Coolant-Thru Applications

For Standard Shell Mill

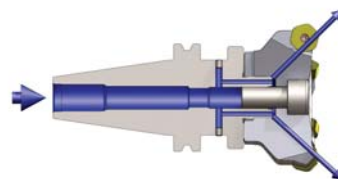


With coolant bolt (coolant hole through center): coolant applied from the nut face straight through, not through body of the shell mill.

For Coolant-Through 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

- 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

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



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



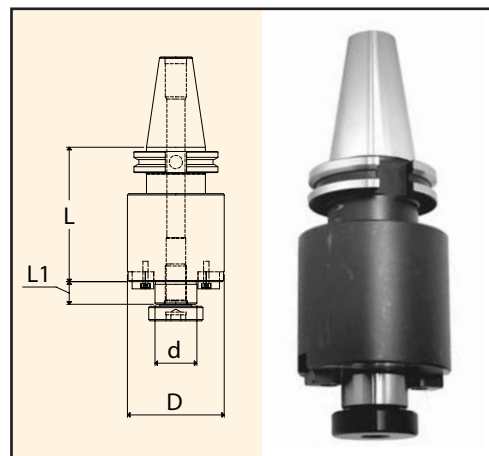
Set-up: quick and easy



Coolant-thru: thru-pilot (optional)

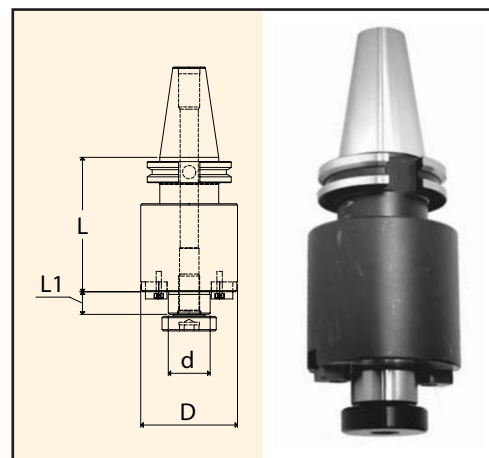
CAT40 - Inch

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



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"-1
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
C5021-2000-6.00	2"	6.00"	4.382"	0.93"	3/4"	1"-14



Accessories:



Replacement Keys
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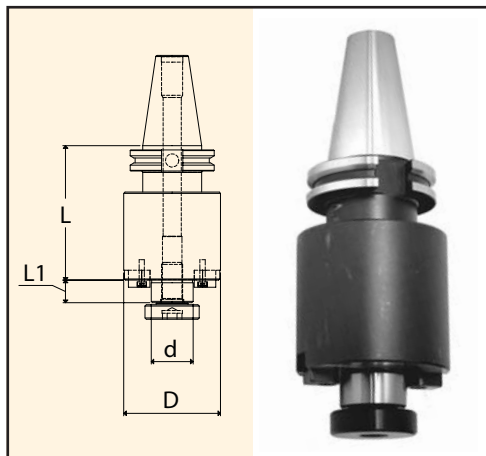
Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

CAT Shell 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



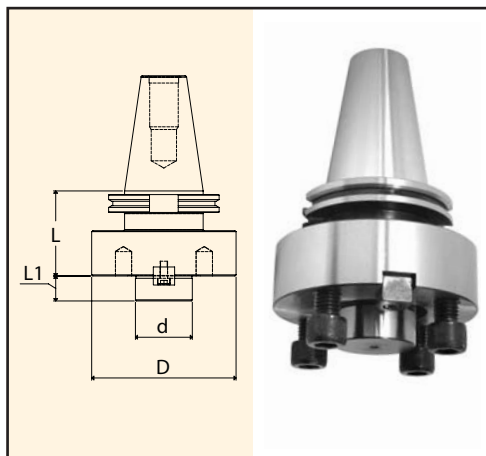
CAT50 - Metric

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

CAT50 Face Mill Holders

Part Number	d	L	D	L1	Key size
C50F1-2000-2.95	2"	2.95"	5.06"	0.86"	3/4"
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".



Accessories:



Replacement Keys
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Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

BT Shell Mill Holders

- 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



TIR: < .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.

BT30 - Inch

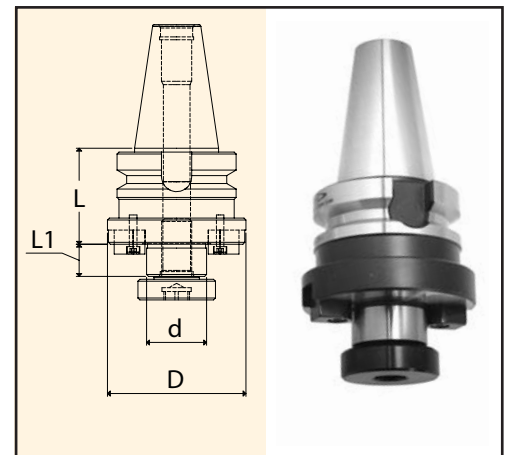
Part Number	d	L	D	L1	Key Size	Arbor Thread
B3001-0500-1.19	1/2"	1.19"	1.378"	0.57"	1/4"	1/4"-28
B3001-0750-1.19	3/4"	1.19"	2.929"	0.67"	5/16"	3/8"-24
B3001-1000-1.19	1"	1.19"	2.382"	0.67"	3/8"	1/2"-20

BT40 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
B4001-0500-1.75	1/2"	1.75"	1.378"	0.57"	1/4"	1/4"-28
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
B4001-1250-2.00	1-1/4"	2.00"	2.882"	0.67"	1/2"	5/8"-18
B4001-1500-2.00	1-1/2"	2.00"	3.799"	0.92"	5/8"	3/4"-16

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
B5011-1250-4.00	1-1/4"	4.00"	2.882"	0.68"	1/2"	5/8"-18
B5021-1250-6.00	1-1/4"	6.00"	2.882"	0.68"	1/2"	5/8"-18
B5001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-16
B5011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16
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
B5011-2000-4.00	2"	4.00"	4.382"	0.93"	3/4"	1"-14



Accessories:



Replacement Keys
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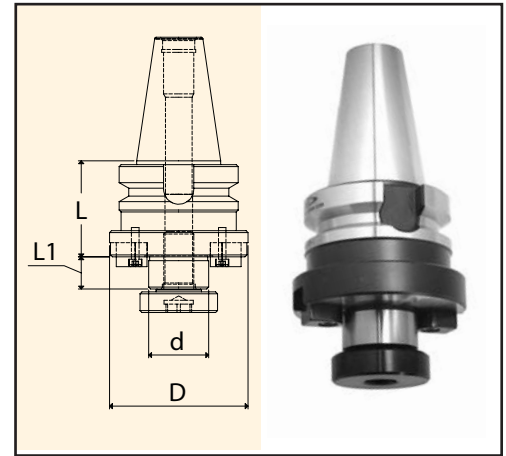
Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

BT Shell Mill Holders

BT40 - Metric

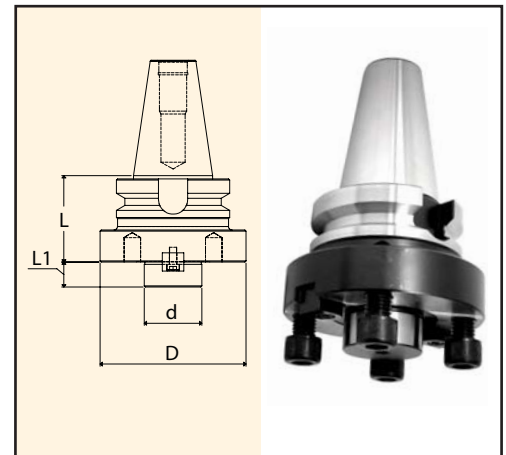
Part Number	d	L	D	L1	Key size	Arbor thread
B4001-22-50	22mm	50mm	40mm	19mm	10mm	M10
B4001-27-50	27mm	50mm	48mm	21mm	12mm	M12
B4001-32-50	32mm	50mm	58mm	24mm	14mm	M16
B4001-40-60	40mm	60mm	67mm	27mm	16mm	M20



BT50 Face Mill Holders

Part Number	d	L	D	L1	Key size
B50F1-2000-3.00	2"	3.00"	5.06"	0.86"	3/4"
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".



Accessories:



Replacement Keys
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Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

HSK Shell Mill Holders

- 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.



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



Set-up: quick and easy

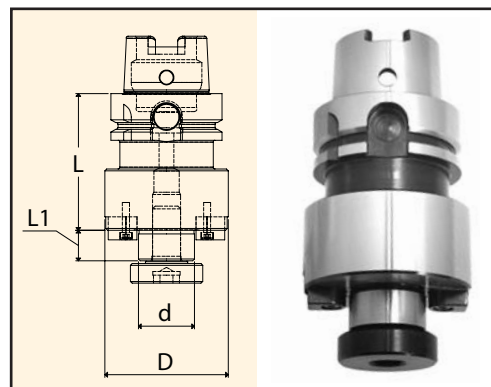


Coolant-thru: thru-pilot (optional)

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

Coolant tube and coolant tube wrench are not included. See page 83 for more details.



HSK100A

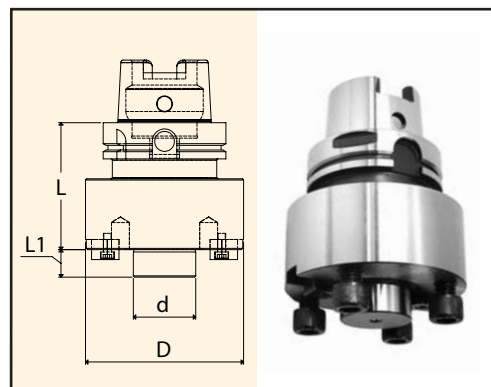
Part Number	d	L	D	L1	Key size	Arbor thread
HSK100A-SM0750-4.00	3/4"	4.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM0750-6.00	3/4"	6.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM1000-4.00	1"	4.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1000-6.00	1"	6.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1250-4.00	1-1/4"	4.00"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

Coolant tube and coolant tube wrench are not included. See page 83 for more details.

HSK100A Face Mill Holders

Part Number	d	L	D	L1	Key size
HSK100A-FM2000-4.00	2"	4.00"	5.062"	0.866"	3/4"
HSK100A-FM2000-6.00	2"	6.00"	5.062"	0.866"	3/4"
HSK100A-FM2500-4.00	2-1/2"	4.00"	5.062"	0.866"	1.00"
HSK100A-FM2500-6.00	2-1/2"	6.00"	5.062"	0.866"	1.00"

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



Accessories:



Replacement Keys
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Replacement Arbor Screws
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Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

NMTB Shell Mill Holders

- 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.



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



Set-up: quick and easy

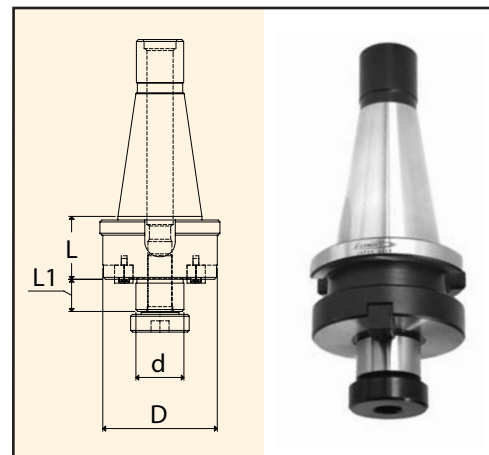


Coolant-thru: thru-pilot (optional)

NMTB30/40/50

Part Number	Taper	d	L	D	L1	Key size	Arbor thread
N3001-0500-1.25	NMTB30	1/2"	1.25"	1.378"	0.57"	1/4"	1/4"-28
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
N4001-0500-0.87	NMTB40	1/2"	0.87"	1.382"	0.57"	1/4"	1/4"-28
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
N4001-1250-1.50	NMTB40	1-1/4"	1.50"	2.882"	0.67"	1/2"	5/8"-18
N4001-1500-1.63	NMTB40	1-1/2"	1.63"	3.500"	0.93"	5/8"	3/4"-16
N5001-0750-1.25	NMTB50	3/4"	1.25"	1.929"	0.67"	5/16"	3/8"-24
N5001-1000-1.88	NMTB50	1"	1.88"	2.382"	0.67"	3/8"	1/2"-20
N5001-1250-1.88	NMTB50	1-1/4"	1.88"	2.882"	0.67"	1/2"	5/8"-18
N5001-1500-1.88	NMTB50	1-1/2"	1.88"	3.500"	0.93"	5/8"	3/4"-16
N5001-2000-1.88	NMTB50	2"	1.88"	4.382"	0.93"	3/4"	1"-14

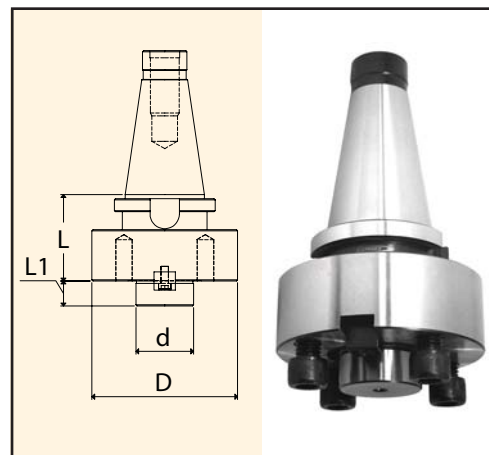
NMTB shanks are suitable for use with Erickson QC spindles.



NMTB Face Mill Holders

Part Number	Taper	d	L	D	L1	Key size
N50F1-2000-3.00	NMTB50	2"	3.00"	5.05"	0.87"	3/4"
N50F1-2500-3.00	NMTB50	2-1/2"	3.00"	5.00"	1.18"	1"

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



Accessories:



Replacement Keys
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Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

R8 Shell Mill Holders

- 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.



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



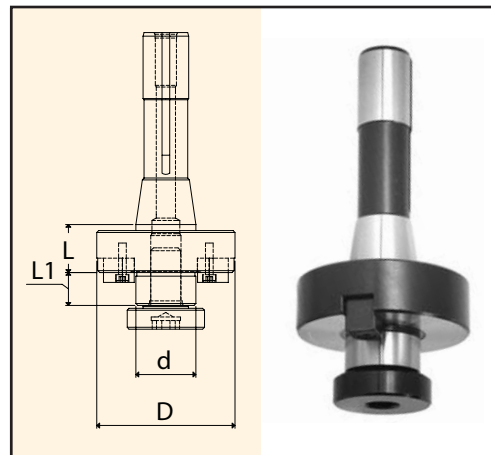
Set-up: quick and easy



Coolant-thru: thru-pilot (optional)

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



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

Shell Mill Holders

High-Speed Balanceable Shell Mill Holders

Balanceable Shell Mill Holders are available in CAT and BT taper styles. Part numbers are identical to standard Shell Mill Holders part numbers except that there is a “B” at the end. (Ex: C4001-0500-1.75**B**)

- 30 and 40 taper toolholders are prebalanced to G2.5 or better at 24,000 RPM
- 50 taper toolholders are prebalanced to G2.5 or better at 15,000 RPM
- Lyndex-Nikken uses a Patented Balancing Method which allows greater compensation necessary for extremely high rpm applications.
- hsBalance™ toolholders come with a printout of actual balance condition
- hsBalance™ toolholders need to be used with balance-qualified pull studs
- A balancing machine is required to balance or re-balance toolholders



CAT40 hsBalance™ Shell Mill Holder



BT40 hsBalance™ Shell Mill Holder

3-Lock Shell Mill Holders for Dual Contact Spindle

3-Lock Shell Mill Holders are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken’s revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



Replacement Keys
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Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

Accessories

Replacement Keys

Part Number	Description	to use with holder size
1/2-KEYSET	two 1/4" rotating pins	1/2"
3/4-KEYSET	two 5/16" keys with screws	3/4"
1-KEYSET	two 3/8" keys with screws	1"
1-1/4-KEYSET	two 1/2" keys with screws	1-1/4"
1-1/2-KEYSET	two 5/8" keys with screws	1-1/2"
2-KEYSET	two 3/4" keys with screws	2"
2-1/2-KEYSET	two 1" keys with screws	2-1/2"
22-KEYSET	two 10mm keys with screws	22mm
27-KEYSET	two 12mm keys with screws	27mm
32-KEYSET	two 14mm keys with screws	32mm
40-KEYSET	two 16mm keys with screws	40mm



Replacement Arbor Screws

Part Number	to use with holder size
A5/8-11	Face Mill Mounting Bolt
A1/4-28	1/2"
A3/8-24	3/4"
A1/2-20	1"
A5/8-18	1-1/4"
A3/4-16	1-1/2"
A1-14	2"
A10mm-P1.5	22.0mm
A12mm-P1.75	27.0mm
A16mm-P2	32.0mm
A20mm-P2.5	40.0mm



Coolant Tube Wrench for HSK holders

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

