



ADVANCED SHRINK FIT SYSTEM

*The Industry's Highest
Quality Shrink Fit Line*

**YOUR COMPLETE
SHRINK FIT PACKAGE
SOLUTION**



THE INDUSTRY'S HIGHEST QUALITY SHRINK FIT LINE

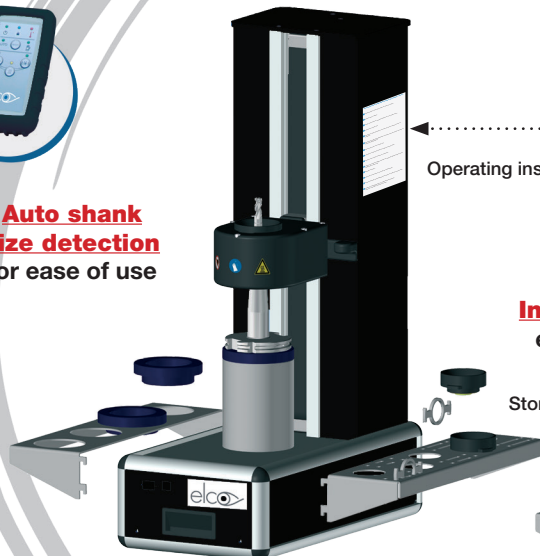
- **High Speed: shrinking from 2 to 7 seconds**
- **Flexible Range: shrinking from 2 to 40mm**

Remotely controlled

- Compatible with Start.2 & Fi-5B
- Shrink and Cooling unit linked and controlled by 1 pendant!



Auto shank size detection for ease of use



Start.2

220V - Standard
440V - Optional

UPGRADABILITY



Air cooling unit

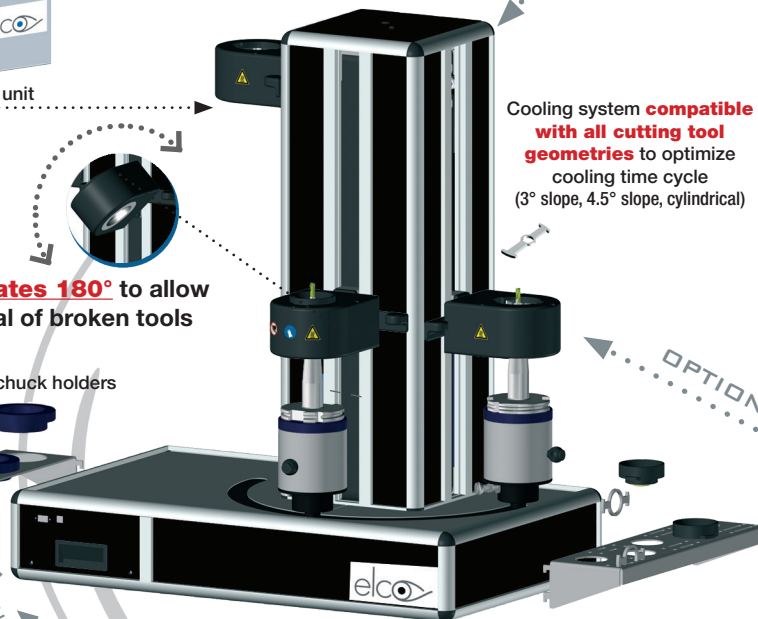
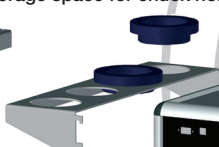
Operating instructions

High Speed Cooling Unit!

Cools tools less than 2 minutes with standard shop air pressure!

Inductor rotates 180° to allow easy removal of broken tools

Storage space for chuck holders



Fi-5B

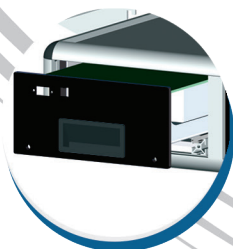
440V - Standard

Cooling system **compatible with all cutting tool geometries** to optimize cooling time cycle (3° slope, 4.5° slope, cylindrical)

Storage space for inductor and cooling stop rings

Removable electronics

- Compatible with Start.2 & Fi-5B
- Unique slide-out Control Module allows for easy access and repair



AFTER SALES-SERVICE



Scan here to see our Start.2 video!



Scan here to see our Fi-5B video!

Shrink and unshrink any type of tools and cutters

- Steel, HSS, Carbide, Heavy Metal, Powdered Metal, Shrink Fit extensions and reductions, Tool Shank must have h6 tolerance

Registered models – Registered patents
Subject to change without notice.

Don't hesitate to give us a call! Questions on the unit or applications? Let our trained sales engineers help you!



Phone: (847) 367-4800

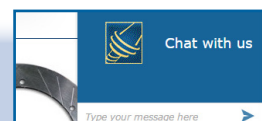


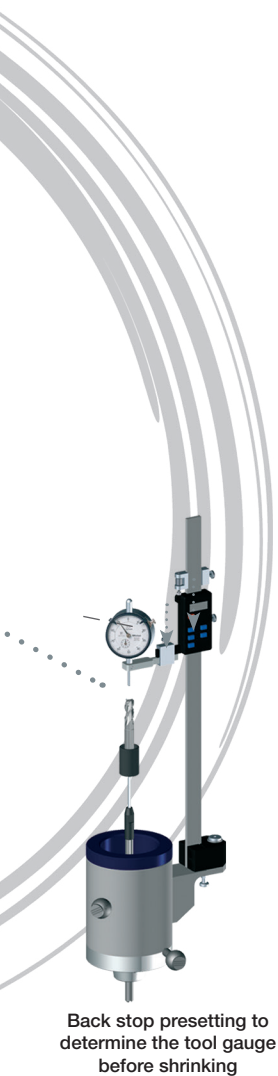
Fax: (847) 367-4815



www.lyndexnikken.com

Live Chat is available through our website!





SPECIFICATIONS & EQUIPMENT

Functions	Start.2	Fi-5B
Specifications	PART NUMBER: SF-START2-UNIT	PART NUMBER: SF-FI5-UNIT
Automatic tool size detection within the range of each inductor ring	■	■
Rapid heating cycle prevents heat transfer damage to the cutting tool and toolholder	■	■
Self regulated heating cycle allows for safe operation	■	■
Automatic or manual shrinking cycle time	■	■
Shrinking Ø 2 to Ø 40mm (.079" - 1.575") with the same inductor	■	■
Large 64mm (2.52") inductor diameter provides flexibility for small to large cutting tools	■	■
Remote control pendant for ergonomic operation	■	■
Unique slide out control module allows for easy access and repair	■	■
Inductor rotates 180 degrees for broken cutter removal	■	■
Cooling system for the electronic board to allow high-speed shrinking		■
Power supply 400-480V/14kW/50-60Hz/3 phase	■	■
Power supply 200-240V/14kW/50-60Hz/3 phase	■	
Equipment		
1 air cooling unit (70-90 PSI)	■	
2 air cooling units (70-90 PSI)	□	■
Shrinking of cutting diameters larger than shank diameters	□	□
Shrinking system for reductions	□	□
Back stop presetting unit	□	□
Storage space for chuck holders	■	■
Storage space for inductor stop rings and cooling stop rings	■	■
Storage space for cooling stop rings	□	

■ : Standard □ : Option

For a complete selection of Shrink Fit tool holders, please reference the Lyndex-Nikken Shrink Fit catalog.

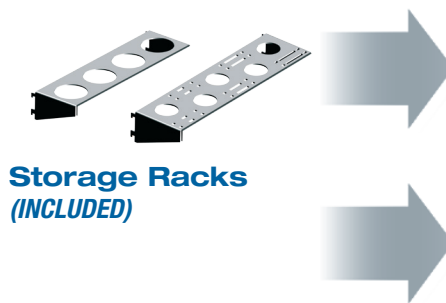


SHRINKING EQUIPMENT



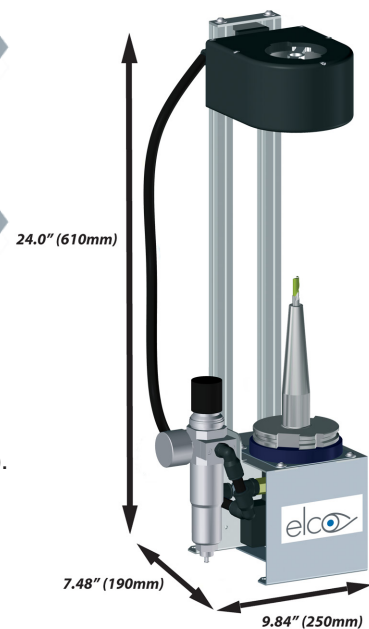
START.2 SHRINK FIT UNIT

- The world's easiest shrink machine to operate.
- Provided with accessories for shrinking $\varnothing 2$ to $\varnothing 40$ (.079" - 1.575").
- Compact and Ergonomic Design.
- 1 cooling unit included, multiple cooling units can be connected.
- Shrink machine unit net weight - 41.9 lbs. (19 kg)



Storage Racks
(INCLUDED)

COOLING UNIT



- Rapid Cooling - Tapered internal design allows for even distribution of high pressure air.
- Provided with accessories for cooling $\varnothing 2$ to $\varnothing 40$ (.079" - 1.575").
- Compressed air supply: 70 to 90 psi.
- Equipped with a filter and a pressure-reducing gauge to regulate the pressure and the air flow.
- Weight: 11 lbs. (5 kg)

FI-5B SHRINK FIT UNIT

- **FI-5B - speed and safety in one**
Speed - multiple cooling units to support high quantity tool assembly
Safety - Guide Rail prevents operator from handling hot tools
- **The electronic board is cooled to allow high-speed shrinking.**
- Provided with accessories for shrinking & cooling $\varnothing 2$ to $\varnothing 40$ (.079"-1.575").
- **Dimensions:**
 Length = 30.9" (785mm)
 Depth = 19.29" (490mm)
 Height = 33.66" (855mm)
- **Weight** (options excluded): 94.8 lbs. (43 kg)



PRESETTING UNIT (OPTIONAL)

- For length presetting
- For FI-5B shrink fit unit only
- Accuracy: $\pm 0,050\text{mm}$
- Repeatability: $\pm 0,020\text{mm}$
- Capability: tool shank $\varnothing 6$ to $\varnothing 32$ (.25"-1.25")



Don't hesitate to give us a call! Questions on the unit or applications? Let our trained sales engineers help you!



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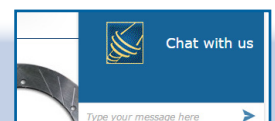


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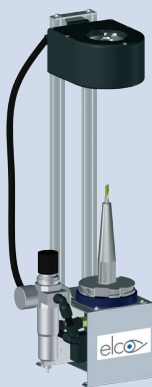
START.2 SHRINK FIT AND ACCESSORIES INCLUDED **ONLY \$9,950**

INCLUDES:

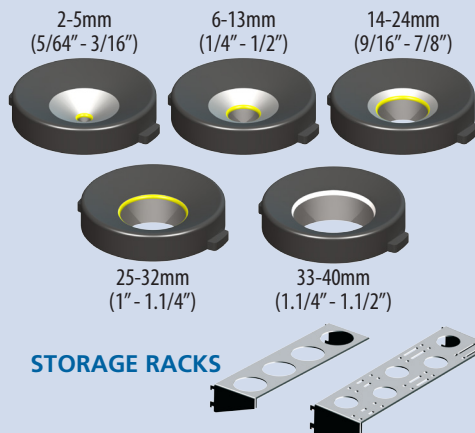
SHRINK UNIT



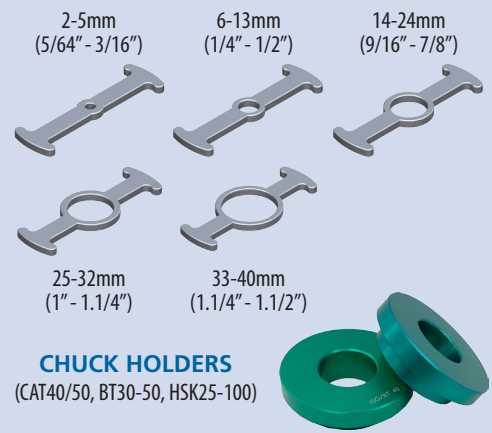
COOLING UNIT



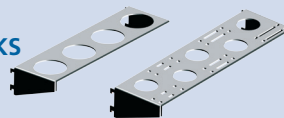
5 PIECE INDUCTION RING SET



5 PIECE COOLING BRACKET SET



STORAGE RACKS



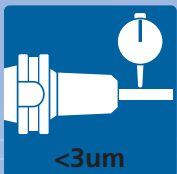
CHUCK HOLDERS

(CAT40/50, BT30-50, HSK25-100)



**START.2 SHRINK FIT UNIT + 10 SHRINK FIT HOLDER PACKAGES
AVAILABLE ON NEXT PAGE**

STANDARD FEATURES



RUNOUT

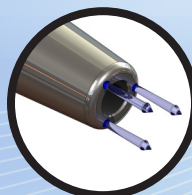


COOLANT

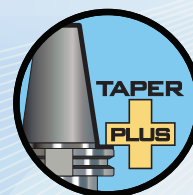


BALANCE

OPTIONAL FEATURES



COOLANT PORTS



TAPER PLUS

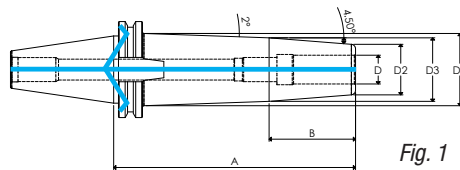
For a complete selection of Shrink Fit tool holders, please reference the Lyndex-Nikken Shrink Fit catalog.



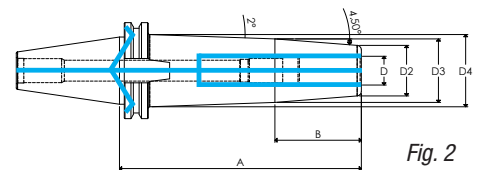
SHRINK FIT PACKAGE

SHRINK FIT UNIT + 10 SHRINK FIT HOLDERS

Choose from the tool packages below:



Standard - DIN AD+B
(DIN Form B and Center Thru Coolant Capable)



Coolant Port Option - DIN AD+B
(DIN Form B and Center Thru Coolant Capable)

All CAT40/50 Standard - reference Fig. 1

SF-PACKAGE-CT40-STD - \$11,500.00

Part Number	D	A	D2	D3
CAT40-SF0250-3.15	1/4"	3.15"	0.83"	1.06"
CAT40-SF0375-3.15	3/8"	3.15"	0.94"	1.26"
CAT40-SF0500-3.15	1/2"	3.15"	0.94"	1.26"
CAT40-SF0625-3.15	5/8"	3.15"	1.06"	1.34"
CAT40-SF0750-3.15	3/4"	3.15"	1.30"	1.65"
CAT40-SF1000-3.94	1"	3.94"	1.73"	2.09"
CAT40-SF6-80	6mm	80	21	27
CAT40-SF8-80	8mm	80	21	27
CAT40-SF10-80	10mm	80	24	32
CAT40-SF12-80	12mm	80	24	32
CAT40-SF16-80	16mm	80	27	34
CAT40-SF20-80	20mm	80	33	42
CAT40-SF25-100	25mm	100	44	53
CAT40-SF32-100	32mm	100	44	53

All CAT40/50 Coolant Port - reference Fig. 2

SF-PACKAGE-CT40-STD-CP - \$11,900.00

Part Number	D	A	D2	D3
CAT40-SF0250-3.15CP	1/4"	3.15"	0.83"	1.06"
CAT40-SF0375-3.15CP	3/8"	3.15"	0.94"	1.26"
CAT40-SF0500-3.15CP	1/2"	3.15"	0.94"	1.26"
CAT40-SF0625-3.15CP	5/8"	3.15"	1.06"	1.34"
CAT40-SF0750-3.15CP	3/4"	3.15"	1.30"	1.65"
CAT40-SF1000-3.94CP	1"	3.94"	1.73"	2.09"
CAT40-SF8-80CP	8mm	80	21	27
CAT40-SF10-80CP	10mm	80	24	32
CAT40-SF12-80CP	12mm	80	24	32
CAT40-SF16-80CP	16mm	80	27	34
CAT40-SF20-80CP	20mm	80	33	42
CAT40-SF25-100CP	25mm	100	44	53

SF-PACKAGE-CT40-EXT - \$11,900.00

Part Number	D	A	D2	D3	D4	B
CAT40-SF0250-6.30	1/4"	6.30"	0.83"	1.06"	1.35"	1.50"
CAT40-SF0375-6.30	3/8"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT40-SF0500-6.30	1/2"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT40-SF0625-6.30	5/8"	6.30"	1.06"	1.34"	1.60"	1.75"
CAT40-SF0750-6.30	3/4"	6.30"	1.30"	1.65"	1.88"	2.25"
CAT40-SF1000-6.30	1"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT40-SF6-160	6mm	160	21	27	34.18	38.12
CAT40-SF8-160	8mm	160	21	27	34.18	38.12
CAT40-SF10-160	10mm	160	24	32	38.29	50.83
CAT40-SF12-160	12mm	160	24	32	38.29	50.83
CAT40-SF16-160	16mm	160	27	34	40.73	44.47
CAT40-SF20-160	20mm	160	33	42	47.85	57.38
CAT40-SF25-160	25mm	160	44	53	58.85	57.18

SF-PACKAGE-CT40-EXT-CP - \$12,400.00

Part Number	D	A	D2	D3	D4	B
CAT40-SF0250-6.30CP	1/4"	6.30"	0.83"	1.06"	1.35"	1.50"
CAT40-SF0375-6.30CP	3/8"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT40-SF0500-6.30CP	1/2"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT40-SF0625-6.30CP	5/8"	6.30"	1.06"	1.34"	1.60"	1.75"
CAT40-SF0750-6.30CP	3/4"	6.30"	1.30"	1.65"	1.88"	2.25"
CAT40-SF1000-6.30CP	1"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT40-SF8-160CP	8mm	160	21	27	34.18	38.12
CAT40-SF10-160CP	10mm	160	24	32	38.29	50.83
CAT40-SF12-160CP	12mm	160	24	32	38.29	50.83
CAT40-SF16-160CP	16mm	160	27	34	40.73	44.47
CAT40-SF20-160CP	20mm	160	33	42	47.85	57.38
CAT40-SF25-160CP	25mm	160	44	53	58.85	57.18

SF-PACKAGE-CT50-STD - \$12,000.00

Part Number	D	A	D2	D3
CAT50-SF0250-3.15	1/4"	3.15"	0.83"	1.06"
CAT50-SF0375-3.15	3/8"	3.15"	0.94"	1.26"
CAT50-SF0500-3.15	1/2"	3.15"	0.94"	1.26"
CAT50-SF0625-3.15	5/8"	3.15"	1.06"	1.34"
CAT50-SF0750-3.15	3/4"	3.15"	1.30"	1.65"
CAT50-SF1000-3.94	1"	3.94"	1.73"	2.09"
CAT50-SF1250-3.94	1.1/4"	3.94"	1.73"	2.09"
CAT50-SF3-80	3mm	80	10	18
CAT50-SF6-80	6mm	80	21	27
CAT50-SF8-80	8mm	80	21	27
CAT50-SF10-80	10mm	80	24	32
CAT50-SF12-80	12mm	80	24	32
CAT50-SF16-80	16mm	80	27	34
CAT50-SF20-80	20mm	80	33	42
CAT50-SF25-100	25mm	100	44	53
CAT50-SF32-100	32mm	100	44	53

SF-PACKAGE-CT50-STD-CP - \$12,500.00

Part Number	D	A	D2	D3
CAT50-SF0250-3.15CP	1/4"	3.15"	0.83"	1.06"
CAT50-SF0375-3.15CP	3/8"	3.15"	0.94"	1.26"
CAT50-SF0500-3.15CP	1/2"	3.15"	0.94"	1.26"
CAT50-SF0625-3.15CP	5/8"	3.15"	1.06"	1.34"
CAT50-SF0750-3.15CP	3/4"	3.15"	1.30"	1.65"
CAT50-SF1000-3.94CP	1"	3.94"	1.73"	2.09"
CAT50-SF1250-3.94CP	1.1/4"	3.94"	1.73"	2.09"
CAT50-SF8-80CP	8mm	80	21	27
CAT50-SF10-80CP	10mm	80	24	32
CAT50-SF12-80CP	12mm	80	24	32
CAT50-SF16-80CP	16mm	80	27	34
CAT50-SF20-80CP	20mm	80	33	42
CAT50-SF25-100CP	25mm	100	44	53
CAT50-SF32-100CP	32mm	100	44	53

SF-PACKAGE-CT50-EXT - \$12,800.00

Part Number	D	A	D2	D3	D4	B
CAT50-SF0125-6.30	1/8"	6.30"	0.39"	1.17"	1.26"	1.50"
CAT50-SF0250-6.30	1/4"	6.30"	0.83"	1.06"	1.35"	1.50"
CAT50-SF0375-6.30	3/8"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT50-SF0500-6.30	1/2"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT50-SF0625-6.30	5/8"	6.30"	1.06"	1.34"	1.60"	1.75"
CAT50-SF0750-6.30	3/4"	6.30"	1.30"	1.65"	1.88"	2.25"
CAT50-SF1000-6.30	1"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT50-SF1250-6.30	1.1/4"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT50-SF6-160	6mm	160	21	27	34.18	38.12
CAT50-SF8-160	8mm	160	21	27	34.18	38.12
CAT50-SF10-160	10mm	160	24	32	38.29	50.83
CAT50-SF12-160	12mm	160	24	32	38.29	50.83
CAT50-SF16-160	16mm	160	27	34	40.73	44.47
CAT50-SF20-160	20mm	160	33	42	47.85	57.18
CAT50-SF25-160	25mm	160	44	53	58.85	57.18
CAT50-SF32-160	32mm	160	44	53	58.85	57.18

SF-PACKAGE-CT50-EXT-CP - \$13,250.00

Part Number	D	A	D2	D3	D4	B
CAT50-SF0250-6.30CP	1/4"	6.30"	0.83"	1.06"	1.35"	1.50"
CAT50-SF0375-6.30CP	3/8"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT50-SF0500-6.30CP	1/2"	6.30"	0.94"	1.26"	1.51"	2.00"
CAT50-SF0625-6.30CP	5/8"	6.30"	1.06"	1.34"	1.60"	1.75"
CAT50-SF0750-6.30CP	3/4"	6.30"	1.30"	1.65"	1.88"	2.25"
CAT50-SF1000-6.30CP	1"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT50-SF1250-6.30CP	1.1/4"	6.30"	1.73"	2.09"	2.32"	2.25"
CAT50-SF8-160CP	8mm	160	21	27	34.18	38.12
CAT50-SF10-160CP	10mm	160	24	32	38.29	50.83
CAT50-SF12-160CP	12mm	160	24	32	38.29	50.83
CAT50-SF16-160CP	16mm	160	27	34	40.73	44.47
CAT50-SF20-160CP	20mm	160	33	42	47.85	57.18
CAT50-SF25-160CP	25mm	160	44	53	58.85	57.18
CAT50-SF32-160CP	32mm	160	44	53	58.85	57.18

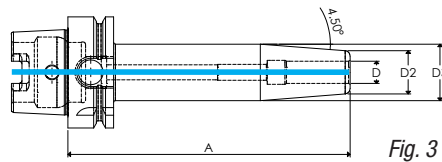
CAT40

CAT50

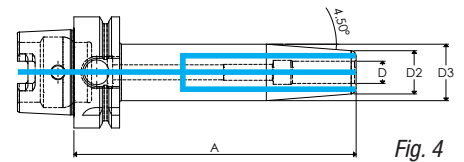
SHRINK FIT PACKAGE

SHRINK FIT UNIT + 10 SHRINK FIT HOLDERS

Choose from the tool packages below:



Standard - DIN69893A / DIN 69882-8



Coolant Port Option - DIN69893A / DIN 69882-8

All HSK63A/100A Standard - reference Fig. 3

SF-PACKAGE-HSK63A-STD - \$12,000.00

Part Number	D	A	D2	D3
H63A-SF0250-3.15	1/4"	3.15"	0.79"	1.06"
H63A-SF0375-3.35	3/8"	3.35"	0.94"	1.26"
H63A-SF0500-3.54	1/2"	3.54"	0.94"	1.26"
H63A-SF0625-3.74	5/8"	3.74"	1.06"	1.34"
H63A-SF0750-3.94	3/4"	3.94"	1.30"	1.65"
H63A-SF1000-4.53	1"	4.53"	1.73"	2.09"
H63A-SF6-80	6mm	80	20	27
H63A-SF8-80	8mm	80	20	27
H63A-SF10-85	10mm	85	24	32
H63A-SF12-90	12mm	90	24	32
H63A-SF16-95	16mm	95	27	34
H63A-SF20-100	20mm	100	33	42
H63A-SF25-115	25mm	115	44	53

SF-PACKAGE-HSK63A-EXT - \$12,700.00

Part Number	D	A	D2	D3
H63A-SF0250-6.30	1/4"	6.30"	0.79"	1.06"
H63A-SF0375-6.30	3/8"	6.30"	0.95"	1.26"
H63A-SF0500-6.30	1/2"	6.30"	0.95"	1.26"
H63A-SF0625-6.30	5/8"	6.30"	1.06"	1.34"
H63A-SF0750-6.30	3/4"	6.30"	1.30"	1.65"
H63A-SF1000-6.30	1"	6.30"	1.73"	2.07"
H63A-SF6-160	6mm	160	20	27
H63A-SF8-160	8mm	160	20	27
H63A-SF10-160	10mm	160	24	32
H63A-SF12-160	12mm	160	24	32
H63A-SF16-160	16mm	160	27	34
H63A-SF20-160	20mm	160	33	42
H63A-SF25-160	25mm	160	44	52.6

All HSK63A/100A Coolant Port - reference Fig. 4

SF-PACKAGE-HSK63A-STD-CP - \$12,500.00

Part Number	D	A	D2	D3
H63A-SF0250-3.15CP	1/4"	3.15"	0.79"	1.06"
H63A-SF0375-3.15CP	3/8"	3.35"	0.94"	1.26"
H63A-SF0500-3.54CP	1/2"	3.54"	0.94"	1.26"
H63A-SF0625-3.74CP	5/8"	3.74"	1.06"	1.34"
H63A-SF0750-3.94CP	3/4"	3.94"	1.30"	1.65"
H63A-SF1000-4.53CP	1"	4.53"	1.73"	2.09"
H63A-SF8-80CP	8mm	80	20	27
H63A-SF10-85CP	10mm	85	24	32
H63A-SF12-90CP	12mm	90	24	32
H63A-SF16-95CP	16mm	95	27	34
H63A-SF20-100CP	20mm	100	33	42
H63A-SF25-115CP	25mm	115	44	53

SF-PACKAGE-HSK63A-EXT-CP - \$13,250.00

Part Number	D	A	D2	D3
H63A-SF0250-6.30CP	1/4"	6.30"	0.79"	1.06"
H63A-SF0375-6.30CP	3/8"	6.30"	0.95"	1.26"
H63A-SF0500-6.30CP	1/2"	6.30"	0.95"	1.26"
H63A-SF0625-6.30CP	5/8"	6.30"	1.06"	1.34"
H63A-SF0750-6.30CP	3/4"	6.30"	1.30"	1.65"
H63A-SF1000-6.30CP	1"	6.30"	1.73"	2.07"
H63A-SF8-160CP	8mm	160	20	27
H63A-SF10-160CP	10mm	160	24	32
H63A-SF12-160CP	12mm	160	24	32
H63A-SF16-160CP	16mm	160	27	34
H63A-SF20-160CP	20mm	160	33	42
H63A-SF25-160CP	25mm	160	44	52.6

HSK63A

STANDARD TYPE



EXTENDED TYPE



HSK100A

STANDARD TYPE



EXTENDED TYPE



SF-PACKAGE-HSK100A-STD - \$13,000.00

Part Number	D	A	D2	D3
H100A-SF0250-3.54	1/4"	3.54"	0.83"	1.14"
H100A-SF0375-3.54	3/8"	3.54"	0.94"	1.26"
H100A-SF0500-3.74	1/2"	3.74"	0.94"	1.26"
H100A-SF0625-3.94	5/8"	3.94"	1.06"	1.34"
H100A-SF0750-4.13	3/4"	4.13"	1.30"	1.65"
H100A-SF1000-4.53	1"	4.53"	1.73"	2.09"
H100A-SF1250-4.72	1.1/4"	4.72"	1.73"	2.09"
H100A-SF6-85	6mm	85	21	27
H100A-SF10-90	10mm	90	24	32
H100A-SF12-95	12mm	95	24	32
H100A-SF16-100	16mm	100	27	34
H100A-SF20-105	20mm	105	33	42
H100A-SF25-115	25mm	115	44	53
H100A-SF32-120	32mm	120	44	53

SF-PACKAGE-HSK100A-EXT - \$13,900.00

Part Number	D	A	D2	D3
H100A-SF0250-6.30	1/4"	6.30"	0.83"	1.06"
H100A-SF0375-6.30	3/8"	6.30"	0.94"	1.26"
H100A-SF0500-6.30	1/2"	6.30"	0.94"	1.26"
H100A-SF0625-6.30	5/8"	6.30"	1.06"	1.34"
H100A-SF0750-6.30	3/4"	6.30"	1.30"	1.65"
H100A-SF1000-6.30	1"	6.30"	1.73"	2.09"
H100A-SF1250-6.30	1.1/4"	6.30"	1.73"	2.09"
H100A-SF6-160	6mm	160	21	27
H100A-SF10-160	10mm	160	24	32
H100A-SF12-160	12mm	160	24	32
H100A-SF16-160	16mm	160	27	34
H100A-SF20-160	20mm	160	33	42
H100A-SF25-160	25mm	160	44	53
H100A-SF32-160	32mm	160	44	53

SF-PACKAGE-HSK100A-STD-CP - \$13,500.00

Part Number	D	A	D2	D3
H100A-SF0250-3.54CP	1/4"	3.54"	0.83"	1.14"
H100A-SF0375-3.54CP	3/8"	3.54"	0.94"	1.26"
H100A-SF0500-3.74CP	1/2"	3.74"	0.94"	1.26"
H100A-SF0625-3.94CP	5/8"	3.94"	1.06"	1.34"
H100A-SF0750-4.13CP	3/4"	4.13"	1.30"	1.65"
H100A-SF1000-4.53CP	1"	4.53"	1.73"	2.09"
H100A-SF1250-4.72CP	1.1/4"	4.72"	1.73"	2.09"
H100A-SF10-90CP	10mm	90	24	32
H100A-SF12-95CP	12mm	95	24	32
H100A-SF16-100CP	16mm	100	27	34
H100A-SF20-105CP	20mm	105	33	42
H100A-SF25-115CP	25mm	115	44	53
H100A-SF32-120CP	32mm	120	44	53

SF-PACKAGE-HSK100A-EXT-CP - \$14,500.00

Part Number	D	A	D2	D3
H100A-SF0250-6.30CP	1/4"	6.30"	0.83"	1.06"
H100A-SF0375-6.30CP	3/8"	6.30"	0.94"	1.26"
H100A-SF0500-6.30CP	1/2"	6.30"	0.94"	1.26"
H100A-SF0625-6.30CP	5/8"	6.30"	1.06"	1.34"
H100A-SF0750-6.30CP	3/4"	6.30"	1.30"	1.65"
H100A-SF1000-6.30CP	1"	6.30"	1.73"	2.09"
H100A-SF1250-6.30CP	1.1/4"	6.30"	1.73"	2.09"
H100A-SF10-160CP	10mm	160	24	32
H100A-SF12-160CP	12mm	160	24	32
H100A-SF16-160CP	16mm	160	27	34
H100A-SF20-160CP	20mm	160	33	42
H100A-SF25-160CP	25mm	160	44	53
H100A-SF32-160CP	32mm	160	44	53

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