

## THERMO Shrink-fit equipment

# 2024





### **THERMO Shrink-fit unit Fi-6**

Air cooling compatible with any geometry

Ergonomic design with remote control

Great after-sales support

1 shrink-fit unit + 2 cooling units		
High-speed shrinking with cooled electronic board		
Ø2 to Ø32 accessories for shrinking and cooling in	ncluded (other sizes optional)	
From shrinking to cooling without touching toolhold	ncluded (other sizes optional) ders	
For workbench operation		
Length x depth x height = 785 x 510 x 875 mm		
Weight = 65 kg		
Features		
Compatible with any tool type	✓ Cooling system	
Self-regulated power	✓ Compatible with geometries	all
2 to 7 second cycle time		

√

 $\checkmark$ 

 $\checkmark$ 

Storage space for chuck holders

geometries

Storage for induction and cooling stop rings

Storage compartment for accessories

Air cooling unit available as option SAB

### **THERMO Shrink-fit unit Start.2**

Easy to use

Ø6 to Ø20 accessories for shrinking included (other sizes optional) For workbench operation Cooling unit FG500.1150 - possible to use multiple units Lenght x depth x height =  $255 \times 490 \times 755$  mm Weight = 19 kg

#### Features

$\checkmark$
$\checkmark$

\*In Germany, shrinking units are not offered for sale, are not available in and will not be delivered to



### **THERMO** Cooling unit FG500.1150

Air cooling unit Ø6 to Ø20 accessories for shrinking and cooling included (other sizes optional) Compressed air supply 4 - 6 bar Equipped with filter and pressure-reducing gauge For workbench operation Can be used with both Fi-6 and Start.2 units Length x depth x height = 220 x 190 x 615 mm Weight = 5 kg

### **THERMO** Presetting unit FJ160.0100

For length presetting Fi-6 unit only Accuracy =  $\pm$  0,050 mm Repeatability =  $\pm$  0,020 mm Capability = tool shank Ø6 to Ø32



Functions	Start.2	Fi.6
Self-regulated power with microprocessor, detection of Ø, automatic heat configuration and cut-off	Х	Х
Heat zone located on tool holder, no deterioration of tool and tool holder	Х	Х
Self-regulated heating depending on paramteres detected	Х	Х
Automatic or manual shrinking cycle time	х	Х
Shrinking Ø2 to Ø40 with the same inductor	Х	Х
Inductor entry diameter: 64 mm	Х	Х
Ergonomic design with remote control	Х	Х
Advanced concentrators of magnetic fields allow shrinking of tools provided with a coding chip	Х	Х
Removable electronic and inductor for quick after-sales service	Х	Х
Inductor rotates 180° without disassembling	Х	Х
Cooling system for the electronic board to allow high-speed shrinking		Х
Power supply 3x380/480V - 16A 50/60 Hz - 14kW	Х	Х
Power supply 3x200/240V - 32A 50/60 Hz - 14kW	Х	Х
Compressed air supply 4-6 bar		Х
Options		
1 air cooling unit	0	
2 air cooling units	0	Х
Storage compartment		Х
Shrinking of cutting diameters larger thank shank diameters	0	0
Shrinking system for reductions	0	0
Back stop presetting unit	0	0
Storage space for chuck holders	0	0
Storage space for inductor stop rings and cooling stop rings	0	0
Storage space for cooling stop rings	0	



Ontool mature         Course         Course <thcourse< th=""> <thco< th=""><th>Chuck holders</th><th>Code</th><th>Start.2</th><th>Fi 6</th><th>FG500.1150</th><th></th></thco<></thcourse<>	Chuck holders	Code	Start.2	Fi 6	FG500.1150	
For HSK 32 A-C-E / HSK 40 B-D-F chuck       FP100.1032       0       0         For HSK 40 A-C-E / HSK 50 B-D-F chuck       FP100.1050       0       0         For HSK 50 A-C-E / HSK 50 B-D-F chuck       FP100.1050       0       0         For HSK 50 A-C-E / HSK 50 B-D-F chuck       FP100.1050       0       0         For HSK 100 A-C-E / HSK 125 B-D F chuck       FP100.1030       0       0         For ISO / BT 30 chuck       FP100.2030       0       0         For ISO / BT 45 chuck       FP100.2040       0       0         For ISO / BT 45 chuck       FP100.2050       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         Standard inductor stop rings       0       0       0       0         Ø 2 to Ø 5       FE100.2050.20       0       0       0         Ø 40       FE100.2050.20       0       0       0						
For HSK 40 A-C-E / HSK 50 B-D-F chuck       FP100.1040       o       o       o         For HSK 50 A-C-E / HSK 60 B-D-F chuck       FP100.1050       o       o       o         For HSK 60 A-C-E / HSK 60 B-D-F chuck       FP100.1080       o       o       o         For HSK 60 A-C-E / HSK 100 B-D-F chuck       FP100.1000       o       o       o         For HSK 70 A-C-E / HSK 100 B-D-F chuck       FP100.2030       o       o       o         For ISO / BT 40 chuck       FP100.2030       o       o       o         For ISO / BT 50 chuck       FP100.2040       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.2050       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.2000       x       x       o         Ø 2 to Ø 5       FE100.2000.050       o       x       o       o         Ø 2 to Ø 5       FE200.200.050       o       x       o       o       o         Ø 14 to 20       FE100.2140.200       x       x       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o						
For HSK 63 A-C-E / HSK 80 B-D-F chuckFP100.1063oooFor HSK 100 A-C-E / HSK 125 B-D-F chuckFP100.1080oooFor HSK 100 A-C-E / HSK 125 B-D-F chuckFP100.2030oooFor ISO / BT 30 chuckFP100.2040oooFor ISO / BT 40 chuckFP100.2040oooFor ISO / BT 40 chuckFP100.2045oooFor ISO / BT 50 chuckFP100.2050oooFor ISO / BT 50 chuckFP100.2063oooFor SC 6 a chuckFP100.2063oooStandard inductor stop ringsFP100.4050oooØ 6 to 12FE100.4020xxoØ 41 to 20FE100.4020xxoØ 2 to Ø 5FE200.020.050oooØ 40FE200.140.200oooØ 2 to Ø 5FE200.020.050ooØ 40FE200.400.400ooØ 2 to Ø 5FE200.200.50.320ooØ 40FE200.400.400ooØ 2 to Ø 5FR500.120xxØ 40FR500.200xxØ 40FR500.200xxØ 40FR500.200xoØ 40FR500.200xxØ 40FR500.200xxØ 40FR500.200xxØ 41 to Ø 20FR500.200xxØ 40FR500.010<						
For HSK 80 A-C-E / HSK 100 B-D-F chuckFP100.1080ooooFor HSK 100 A-C-E / HSK 125 B-D-F chuckFP100.2030oooFor ISO / BT 30 chuckFP100.2030oooFor ISO / BT 40 chuckFP100.2045oooFor ISO / BT 50 chuckFP100.2050oooFor ISO / BT 50 chuckFP100.2050oooStadard inductor stop ringsFE100.020.050xxo0 2 to 0 5FE100.140.200xxo0 41 to 20FE100.140.200xxo0 40FE200.020.050ooo0 41 to 0 20FE200.140.200oo0 41 to 0 20FE200.140.200xx0 41 to 0 20FR500.200xx0 41 to 0 20FR500.200xx0 41 to 20FR500.200xx0 41 to 20FR500.100oo0 41 to 20FT150.0100oo0 5torage space for toolsFT150.0100o0 5torage space for cholk holdersFT250.0100o0 5torage space for cholk holdersFT450.0100o0 5torage space for cholk holdersFT450.0100o0 5torage space for cholk holdersFT450.0100o <td></td> <td></td> <td>0</td> <td>0</td> <td></td> <td></td>			0	0		
For HSK 100 A-C-E / HSK 125 B-D-F chuckFP100.1100ooooFor ISO / BT 30 chuckFP100.2030ooooFor ISO / BT 45 chuckFP100.2045oooFor ISO / BT 50 chuck With pull studFP100.2050oooFor ISO / BT 50 chuck With pull studFP100.2050oooStandard inductor stop ringsFE100.020.050oxoØ 2 to Ø 5FE100.020.050oxooØ 14 to 20FE100.200.050oxooØ 40FE100.200.050oxooØ 14 to 20FE100.200.050oooØ 14 to 20FE200.020.050oooØ 14 to 20FE200.020.050oooØ 14 to 20FE200.020.050oooØ 14 to 20FE200.020.050oooØ 14 to 20FE200.020.050ooØ 14 to 20FE200.020.050ooØ 14 to 20FE200.020.050ooØ 14 to 20FR500.020xxØ 14 to 20FR500.020xxØ 14 to 20FR500.020xxØ 14 to 20FR500.000ooØ 14 to 20FR500.000xxØ 14 to 20FR500.000ooStorage space for cholk holdersFT150.0100oStorage space for cholk holdersFT250.0100oS	For HSK 63 A-C-E / HSK 80 B-D-F chuck	FP100.1063	0	0	0	
For ISO / BT 30 chuck       FP100.2030       o       o       o         For ISO / BT 40 chuck       FP100.2040       o       o       o         For ISO / BT 40 chuck       FP100.2050       o       o       o         For ISO / BT 50 chuck       FP100.2050       o       o       o         For ISO / BT 50 chuck       FP100.2050       o       o       o         Standard inductor stop rings       FP100.2050       o       o       o         Ø 2 to Ø 5       FE100.080.120       x       x       o         Ø 14 to 20       FE100.140.200       x       x       o         Ø 2 to Ø 5       FE200.200.50       o       x       o         Ø 40       FE100.400.200       x       x       o         Ø 2 to Ø 5       FE200.200.20.50       o       o       o         Ø 2 to Ø 5       FE200.200.20.050       o       o       o       o         Ø 40       FE200.200.20.050       o       o       o       o       o         Ø 2 to Ø 5       FE200.200.20.0       x       x       o       o       o       o         Ø 40       FE200.400.400       o       o       o       o	For HSK 80 A-C-E / HSK 100 B-D-F chuck	FP100.1080	0	0	0	
For ISO / BT 40 chuck       FP100.2040       0       0       0         For ISO / BT 40 chuck       FP100.2045       0       0       0         For ISO / BT 50 chuck       FP100.2050       0       0       0         For ISO / BT 50 chuck with pull stud       FP100.4050       0       0       0         For ISO / BT 50 chuck with pull stud       FP100.200.50       0       0       0         Standard inductor stop rings       0       0       0       0       0         Ø 2 to 0 5       FE100.020.050       0       x       x       0       0       0       0         Ø 40       FE100.400.00       x       x       0       0       0       0       0       0       0         Split inductor stop rings       0<	For HSK 100 A-C-E / HSK 125 B-D-F chuck	FP100.1100	0	0	0	
For ISO / BT 45 chuck       FP100.2045       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.2050       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.4050       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.70503       o       o       o         For ISO / BT 50 chuck with pull stud       FP100.70503       o       o       o         Standard inductor stop rings       FE100.080120       x       x       o       o       o         0 6 to 12       FE100.080120       x       x       o       o       o       o         0 40       FE100.080.020       o       x       x       o       o       o       o         0 2 to 0 5       FE100.080.020       o       x       o <td< td=""><td>For ISO / BT 30 chuck</td><td>FP100.2030</td><td>0</td><td>0</td><td>0</td><td>HSK 63</td></td<>	For ISO / BT 30 chuck	FP100.2030	0	0	0	HSK 63
For ISO / BT 50 chuck       FP 100.2050       o       o       o         For ISO / BT 50 chuck with pull stud       FP 100.4050       o       o       o         For PSC 63 chuck       FP 100.000       o       o       o         Standard inductor stop rings       0       0       0       x       x         0 4 to 20       FE 100.020.050       o       x       x       0         0 41 to 20       FE 100.250.320       o       x       0       0         0 40       FE 100.400.00       o       o       0       0         Split inductor stop rings       0       0       0       0       0         0 14 to 20       FE 200.020.050       o       0       0       0         0 14 to 0 20       FE 200.020.050       o       0       0       0         0 2 to 0 5       FE 200.020.020       o       0	For ISO / BT 40 chuck	FP100.2040	0	0	0	
For ISO / BT 50 chuck with pull stud       FP100.4050       o       o         For PSC 63 chuck       FP100.5063       o       o         Ø 2 to Ø 5       FE100.020.050       o       x         Ø 14 to 20       FE100.020.050       o       x         Ø 14 to 20       FE100.020.050       o       x         Ø 40       FE100.020.050       o       x         Ø 14 to 20       FE200.020.050       o       o         Ø 14 to Ø 20       FE200.020.050       o       o         Ø 40       FE200.250.320       o       o         Ø 40       FE200.250.320       o       o         Ø 40       FE500.200       x       x         Ø 6 to Ø 12       FR500.200       x       x         Ø 40       FE500.400       o       o         Ø 40       FE500.200       x       x         Ø 2 to Ø 5       FR500.200       x       x         Ø 2 to Ø 5       FR500.010       o       o         Storage spa		FP100.2045	0	0	0	
For PSC 63 chuck       FP100.5063       o       o         Standard inductor stop rings $0 \ge 10 \ 0.220.050$ $0 \times x$ $x$ 0 14 to 20       FE100.060.120 $x \times x$ $x$ 0 40       FE100.400.400 $x \times x$ $x$ 0 40       FE200.20.050 $x \times x$ $x$ 0 41 to 0 20       FE200.400.400 $x$ $x$ 0 40       FE200.400.400 $x$ $x$ 0 40       FE200.400.400 $x \times x$ $x$ 0 40       FE200.220 $x \times x$ $x$ 0 40       FE200.200 $x \times x$ $x$ 0 40       FE500.200 $x \times x$ $x$ 0 41 to 20       FR500.320 $x \times x$ $x$ 0 425 & 32       FR500.320 $x \times x$ $x$ 0 40       FR500.400 $x \times x$ $x$ 0 40	For ISO / BT 50 chuck	FP100.2050	0	0	0	
Standard inductor stop rings $\emptyset 2 \text{ to } \emptyset 5$ FE100.020.050ox $\emptyset 6 \text{ to } 12$ FE100.140.200xx $\emptyset 14 \text{ to } 20$ FE100.140.200xx $\emptyset 25 \& 32$ FE100.250.320ox $\emptyset 40$ FE100.400.400ooSplit inductor stop rings $\emptyset 2 \text{ to } \emptyset 5$ FE200.020.050o $\emptyset 6 \text{ to } \emptyset 12$ FE200.140.200o $\emptyset 2 to \emptyset 5$ FE200.120.020o $\emptyset 2 to \emptyset 5$ FE200.120.020o $\emptyset 4 \text{ to } 20$ FE200.140.200o $\emptyset 2 to \emptyset 5$ FR500.050x $\emptyset 4 0$ FE200.400.400o $\emptyset 2 to \emptyset 5$ FR500.050x $\emptyset 4 0$ FR500.120xx $\emptyset 4 0$ FR500.200xx $\emptyset 4 0$ FR500.200xx $\emptyset 4 0$ FR500.200xx $\emptyset 4 0$ FR500.320xo $\emptyset 4 0$ FR500.100oo $\emptyset 4 0$ FR50.100oo $\emptyset 4 0$ F140.0100oo $\emptyset 4 0$ F140.0100oo $\emptyset 4 0$ F140.0100oo $0 4 0$ F140.0100oo $0 4 0$ F140.0100oo $0 4 0$ F140.0100o				0	0	
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Ø 14 to 20FE 100.140.200xxØ 25 & 32FE 100.250.320oxØ 40FE 100.400.400ooSplit inductor stop ringsFE 200.020.050oØ 2 to Ø 5FE 200.020.050ooØ 14 to Ø 20FE 200.040.20ooØ 2 to Ø 5FE 200.020.050ooØ 40O 12FE 200.400.400oØ 2 to Ø 5FE 200.400.400ooØ 2 to Ø 5FE 200.400.400ooØ 2 to Ø 5FR 500.020xxØ 2 to Ø 5FR 500.200xxØ 14 to Ø 20FR 500.200xxØ 2 to Ø 5FR 500.320xoØ 40FR 500.400ooStorage space for toolsFT 150.0100oStorage space for toolsFT 250.0100oStorage space for cooling stop ringsFT 450.0100oStorage space for cooling stop ringsFT 450.0100oKewiar gl	Ø 2 to Ø 5	FE100.020.050	0	х		
	Ø 6 to 12	FE100.060.120	Х	Х		
		FE100.140.200	Х	Х		
Split inductor stop rings $\emptyset 2 \text{ to } \emptyset 5$ FE200.020.05000 $\emptyset 6 \text{ to } \emptyset 12$ FE200.140.20000 $\emptyset 14 \text{ to } \emptyset 20$ FE200.140.20000 $\emptyset 25 \& 32$ FE200.250.32000 $\emptyset 40$ FE200.400.40000 $\emptyset 2 \text{ to } \emptyset 5$ FR500.050x0 $\emptyset 2 \text{ to } \emptyset 5$ FR500.020xx $\emptyset 2 \text{ to } \emptyset 5$ FR500.200xx $\emptyset 14 \text{ to } \emptyset 20$ FR500.200xx $\emptyset 25 \& 32$ FR500.320xx $\emptyset 40$ FR500.40000 $0 40$ FR500.40000 $\emptyset 40$ FR500.100xx $\emptyset 25 \& 32$ FR500.320x0 $\emptyset 40$ FR500.40000 $\emptyset 40$ FR500.40000 $\emptyset 40$ FR500.40000 $\emptyset 40$ FR500.40000 $\emptyset 40$ FR500.10000 $\emptyset 40$ FR500.10000 $\emptyset 40$ FR50.10000Storage space for coluck holdersFT150.01000Storage space for coling stop ringsFT450.01000Storage space for coling stop ringsFT450.01000Storage space for coling stop ringsFX100.0100xFlier for gripping small diametersFX200.01000Flier for gripping small diametersFX100.05640Inductor v.5 - Ø64 (tool shank $\emptyset \le 40$ )FA100.05640		FE100.250.320	0	Х		
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	Split inductor stop rings					
	Ø 2 to Ø 5	FE200.020.050	0	0		
$ \begin{array}{c c c c c c } \hline 0 & 25 & 32 & FE200.250.320 & 0 & 0 \\ \hline 0 & 40 & FE200.400.400 & 0 & 0 \\ \hline 0 & 10 & FE200.400.400 & 0 & 0 \\ \hline 0 & 25 & 0 & 5 & FR500.050 & x & 0 & 0 \\ \hline 0 & 6 & 10 & 12 & FR500.120 & x & x & x & 0 \\ \hline 0 & 6 & 12 & FR500.200 & x & x & x & 0 \\ \hline 0 & 14 & to & 20 & FR500.320 & x & x & 0 & 0 \\ \hline 0 & 14 & to & 20 & FR500.320 & x & 0 & 0 \\ \hline 0 & 25 & 32 & FR500.320 & x & 0 & 0 \\ \hline 0 & 40 & FR500.400 & 0 & 0 & \\ \hline 0 & 40 & FR500.400 & 0 & 0 & \\ \hline 0 & 40 & FR500.400 & 0 & 0 & \\ \hline 0 & 40 & FR500.400 & 0 & 0 & \\ \hline 0 & 11 & 100.0800 & 0 & 0 & \\ \hline 0 & 11 & 10$	Ø 6 to Ø 12	FE200.060.120	0	0		
	Ø 14 to Ø 20	FE200.140.200	0	0		
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	Ø 40	FE200.400.400	0	0		<b>N</b>
	Cooling stop rings					
				Х	0	
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Shrinking with reductionReduction supportFL100.0800ooReduction supportFL100.0800ooVarious accessoriesStorage space for toolsFT150.0100oStorage space for chuck holdersFT250.0100ooStorage space for inductor and cooling stop ringsFT350.0100ooStorage space for cooling stop ringsFT450.0100ooStorage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooInductor v.5 - Ø64 (tool shank Ø ≤ 40 )FA100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo						
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Various accessoriesStorage space for toolsFT150.0100oStorage space for chuck holdersFT250.0100ooStorage space for inductor and cooling stopFT350.0100ooStorage space for cooling stop ringsFT450.0100ooStorage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementInductor v.5 - Ø64 (tool shank Ø ≤ 40 )FA100.0564ooMotherboard 380/480 VFC100.0500ooo						
Storage space for toolsFT150.0100oStorage space for chuck holdersFT250.0100ooStorage space for inductor and cooling stop ringsFT350.0100ooStorage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementFC100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo	Reduction support	FL100.0800	0	0		
Storage space for chuck holdersFT250.0100ooStorage space for inductor and cooling stop ringsFT350.0100ooStorage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementInductor v.5 - Ø64 (tool shank Ø $\leq$ 40 )FA100.0564ooMotherboard 380/480 VFC100.0500oooMotherboard 200/240 VFC100.0501ooo	Various accessories					
Storage space for inductor and cooling stop ringsFT350.0100ooStorage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementInductor v.5 - Ø64 (tool shank Ø $\leq$ 40 )FA100.0564oMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo	Storage space for tools	FT150.0100		0		
ringsF1330.010000Storage space for cooling stop ringsFT450.010000Kevlar glovesFX100.0100xxPlier for gripping small diametersFX200.010000Electronic replacementFA100.056400Inductor v.5 - Ø64 (tool shank $Ø \le 40$ )FA100.056400Motherboard 380/480 VFC100.050000Motherboard 200/240 VFC100.050100	0 1	FT250.0100	0	0		
Storage space for cooling stop ringsFT450.0100ooKevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementFA100.0564ooInductor v.5 - Ø64 (tool shank $\emptyset \le 40$ )FA100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo		FT350.0100	0	0		SCH Star
Kevlar glovesFX100.0100xxPlier for gripping small diametersFX200.0100ooElectronic replacementFA100.0564ooInductor v.5 - Ø64 (tool shank $Ø \le 40$ )FA100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo		FT450.0100	0		0	
Electronic replacementInductor v.5 - Ø64 (tool shank $Ø \le 40$ )FA100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo		FX100.0100	х	х		
Inductor v.5 - $\emptyset$ 64 (tool shank $\emptyset \le 40$ )FA100.0564ooMotherboard 380/480 VFC100.0500ooMotherboard 200/240 VFC100.0501oo	Plier for gripping small diameters	FX200.0100	0	0		
Motherboard 380/480 V         FC100.0500         o         o           Motherboard 200/240 V         FC100.0501         o         o	Electronic replacement					
Motherboard 200/240 V FC100.0501 o o		FA100.0564	0	0		
	Motherboard 380/480 V	FC100.0500	0	0		
Remote control FY100.050 o o	Motherboard 200/240 V	FC100.0501	0	0		
	Remote control	FY100.050	0	0		



Presetting for Start.2	Code		
Presetting unit + 4 rods	FJ120.0100	Х	
Measuring tool shank Ø 6	FJ120.5060	0	1
Measuring tool shank Ø 8	FJ120.5080	0	l l
Measuring tool shank Ø 10	FJ120.5100	0	ĩ
Measuring tool shank Ø 12	FJ120.5120	0	4
Measuring tool shank Ø 14	FJ120.5140	0	
Measuring tool shank Ø 16	FJ120.5160	0	
Measuring tool shank Ø 18	FJ120.5180	0	
Measuring tool shank Ø 20	FJ120.5200	0	
Measuring tool shank Ø 25	FJ120.5250	0	
Measuring tool shank Ø 32	FJ120.5320	0	
Presetting for Fi-6			
Presetting unit + 4 rods + ruler + indicator + one set of guides and guides holder	FJ160.0100	x	
Presetting guides holder	FJ150.8000	х	
Adapter for ISO / BT30 presetting	FJ150.2030	0	
Adapter for ISO / BT40 presetting	FJ150.2040	0	
Adapter for ISO / BT45 presetting	FJ150.2045	0	
Adapter for ISO / BT50 presetting	FJ150.2050	0	
Tool guide Ø 6	FJ150.6060	Х	
Tool guide Ø 8	FJ150.6080	Х	
Tool guide Ø 10	FJ150.6100	Х	3
Tool guide Ø 12	FJ150.6120	Х	1
Tool guide Ø 14	FJ150.6140	0	
Tool guide Ø 16	FJ150.6160	Х	
Tool guide Ø 18	FJ150.6180	0	
Tool guide Ø 20	FJ150.6200	Х	
Tool guide Ø 25	FJ150.6250	0	10
Tool guide Ø 32	FJ150.6320	0	
Ruler 300 mm	FJ150.9990	Х	1
Dial indicator	FJ150.9991	Х	
Common replacement parts			
«compact» rod	FT500.110	0	
«standard» & «for molds range» rod	FT500.120	0	
Rod «length 120 mm»	FT500.125	0	
Rod «length 160 mm»	FT500.130	0	

x = standard o = option





### Key benefits of THERMO Shrink-fit:

Unlike more traditional tool clamping systems, Shrink-fit toolholding employs heating and cooling properties of steel in order to achieve superior clamping force. Inside diameter of the toolholder is precisely manufactured to be slightly smaller than the shank diameter of the cutting tool at the room temperature.

Using shrink-fit machine, heat is applied to the toolholder allowing it to expand so that the cutting tool can fit in. Upon cooling down, toolholder contracts to its original dimension the cutting tool.

This clamping system allows for certain benefits not found in more traditional clamping:

- Superior tool runout monobloc toolholder, without clamping elements (bolts, nuts, etc.)
- Higher rigidity tool shank is gripped 360 deg., through the whole bore length
- Straightforward operation fast tool change, less accessories required
- Increased tool life better chip load distribution along the cutting edge
- Easier workpiece approach thinner profile, reduced nose diameter, various toolholder lengths
- Enhanced reach with use of cylindrical shrink fit extensions
- **Internal coolant supply** delivering coolant through the toolholder to the tool edge for better chip removal and superior surface finish.
  - Coolant ports sealable using M4 screws.
  - High pressure nozzles for better coolant direction at higher rpm.
- Extended spindle life tool holders fine balanced G2.5 at 25 000 rpm or more.
- **Costs saving** higher machine productivity due to stable operation, increased feeds and speeds and cutting depths.

SAB has two decades worth of experience in supplying customers around the world with only top-quality Shrink fit toolholders.

### More information at www.sab.hr





Find additional information and product catalogues

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