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The **SFU.332.FS – Fast & Safe** made by Mickros Plus, represents the evolution and synthesis between the Magnetic Induction Shrinking Unit MCT 332 EVO and URR.01 Rapid Cooling Unit.

TECHNICAL FEATURES AND ADVANTAGES

SHRINK FIT

The device is equipped with:

- a pneumatic rod which allows to operate by disengaging from manually supporting the magnetic induction coil.
- the positioning of the magnetic induction coil on the shrinking point can be controlled with the utmost precision by means of an up / down control lever located on the operating surface of the machine,
- the shrinking is done in a simple and intuitive way.
 By means of a Start button, power is supplied to the coil and the toolholder is heated.

How it works:

- The process takes place in a few seconds with a variable time according to the different mass of steel present on the walls of the coupling hole of the toolholder used.
- As soon as the tool is inserted into the hole of the toolholder, the power supply is suspended.
- Within a few seconds the Grip phase for tool tightening begins.





COOLING

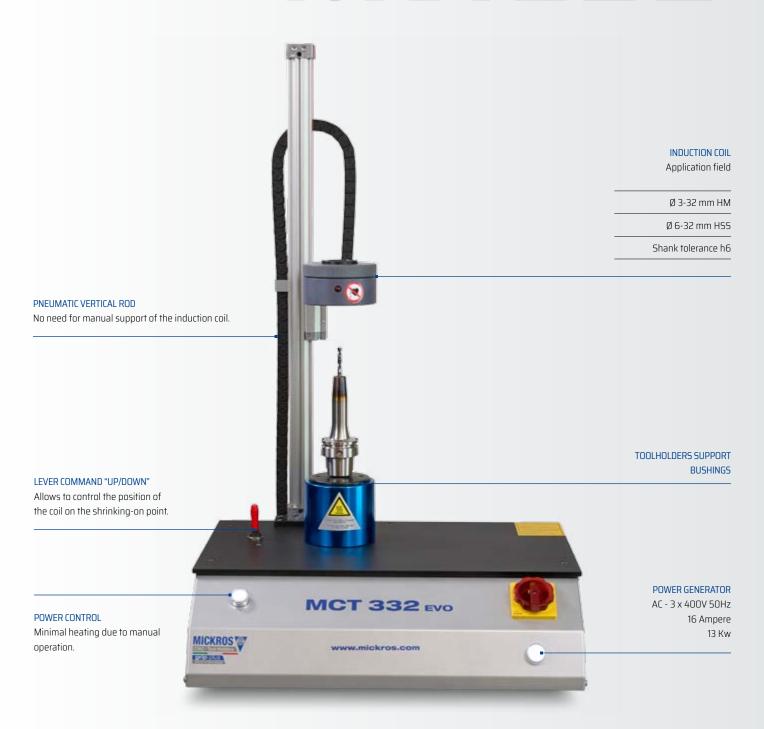
Safety:

- The Rapid Cooling Device is integrated into the machine, allows you to activate the cooling cycle in complete safety without manual movement of the toolholder and is activated by means of a manual start button.
- At the end of the timed cooling cycle, the toolholder will be automatically repositioned on the completely cooled machine surface and in a condition to be handled in TOTAL SAFETY.
- The cooling time, predefined by a timer, is calibrated to cool the toolholders with more critical mass in the heating zone and to obtain maximum safety in the subsequent removal operation.

Advantages:

- The Rapid Cooling device is completely pneumatic, everything is managed by a pneumatic control unit which is located inside the machine.
- The obvious characteristics of ease of use and maintenance, economy and safety guarantee cooling effectiveness and unique reliability over time.

MCT332



FIELD OF WORK

Maximum stroke of the vertical rod: h=600 mm



Dimensions:

approx. 600 x 550 x 990 mm

Weight:

approx. 31 Kg



The MCT 332 EVO is the fastest heat shrinking appliance for HSS and HM tools. The shrinking-on system is currently considered the best tool-holder system available on the market.

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Advantages:

- It allows higher concentricity precision
- Stronger clamping force between the tool and the toolholder
- · Shrink fit in a very short time
- · Excellent cost effectiveness
- Short amortization period
- Use of all tapers due to simple adapter system
- Clear operating panel
- suitable for use in maximum safety
- No heating of the taper
- No heating of the tool
- Minimal heating due to manual operation
- · Long life of the toolholder
- Short cooling time
- No problems with data chips (Balluff)
- No magnetizations of tools



HAND LEVER

The maximum cooling time of 30 seconds, can be stopped manually.

Uses a mixture of air/protective emulsion.
Rapidly cool the tool-holder.
It is not damaged by corrosive agents
after every shrinking cycles.

No electrical power. It uses only compressed air (6 bars). Easy to use, cheap and safe. Maintenance operations can be easily performed on it.



Dimensions:

approx. 360 x 480 x 690 mm

Weight:

approx. 27 Kg





The **URR EVO** represents the unique cooling technology that allows to keep the structure and characteristics of the toolholders constant over time and without structural deformations.

TECHNICAL FEATURES AND ADVANTAGES

How it works:

- No electrical power
- It uses only compressed air (6 bars)
- Easy to use, cheap and safe. Maintenance operations can be easily performed on it
- Uses a mixture of air-protective emulsion
- Rapidly cool the tool-holder
- It is not damaged by corrosive agents after every shrinking cycles

Cooling the tool-holder does not involve the shrink fit

- Safe and clean cooling
- It does not engage the shrink fit machine in cooling operation
- Can therefore be used for a higher number of shrinking cycles in time unit





Shrink fit machine accessories



RCT DIS ... Shrink fit shelding disks



ACT BSP ...
Toolholders support bushings



ACT GUA

Protective gloves
for high temperature



ACT PBM
Half-round longnose
pliers bent to a 45°
angle



ACT 16A

Reducer plug

From 4 pole 16 Ampere

To 5 pole 16 Ampere

Cooling unit accessories



AUR LPR
Protective
cooling liquid



AUR HSK HSK toolholders support bushing (for URR EVO)



AUR TSP Spiral hose with gun (for URR EVO)



AUR TSA
Spiral hose for main
air connection
(for URR EVO)

Termokurczliwe Uchwyty Narzędziowe Maszyny

SHRINK FIT TOOLHOLDERS



- Chuck Body Fine Balanced G 2,5 - 25.000 Rpm - Or U< 1 gmm
- Run Out < 3 micron

CTO standard Similar to Din 69882-8













HSK DIN 69893

ISO 7388-1 DIN 69871

ISO 7388-2 MAS 403 BT-JIS B 6339

Similar ISO 7388-2 FACE CONTACT

HSK-A (A+C)	HSK-E	HSK-F	SKB (AD+AF)	BTB (JD+JF)	BTC (JD)
HSK-A40	HSK-E40	-	SKB-40	BTB-40	BTC-40
HSK-A50	HSK-E50	-	SKB-50	BTB-50	-
HSK-A63	HSK-E63	HSK-F63	-	+	-
HSK-A100	-	-	-		-

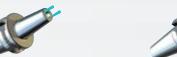
^{*} With coolant channels "ON REQUEST"

CTW with coolant channels Similar to Din 69882-8











HSK DIN 69893

ISO 7388-1 DIN 69871

ISO 7388-2 MAS 403 BT-JIS B 6339

Similar ISO 7388-2 FACE CONTACT

HSK-A (A+C)	SKB (AD+AF)	BTB (JD+JF)	BTC (JD)
HSK-A63	SKB-40	BTB-40	BTC-40
-	SKB-50	-	-

Termokurczliwe Uchwyty Narzędziowe Maszyny



SHRINK FIT TOOLHOLDERS

CTF 4,5° for finishing Slim - 4,5°











HSK DIN 69893

ISO 7388-1 DIN 69871

ISO 7388-2 MAS 403 BT-JIS B 6339

HSK-A (A+C)	HSK-E	HSK-F	SKB (AD+AF)	BTB (JD+JF)
-	HSK-E32	-	-	-
HSK-A40	HSK-E40	-	SKB-40	BTB-40
HSK-A50	HSK-E50	-	-	-
HSK-A63	HSK-E63	HSK-F63	-	-

CTF 3° Slim - 3° suitable for the Mold / 3 mm wall thickness











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HSK-A (A+C)	HSK-E	SKB (AD+AF)	BTB (JD+JF)	BTC (JD)
-	HSK-E40	SKB-40	BTB-40	BTC-40
-	HSK-E50	-	-	-
HSK-A63	-	-		-

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Termokurczliwe Uchwyty Narzędziowe Maszyny

SHRINK FIT TOOLHOLDERS



CTP suitable to use with extensions and reductions







ISO 7388-1 DIN 69871

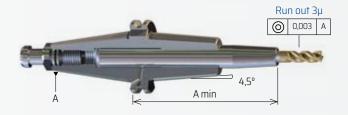


ISO 7388-2 MAS 403 BT-JIS B 6339



Similar ISO 7388-2 FACE CONTACT

	HSK-A (A+C)	SKB (AD+AF)	BTB (JD+JF)	BTC (JD)	
HSK-A63		SKB-40	BTB-40	BTC-40	
	HSK-A100	SKB-50	BTB-50	-	





CIL extensions and reductions













CTO standard	СТР	CTF 3°	CTR 3°	MDO - MDR	ERM	
SHRINK-FIT EXTENSION	SHRINK-FIT EXTENSION	SHRINK-FIT EXTENSION	LONG HEAVY DUTY REDUCTIONS	EXTENSIONS for THREADED TYPE CUTTER	EXTENSION COLLET CHUCKS ER mini DIN 6499	
	• without back-up screw	3° slope at the top3 mm wall thicknesssuitable for the mold	3° slope at the top3 mm wall thicknesssuitable for the mold	• special steel shrinking	• special steel shrinking	

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