SHRINKING TECHNOLOGY

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→ TSI 3510

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INDUCTIVE SHRINKING TECHNOLOGY

FIRST OPERATION: SHRINKING, THEN MILLING

with conventional chucking methods from the past. has developed a complete new Adaptor-System: What counts? Absolute concentricity and highest precision. DuoPlug® a combination of screwing and shrinking.

secures also a safe load transmission and an extremely adaptors and roughing with High Speed Technology. high torque- and balance quality. Its capability for extended revolutions is the best assumption for getting Pokolm-Voha offers for Shrinking Technology a highly optimum surface quality in order to save expensive finish processes.

Compared with usual Milling Chucks, Shrinking Arbors allow distinctly slim adaptors and extend the variety of applications, which would be impossible without this most modern process.

C Shrinking Technology convinces everybody compared For applications with extended requirements, POKOLM This unique and patent protected technology secures This guarantees much longer tool life. Shrinking Technology absolute concentricity and rigidity – also with long reach

qualified range:

- ⊕ a top-class Induction Shrinking Unit
- Shrinking arbors for all possible machine connections
- our Milling Cutter Bodies DuoPlug
- ⊙ our Solid Carbide Adaptors DuoPlug[®]
- ⊕ our "zero-reach" Shrinking Arbors (additional information about the POKOLM DuoPlug System can be found under chapter "Milling Cutter Bodies" of our catalogue.)



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INDUCTION SHRINKING UNIT TSI 3510

FAST SHRINKING PROCESSES FOR SOLID CARBIDE TOOLS IN ADEQUATE TOOL HOLDERS



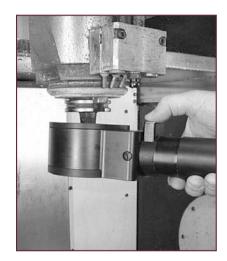
- maximum safety
- ⊕ concentricity up to 0.003 mm
- $\ \, \odot \ \, \text{safe load transmission}$
- $_{\odot}$ extremely high torque
- ⊕ high balance quality

The latest POKOLM Induction Shrinking Unit TSI 3510 offers to all users a most modern unit with an output of 3,5 KW and offers a large range of advantages too. Most important: rapidly reduced time consumption for all shrinking processes. This helps to reduce your set-up times and costs to an absolute minimum. Through this Inductive Technology, the arbor is quickly treated by uniformly distributed heat.

Tools and Shrinking Unit stay cool. This guarantees a maximum of precision and safety. A removable hand-operating unit allows shrink-grip and shrinking-release processes outside the unit on your machining centre or in vices, reducing even more set-up times.

The unit needs no time for setting-up or maintenance. Simple and ergonomic handling, integrated cooling equipment and sufficient efficiency are further important highlights, influencing your decision for future-oriented investments.

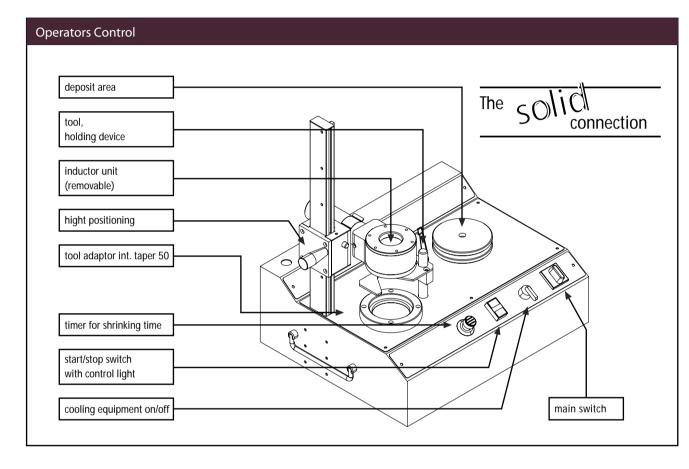
Our latest DuoPlug® Arbor and Milling Head System is easily handled by removable Shrinking Head outside the unit.



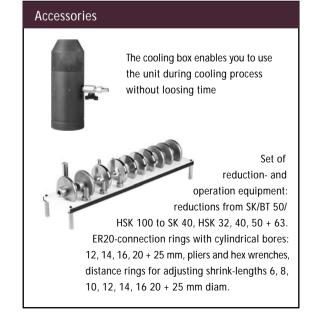




TECHNICAL DATA



Technical Data		
designation	TSI 3510	
output	3.5 KW	
main voltage	230 V, 50 / 60 Hz, 16 A	
system of protection	IP 40	
max. arbor diameter	45 mm	
max. heating zone	40 mm	
max. operation time	30 sec	
pre-adjustment timer		
time	0 - 30	
unit	seconds	
mode	С	
dimensions	I 555, w 450, h 200 mm	
weight	35 kilos	



→ PRODUCTINFORMATION TSI 3510

SUITABLE ARBOR CONNECTIONS

FOR SHRINKING PURPOSES

 \odot for shrinking shank diameters of 3 up to 36 mm Ø

OKOLM-Shrinking Arbors are suitable for all existing machine connections. The offered variety of reach-lengths secures optimum rigidity also under extremely difficult cutting conditions.

HSC

POKOLM-Shrinking Arbor Systems are produced with maximum accuracy, exact concentricity and are inspected under adequate conditions.











with international taper shanks	with hollow taper shanks	with morse taper shanks	with short taper system
sizes:	sizes:	sizes:	sizes:
SK 40	HSK 32 HSK 80	MTS 2	KK 3
SK 50	HSK 40 HSK 100	MTS 3	KK 4
	HSK 50	MTS 4	KK 5
	HSK 63	MTS 5	
style:	style:	style:	style:
DIN 2080	DIN 69893	DIN 228 B	works standard
DIN 69871 A			
MAS BT	forms:		
	A, C, EC, E, F		

Please find detailed information about Pokolm-Arbors and Adaptors in our current main catalogue, chapter "Arbors and Adaptors".

POKOLM DuoPlug * - THE COMBINATION CLAMPING SYSTEM

DuoPlug [®] SCREW FIRST, THEN SHRINK! ⊕ threads between M 5 and M 16

orld wide unique and patent protected:
revolutionary gripping system: a combination of screwing and shrinking!
For maximum accuracy, exact concentricity, extreme rigidity, especially with long reach and high-speed milling processes!



DuoPlug® -Solid Carbide Adaptors convince everybody: it ensures safe milling operations – even at unattended machining.



POKOLM DuoPlug® System offers absolute backlash-free connections. High performance roughing operations with safe load transmission





Shank diameters d ₂ mm:			
Ø 12 mm	Ø 16 mm	Ø 20 mm	Ø 25 mm
reach mm:	reach mm:	reach mm:	reach mm:
20 up to 40	25 up to 150	25 up to 150	25 up to 175
thread mm:	thread mm:	thread mm:	thread mm:
M 5, M 7	M 5, M 7, M 10	M 12	M 16

Please find detailed information about Pokolm-Arbors and Adaptors in our current main catalogue, chapter "Arbors and Adaptors".

