



STANDARD TSM -SERIES

The customer has the choice

between 2 technical printing units and also of converting at a later point in time to a different printing unit, saving resources. The basic "TSM" machine is always the same.

"TSM hermetic transverse doctor blade kit" for print motifs up to 520 mm in length and a print image width up to 85 mm. Ideal for long print parts with high labelling requirement.

"TSM hermetic multi-ink kit Solo" with up to 5 ink units. Major advantage: "Do-it-yourself" cliché types are usable, like the environmentally friendly plastic clichés, which are rinsed with water.

Printing unit / tampon stroke / carriage movement are optionally pneumatically driven or with servomotors.

Energy efficiency in the kinematics of doctor blade and tampon movement, plus resource-saving machine frame construction round off the successful machine concept.



< **"TSM 60/90"**
"hermetic" transverse doctor blade kit
 for print motifs up to 520 mm in length and a print image width up to 85 mm



< **"TSM 60/90"**
"hermetic" multi-ink kit Solo
 with up to 5 ink units

TECHNOLOGY see page 4-7

THE COMBINATION



^ **"TSM 60/90"** with "hermetic" transverse doctor blade kit - replaces our TSQ series



^ **"TSM 60/90"** with "hermetic" multi-ink kit Solo



^ **"TSM 60/90"** with "hermetic" multi-ink kit Solo

TSM		TSM 60/90 Universal	TSM 60/90 Universal	TSM 60/90 Universal	TSM 60/90 Universal
Basic machine, Article No.		25 63 00	25 63 00	25 63 00	25 63 00
Machine version					
Printing carriage forward/backward		pneumatic/pneumatic	servo/servo	pneumatic/servo	servo/pneumatic
Pressure tappet up/down					
Ink distributing unit "Solo"		2x Ø 60 - 2 colours - 5"	2x Ø 60 - 2 colours - 5"	2x Ø 60 - 2 colours - 5"	2x Ø 60 - 2 colours - 5"
		3x Ø 60 - 3 colours - 5"	3x Ø 60 - 3 colours - 5"	3x Ø 60 - 3 colours - 5"	3x Ø 60 - 3 colours - 5"
		4x Ø 60 - 4 colours - 5"	4x Ø 60 - 4 colours - 5"	4x Ø 60 - 4 colours - 5"	4x Ø 60 - 4 colours - 5"
		5x Ø 60 - 5 colours - 5"	5x Ø 60 - 5 colours - 5"	5x Ø 60 - 5 colours - 5"	5x Ø 60 - 5 colours - 5"
		2x Ø 90 - 2 colours - 6,25"	2x Ø 90 - 2 colours - 6,25"	2x Ø 90 - 2 colours - 6,25"	2x Ø 90 - 2 colours - 6,25"
		3x Ø 90 - 3 colours - 6,25"	3x Ø 90 - 3 colours - 6,25"	3x Ø 90 - 3 colours - 6,25"	3x Ø 90 - 3 colours - 6,25"
		4x Ø 90 - 4 colours - 6,25"	4x Ø 90 - 4 colours - 6,25"	4x Ø 90 - 4 colours - 6,25"	4x Ø 90 - 4 colours - 6,25"
Ink residue pick-up system		option	option	option	option
Single cycle		yes	yes	yes	yes
Multiple printing		yes	yes	yes	yes
Piece counter		yes	yes	yes	yes
Variable speed control		yes	yes	yes	yes
Cycles/hour for version "Solo"		200 - 1.300 with continuous run 1.300 with single printing (Start/Stop mode) 650 with double printing (Start/Stop mode) 430 with triple printing (Start/Stop mode)	200 - 1.300 with continuous run 1.300 with single printing (Start/Stop mode) 650 with double printing (Start/Stop mode) 430 with triple printing (Start/Stop mode)	200 - 1.300 with continuous run 1.300 with single printing (Start/Stop mode) 650 with double printing (Start/Stop mode) 430 with triple printing (Start/Stop mode)	200 - 1.300 with continuous run 1.300 with single printing (Start/Stop mode) 650 with double printing (Start/Stop mode) 430 with triple printing (Start/Stop mode)
Ink/doctoring cup	Ø mm	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90	max. 5x 60 / 4x 90
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version "Solo" DepthxWidth	mm	max. 5x 140 x 70 or 4x 215 x 100	max. 5x 140 x 70 or 4x 215 x 100	max. 5x 140 x 70 or 4x 215 x 100	max. 5x 140 x 70 or 4x 215 x 100
Print image size, version "Solo"	Ø mm	max. 5x 55 / 4x 85	max. 5x 55 / 4x 85	max. 5x 55 / 4x 85	max. 5x 55 / 4x 85
Variable tampon stroke onto workpiece	mm	10 - 70	10 - 80	10 - 80	10 - 70
Variable tampon stroke onto cliché	mm	10 - 130	10 - 120	10 - 120	10 - 130
Tampon installation height, version "Solo"	mm	87 / 98	87 / 98	87 / 98	87 / 98
Force of pressure, machine (with 6 bar) max.	N	3.000	3.500	3.500	3.000
Drive		electropneumatic	servo-mechanic	electropneumatic servo-mechanic	servo-mechanic electropneumatic
Connected load	kW	0,5	16	16	16
Power supply (special voltage possible)	V/phase	230V - 1/N/PE	400V - 3/N/PE	400V - 3/N/PE	400V - 3/N/PE
Interface		D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole	D-SUB 37-pole
Power frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60
Control		PLC	PLC	PLC	PLC
Control voltage	V/DC	24	24	24	24
Prefuse	A	16	16	16	16
Pneumatic supply fine filter 5 µm	bar	6	6	6	6
Air consumption	NL	17	5	17	5
Width	mm	710 - 1.145 depending on version	710 - 1.145 depending on version	710 - 1.145 depending on version	710 - 1.145 depending on version
Depth	mm	1.140	1.140	1.140	1.140
Height	mm	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand	910 without stand 1.710 with stand
Weight	approx. kg	400 - 1.050 depending on version	400 - 1.050 depending on version	400 - 1.050 depending on version	400 - 1.050 depending on version

→ Special feature: The ink distributing unit!
Options for the very same basic machine
→ See page 6-7