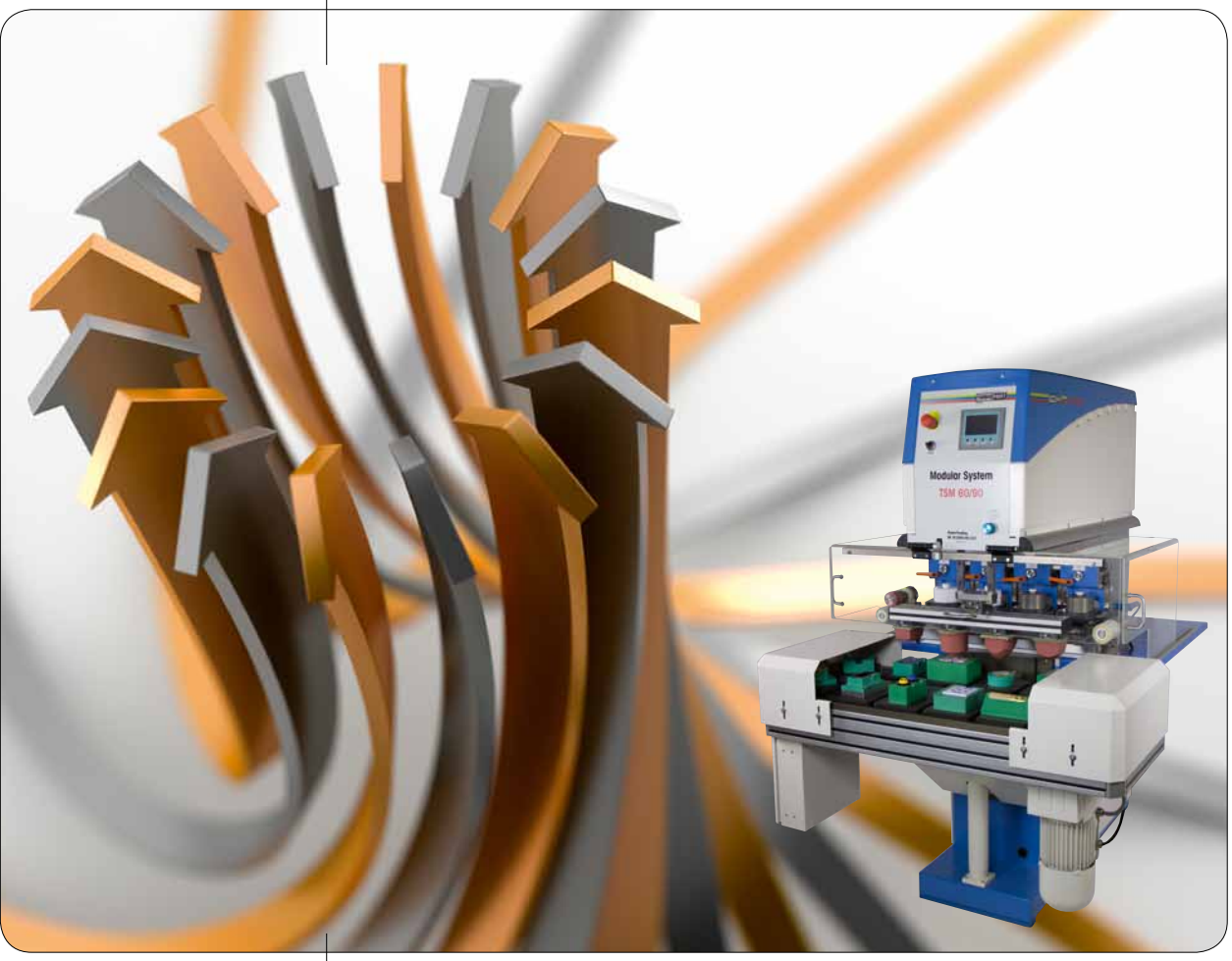
TSM PAD PRINTING MACHINES



PAD PRINTING MACHINES
ACCESSORIES
SERVICE

The flexible series pad printing machine

Ideal for the change from open systems, TTG/TSG and TSQ

Stand-alone workplace with option for semi-automation

technologies for your future
made in germany

ORIGINAL
TAMPOPRINT®

Pad Printing Machines
ALFALAS® Laser Systems
Automations

THE COMBINATION

Now it is the customer's choice
to select one of two typographic units. The basic machine "TSM" always remains the same with the kit being freely selectable and perfectly in line with the requirements of the printing unit, print image as well as production output. Each printing unit as well as pad lift and carriage movement can be provided as a pneumatic or servomechanical drive kit.

"TSM - hermetic transverse doctor blade kit"
for print motifs up to a length of 520 or 650 mm and a print image up to 80 or 130 mm wide. The special feature here is that it is able to handle extremely large or very long print images on one and the same printing unit in just one printing pass. It is ideally suited for long printing parts that require a lot of print. There is either the option of using one colour (1 ink/doctoring cup) or operating with 2 contradirectionally acting ink/doctoring cups, which provides for application of 2 colours in one printing pass.

"TSM - hermetic multiple colour kit Solo"
provides up to 5 colour units in doctoring cup sizes 60 or 130 mm and 2 - 4 colour units in doctoring cup sizes Ø 90 or 150 mm. Even serially arranged motifs are possible. This enables individual motif changes (printing plate exchange) or colour changes and adjustment via precision table. A big advantage: You can insert all do-it-yourself printing cliché types such as e.g. the environmentally friendly plastic plates that can be rinsed off with water.

Versions with servomechanical drive are characterized by a very high number of cycles and a very high force of pressure. Energy-efficient cinematics in doctor or pad movement and a resource-saving machine frame construction round off the successful machine concept.

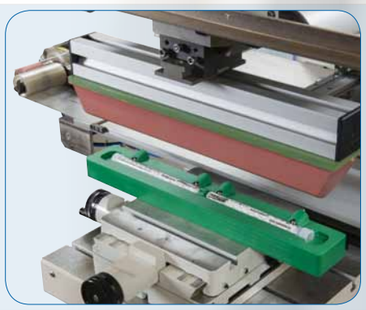
"TSM 60/90
hermetic transverse doctor kit"

"TSM 60/90
hermetic multiple colour kit Solo"

"TSM 130
hermetic transverse doctor kit"

"TSM 130
hermetic multiple colour kit Solo"

"TSM 60/90 hermetic transverse doctor kit" with "ink residue pick-up system"



"TSM 130 hermetic transverse doctor kit" with "ink residue pick-up system"

"TSM 60/90 hermeticmultiple colour kit Solo" with" ink residue pick-up system

"TSM 60/90 hermetic multiple colour kit Solo" 4-colour printing

"TSM 60/90 hermetic multiple colour kit Solo" ink distributing units

TECHNOLOGY | TSM 60/90 HERMETIC MULTIPLE COLOUR KIT SOLO -SERIES

TSM		TSM 60/90 "hermetic" multiple colour kit Solo	TSM 60/90 "hermetic" multiple colour kit Solo	TSM 60/90 "hermetic" multiple colour kit Solo	TSM 60/90 "hermetic" multiple colour kit Solo
Basic machine, Item No.		**25 63 00**	**25 63 00**	**25 63 00**	**25 63 00**
Machine version **Printing carriage forward / backward** **Pressure tappet up / down**		pneumatic/pneumatic	servo/servo	pneumatic/servo	servo/pneumatic
Ink distributing unit "Solo"		2x Ø 60 - 2 colours - 5" 3x Ø 60 - 3 colours - 5" 4x Ø 60 - 4 colours - 5" 5x Ø 60 - 5 colours - 5" 2x Ø 90 - 2 colours - 6,25" 3x Ø 90 - 3 colours - 6,25" 4x Ø 90 - 4 colours - 6,25"	2x Ø 60 - 2 colours - 5" 3x Ø 60 - 3 colours - 5" 4x Ø 60 - 4 colours - 5" 5x Ø 60 - 5 colours - 5" 2x Ø 90 - 2 colours - 6,25" 3x Ø 90 - 3 colours - 6,25" 4x Ø 90 - 4 colours - 6,25"	2x Ø 60 - 2 colours - 5" 3x Ø 60 - 3 colours - 5" 4x Ø 60 - 4 colours - 5" 5x Ø 60 - 5 colours - 5" 2x Ø 90 - 2 colours - 6,25" 3x Ø 90 - 3 colours - 6,25" 4x Ø 90 - 4 colours - 6,25"	2x Ø 60 - 2 colours - 5" 3x Ø 60 - 3 colours - 5" 4x Ø 60 - 4 colours - 5" 5x Ø 60 - 5 colours - 5" 2x Ø 90 - 2 colours - 6,25" 3x Ø 90 - 3 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					
continuous run		200 - 1.300	200 - 1.300	200 - 1.300	200 - 1.300
single printing (Start/Stop mode)	**max.**	1.300	1.300	1.300	1.300
double printing (Start/Stop mode)		650	650	650	650
triple printing (Start/Stop mode)		430	430	430	430
Ink/doctoring cup size	**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" **Depth x Width**	**mm**	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100	5x 140 x 70 4x 215 x 100
Print image size, version "Solo"	**Ø mm**	5x 55 / 4x 85	5x 55 / 4x 85	5x 55 / 4x 85	5x 55 / 4x 85
Variable pad stroke onto workpiece	**mm**	10 - 70	10 - 80	10 - 80	10 - 70
Variable pad stroke onto cliché	**mm**	10 - 130	10 - 120	10 - 120	10 - 130
Pad 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 mechanical	electropneumatic servo mechanical	servo mechanical 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)

TECHNOLOGY | TSM 130 "HERMETIC" MULTIPLE COLOUR KIT SOLO

TSM		TSM 130 "hermetic" multiple colour kit Solo	TSM 130 "hermetic" multiple colour kit Solo	TSM 130 "hermetic" multiple colour kit Solo	TSM 130 "hermetic" multiple colour kit Solo
Basic machine, Item No.		**25 65 00**	**25 65 00**	**25 65 00**	**25 65 00**
Machine version **Printing carriage forward / backward** **Pressure tappet up / down**		pneumatic/pneumatic	servo/servo	pneumatic/servo servo pneumatic	servo/pneumatic pneumatic servo
Ink distributing unit "Solo"		2x Ø 130 - 2 colours - 8,75" 3x Ø 130 - 3 colours - 8,75" 4x Ø 130 - 4 colours - 8,75" 5x Ø 130 - 5 colours - 8,75" 2x Ø 150 - 2 colours - 10" 3x Ø 150 - 3 colours - 10" 4x Ø 150 - 4 colours - 10"	2x Ø 130 - 2 colours - 8,75" 3x Ø 130 - 3 colours - 8,75" 4x Ø 130 - 4 colours - 8,75" 5x Ø 130 - 5 colours - 8,75" 2x Ø 150 - 2 colours - 10" 3x Ø 150 - 3 colours - 10" 4x Ø 150 - 4 colours - 10"	2x Ø 130 - 2 colours - 8,75" 3x Ø 130 - 3 colours - 8,75" 4x Ø 130 - 4 colours - 8,75" 5x Ø 130 - 5 colours - 8,75" 2x Ø 150 - 2 colours - 10" 3x Ø 150 - 3 colours - 10" 4x Ø 150 - 4 colours - 10"	2x Ø 130 - 2 colours - 8,75" 3x Ø 130 - 3 colours - 8,75" 4x Ø 130 - 4 colours - 8,75" 5x Ø 130 - 5 colours - 8,75" 2x Ø 150 - 2 colours - 10" 3x Ø 150 - 3 colours - 10" 4x Ø 150 - 4 colours - 10"
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					
continuous run		200 - 800	600 - 1.300	200 - 800	600 - 1.200
single printing (Start/Stop mode)	**max.**	800	1.200	800	1.200
double printing (Start/Stop mode)		400	650	400	600
triple printing (Start/Stop mode)		270	430	270	400
Ink/doctoring cup size max.	**Ø mm**	max. 5x 130 / 4x 150	max. 5x 130 / 4x 150	max. 5x 130 / 4x 150	max. 5x 130 / 4x 150
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version "Solo" **Depth x Width max.**	**mm**	5x 300 x 150 4x 350 x 160	5x 300 x 150 4x 350 x 160	5x 300 x 150 4x 350 x 160	5x 300 x 150 4x 350 x 160
Print image size, version "Solo"	**Ø mm**	5x 120 / 4x 140	5x 120 / 4x 140	5x 120 / 4x 140	5x 120 / 4x 140
Variable pad stroke onto workpiece	**mm**	20-100	20-100	20-100	20-100
Variable pad stroke onto cliché	**mm**	20-160	20-160	20-160	20-160
Pad installation height, version "Solo"	**mm**	120	120	120	120
Force of pressure, machine (with 6 bar) max.	**N**	4.500 / 7.300	7.500	4.500 / 7.300	7.500
Drive		electropneumatic	servo mechanical	electropneumatic servo mechanical	servo mechanical electropneumatic
Connected load	**kW**	0,5	6	1,5	5
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	32	16	32
Pneumatic supply fine filter 5 µm	**bar**	6	6	6	6
Air consumption	**NL**	34 / 45	4	28 / 39	10
Width	**mm**	1.000 - 1.434 (depending on version)	1.000 - 1.434 (depending on version)	1.000 - 1.434 (depending on version)	1.000 - 1.434 (depending on version)
Depth	**mm**	1.560	1.560	1.560	1.560
Height	**mm**	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand
Weight	**approx. kg**	1.000 (depending on version)	1.000 (depending on version)	1.000 (depending on version)	1.000 (depending on version)

TSM 60/90 HERMETIC TRANSVERSE DOCTOR KIT -SERIES

TSM		TSM 60/90 "hermetic" transverse doctor kit	TSM 60/90 "hermetic" transverse doctor kit	TSM 60/90 "hermetic" transverse doctor kit	TSM 60/90 "hermetic" transverse doctor kit
Basic machine, Item No.		**25 63 00**	**25 63 00**	**25 63 00**	**25 63 00**
Machine version **Printing carriage forward / backward** **Pressure tappet up / down**		pneumatic/pneumatic	servo/servo	pneumatic/servo	servo/pneumatic
Ink distributing unit "transverse doctor blade"	**mm**	Ø 60 - 1-coloured Ø 90 - 1-coloured Ø 90 - 2-coloured	Ø 60 - 1-coloured Ø 90 - 1-coloured Ø 90 - 2-coloured	Ø 60 - 1-coloured Ø 90 - 1-coloured Ø 90 - 2-coloured	Ø 60 - 1-coloured Ø 90 - 1-coloured Ø 90 - 2-coloured
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 **continuous run** **single printing (Start/Stop mode)** **double printing (Start/Stop mode)** **triple printing (Start/Stop mode)**	**max.**	 200 - 1.000 1.000 420 310	 200 - 1.100 1.100 450 330	 200 - 1.100 1.100 450 330	 200 - 1.000 1.000 420 310
Ink/doctoring cup size	**Ø mm**	42 / 60 / 90	42 / 60 / 90	42 / 60 / 90	42 / 60 / 90
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version "transverse doctor blade" **Depth x Length**	**mm**	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800	70 x 350 / 510 / 710 100 x 440 / 600 / 800
Cliché size, version "transverse doctor blade" - 2C", **Depth x Length**	**mm**	2x 100 x 380	2x 100 x 380	2x 100 x 380	2x 100 x 380
Print image size, version "transverse doctor blade" **Depth x Length max.**	**mm**	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520	50 x 180 / 340 / 450 80 x 160 / 320 / 520
Print image size, version "transverse doctor blade" - 2C", Depth x Length max.	**mm**	2x 80 x 190	2x 80 x 190	2x 80 x 190	2x 80 x 190
Variable pad stroke onto workpiece	**mm**	10 - 70	10 - 80	10 - 80	10 - 70
Variable pad stroke onto cliché	**mm**	10 - 130	10 - 120	10 - 120	10 - 130
Pad installation height, **version "transverse doctor blade"**	**mm**	150	150	150	150
Pad installation height, **version "transverse doctor blade" - 2C"**	**mm**	110	110	110	110
Force of pressure machine (with 6 bar) max.	**N**	3.000	3.500	3.500	3.000
Drive		electropneumatic	servo mechanical	electropneumatic servo mechanical	servo mechanical 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)

TECHNOLOGY | TSM 130 HERMETIC TRANSVERSE DOCTOR KIT -SERIES

TSM		TSM 130 "hermetic" transverse doctor kit	TSM 130 "hermetic" transverse doctor kit	TSM 130 "hermetic" transverse doctor kit	TSM 130 "hermetic" transverse doctor kit
Basic machine, Item No.		**25 65 00**	**25 65 00**	**25 65 00**	**25 65 00**
Machine version **Printing carriage forward / backward** **Pressure tappet up / down**		pneumatic/pneumatic	servo/servo	pneumatic/servo servo pneumatic	servo/pneumatic pneumatic servo
Ink distributing unit "transverse doctor blade"	**mm**	Ø 130 - 1-coloured Ø 140[1] - 1-coloured	Ø 130 - 1-coloured Ø 140[1] - 1-coloured	Ø 130 - 1-coloured Ø 140[1] - 1-coloured	Ø 130 - 1-coloured Ø 140[1] - 1-coloured
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[2] **continuous run** **single printing (Start/Stop mode)** **double printing (Start/Stop mode)** **triple printing (Start/Stop mode)**	**max.**	 200 - 800 600 330 230	 600 - 1.300 950 540 380	 200 - 800 600 330 230	 600 - 1.200 900 500 350
Ink/doctoring cup size	**Ø mm**	130 / 140[1]	130 / 140[1]	130 / 140[1]	130 / 140[1]
Variable doctoring contact pressure		yes	yes	yes	yes
Cliché size, version "transverse doctor blade" **Depth x Length**	**mm**	150 x 730 / 930	150 x 730 / 930	150 x 730 / 930	150 x 730 / 930
Print image size, version "transverse doctor blade" **Depth x Length max.**	**mm**	120 x 340 / 540 / 650[3]	120 x 340 / 540 / 650[3]	120 x 340 / 540 / 650[3]	120 x 340 / 540 / 650[3]
Variable pad stroke onto workpiece	**mm**	20-100	20-100	20-100	20-100
Variable pad stroke onto cliché	**mm**	20-160	20-160	20-160	20-160
Pad installation height, **version "transverse doctor blade"**	**mm**	200	200	200	200
Force of pressure machine (with 6 bar) max.	**N**	4.500 / 7.300	7.500	7.500	7.500
Drive		electropneumatic	servo mechanical	electropneumatic servo mechanical	servo mechanical electropneumatic
Connected load	**kW**	1	6	1,5	5
Power supply **(special voltage possible)**	**V/phase**	400V/3/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	32	16	32
Pneumatic supply fine filter 5 µm	**bar**	6	6	6	6
Air consumption	**NL**	30 / 41	only for ink residue pick-up system	24 / 35	6
Width	**mm**	1.440	1.440	1.440	1.440
Depth	**mm**	1.560	1.560	1.560	1.560
Height	**mm**	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand	1.140 without stand 1.920 with stand
Weight	**approx. kg**	1.000	1.060	1.020	1.040

[1] option ink/doctoring cup Ø 140 mm
[2] for print image legth 540 mm
[3] option print image length 650 mm for park position right

Scope of supplies

- Toolkit
- Paper cups
- Brush
- Spray bottle 500 ml
- Assembly table
- Gripping tongs
- Ink/doctoring cup
- Thrust collar
- Pad coupling
- Printing pad
- Foot switch
- Documentation

Accessories & Options

- Ink residue pick-up system
- Steel base frame
- x-y cross tables
- Pad displacement
- Transfer systems
- Base frame with and without angle table
- Light curtain

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ALFALAS® ORIGINAL TAMPOPRINT® ALFA TOOLS® TP_alfa® P·M·K PAD MOULDING KIT

Dealer:

ORIGINAL TAMPOPRINT®

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9/2014