STRYKER™

Automatic Screen Printing Press

M&R

- The most versatile T-shirt and cut-piece press on the market today
- All-new index-drive system combines outstanding performance and greatly simplified design
- Oval shape makes more efficient use of available production area

M&R's Stryker is the most versatile and affordable oval screen printing press available, with pricing comparable to carousel presses of similar color capacity. Stryker's 10-station base module can be expanded in 6-station increments to create 16, 22, 28, 34, 40, 46, and 52-station configurations. Other than the end stations, there are no restrictions on printhead placement. Because all other stations can support printheads—and any station can be left open—Stryker's layout can be tailored to almost any production requirement. Since Stryker's oval shape takes up less floor space than comparable carousel automatic screen printing presses, it makes more efficient use of available production area. It also allows Stryker to fit into spots no carousel press could. Stryker 6080, 70100, and 80110 have maximum standard image areas of 60 x 84 cm (24" x 33"), 70 x 100 cm (27.5" x 39.4"), and 80 x 110 cm (31.5" x 43.5") respectively, but can print images as large as 100 x 84 cm (39" x 33"), 122 x 100 cm (48" x 39.4"), and 132 x 110 cm (52" x 43.5") in alternating printheads. The increased image area afforded by alternating printheads makes Stryker ideal for cut-pieces and all-over garments. Stryker's large color touchscreen control panel with icon-based labeling can display information and commands in multiple languages, and it features self-diagnostics and a production speed monitor to ensure more accurate job costing. The control panel sits on a caster-mounted pedestal, giving operators the ability to easily change its position. Stryker has multiple print-stroke capability, multi-print without raising the screen, and an independent print-start/print-finish setting that automatically activates and stops printheads at the beginning and end of production runs.

The Stryker automatic screen printing machine features an all-new, highly-sophisticated servo-drive index system that combines simplified design with outstanding performance and reduced maintenance. Stryker's smooth, high speed operation and precise control make it possible to achieve exceptional index speeds. Stryker also incorporates multiple-indexing capability. Stryker's printheads are driven by fast, reliable variable-frequency AC drive motors that deliver smooth print strokes and exceptional control. Simple print-stroke adjustment promotes exceptionally high production rates. Stryker's printheads also incorporate an elegantly simple, tool-free method of adjusting off-contact at all four corners of the screen frame quickly and independently. There are independent print and reset buttons and independent print/flood speed controls on each printhead to make setup and operation fast and easy. Stryker's high-lift mode simplifies screen loading, unloading, inspection and cleaning.

Stryker boasts a multitude of impressive standard features. To help keep Stryker operating at peak performance, the Maintenance Minder™ system alerts operators when scheduled maintenance is due. M&R's Laser Locator System speeds pallet positioning and changeover, and it assists operators in the precise positioning of garments and cut-piece goods. M&R's exclusive Squeegee Dam™ system gently lowers the squeegee blade onto the screen mesh when the press is idle to help prevent thinner water-based and discharge inks from flowing into the image area. M&R's electronically adjustable Ink Dip™ ink retrieval system keeps ink in the screen printing area. Stryker's park feature facilitates setup and tear-down by simultaneously retracting the squeegee and floodbar and then moving them to the outside edge of the press for easy access. M&R's Stryker automatic oval screen printing press, with its efficient design, high production speed, and modular expandability, is simply the most versatile press on the market today.

www.mrprint.com
store.mrprint.com

STRYKER™

STANDARD FEATURES

CERTIFICATION
- CE Certified: Built to specifications established by the European Committee for Standardization® (CE)
- UL Listed: Built to specifications established by Underwriters Laboratories® (UL)

CONTROL CENTER
- Control panel is mounted on a caster-equipped pedestal
- Digital microprocessor with self-diagnostics
- Digital touchscreen control panel with icon-based labeling can display information and commands in multiple languages
- Independent print-start/print-finish setting automatically activates and stops printheads at the beginning and end of screen printing runs
- Jog-left/jog-right controls
- Maintenance Minder™ System alerts operators when scheduled maintenance is due
- Multiple (1-9) print stroke capability
- Production speed monitor ensures more accurate job costing
- Provides control of multi-print functionality
- Test print setting turns individual printheads on/off during test print cycle

DESIGN & CONSTRUCTION
- Built of heavy-duty steel and premium components
- Modular and expandable in 6-station increments
- Oval shape takes up less floor space than comparable carousel automatic screen printing presses
- Printheads and open stations can be placed in virtually any configuration
- Printheads and pallet arms provide the stability necessary for exceptional screen print quality

INDEX SYSTEM
- Servo drive offers multi-index capability
- Servo drives combine higher screen printing press speeds with exceptional smoothness, consistency, and longevity

INK DIP SYSTEM
- Electronically adjustable ink retrieval system keeps ink in the print area

LASER LOCATOR SYSTEM
- Assists operators in the precise positioning of garments and cut pieces
- Speeds pallet positioning and changeover

OFF-CONTACT
- Calibrated and tool-free four-corner off-contact settings allow fast and accurate screen leveling

PRINTHEADS
- Brushless and maintenance-free electric-drive motors deliver smooth screen print strokes and exceptional control
- Independent print and reset buttons on each printhead
- Independent print/flood speed controls on each printhead simplify screen printing press setup
- Multi-print without raising the screen
- Printhead high-lift mode simplifies screen loading, unloading, inspection and cleaning

REGISTRATION
- Enhanced front and rear micro-registration adjustments with visual guides
- Innovative pallet registration system provides exceptional accuracy

SCREEN CLAMPS & HOLDERS
- Adjustable rear screen holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without special adapters
- Pneumatic clamps hold frames tight and allow rapid screen loading

SQUEEGEE DAM
- Gently lowers the squeegee blade onto the screen mesh when the press is idle
- Helps prevent thinner water-based and discharge inks from flowing into the image area

SQUEEGEE/FLOODBAR
- Angle and calibrated pressure adjustments are independently set
- Front or rear print carriage stop position allows operator to leave screens clear or flooded (great for water-based inks)
- Independent squeegee & floodbar speed adjustments
- Park feature facilitates setup and tear-down by simultaneously retracting the squeegee and floodbar and then moving them to the outside edge of the press for easy access
- Pneumatic squeegee/floodbar clamps with tool-free angle adjustment
- Squeegee air regulator with a pressure gauge on each printhead

STROKE LENGTH ADJUSTMENT
- Calibrated front & rear stroke length with tool-free adjustment maximizes screen printing speed

WARRANTY, SERVICE AND SUPPORT
- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- Parts & supplies are available online at store.mrprint.com
- Two-year or 2,000,000-cycle limited warranty
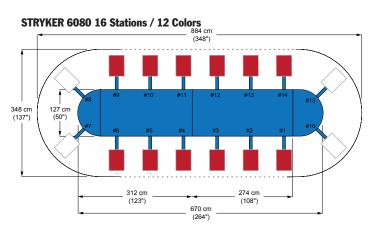
OPTIONS

FOOT PEDAL CONTROL
- Allows indexing of the press using a foot pedal
- Skip-pallet feature allows operators to avoid screen printing on empty pallets
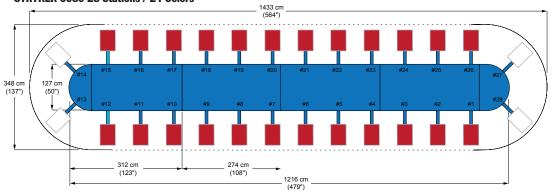
PALLETS
- M&R aluminum pallets and platens come in a wide range of sizes and styles
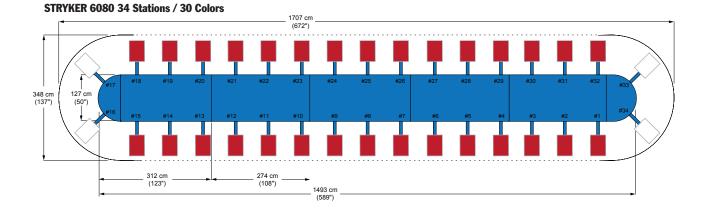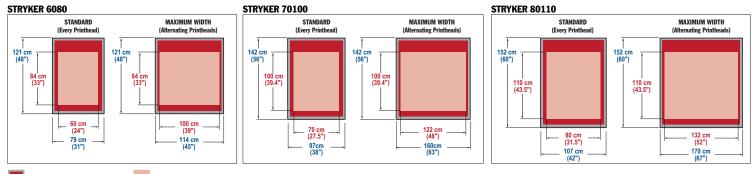
STRYKER 6080 16 Stations / 12 Colors

884 cm
(348")

348 cm
(137")

127 cm
(50")

#8 #9 #10 #11 #12 #13 #14 #15

#7 #6 #5 #4 #3 #2 #1 #16

312 cm
(123")

274 cm
(108")

670 cm
(264")

STRYKER 6080 28 Stations / 24 Colors

1433 cm
(564")

348 cm
(137")

127 cm
(50")

#14 #15 #16 #17 #18 #19 #20 #21 #22 #23 #24 #25 #26 #27

#13 #12 #11 #10 #9 #8 #7 #6 #5 #4 #3 #2 #1 #28

312 cm
(123")

274 cm
(108")

1216 cm
(479")

STRYKER 6080 34 Stations / 30 Colors

1707 cm
(672")

348 cm
(137")

127 cm
(50")

#17 #18 #19 #20 #21 #22 #23 #24 #25 #26 #27 #28 #29 #30 #31 #32 #33

#16 #15 #14 #13 #12 #11 #10 #9 #8 #7 #6 #5 #4 #3 #2 #1 #34

312 cm
(123")

274 cm
(108")

1493 cm
(589")

STRYKER 6080

STANDARD
(Every Printhead)

121 cm
(48")

84 cm
(33")

60 cm
(24")

79 cm
(31")

MAXIMUM WIDTH
(Alternating Printheads)

121 cm
(48")

84 cm
(33")

100 cm
(39")

114 cm
(45")

STRYKER 70100

STANDARD
(Every Printhead)

142 cm
(56")

100 cm
(39.4")

70 cm
(27.5")

97cm
(38")

MAXIMUM WIDTH
(Alternating Printheads)

142 cm
(56")

100 cm
(39.4")

122 cm
(48")

160cm
(63")

STRYKER 80110

STANDARD
(Every Printhead)

152 cm
(60")

110 cm
(43.5")

80 cm
(31.5")

107 cm
(42")

MAXIMUM WIDTH
(Alternating Printheads)

152 cm
(60")

110 cm
(43.5")

132 cm
(52")

170 cm
(67")

■ Maximum Frame Size   ■ Maximum Image Area

STRYKER™

SPECIFICATIONS

STRYKER 6080

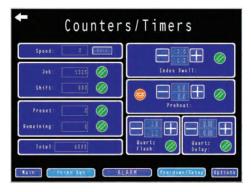| STRYKER 6080	Stryker 6080 10/6	Stryker 6080 16/12	Stryker 6080 22/18	Stryker 6080 28/24	Stryker 6080 34/30	Stryker 6080 40/36	Stryker 6080 46/42	Stryker 6080 52/48
Air @ 6,9 bar (100 psi)	442 l/min (16 cfm)	883 l/min (31 cfm)	1325 l/min (47 cfm)	1767 l/min (62 cfm)	2209 l/min (78 cfm)	2650 l/min (94 cfm)	3092 l/min (109 cfm)	3534 l/min (125 cfm)
Electrical Requirements [1]	208/230 V, 3 ph, 30 A, 50/60 Hz, 7 kW 380/415 V, 3 ph, 16 A, 50/60 Hz, 7 kW	208/230 V, 3 ph, 42 A, 50/60 Hz, 9 kW 380/415 V, 3 ph, 22 A, 50/60 Hz, 9 kW	208/230 V, 3 ph, 54 A, 50/60 Hz, 11 kW 380/415 V, 3 ph, 29 A, 50/60 Hz, 11 kW	208/230 V, 3 ph, 65 A, 50/60 Hz, 13 kW 380/415 V, 3 ph, 36 A, 50/60 Hz, 13 kW	208/230 V, 3 ph, 88 A, 50/60 Hz, 16 kW 380/415 V, 3 ph, 48 A, 50/60 Hz, 16 kW	208/230 V, 3 ph, 100 A, 50/60 Hz, 19 kW 380/415 V, 3 ph, 56 A, 50/60 Hz, 19 kW	208/230 V, 3 ph, 112 A, 50/60 Hz, 21 kW 380/415 V, 3 ph, 63 A, 50/60 Hz, 21 kW	208/230 V, 3 ph, 124 A, 50/60 Hz, 23 kW 380/415 V, 3 ph, 70 A, 50/60 Hz, 23 kW
Max. Frame Size (Alternating Printheads)	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")	114 x 121 cm (45" x 48")
Max. Image Area (Alternating Printheads)	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")	100 x 84 cm (39" x 33")
Max. Std. Frame Size	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")	79 x 121 cm (31" x 48")
Max. Std. Image Area	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")	60 x 84 cm (24" x 33")
Overall Size (L x W)	610 x 348 cm (240" x 137")	884 x 348 cm (348" x 137")	1158 x 348 cm (456" x 137")	1433 x 348 cm (564" x 137")	1707 x 348 cm (672" x 137")	1981 x 348 cm (780" x 137")	2256 x 348 cm (888" x 137")	2530 x 348 cm (996" x 137")
Stations/Colors	10/6	16/12	22/18	28/24	34/30	40/36	46/42	52/48

STRYKER 70100

STRYKER 70100	Stryker 70100 10/6	Stryker 70100 16/12	Stryker 70100 22/18	Stryker 70100 28/24	Stryker 70100 34/30	Stryker 70100 40/36	Stryker 70100 46/42	Stryker 70100 52/48
Air @ 6,9 bar (100 psi)	442 l/min (16 cfm)	883 l/min (31 cfm)	1325 l/min (47 cfm)	1767 l/min (62 cfm)	2209 l/min (78 cfm)	2650 l/min (94 cfm)	3092 l/min (109 cfm)	3534 l/min (125 cfm)
Electrical Requirements [1]	208/230 V, 3 ph, 49 A, 50/60 Hz, 10 kW 380/415 V, 3 ph, 24 A, 50/60 Hz, 10 kW	208/230 V, 3 ph, 61 A, 50/60 Hz, 12 kW 380/415 V, 3 ph, 30 A, 50/60 Hz, 12 kW	208/230 V, 3 ph, 73 A, 50/60 Hz, 14 kW 380/415 V, 3 ph, 38 A, 50/60 Hz, 14 kW	208/230 V, 3 ph, 85 A, 50/60 Hz, 16 kW 380/415 V, 3 ph, 45 A, 50/60 Hz, 16 kW	208/230 V, 3 ph, 97 A, 50/60 Hz, 18 kW 380/415 V, 3 ph, 52 A, 50/60 Hz, 18 kW	208/230 V, 3 ph, 109 A, 50/60 Hz, 21 kW 380/415 V, 3 ph, 60 A, 50/60 Hz, 21 kW	208/230 V, 3 ph, 121 A, 50/60 Hz, 23 kW 380/415 V, 3 ph, 66 A, 50/60 Hz, 23 kW	208/230 V, 3 ph, 133 A, 50/60 Hz, 25 kW 380/415 V, 3 ph, 73 A, 50/60 Hz, 25 kW
Max. Frame Size (Alternating Printheads)	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")	160 x 142 cm (63" x 56")
Max. Image Area (Alternating Printheads)	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")	122 x 100 cm (48" x 39.4")
Max. Std. Frame Size	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")	97 x 142 cm (38" x 56")
Max. Std. Image Area	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")	70 x 100 cm (27.5" x 39.4")
Overall Size (L x W)	894 x 506 cm (352" x 199")	1306 x 506 cm (514" x 199")	1717 x 506 cm (676" x 199")	2129 x 506 cm (838" x 199")	2540 x 506 cm (1000" x 199")	2951 x 506 cm (1162" x 199")	3363 x 506 cm (1324" x 199")	3774 x 506 cm (1486" x 199")
Stations/Colors	10/6	16/12	22/18	28/24	34/30	40/36	46/42	52/48

STRYKER 80110

STRYKER 80110	Stryker 80110 10/6	Stryker 80110 16/12	Stryker 80110 22/18	Stryker 80110 28/24	Stryker 80110 34/30	Stryker 80110 40/36	Stryker 80110 46/42	Stryker 80110 52/48
Air @ 6,9 bar (100 psi)	442 l/min (16 cfm)	883 l/min (31 cfm)	1325 l/min (47 cfm)	1767 l/min (62 cfm)	2209 l/min (78 cfm)	2650 l/min (94 cfm)	3092 l/min (109 cfm)	3534 l/min (125 cfm)
Electrical Requirements [1]	208/230 V, 3 ph, 49 A, 50/60 Hz, 10 kW 380/415 V, 3 ph, 24 A, 50/60 Hz, 10 kW	208/230 V, 3 ph, 61 A, 50/60 Hz, 12 kW 380/415 V, 3 ph, 30 A, 50/60 Hz, 12 kW	208/230 V, 3 ph, 73 A, 50/60 Hz, 14 kW 380/415 V, 3 ph, 38 A, 50/60 Hz, 14 kW	208/230 V, 3 ph, 85 A, 50/60 Hz, 16 kW 380/415 V, 3 ph, 45 A, 50/60 Hz, 16 kW	208/230 V, 3 ph, 97 A, 50/60 Hz, 18 kW 380/415 V, 3 ph, 52 A, 50/60 Hz, 18 kW	208/230 V, 3 ph, 109 A, 50/60 Hz, 21 kW 380/415 V, 3 ph, 60 A, 50/60 Hz, 21 kW	208/230 V, 3 ph, 121 A, 50/60 Hz, 23 kW 380/415 V, 3 ph, 66 A, 50/60 Hz, 23 kW	208/230 V, 3 ph, 133 A, 50/60 Hz, 25 kW 380/415 V, 3 ph, 73 A, 50/60 Hz, 25 kW
Max. Frame Size (Alternating Printheads)	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")	170 x 152 cm (67" x 60")
Max. Image Area (Alternating Printheads)	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")	132 x 110 cm (52" x 43.5")
Max. Std. Frame Size	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")	107 x 152 cm (42" x 60")
Max. Std. Image Area	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")	80 x 110 cm (31.5" x 43.5")
Overall Size (L x W)	894 x 526 cm (352" x 207")	1306 x 526 cm (514" x 207")	1717 x 526 cm (676" x 207")	2129 x 526 cm (838" x 207")	2540 x 526 cm (1000" x 207")	2951 x 526 cm (1162" x 207")	3363 x 526 cm (1324" x 207")	3774 x 526 cm (1486" x 207")
Stations/Colors	10/6	16/12	22/18	28/24	34/30	40/36	46/42	52/48

[1] If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available: Contact The M&R Companies for details

Digital touch-screen control panel with icon-based labeling can display information and commands in numerous languages, simplifying press operation and training anywhere in the world.

Digital display tracks production and makes it easy to manage process elements like Index Dwell, Preheat Mode, Flash Duration, and Flash Delay.