Stryker ™

Automatic Oval Screen Printing Press

M&R's Stryker sets the standard for oval format screen printing presses. Its oval design takes up less floor space than comparable carousel automatic screen printing presses, making more efficient use of the available production area. Available in three print format sizes and expandable from 10 to 52 stations with selectable printhead locations, the Stryker can be tailored to almost any production requirement, floor layout or shop size.

A high-quality, smooth-operating servo-drive indexer provides fast, accurate single or double indexing, making Stryker ideal for cut-piece and all-over-print garments. The 80110 model can print up to 132 x 110 cm (52" x 43.5") in alternating printheads!

The AC-driven printheads deliver exceptional speed and control, while tool-free squeegee/floodbar angle adjustments, calibrated four-point off-contact and quick stroke length changes allow operators to optimize setup efficiency and maximize productivity.

Innovative standard features like M&R's exclusive Squeegee Dam™ and Ink Dip™ systems are designed to keep thinner water-based and discharge inks correctly distributed in the screens for optimum printing and ink longevity. Combined with the optional fogger system, Stryker is the ultimate press for today's printing needs and inks, further strengthening its reputation as the go-to press for many of the top printers around the world.

FEATURES

- **Modular design allows custom configurations that can be tailored to almost any production requirement**

- **Available in three different print formats: 6080 (24" x 33"), 70100 (27.5" x 39") and 80110 (31.5" x 43.5")**

- **Large touchscreen display uses icon-based commands for ease of operation**

- **Stryker's heavy-duty design and double index capability makes it an ideal platform for cut-piece and all-over garment printing**

Find more information and where to buy at: **www.mrprint.com**

Stryker™

M&R®

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
- Automatic Pallet Preheat Mode™ with built-in pallet temperature sensor allows operators to preheat pallets to the desired temperature using any compatible flash cure unit
- Digital microprocessor with self-diagnostics
- Digital touchscreen control panel with icon-based graphics 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 print runs also enables single pallet test printing
- Jog-left/jog-right controls
- Large 10.4" machine-mounted touchscreen interface
- Maintenance Minder™ system alerts operators when scheduled maintenance is due
- Multiple (1-4) print stroke capability
- Onboard self-diagnostics
- Production speed monitor ensures more accurate job costing
- Provides control of multi-print functionality
- Stopwatch feature enables users to capture elapsed time for setup times and run times

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
- Clockwise or counterclockwise rotation
- 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

PALLET SYSTEM
- Precise three-point pallet leveling system
- Solid-aluminum, low-profile, rubber coated pallets
- Tool-free quick release pallet locks

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 with digital display
- Printhead high-lift mode simplifies screen loading, unloading, inspection and cleaning
- Tool-free click-stop calibrated four-point off-contact allows for fast and accurate screen adjustments
- Underhead LED lights provide better lighting to check screen-clearing and registration

REGISTRATION
- Innovative pallet registration system provides exceptional accuracy
- Precise front and rear micro-registration adjustments with visual guides
- Tri-Loc® and Tri-Sync™ compatible for the industry's fastest setup times

SCREEN CLAMPS & HOLDERS
- Adjustable rear screen holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without special adapters
- Flip-up front screen holders speed setup
- 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
- Front or rear print carriage stop position allows operator to leave screens clear or flooded (great for water-based inks)
- Independently calibrated pressure adjustments for squeegee and floodbars
- Park function raises the squeegee/floodbar assemblies and moves them to the front of the screen for easy access
- Pneumatic squeegee/floodbar clamps with tool-free angle adjustment
- Squeegee air regulator with pressure gauge on each printhead offers consistent control of print pressure
- Squeegee/floodbar angle adjustments with visual reference marks every 5 degrees

STROKE LENGTH ADJUSTMENT
- Tool-free calibrated front & rear stroke length adjustment lets operators quickly maximize printing speeds by limiting excess image overprint
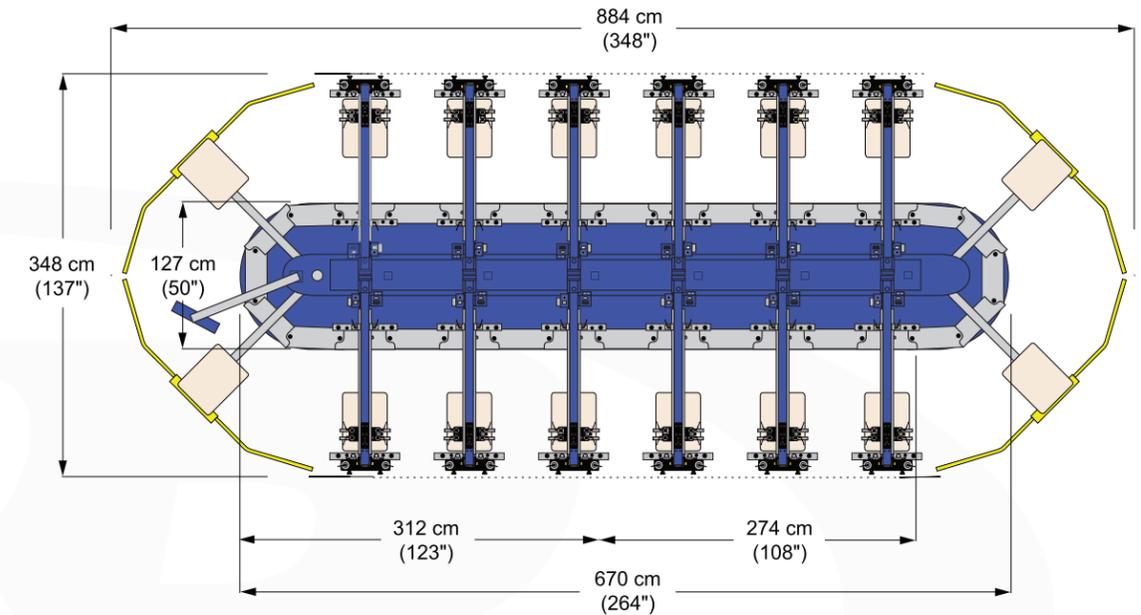
WARRANTY, SERVICE AND SUPPORT
- 24-hour hotline is staffed 365 days a year
- Parts and supplies are available online at mrprint.com/store
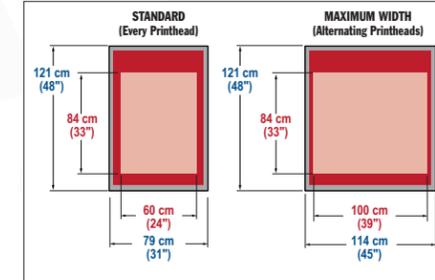- Two-year or 2,000,000-cycle limited warranty

Options

ALL-OVER-PRINT CAPABILITIES
- All-Over-Print pallets and sleeve support system

AUTO FOGGER
- Adjustable delivery system feeds a highly atomized "fog" where needed to keep High Solids Acrylic (HSA) and water based inks from skimming over or drying in exposed mesh areas

FOOT PEDAL CONTROL
- Allows indexing of the press using a foot pedal
- Skip-pallet feature allows operators to avoid screen printing mis-loaded or empty pallets

OPTICAL NO-SHIRT DETECTOR
- Automatically prevents the press from screen printing on empty pallets
- Reduces misprints and minimizes press stoppage because of improperly loaded shirts

PALLETS
- Cut-piece wide pallet supports
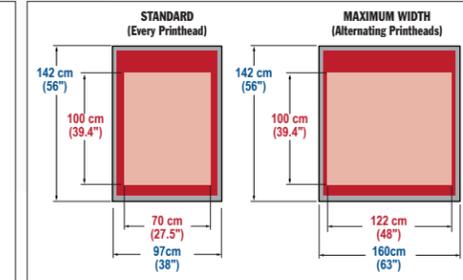- M&R aluminum pallets and platens come in a wide range of sizes and styles

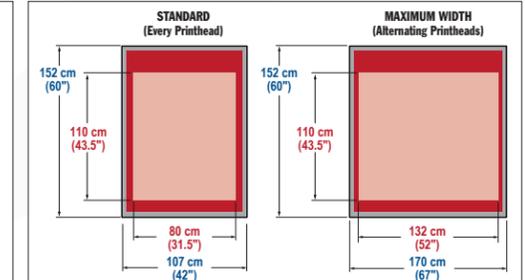## Dimensions

STRYKER 6080 16 Stations / 12 Colors

884 cm (348")
348 cm (137")
127 cm (50")
312 cm (123")
274 cm (108")
670 cm (264")

STRYKER 6080		
STANDARD (Every Printhead)		**MAXIMUM WIDTH** (Alternating Printheads)
121 cm (48")		121 cm (48")
84 cm (33")		84 cm (33")
60 cm (24")		100 cm (39")
79 cm (31")		114 cm (45")

STRYKER 70100		
STANDARD (Every Printhead)		**MAXIMUM WIDTH** (Alternating Printheads)
142 cm (56")		142 cm (56")
100 cm (39.4")		100 cm (39.4")
70 cm (27.5")		122 cm (48")
97cm (38")		160cm (63")

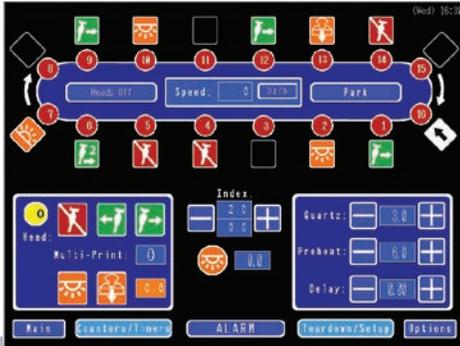| STRYKER 80110		
STANDARD (Every Printhead)		**MAXIMUM WIDTH** (Alternating Printheads)
152 cm (60")		152 cm (60")
110 cm (43.5")		110 cm (43.5")
80 cm (31.5")		132 cm (52")
107 cm (42")		170 cm (67")

■ Maximum Frame Size   ■ Maximum Image Area

M&R's world class engineering, premium components, and attention to detail is what makes the Stryker one of the most popular automatic presses in the industry.

Large, 10.4" machine-mounted touchscreen interface incorporates dual-laser placement guides and pallet temperature sensor.
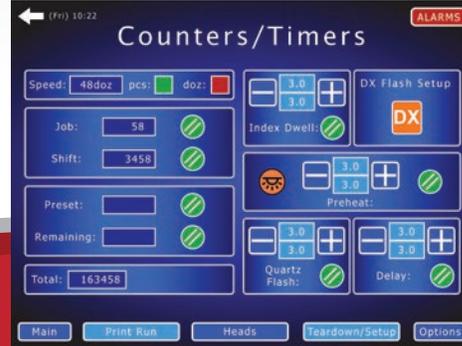

The Stryker's design is ideally suited for All-Over-Printing (AOP) of finished garments with optional AOP pallets and pneumatic sleeve supports. When not in use, the AOP support system quickly folds down and out of the way.

Modular Design • Large Touchscreen Display • Production Efficiency!

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.

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 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 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 M&R Sales and Service, Inc. for details.