COPPERHEAD MATRIX Di 4.0
CONNECTED. INTELLIGENT. EFFICIENT.
CAROUSEL AUTOMATIC SCREEN PRINTING PRESS

Introducing the **Copperhead Matrix Di4.0** an **industry-first** revolutionary screen-printing press, powered by **DCC intelligence 4.0**, redefines industry standards by combining cutting-edge technology, exceptional precision, and unparalleled ease of use to deliver outstanding performance and efficiency. Designed for high-volume, high-quality production, it seamlessly integrates **SmartCloud 4.0**, enabling remote monitoring and real-time analysis of production data and KPIs, which significantly reduces downtime and optimizes workflows. The 15-inch HMI touchscreen offers a user-friendly, icon-based interface, simplifying navigation and minimizing training time for operators. Copperhead Matrix Di4.0 is engineered to meet your every need, ensuring superior quality and efficiency at every turn.

Multi-Sensory Control Panel that redefines human-machine interaction by integrating **VoiceCraft** Technology for instant audio feedback, built-In video tutorials for real-time visual guidance, and an **Integrated Tech Library** offering seamless access to schematics, manuals, and parts, this feature enhances operational efficiency, minimizes downtime, and ensures safety. Engaging multiple senses, the Multi-Sensory Control Panel delivers an intuitive and reliable experience that elevates productivity and precision to new heights.

Smart Lube Technology automatically lubricates key components, reducing maintenance and extending machine life. Available in configurations of up to 20 stations, the Copperhead Matrix's **servo-driven indexing mechanism** delivers impressive speeds of up to 1200 pieces per hour, maximizing throughput and efficiency. It also features **Pallet Pre-heat mode** with built-in sensors that provide alerts once the pallet reaches the desired temperature. Fully compatible with Tri-Loc, Tri-Sync and Tri-Loc I systems, it streamlines alignment and setup for unmatched accuracy.

Why Copperhead Matrix Di4.0?

- **Always Connected:** Stay ahead with SmartCloud 4.0 for real-time insights even remotely
- **Easy, Intuitive Controls**: With Multi-Sensory Control Panel & VoiceCraft technology, get things done faster with voice feedback, guided tutorials, and quick access to resources.

The Copperhead Matrix Di4.0 is a complete solution for screen printing that delivers performance, versatility, and reliability.

Step into the future of screen printing with the Copperhead Matrix Di4.0 and elevate your production to new heights.

Revolutionizing Your Experience, One Feature at a Time

SmartCloud 4.0

Technology to help manage your KPI's from anywhere in the world.

- **Monitor** production rates, equipment status, and downtime analytics remotely
- **Review** KPI's like production and rejection rates, set-up time and press efficiency to optimize workflows and reduce downtime
- **Compare** insights on operator performance and press efficiency
- **Notify** with proactive auto email alerts ensuring your machine is always running at peak performance

Multi Sensory Control Panel

- Solve problems instantly with a built-in tech library for machine schematics, user guides, troubleshooting resources and BOM for easy access & identification of parts.
- Built-in video guides for equipment operations, troubleshooting and product feature videos
- Integrated speakers for music or instructional audio playback tutorial to aid operators.
- 15" HMI with user friendly icon-based logic
- Dual-themed interface with improved prompts for user convenience.

VoiceCraft

- Instant voice alert & feedback for all alarms & activities
- Voice narration quickly identifies the issues ensuring operational efficiency
- Voice alert instantly grabs attention thus maintaining high operational safety

State-of-the-Art Printhead Design

- LED-embedded printheads simplify setup and improve precision
- Digitalized Micro Switch Board enhances print repeatability
- Squeegee Pressure Equalizer System for consistent print pressure and quality
- Adjustable rear screen frame holder for ease of set-up
- Tool-free squeegee and floodbar adjustments
- Independent controls and E-stops on all printheads
- Tool-free pneumatic head lifting for easy screen cleaning

SPECIFICATIONS	MATRIX Di 4.0 12/10	MATRIX Di 4.0 14/12	MATRIX Di 4.0 16/14	MATRIX Di 4.0 18/16	MATRIX Di 4.0 20/18
Air @ 8.5 Bar (123 psi)[1]	450 l/min (15.9 cfm)	530 l/min (18.7 cfm)	610 l/min (21.5 cfm)	690 l/min (24.4 cfm)	770 l/min (27.2 cfm)
Electrical Requirements[2,3]	208-230 V, 3 ph, 23.5 A, 60 Hz, 7.5 kW 380-415 V, 3 ph, 13.5 A, 50 Hz, 7.5 kW	208-230 V, 3 ph, 26 A, 60 Hz, 8.2 kW 380-415 V, 3 ph, 13.5 A, 50 Hz, 7.5 kW"	208-230 V, 3 ph, 29 A, 60 Hz, 9.0 kW 380-415 V, 3 ph, 17 A, 50 Hz, 9.0 kW	208-230 V, 3 ph, 32 A, 60 Hz, 9.7 kW 380-415 V, 3 ph, 19.5 A, 50 Hz, 9.7 kW	208-230 V, 3 ph, 34 A, 60 Hz, 10.5 kW 380-415 V, 3 ph, 21 A, 50 Hz, 10.5 kW
Diameter	478 cm (188")	526 cm (207")	571.5 cm (225")	614 cm (242")	663 cm (261")
Maximum Frame Size	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")
Maximum Frame Size (Double Index-Skip Frame and Skip Pallet)	–	–	–	107 x 91 cm (42" x 36")	107 x 91 cm (42" x 36")
Maximum Image Area	51 x 56 cm (20" x 22")	51 x 56 cm (20" x 22")	51 x 56 cm (20" x 22")	51 x 56 cm (20" x 22")	51 x 56 cm (20" x 22")
Maximum Image Area (Double Index-Skip Frame and Skip Pallet)	–	–	–	51 x 56 cm (20" x 22")	81 x 56 cm (32" x 22")
Machine Weight	2402 kg (5295 lb)	2805 kg (6184 lb)	3315 kg (7308 lb)	3890 kg (8576 lb)	4482 kg (9881 lb)
Standard Pallet Size	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")
Stations/Colors	12/10	14/12	16/14	18/16	20/18

[1] Consumption @ 17 pieces/min & max. image area
[2] General usage may vary, but will be significantly less than stated values.
[3] Use Servo Stabilizers to safeguard the machine from Voltage Fluctuation out of the main supply.