adelco MATRIX

A modular oval screen printer that provides **more versatility** and **high-production** output.

- Fast, smooth & quiet chainless rail system
- Sealed print arms
- Servo driven print heads
- Quick release horizontal pneumatic screen clamping
- Large bore squeegee cylinders
- Quick-fit tool free squeegee & Flood-blades
- Front & rear tool-free micro adjustment
- Advanced PLC control system & HDMI touch screen

MATRIX

adelco

Screen Printing Systems
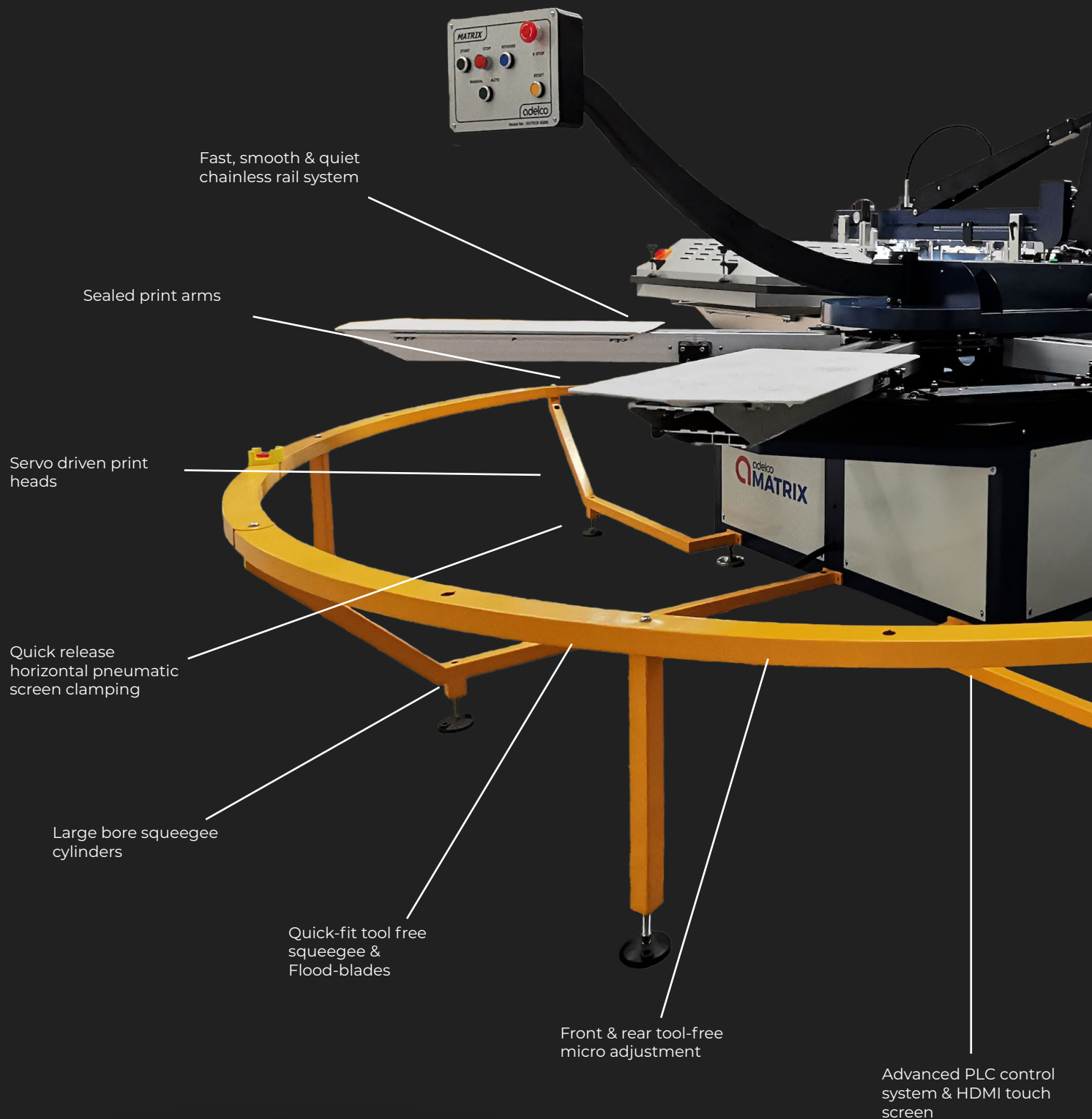
Servo driven index

Modular design for future expansion

High density print mode

Auto lift print heads

Rigid CNC machine pallet arms

Easy tool-free front & rear off contact adjustment

High grade aluminium quick-release pallets

Safe, Modular, Expandable.

The Matrix Oval screen printing machine from Adelco offers a more efficient use of space thanks to its oval-shaped design. It offers greater stability with larger print formats than comparable carousel based machines. The Matrix Oval provides more versatility with multiple flashes, cooling and speciality print stations, providing the highest print quality and accuracy.

Available in three standard print size formats, the Matrix can be configured for almost any production requirement with an infinite number of pallets and print stations. Its servo driven print heads enable cycle times in excess of 900 prints per hour.

It has a unique rail and drive system that ensures almost silent operation, creating a quiet print-shop environment.

Pallets are securely locked with hardened locators. Indexing to an accuracy of +/- 0.02mm.

Safety barriers, proximity sensors, and safety lasers run the full length of the machine that immediately stops the machine if activated. The Matrix Oval is designed with safety as a priority, with worldwide renowned certification.

The Matrix Oval offers unparalleled support of print heads & pallet arms during print cycle for exceptional print quality and repeatability.

adelco MATRIX

Specifications

Electrical Requirements

<28 stations	>28 stations
1 phase 220V 2KW + 750W per print head	1 phase 220V 4KW + 750W per print head

Air Supply

Pressure	CFM (per print head)
100PSI/7bar	3 CFM

Standard Image Area	Max Frame Size	Max Machine Width	Length
45x60cm (18"x24")	64x100cm (27"x43")	363cm (143")	Depends on format
50x70(20"x28")	69x110cm (27"x43")	398cm (157")	Depends on format
60x80cm (23.5"x31.5")	79x120cm (31"x47")	418cm (165")	Depends on format

Print-Flash-Cool Format
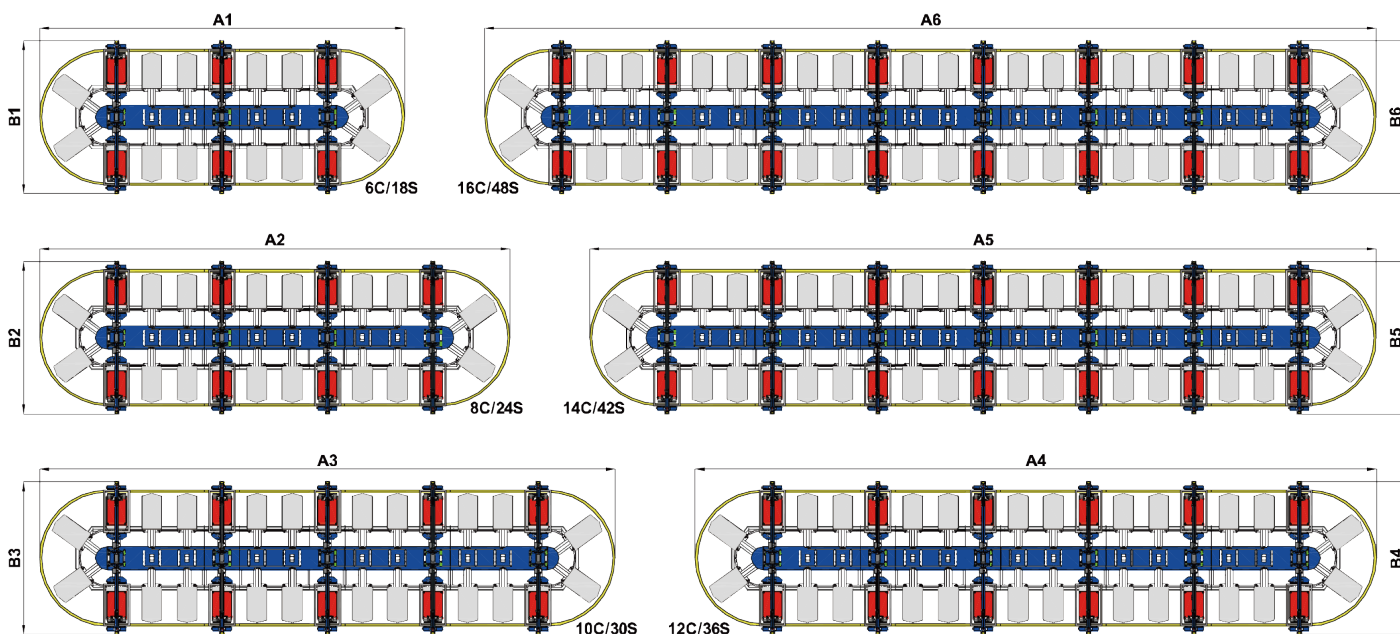
Model	6C/18S		8C/24S		10C/30S		12C/36S		14C/42S	
	A1	B1	A2	B2	A3	B3	A4	B4	A5	
MTX 4560	8.68M	3.63M	11.12M	3.63M	13.55M	3.63M	15.99M	3.63M	18.45M	
MTX 5070	9.48M	3.98M	12.23M	3.98M	14.97M	3.98M	17.71M	3.98M	20.45M	
MTX 6080	9.68M	4.18M	12.43M	4.18M	15.17M	4.18M	17.91M	4.18M	20.65M	

A1 — 6C/14S
B1

A2 — 8C/18S
B2

A3 — 10C/22S
B3

A6 — 16C/34S
B6

A5 — 14C/30S
B5
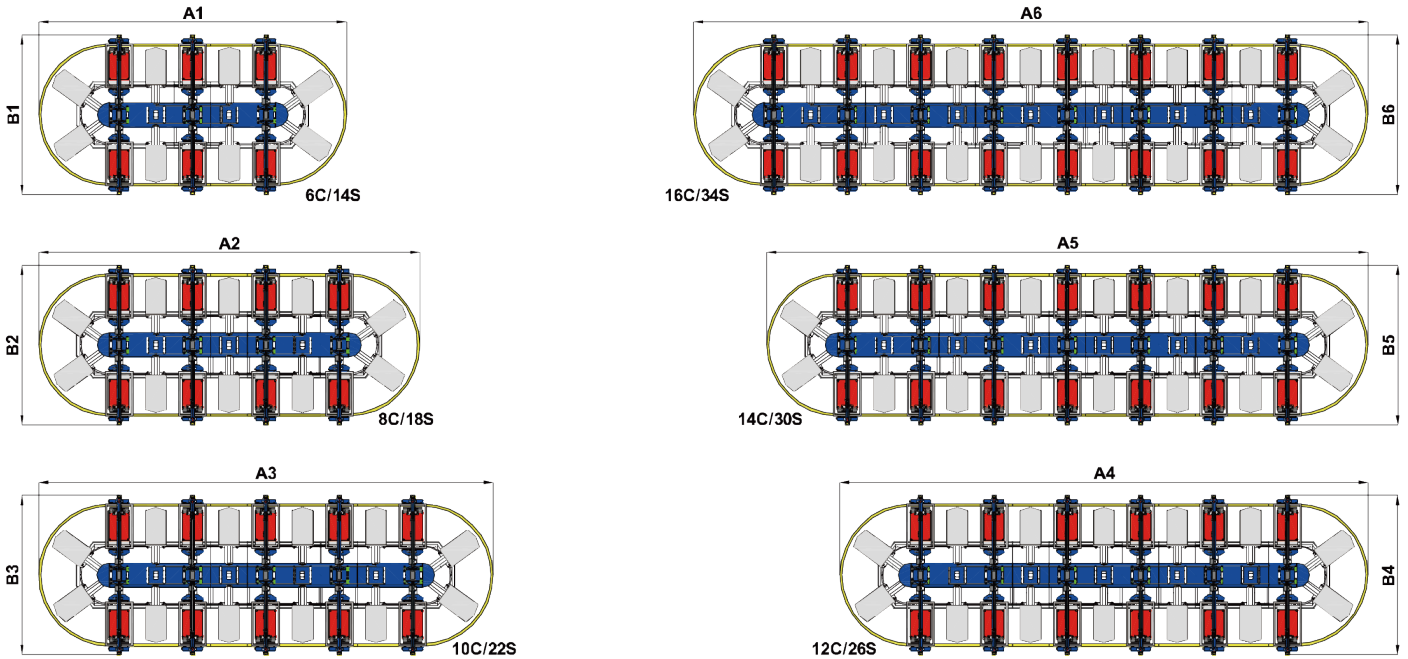
A4 — 12C/26S
B4

Model	6C/14S		8C/18S		10C/22S		12C/26S		14C/30S		16C/34S	
	A1	B1	A2	B2	A3	B3	A4	B4	A5	B5	A6	B6
MTX 4560	7.05M	3.63M	8.68M	3.63M	10.30M	3.63M	11.93M	3.63M	13.55M	3.63M	15.18M	3.63M
MTX 5070	7.66M	3.98M	9.48M	3.98M	11.31M	3.98M	13.14M	3.98M	14.97M	3.98M	16.80M	3.98M
MTX 6080	7.86M	4.18M	9.68M	4.18M	11.51M	4.18M	13.34M	4.18M	15.17M	4.18M	17.00M	4.18M

adelco digital
HYBRID

Works with the Adelco high speed digital Hybrid Digital printer option