Ultratube

multi-color Flexo Graphic fully servo driven machine for

Ultra quality decoration of tubes at Ultra speed

www.omso.com
TRADITIONAL PRINT

- 419x238
- HD / Full HD
- FLEXO PRINT

Density reproduction down to zero

Crisp details, vibrant contrast, intense color, and high maximum density.

Soft transition printing group: optimal visibility and accessibility.

ERGONOMY
- Plate: fast changing due to sleeve mount, off-line registration plate mount jig
- Anilox: on sleeve for fast change and separate motor drive, no gear
- Doctor blade: automatic pressure adjustment for consistent inking and long blade life
- Ink feed: stainless steel peristaltic pump for normal run or open ink fountain for small lot printing
- Printing parameters: most adjustment can be made "on the fly" with machine running
- Cleaning: deionizing with brush and vacuum to clean surface

TREATMENT
- Flame treatment: gas-air mixing and volume adjustments from operator panel
- High printing speed: reliable performances up to 200 ppm, PERFORMANCES both tubes and sleeves, any diameter and length; highest speed of any print/dry machine on the market
- Torque motor for table indexing: very precise index angle, no wear parts, no maintenance, the table can freely turn by hand during changeover
- Mandrel table: very stable alloy machined from solid for top temperature and time stability
- Printing group: solid construction to avoid any vibration
- SW & Logic: development by Omso Group, based on success of Servotube and ServoCup and ServoBottle; capability to follow customer's specific request
- Motors and reducer: lifetime lubricated

MAINTENANCE
- Ball guides and screws: every group has a specific lubricating socket with distributing hose for quick replacement on the print group from the machine
- Mechanics: virtually no mechanical mechanism to maintain
- Servo technology "self-protecting"
- Plate: no gear between plate cylinder and anilox
- Access level: multiple operator level access in relation to skill and experience levels
- Password protection: no wear parts, no maintenance
- Remote assistance: via customer's internet connection.

SPACE-SAVER: and virtually no maintenance, no ozone, no visible light

SHELL: very compact layout to save plant floor space

CONTAINER
- Cap: plastic or aluminum, opaque or clear.
- Color: max number: up to 13 colors
- Graphic: unlimited decoration possibilities with direct print, any kind of effect [metallic, relief, frosted, lacquer, ...]
- PRINTING: flexographic print quality with full control of all print related parameters

PRINTING
- Flexography: print quality with full control of all print related parameters
- Any number: 1 to 13 colors
- Stable, consistent print quality with direct print, any kind of effect [metallic, relief, frosted, lacquer, ...]
- Registration: extremely accurate registration enabled by servo driven axis, +/-0.02 mm guaranteed for machine life due to total unique gear-less solution (true gear-less press); continuous air suction even during table index
- Print / dry: curing between each color, allowing true high-quality, high-speed color printing at gravure and offset quality level.

CHANGEOVER
- Extremely fast changeover due to the large number of printing groups: allows a minimal cleaning, leaving each color in position, servo-driven adjustment from memory
- Tools: no tools required for tooling replacement (tool-less); mandrels: semi-automatic change function, no tools
- Gears: none, full control from operator panel on all servo driven functions
- Product data: complete menu for job related settings with instant recall function
- Operator panel: 360 degree movement all around the machine circumference, outside guarding with fully graphics for each station, adjustments can be made with guards closed, even with the machine running.

LOAD/UNLOAD
- Load: 3 phase separate servomotor strokes for high speed and delicate touch for sensible tubes and sleeves
- Unload: 2 phase unload servomotor strokes for high speed, optimized for sleeve

REGISTRATION
- Neck thread or cap reading for precise print orientation
- UV CURING
- Water shield for heat removal, stand-by during table index, electronic ballast
- ENERGY
- SPACE-SAVER: and virtually no maintenance, no ozone, no visible light

MAINTENANCE
- Remote assistance: via customer's internet connection.

USER FRIENDLY
- Access: depending on brand and touch to each surface
- Safety: fully servo driven and electronic control for quick replacement and control of the print group from the machine
- Password protection: no wear parts, no maintenance
- Remote assistance: via customer's internet connection.

MAINTENANCE
- Remote assistance: via customer's internet connection.

SAFETY & ECO-FRIENDLY
- Remote assistance: via customer's internet connection.
**FLEXIBILITY**

- **Configurations:** High flexibility due to totally independent groups.
- **Investment Protection:** Guaranteed as any decoration can be obtained.

**Table:** 36 stations and mandrels.

**QUALITY CONTROLS**

- **System:** Integrated linear color vision system for 100% quality assurance.
- **Illumination:** Both systems for opaque and clear container.
- **Inspecting:** Unprinted areas, defects in the substrate, shadows, pin holes, blurs, registration movement.
- **Robustness:** The system can be easily set according to customer quality level.
- **Simple Use:** Easy setup and adjustment, not requiring a specialized operator.
- **Statistics:** To advise operator of the number of defects, location, and size.

**GENERAL**

- **Container Size:**
  - Min/Max
  - D: \( \geq 16 \text{ mm} \) \( D \leq 60 \text{ mm} \)
  - \( H \leq 220 \text{ mm} \)

**Print Height:** \( \leq 220 \text{ mm} \)