

HIL-46/48

INTERNAL COATING MACHINE FOR ALUMINUM TUBES

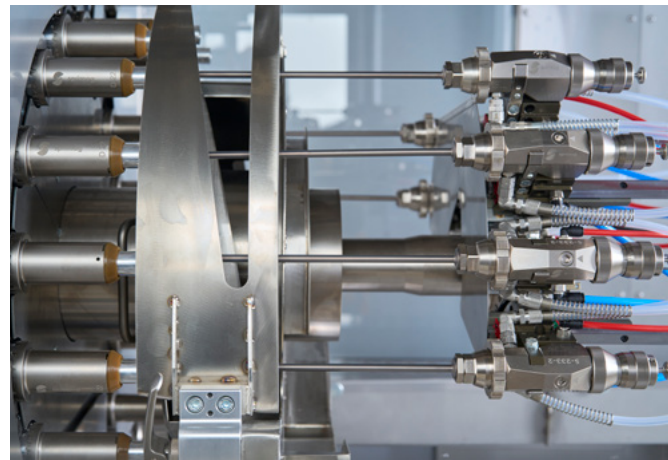


HIL-46/48 Compact System for Internal Coating of Aluminum Tubes

The HIL-46 internal coating machine for collapsible aluminum tubes impresses with its space- and energy-optimized design concept. In combination with the EAM-4 Electric Annealing Machine and the TIT Internal Coating Drier the HIL-46 represents the most modern and advanced internal coating system for aluminum tubes. Optionally, the machine can also be configured as a HIL-48 with an electrically heated intermediate drying to achieve optimal coating results between the single coating processes.

FEATURES

- Compact machine design
- Production speed up to 180 tubes per minute
- Triple coating by 6 spray gun system
- Increased operating comfort thanks to direct, electro-pneumatic control of the spray guns via HMI
- Separate servo drives for stroke and transport movement
- Proven quick-change system for size parts
- Swivelling HMI panel
- Automatic part ejection during production process
- Optimized machine dimensions ensure compatibility with older production lines
- Manufactured in accordance with the ATEX-regulations



OPTIONS

- Electrically heated intermediate drying
- Additional set of spray guns with quick-change-system
- Exhaust system
- Additional lacquer supply unit
- Energy optimizing and vacuum control system
- RFID-access verification system

Application Technology

The HIL-46/48 is optionally equipped with either a Sprimag **S-233** or **S-8** spray gun.

+ EAM-4 Electric annealing machine for aluminum tubes

The new standard for soft annealing of aluminum tubes according to DIN EN 16285



- Production speeds of up to 200 tubes/min
- Over 75% energy savings compared to conventional tube annealing ovens
- Electrically heated with annealing temperatures up to 510 °C
- Precise temperature control (+/- 3 °C) throughout the entire process
- Low number of tubes in the annealing area
- Innovative heating system with contact heating
- Safe tube transport without transport chain

For more information: sprimag.com/eam-4

+ Annealing Oven TGO + Internal Drier TIT

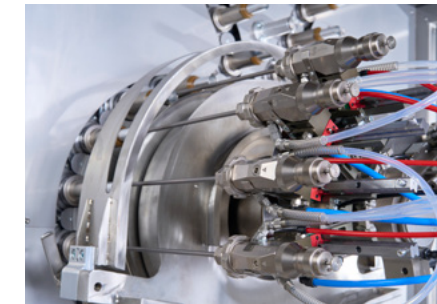


- Reduced wearout of the transport chain and the chain wheels by cardan-based drive system
- Chain tensioner with weight, electronically monitored
- Quadruple door lock
- Isolated doors with special door hinges for synchronized door closing
- Large outer doors with smooth surface on the front and rear sides
- Quick and easy removal and reassembly of the shafts and chain wheels in case of service

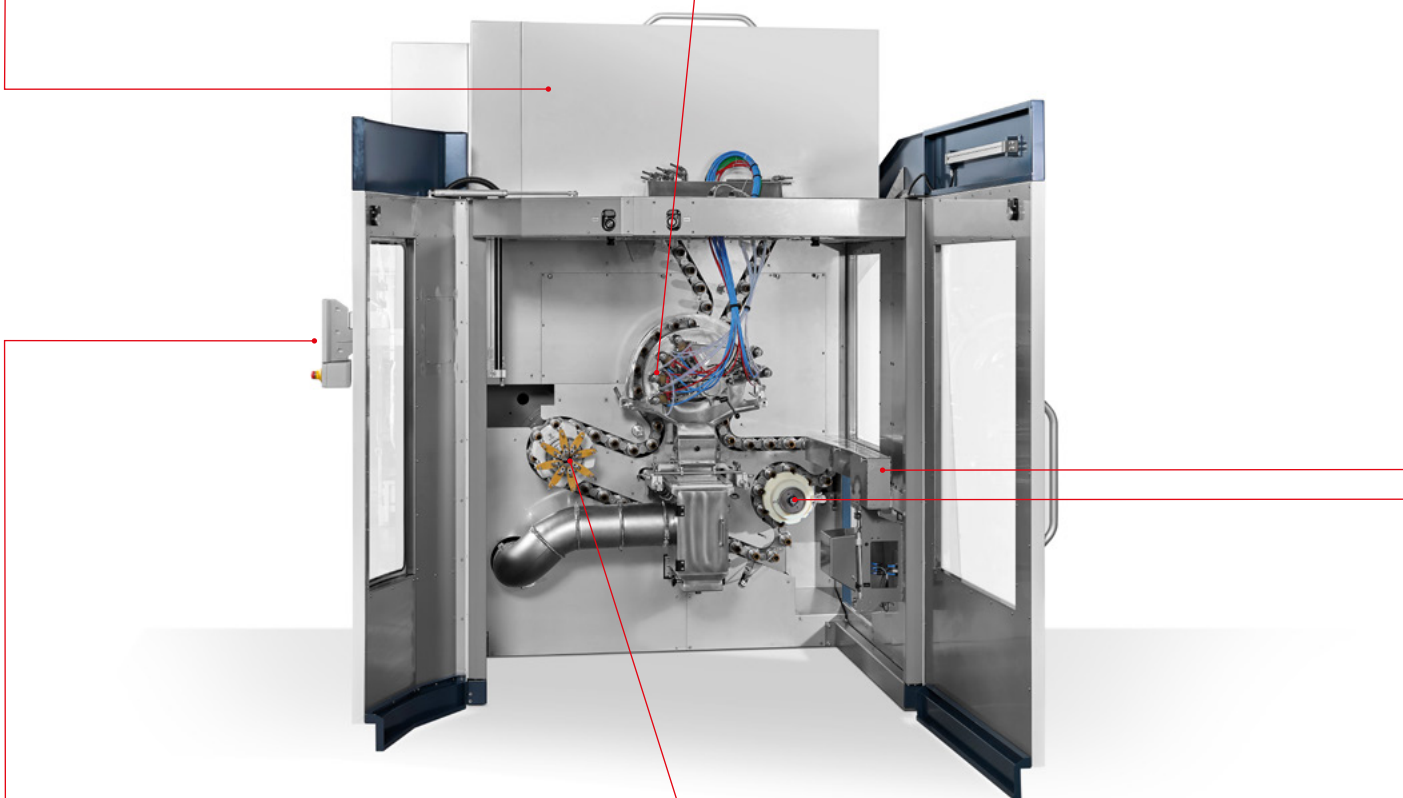
Intermediate drier: The internal coating system can also be configured as a HIL-48 with an electrically heated evaporation zone. This takes place between the 2nd and 3rd coating process.



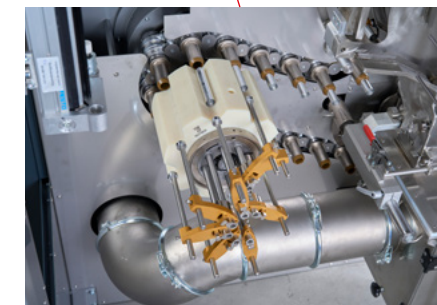
The HIL-46/48 is equipped with 6 spray guns for the precise internal coating (optional duplex or triplex coating) of aluminum tubes with diameters ranging from 9.8 mm to 50 mm.



Pneumatic ejection chute for automatic test ejection of single tubes during the production process, flexibly selectable via the HMI.



The intuitively operated HMI with multi-touch display has a fully enclosed stainless steel housing and offers new visualization possibilities.



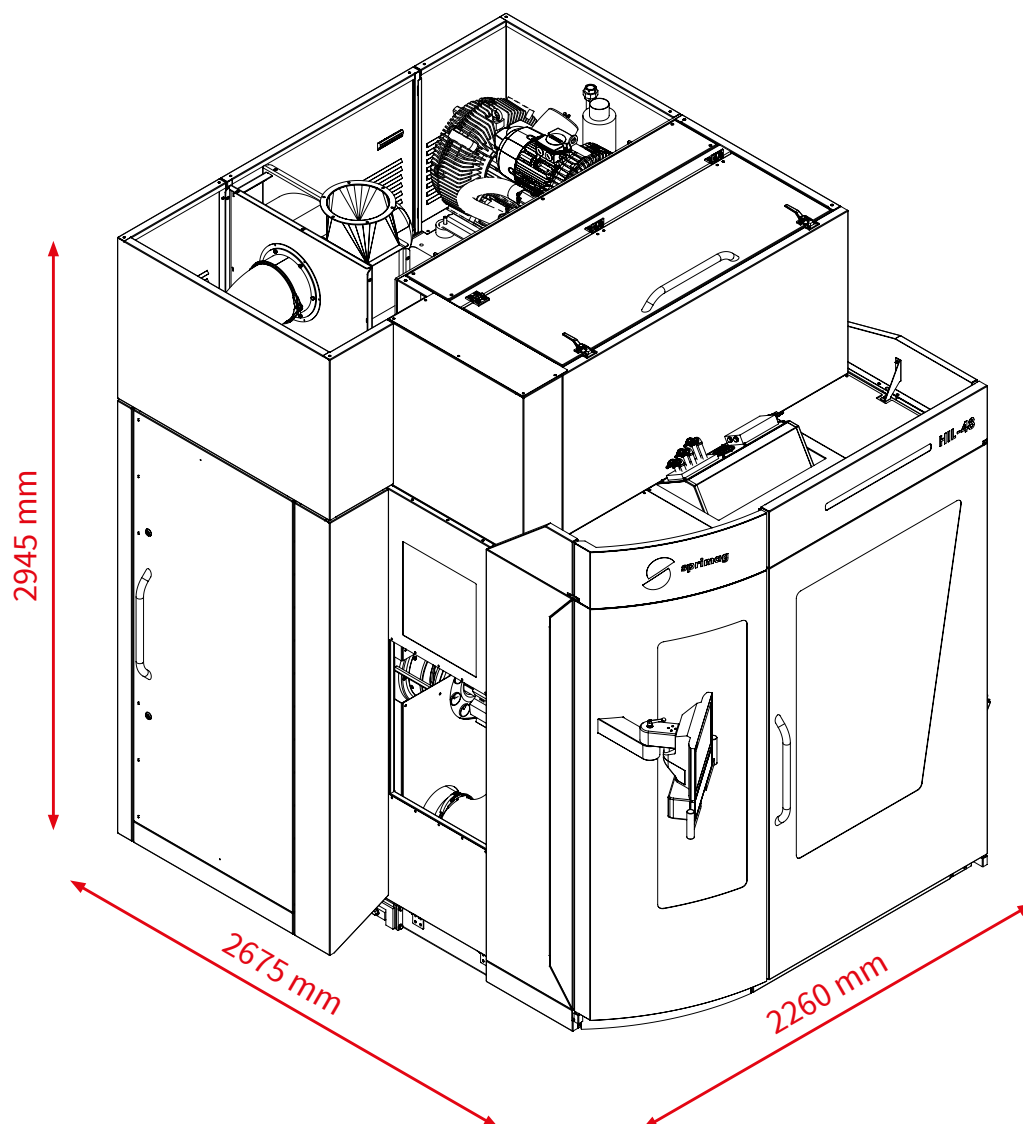
Infed starwheel with direct transfer of the soft annealed tubes from the upstream cooling zone to the infed starwheel of the HIL-46/48.



Vacuum outfeed starwheel with quick-change-system for precise transfer of the tubes to the downstream oven trays of the internal coating drier.

TECHNICAL DATA

Parameter	Specification
Finished product	Aluminum tubes
Product diameter range	$D_{\min} = 10 \text{ mm}$, $D_{\max} = 50 \text{ mm}$
Product length range	$L_{\min} = 70 \text{ mm}$, $L_{\max} = 220 \text{ mm}$
Production speed	up to 180 tubes per minute
Spray guns / Spraying process	6/3 times
Application Technology	6x Type S-233 or 6x Type S-8
Electrical connection power	95 kVA



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