



CONTAINER GLASS

TABLE WARE

GLASS DECORATION

SPECIALITY GLASS

FLOAT GLASS

PATTERN GLASS

## Cold End Spray CES 650



The bottles are normally coated below the bottle finish only. The spray nozzle (head) is equipped with a pneumatic lifting device which will automatically be raised in case of misaligned bottles in a row. The spraying nozzle may be stopped at the far side for service and adjustment by simply pressing a selector switch. The fine spraying is executed while traversing to the far side. In addition, a flow sensor is installed to monitor the flow of coating material and to ensure a good quality coating. The required pneumatic components, including the maintenance unit, are installed within a cabinet on the side of the control panel.

All mechanical and electrical parts and components are installed directly on the coating unit and tested prior to shipment. No wiring or piping is required for installation other than the main supply of power, compressed air and coating material. The PLC based control allows operating and monitoring the cold end spray. The settings and status visualization is done by use of a graphic operator panel at the control cabinet. In addition, the unit will have an optical alarm system.

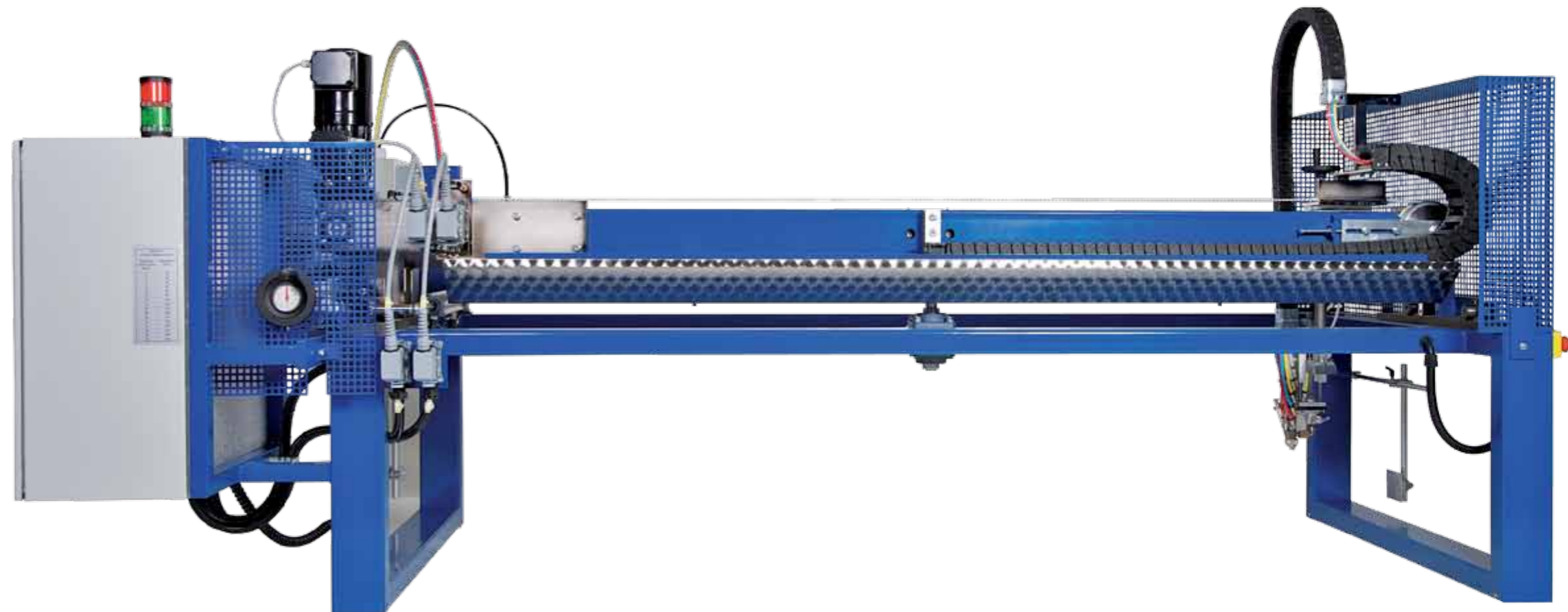


## Cold End Spray CES 650

The cold end spray is required to provide a surface coating to the glass bottle in order to increase the scratch resistance during handling and filling. The unit is installed across the open end of the lehr in the area of a temperature range between 80 to 120°C (according to coating material specification).

The unit itself is made from a combination of coated steel and aluminum, to prevent particles coming off. Any part above the bottles is shielded off for additional protection. In order to meet the correct coating temperature area, the cold end spray may be repositioned on a rail system, within a length of 2,25m.

The motion across the belt width is executed by the maintenance free, inverter controlled linear drive with toothed belt. The drive motor/gear assembly will be installed on the operational side, next to the control panel itself. The easy to adjust compensation of the lehr belt movement is to be set once manually for each production according to the belt speed on a centralized spindle system with integrated display. The actual motion after each cycle is operated pneumatically. The setting information is provided by the PLC and its touch panel.



## Features

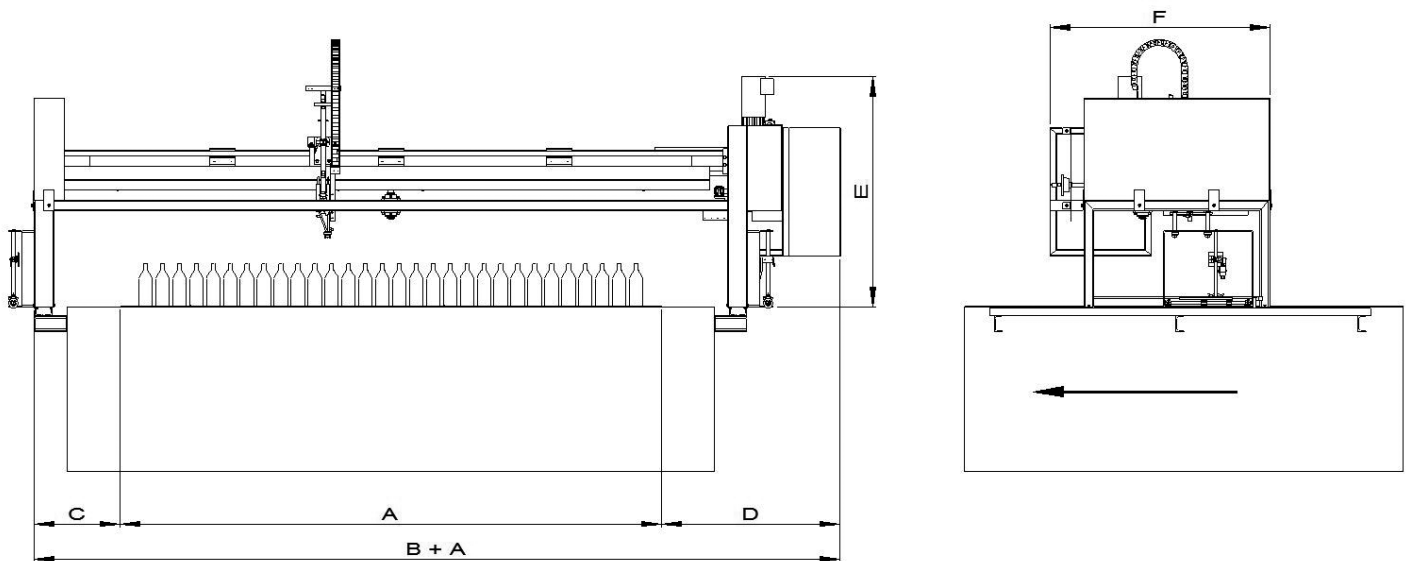
- Electrical drive system by inverter and toothed belt
- Speed setting for the lateral movement
- Stroke length setting
- Pneumatic belt speed compensation
- Selector switch for permanent or light sensor operation
- Stop switch of the spray nozzle for service and adjustment
- Flow sensor
- Error messaging
- Rail for cold end spray positioning

### Cold End Spray CES 650

Length/Depth	F = 1.100mm
Width	C/D = 510/1.055mm
Height	E = 1.265 (+300mm)
Belt width	A = 1.200 - 5.700mm
Voltage	400V 50HZ*
Prefusing	10A
Compressed Air Pressure	4 - 6 bar
	56 - 84 PSI
*others on request	

### Options:

- Automatic dosing system
- Execution with two spray nozzles  
(monitoring of two rows at the same time)
- Control panel air conditioner



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