

## Technical Datasheet

The key facts for the production of tomorrow.

## SMART SOLUTIONS

### SmartSolutions Housing

|                               |  |
|-------------------------------|--|
| <b>Total size:</b>            | 1000 x 1000 x 2200 mm  |
| <b>Electrical connection:</b> | CEE plug 400 - 480 V, 50 - 60 Hz, 16 A                           |
| <b>Safety:</b>                | security camera in the operating area                            |
| <b>Maintenance:</b>           | maintenance door at the rear incl. safety contact                |
| <b>Switch cabinet:</b>        | module slots under the table for different configuration options |

### Designed for the following article dimensions

|                            |  |
|----------------------------|--|
| <b>Article weight:</b>     | up to 5 kg   |
| <b>Article dimensions:</b> | up to 200 x 200 x 200 mm, editing range 190 x 190 mm |
| <b>Movement range X,Y:</b> | 200 x 300 mm   |
| <b>Z-stroke:</b>           | 200 mm   |

### X,Y table

|                           |  |
|---------------------------|--|
| <b>Movement range:</b>    | X = 200 mm, Y = 300 mm   |
| <b>Speed:</b>             | 150 mm/s   |
| <b>Pay load:</b>          | 10 kg (article incl. article fixture)  |
| <b>Max. impact force:</b> | 17 kN vertical force   |
| <b>Safety:</b>            | covering plate for spindles  |
| <b>Maintenance:</b>       | maintenance-free guides  |
| <b>Article fixture:</b>   | automatic locking and unlocking of the fixture allows article changes within seconds |

### Camera (setup support)

|                      |  |
|----------------------|--|
| <b>Resolution:</b>   | 2592 x 1944 pixels, 3x zoom                                |
| <b>Frame rate:</b>   | 14 fps<br>1 / 2,5"   |
| <b>Weight:</b>       | 75 g   |
| <b>Dimensions:</b>   | 38,3 x 29 x 29 mm  |
| <b>Interface:</b>    | Fast Ethernet (100 Mbit/s); Gigabit Ethernet (1000 Mbit/s) |
| <b>Power supply:</b> | Power over Ethernet  |

## Press Equipment (joining spindle)

|                       |   |
|-----------------------|---|
| <b>Force ranges:</b>  | 1,5, 7 or 17 kN   |
| <b>Payload:</b>       | 25 kg   |
| <b>Stroke:</b>        | 200 mm  |
| <b>Frame:</b>         | 2 column frame  |
| <b>Servo motor:</b>   | parallel attachment   |
| <b>Encoder:</b>       | Multi-Turn  |
| <b>Holding brake:</b> | yes   |
| <b>Cable length:</b>  | 5 m   |
| <b>Miscellaneous:</b> | additional guide to protect the pressure sensor from lateral forces |

## Torque Equipment (screwdriver)

|                                  |  |
|----------------------------------|--|
| <b>Torque:</b>                   | max. 12 Nm   |
| <b>Idle speed:</b>               | 880 rpm  |
| <b>Rotation angle detection:</b> | yes, accuracy $\pm 4^\circ$ per measuring unit             |
| <b>Weight:</b>                   | approx. 3 kg   |
| <b>Interface:</b>                | W-Lan  |
| <b>Miscellaneous:</b>            | spring-loaded screwdriver actuator with 20 mm spring range |

## Dispense Equipment (dosing valve)

|                          |  |
|--------------------------|--|
| <b>Dosing functions:</b> | pulse dosing, spray dosing                                     |
| <b>Pulse rate:</b>       | max. 60 Hz   |
| <b>Weight:</b>           | approx. 1 kg   |
| <b>Interface:</b>        | Digital I/Os - Modbus TCP                                      |
| <b>Miscellaneous:</b>    | optional valve heating + PT100, light barrier as pulse counter |

The following amount of compressed air is required for the spray function:

|                             |               |                |
|-----------------------------|---------------|----------------|
| Compressed air volume flow: | min. 70 l/min | max. 150 l/min |
| compressed air pressure:    | min. 0,3 bar  | max. 5,0 bar   |