

Technical Data Sheet
FlexPunch / FlexPunch Compact

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| | FlexPunch | FlexPunch Compact |
|--|--|------------------------------------|
| Dimensions and weight¹ | | |
| Weight, standard version | 3800 kg | 2950 kg |
| Weight, accelerated version | 4300 kg | 3450 kg |
| Length (incl. 4 m infeed roller table and belt conveyor) | 7635 mm / 300.6 inch | 7635 mm / 300.6 inch |
| Width | 4550 mm / 179.1 inch | 2502 mm / 98.5 inch |
| Height | 1850 mm / 72.8 inch | 1850 mm / 72.8 inch |
| Environmental conditions | | |
| Temperature | 15 – 35°C / 59° – 95°F (without air condition) | |
| Max. relative humidity | 60% | |
| | | |
| Number of tool stations | 10 | 4 |
| Tools | <u>Punch tool:</u> SingleTool, MultiTool MT3x <u>Tapping:</u> SingleTap | |
| Shank diameter | SingleTool: 32 mm / 1.26 inch MultiTool: 20 mm / 0.79 inch | |
| Length of separating punch | Standard: 32 mm / 1.26 inch Special: 64 mm / 2.52 inch | |
| Max. number of punch | 28 (9 x MultiTool + sep. punch) | 10 (3 x MultiTool + sep. punch) |

¹ Weight and dimensions vary depending on the machine (for example length and type of conveyor). The specified weights are without hydraulic oil.

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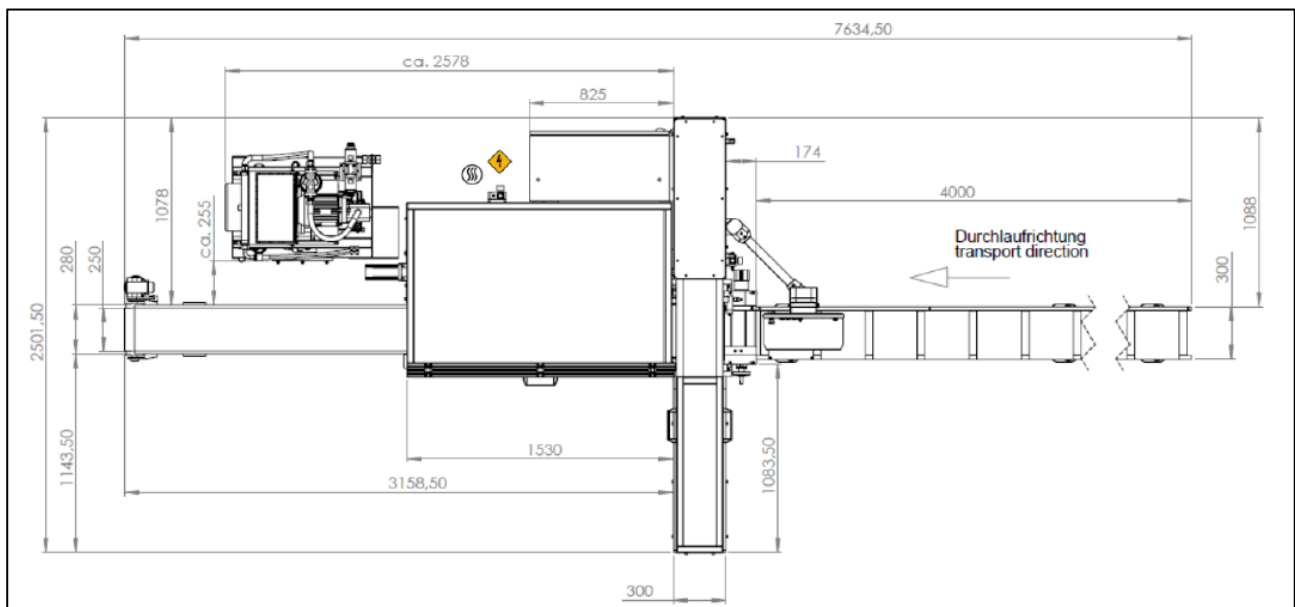
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| Max. number of tapping tools | 2 | 1 |
| Punch drive | Hydraulic | |
| Hydraulic oil | 160 / 250 l | |
| Punch force | 340 kN | |
| Max. punch pressure | 280 bar | |
| Axis speed | | |
| X (Gripper) | 1333 mm/s / 51.5 inch/s | |
| Y (Tool station) | 1333 mm/s / 51.5 inch/s | |
| Z (Hydraulic cylinder) | 1333 mm/s / 51.5 inch/s | |
| Work piece dimensions | | |
| Thickness | 3 – 16 mm / 0.12 – 0.63 inch | |
| Width | 15 – 200 mm / 0.59 – 7.87 inch | |
| Min. material length | 165 mm / 6.5 inch | |
| Min. part length | 20 mm / 0.79 inch | |
| Min. rest piece length | 50 mm / 1.97 inch | |
| Machine control | | |
| Control | Beckhoff TwinCAT | |
| Machine PC | Beckhoff CX-5130 | |
| Processor | Intel Atom E3827, 1,75 GHz | |
| Memory | RAM: 4 GB DDR3, HDD: 40 GB CFAST FLASH | |
| Interfaces | 2 x RJ45 10/100/1000 Mbit/s, 4 x USB 2.0, 1 x DVI-I | |
| Operating system | Windows 10 IoT | |
| Operating software | EHRT PowerCut | |
| User interface | Touchscreen, keyboard and buttons | |
| Electrical connection | IEC | UL |
| Voltage | 400 V AC \pm 5% | 460 V AC \pm 5% |
| Frequency | 50 Hz \pm 1% | 60 Hz \pm 1% |
| Electrical fuse protection | 63 A | 60 A |

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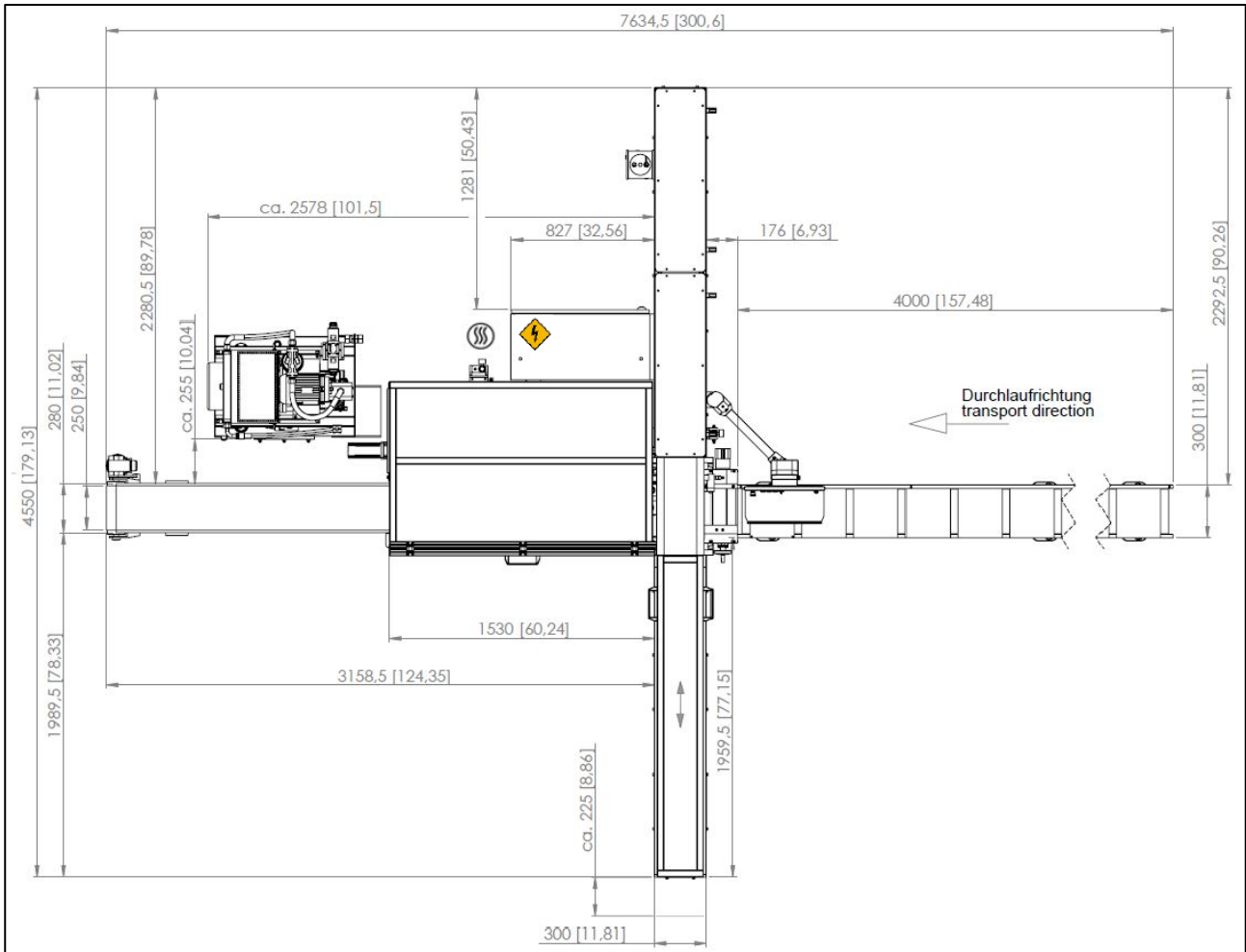
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| Electrical supply | 3 phases, N, GND | 3 phases, GND |
| Pneumatic connection | | |
| Operating pressure | 6 bar | |
| Min. compressed air requirement | 120 l/min | |
| Quality class (ISO 8573-1) | class 5 | |
| Connecting hose | ¼ inch | |
| Color | | |
| Machine corpus | RAL 5010 gentian blue | |
| Electrical cabinet and cladding panels | RAL 7035 light gray | |
| | | |
| Noise emission | < 82 dB(A) | |
| Operating time | Continuous operation (Single shift) | |



FlexPunch Compact: Top view of the machine (example)

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FlexPunch: Top view of the machine (example)

Document history

| Version | Date | Details |
|---------|----------------|---|
| 01 | 5 March 2020 | First version of this document |
| 02 | 21 August 2020 | Adjustments for electrical connections and weights. |