

Technical Data Sheet
FlexPunch / FlexPunch compact

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| | FlexPunch | FlexPunch compact |
|--|---|------------------------------------|
| Dimensions and weight ¹ | | |
| 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 | <u>SingleTool:</u> 32 mm / 1.26 inch <u>MultiTool:</u> 20 mm / 0.79 inch | |
| Length of separating punch | <u>Standard:</u> 32 mm / 1.26 inch <u>Special:</u> 64 mm / 2.52 inch (for max. 10 mm / 0.4 inch material thickness) | |
| 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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| 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) | 666 mm/s / 26.22 inch/s | |
| Z (Hydraulic cylinder) | 666 mm/s / 26.22 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 | <p><u>Depending on the machine version:</u></p> <p>Stop in the tool bar: 140 mm 5.5 inch</p> <p>Pneumatic stop, standard: 140 / 237 mm 5.5 / 9.3 inch</p> <p>Pneum. stop, hood over clamping table: 405 / 500 mm 15.9 / 19.7 inch</p> <p>Pneum. stop with sensor, hood over clamping table: 405 / 550 mm 15.9 / 21.7 inch</p> <p><i>Smaller values for stop in the tool bar with manually fed material (from PowerCut 3.8)</i></p> | |
| Min. part length | 20 mm / 0.79 inch | |
| Min. rest piece length | <p>Standard: 50 mm / 1.97 inch</p> <p>Pneumatic downholder: 75 mm / 3 inch (E.g. with AML or gantry)</p> | |
| 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 | |

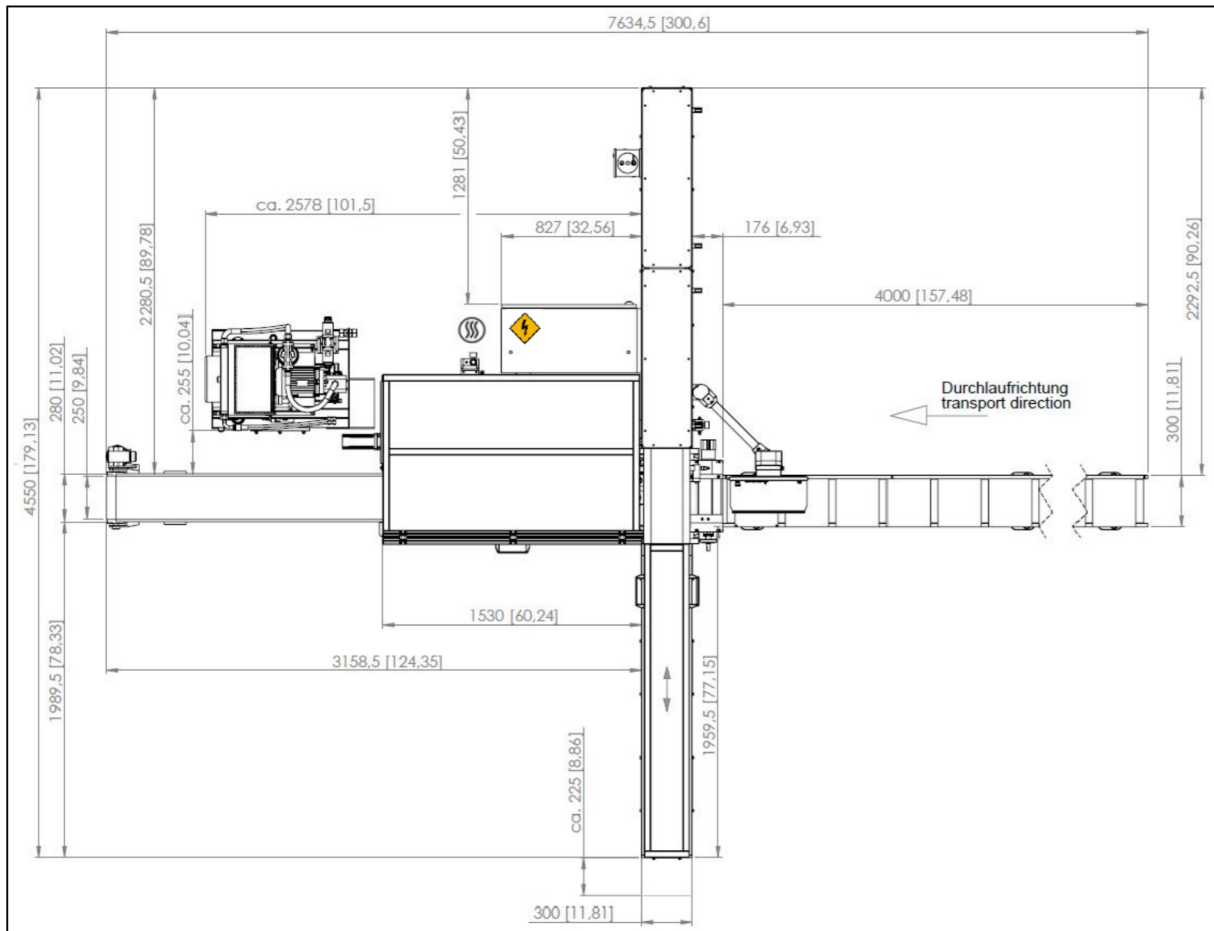
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| Interfaces | 2 x RJ45 10/100/1000 Mbit/s, 4 x USB 2.0, 1 x DVI-I | |
| Operating system | Windows 10 IoT | |
| Operating software | EHRT PowerCut | |
| User interface | Touchscreen, keyboard and buttons | |
| Electrical connection | IEC | UL |
| Voltage | 400 V AC \pm 10% | 460 V AC \pm 10% |
| Frequency | 50 Hz \pm 1% | 60 Hz \pm 1% |
| Electrical fuse protection | 63 A | 60 A |
| 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 | |

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FlexPunch: Top view of the machine (example)