FINN-POWER

PUNCHING

- LASER CUTTING
- BENDING
- INTEGRATED PUNCHING & SHEARING
- INTEGRATED PUNCHING & LASER CUTTING
- **FLEXIBLE MANUFACTURING SYSTEMS**



TECHNICAL DATA FINN-POWER C6 AND C8

Technical information C6 and C8

Ram force Punching stroke Number of stations / max. tools in turret Tools Punch diameter, max. CNC Index Tool: Number of stations Punch diameter, max. Tool rotation, max. Material thickness, max. Sheet weight, max. *1 Clamps C6 Max. sheet size X x Y without reposition C8 Max. sheet size X x Y without reposition X-traverse X-traverse, axis speed max. Y-traverse Y-traverse, axis speed max. Positioning speed, max. Hit speed max *2 1 mm between holes (0.039") 25 mm between holes (0.984) 250 mm between holes (9.84") Punching accuracy according to LKP-7100 *3 Hole location deviation (X/Y axes), max. Hole-to-hole distance deviation (X/Y axes), max Angular deviation (CNC Index Tool) max. Positioning accuracy according to VDI/DGQ 3441 *4 Positional deviation Pa (X/Y axes) Positional scatter P_S (X/Y axes) Turret rotation speed Tool change time *5 Work chute (option), max. part size CNC control Work memory Ethernet connection 100 MBs Machine weight Hydraulic unit drained weight Oil tank volume Oil cooler, cooling capacity Oil cooler air flow Electrical connection (E1)

Average power consumption *6 Requirements for connection power *7 Fuse

Compressed air connection (P1): Min. air pressure Max. air consumption Average air consumption *8

300 kN (33 US Tons) servohydraulic 20 pcs / 200 pcs Thick Turret. 89 mm (3.5")

standard 2 pcs (max.10 pcs) / 80 pcs 89 mm (3.5") 166 r/min 8 mm (0.31") 200 kg (440 lbs) pneumatic, 3 pcs (optional 4 pcs) 3,074 mm x 1,565 mm (121" x 61.2") 4,300 mm x 1,565 mm (169.3" x 61.2") 3,144 mm (123.78") 120 m/min (4724"/min) 1,615 mm (63.5") 60 m/min (2.362") 150 m/min (5905"/min)

1100 1/min 500 1/min 200 1/min

0.1 mm (0.004") ±0.05mm (0.002") ±0.1°

 $0.08 \text{ mm} / \pm 0.04 \text{ mm} (0.003" / \pm 0.0015")$ $0.04 \,\text{mm} / \pm 0.02 \,\text{mm} (0.0015" / \pm 0.001")$ 30 r/min 1...3s 500 mm x 500 mm (19.7" x 19.7") Siemens Sinumerik 840D Siemens: 1.5 MB Yes 13,000 kg (28,660 lbs) 600 kg (1322 lbs) 2001 (53 gal.) 0.64 kW/°C (0.36 kW/°F) 2.1 m³/s (74 cf/s)

15 kVA/13kW 35 kVA $3 \times 50 A$ (with $3 \times 400 V$)

6 bar (90 psi) 5 NI/s (11 cfm) 2,5 NI/s (5.5 cfm)

*1 Acceleration/deceleration rate of X- and Y-axes is dependent on sheet weight. Part accuracy depends on acceler ation/deceleration rate and sheet size and weight.

*2 Hit speed is dependent on the programmed stroke length, ram speed and acceleration/deceleration rate and speed of the axes.

*3 Punching accuracy is tested according to the FINN-POWER standard LKP-7100 by punching holes in a 1 m x 1 m (39.37" x 39.37") sheet with 100 % speed and by measuring the location (X/Y) and angle (CNC Index Tool) of the punched holes from the sheet.

*4 Positioning accuracy is measured according to the VDI/DGQ 3441 standard, using a laser interferometer measurement system, from the X- and Y-slides of the coordinate table of the machine.

*5 When using special tools the tool change time may differ from the given value.

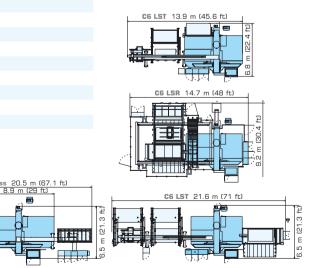
*6 Average power consumption is based on production run of a typical nesting program with nominal sheet size and 1.5 mm (0.06") sheet thickness. Effective value can be used when calculating energy costs.

*7 This value must be used when dimensioning the power supply to machine (transformer and cable sizes).

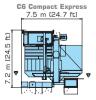
*8 Average air consumption is based on production run of a typical nesting program with nominal sheet size and 1.5 mm (0.06") sheet thickness. Value can be used when calculating energy costs.

We reserve the right to change technical specifications without prior notice.

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C6 Express 15.7 m (51.5 ft) C6 6.4 m (21 ft) m (21.3





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