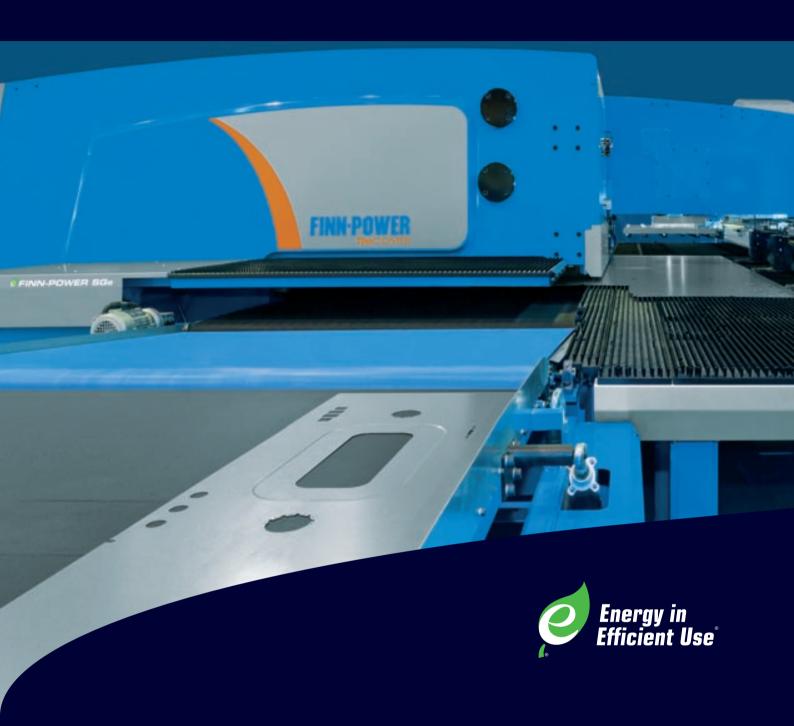
The PUNCH The LASER The BEND The COMBI The SYSTEM The SOFTWARE



## SERVO ELECTRIC SHEAR GENIUS® TECHNICAL INFORMATION

FINN-POWER

Main dimensions

without safety

## Technical information Shear Genius SGe6 / SGe8

standard 2 pcs (max.10 pcs) / 80 pcs

1,000 mm x 1,528 mm (39.37" x 60.15")

pneumatic, 3 pcs (optional 4 pcs)

3,074 mm x 1,524 mm (120" x 60")

4,300 mm x 1,524 mm (169" x 60")

Ram force Punching stroke

Number of stations / max. tools in turret

Punch diameter, max. Material thickness, max.

CNC Index Tool

Number of stations / max. tools in turret

Punch diameter, max. Tool rotation, max.

Upforming cylinder (indexable, option)

Force Stroke length 250 r/min

300 kN (33 US Tons)

servo electtric

20 pcs/200 pcs Thick Turret 89 mm (3.5")

8 mm (0.315")

89 mm (3.5")

200 kN (22 US Tons) 12 mm (0.472")

5 mm (0.196")

4 mm (0.157")

3 mm (0.118")

automatic, ACS

200 kg (440 lbs)

3 144 mm (123")

1,615 mm (63")

1,000 1/min

500 1/min

200 1/min

30 r/min

1...3s

80 GR

Standard

17 kVA

0.1 mm (0.004")

 $\pm 0.05 \, \text{mm} \, (\pm 0.002")$ 

 $0.08 \, \text{mm} / \pm 0.04 \, \text{mm} (0.003" / \pm 0.0015")$ 

 $0.04 \, \text{mm} / \pm 0.02 \, \text{mm} (0.0015" / \pm 0.001")$ 

500 mm x 500 mm (19.7" x 19.7")

Finn-Power PC based NC (TwinCat)

120 m/min (4.724"/min)

90 m/min (3,543"/min)

150 m/min (5,905"/min)

0.5 mm (0.019")

## Integrated Right angle shear

Material thickness, max. (shearing) - aluminium - steel Fe52 / Fe37 (max. 480 MPa)

- stainless steel

Material thickness, min. Full stroke, shear, X x Y Blade clearance setting Sheet weight, max. \*1 Clamps, programmable Sheet size X x Y, max. SG6

X-traverse

X-traverse, axis speed max.

Sheet size X x Y, max. SG8

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 Ps (X/Y axes)

Turret rotation Tool change time \*5

Work chute (option), max. part size

CNC control Program memory

Ethernet connection 100 Mbs. & USB

Machine weight

Electrical connection (E1)

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

Fuse

Compressed air connection (P1):

Min. air pressure

Air consumption, average - max. \*8

3 x 25 A (400 V)

6kVA/5kWh

6 bar (90 psi)

26,000 kg (57,320 lbs)

4-15 NI/s (8.5-32 cfm)

## Loading unit LD6/LD8

Sheet size min. (X x Y) Suction cups in loading gripper Suction cup suction pressure

Loading station load max. Sheet stack height on loading station, max. 600 mm x 300 mm (23.62" x 11.81")

14 areas Adjustable

3,000 kg (6,615 lbs) 250 mm (9.84")

devices SG8 9850 (387.80°) SG6 7220 (284.25°) (252. 6410 (

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

FINN-POWER, Combo FMS, Bendcam, Bendterm, Eco-bend, Ecocut, Ecopunch, Express, Flexibly yours, ISC, Multi-Tool, NC Express, Night Train FMS, Shear Genius, Shear Brilliance and Tulus are registered trademarks. All other product names identified throughout this publi-cation are trademarks or registered trademarks of their



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