120Hz

999HL
POWERFUL AND RELIABLE

INPUT

Power supply	**[50HzThree-phases+N+GND]**	400V a.c.
Pneumatic power (min.)	**[bar]**	5
Max power required (peak load)	**[kW]**	35

OUTPUT

Upper tool weight (up to)	**[up to kg]**	200
Generator power	**[kW]**	30
Vibration frequency	**[Hz]**	100-120
Vibration amplitude	**[mm]**	up to 4
PP equivalent welding area	**[cm²]**	750

Size of the area detected in the test environment

MECHANICAL DATA

Vibration plate dimensions	**[mm]**	1420x500
Lifting table stroke	**[mm]**	800
Lifting table maximum speed	**[mm/s]**	250
Clamp net force (Gross)	**[kN]**	36 (43)
Lifting table dimensions	**[mm]**	1900x850
Lifting table height	**[mm]**	710
Front-door span	**[mm]**	1890x1160
Upper door threshold	**[mm]**	1900
Clearance between planes	**[mm]**	1100-1500 (adjustable)
Overall dimensions	**[W×D×H mm]**	3500x2000x2900
Total weight	**[kg]**	10000
Hydraulic oil	**[Lt/ISO32]**	200
Machine Type	HYDRAULIC [1]	

CONTROL

PLC Control	Siemens S7 - CPU
HMI	Touch panel 12''
Vibration frequency tuning[2]	Continuous REALTIME
Welding steps **[pressure, amplitude]**	8
Welding depth sensitivity **[mm]**	0,01
Work settings memory	63 automatic equipment
Type of communication	Profinet/Profibus

The digital generator ensures very short swing on/off vibration phases (50ms)
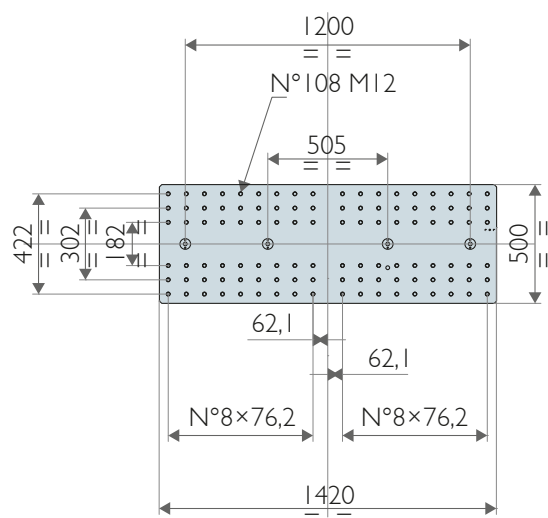
REFERENCES

Work outcome definition	Automatic (good/reject)
Work outcome printer	Custom Plus
Vacuum circuit	2 (opt. up to 3)
Pneumatic valves movements	5
Remote-assistance	Included
Automatic rear door (for rear loading/unloading)	Optional
Electrical sliding table	Optional
Noise level **[dBA EN ISO 11202]**	≤ 80

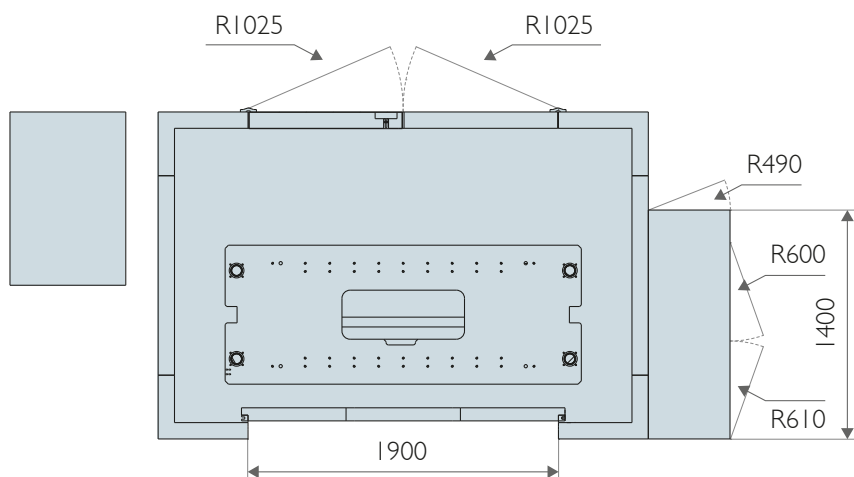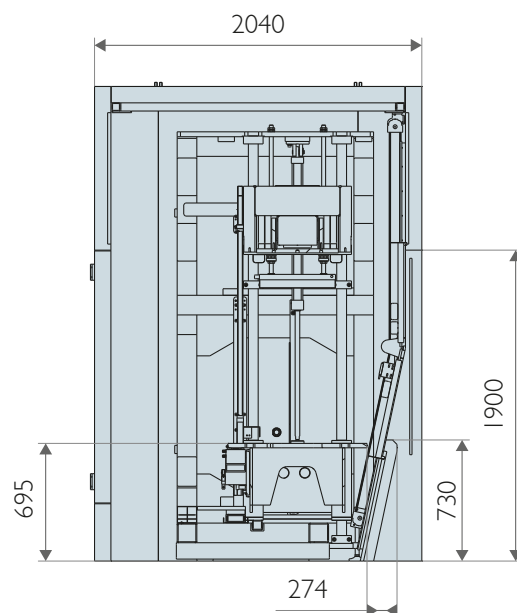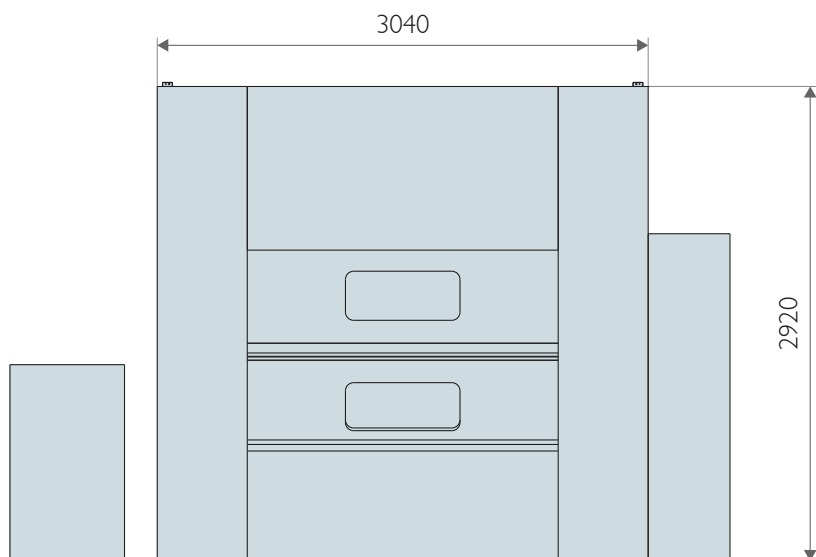*Peak values can be higher for short periods depending on the application.*

MORE INFO

[1] *Mobile table movement performed with hydraulic control unit in a dedicated area.*

[2] *Thanks to our third-generation controller we have been able to eliminate the necessity of the auto-tuning cycle: the machine can adapt to the vibration frequency in real-time following the mechanical reactions of the vibrating system. Therefore, the outcome is a neater and more efficient vibration than the one obtained employing second-generation old systems.*

The machine can be customized with some standard options, contact us for a personalized offer.

UPPER PLATE

1200
N°108 M12
505
422
302
182
500
62,1
62,1
N°8×76,2   N°8×76,2
1420

LOWER PLATE

1600
1500
N°40 M12
850
630
530
630
N°4×150= 600
N°4×150= 600
MAX 1890

3040
2920

2040
1900
695
730
274

R1025   R1025
R490
R600
1400
R610
1900

999HL