



FERIOLI FILIPPO S.p.A.

**Head office and production**

21055 Gorla Minore (VA)

Via Vallazza, 30

**Production unit**

20027 Rescaldina (MI)

Via Leopardi, 27

Phone +39-0331-466643

Fax +39-0331-579345

**Study and realization of high-tech machineries - Turnery, grinding and lapping of mechanical pieces  
Production of screw and barrel for plastic materials, also in Doalloy®**

**UNDERVACUUM LAMINATION PRESS  
FOR MULTIOPENING PRESSED CIRCUITS WITH MANUAL LOADING**

***FFF FASTENPRESS MULTIOPENING 70/4***

Number of hollows	4 nr.
Usable tables area	650x550 mm
Rack spacing	52 mm
Max press force	687 K/n
Max laminating pressure	192 N/cm <sup>2</sup>
Installed motor power	1,5 kW
Max operating temperature	320 °C
Max heating up rate	10 °C
Max vacuum	15 mbar
Water consumption	closed circuit (l/min)

**UNDERVACUUM LAMINATION PRESS  
FOR MULTIOPENING PRESSED CIRCUITS WITH MANUAL LOADING**

***FFF FASTENPRESS MULTIOPENING 70/10***

Number of hollows	10 nr.
Usable tables area	650x550 mm
Rack spacing	52 mm
Max press force	687 K/n
Max laminating pressure	192 N/cm <sup>2</sup>
Installed motor power	1,5 kW
Max operating temperature	320 °C
Max heating up rate	10 °C
Max vacuum	15 mbar
Water consumption	closed circuit (l/min)



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**UNDERVACUUM LAMINATION PRESS  
FOR MULTIOPENING PRESSED CIRCUITS WITH MANUAL LOADING**

***FFF FASTENPRESS MULTIOPENING 120/10***

Consisting of:

PC Supervisor Cabinet

Hydraulic Press

Vacuum pump

200 Lt. Cooling tank with pump and heat exchanger (closed circuit)

Engineering Data

Maximum clamping pressure:

120 Ton

Usable table size

650 x 750 mm

Number of hollows

10

Rack spacing

32 mm

Table balance method:

mechanical

Heating plate thickness:

21 mm

Parallelism:

0.03/300 mm

Flatness:

0.03/300 mm

Roughness:

RA 0,8

Maximum heating temperature

250°C (standard)

Heating accuracy:

+/- 3°C

Heating rate:

15°C/min

Electronically differentiated heating power

45 kw

Number of temperature thermocouples

2 each table

Tables treated with chemical nickel suitable for temperature at 320° C

Cables and harness suitable for high temperature

Relais 100 Ampere insulation plates

General data:

Power supply

380V/50Hz

Auxiliary supply

110V AC

Control supply

24V AC

Size of the electrical cabinet

Width:

1000 mm approx

Depth:

600 mm approx

Height:

2000 mm approx

Size of the control cabinet for PC

Width:

600 mm approx

Depth:

600 mm approx

Height:

1800 mm approx

Size of the press:

Width:

1250 mm approx

Depth:

1250 mm approx

Height:

3200 mm approx

Gross weight:

5800 Kg approx



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**UNDERVACUUM LAMINATION PRESS  
FOR MULTIOPENING PRESSED CIRCUITS WITH MANUAL LOADING**

***FFF FASTENPRESS MULTIOPENING 150/10***

Consisting of:

PC Supervisor Cabinet

Hydraulic Press

Vacuum pump

100 Lt. Cooling tank

Engineering Data

Maximum clamping pressure:

150 Ton

Usable table size

650 x 750 mm

Number of hollows

10

Rack spacing

32 mm

Table balance method:

mechanical

Heating plate thickness:

21 mm

Parallelism:

0.03/300 mm

Flatness:

0.03/300 mm

Roughness:

RA 0,8

Maximum heating temperature

320°C (optional)

Maximum heating temperature

250°C (standard)

Heating accuracy:

+/- 3°C

Heating rate:

15°C/min

Electronically differentiated heating power

60 kw

Number of temperature thermocouples

2 each table

Max barrel force

150 Tons

Tables treated with chemical nickel suitable for temperature at 320°C

Cables and harness suitable for high temperature

Relaies 100 Ampere

Insulations plates

General data:

Power supply

380V/50Hz

Auxiliary supply

110V AC

Control supply

24V AC

Size of the electrical cabinet

Width:

1000 mm approx

Depth:

600 mm approx

Height:

2000 mm approx

Size of the control cabinet

Width:

600 mm approx

Depth:

600 mm approx

Height:

1800 mm approx

Size of the press:

Width:

1250 mm approx

Depth:

1250 mm approx

Height:

3200 mm approx

Gross weight:

6500 Kg approx



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**UNDERVACUUM LAMINATION PRESS  
FOR MULTIOPENING PRESSED CIRCUITS**

***FFF FASTENPRESS MULTIOPENING 150/15***

Consisting of:

PC Supervisor Cabinet  
Hydraulic Press  
Vacuum pump  
100 Lt. Cooling tank  
Robotic pick and place arm

Engineering Data

Maximum clamping pressure:	150 Ton
Usable table size	650 x 750 mm
Number of hollows	15
Rack spacing	32 mm
Table balance method:	mechanical
Heating plate thickness:	21 mm
Parallelism:	0.03/300 mm
Flatness:	0.03/300 mm
Roughness:	RA 0,8
Maximum heating temperature	320°C (optional)
Maximum heating temperature	250°C (standard)
Heating accuracy:	+/- 3°C
Heating rate:	15°C/min
Electronically differentiated heating power	60 kw
Number of temperature thermocouples	2 each table
Max barrel force	150 Tons

Tables treated with chemical nickel suitable for temperature at 320°C  
Cables and harness suitable for high temperature  
Relaies 100 Ampere  
Insulations plates

General data:

Power supply	380V/50Hz
Auxiliary supply	110V AC
Control supply	24V AC

Size of the electrical cabinet

Width:	1000 mm approx
Depth:	600 mm approx
Height:	2000 mm approx

Size of the control cabinet

Width:	600 mm approx
Depth:	600 mm approx
Height:	1800 mm approx

Size of the press:

Width:	1250 mm approx
Depth:	1250 mm approx
Height:	3200 mm approx
Gross weight:	9000 Kg approx



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**UNDERVACUUM LAMINATION PRESS FOR MULTIOPENING PRESSED CIRCUITS WITH  
AUTOMATIC LOADING THROUGH ROBOT AND CONVEYOR AND LAY-UP TABLES**

***FFF FASTENPRESS MULTIOPENING 150/20***

Consisting of:

PC Supervisor Cabinet

Hydraulic Press

Vacuum pump

100 Lt. Cooling tank

Robotic pick and place arm

Engineering Data

Maximum clamping pressure:

150 Ton

Usable table size

650 x 750 mm

Number of hollows

20

Rack spacing

32 mm

Table balance method:

mechanical

Heating plate thickness:

21 mm

Parallelism:

0.03/300 mm

Flatness:

0.03/300 mm

Roughness:

RA 0,8

Maximum heating temperature

320°C (optional)

Maximum heating temperature

250°C (standard)

Heating accuracy:

+/- 3°C

Heating rate:

15°C/min

Electronically differentiated heating power

60 kw

Number of temperature thermocouples

2 each table

Max barrel force

150 Tons

Tables treated with chemical nickel suitable for temperature at 320°C

Cables and harness suitable for high temperature

Relaies 100 Ampere

Insulations plates

General data:

Power supply

380V/50Hz

Auxiliary supply

110V AC

Control supply

24V AC

Size of the electrical cabinet

Width:

1000 mm approx

Depth:

600 mm approx

Height:

2000 mm approx

Size of the control cabinet

Width:

600 mm approx

Depth:

600 mm approx

Height:

1800 mm approx

Size of the press:

Width:

1250 mm approx

Depth:

1250 mm approx

Height:

3200 mm approx

Gross weight:

9500 Kg approx



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***FFF FASTENPRESS MULTIOPENING 300/20***

Consisting of:

PC Supervisor Cabinet  
Hydraulic Press  
Vacuum pump  
400 Lt. Cooling tank  
Robotic pick and place arm

Engineering Data

Maximum clamping pressure:	300 Ton
Usable table size	750 x 1300 mm
Number of hollows	20
Rack spacing	32 mm
Table balance method:	mechanical
Heating plate thickness:	21 mm
Parallelism:	0.03/300 mm
Flatness:	0.03/300 mm
Roughness:	RA 0,8
Maximum heating temperature	320°C (optional)
Maximum heating temperature	250°C (standard)
Heating accuracy:	+/- 3°C
Heating rate:	15°C/min
Electronically differentiated heating power	60 kw
Number of temperature thermocouples	2 each table
Max barrel force	150 Tons

Tables treated with chemical nickel suitable for temperature at 320°C

Cables and harness suitable for high temperature

Relaies 100 Ampere

Insulations plates

General data:

Power supply	380V/50Hz
Auxiliary supply	110V AC
Control supply	24V AC

Size of the electrical cabinet

Width:	1000 mm approx
Depth:	600 mm approx
Height:	2000 mm approx

Size of the control cabinet

Width:	600 mm approx
Depth:	600 mm approx
Height:	1800 mm approx

Size of the press:

Width:	1250 mm approx
Depth:	1800 mm approx
Height:	3200 mm approx
Gross weight:	16000 Kg approx



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***FF FASTENPRESS MULTIOPENING 600/30***

Consisting of:

PC Supervisor Cabinet

Hydraulic Press

Vacuum pump

800 Lt. Cooling tank

Robotic pick and place arm

Engineering Data

Maximum clamping pressure:	600 Ton
Usable table size	1500 x 1300 mm
Number of hollows	30
Rack spacing	70 mm
Table balance method:	mechanical
Heating plate thickness:	25 mm
Parallelism:	0.03/300 mm
Flatness:	0.03/300 mm
Roughness:	RA 0,8
Maximum heating temperature	320°C (optional)
Maximum heating temperature	250°C (standard)
Heating accuracy:	+/- 3°C
Heating rate:	15°C/min
Electronically differentiated heating power	60 kw
Number of temperature thermocouples	2 each table
Max barrel force	150 Tons
Tables treated with chemical nickel suitable for temperature at 320°C	
Cables and harness suitable for high temperature	
Relaies 100 Ampere	
Insulations plates	

General data:

Power supply	380V/50Hz
Auxiliary supply	110V AC
Control supply	24V AC

Size of the electrical cabinet

Width:	1000 mm approx
Depth:	600 mm approx
Height:	2000 mm approx

Size of the control cabinet

Width:	600 mm approx
Depth:	600 mm approx
Height:	1800 mm approx

Size of the press:

Width:	2200 mm approx
Depth:	2200 mm approx
Height:	5100 mm approx
Gross weight:	32000 Kg approx