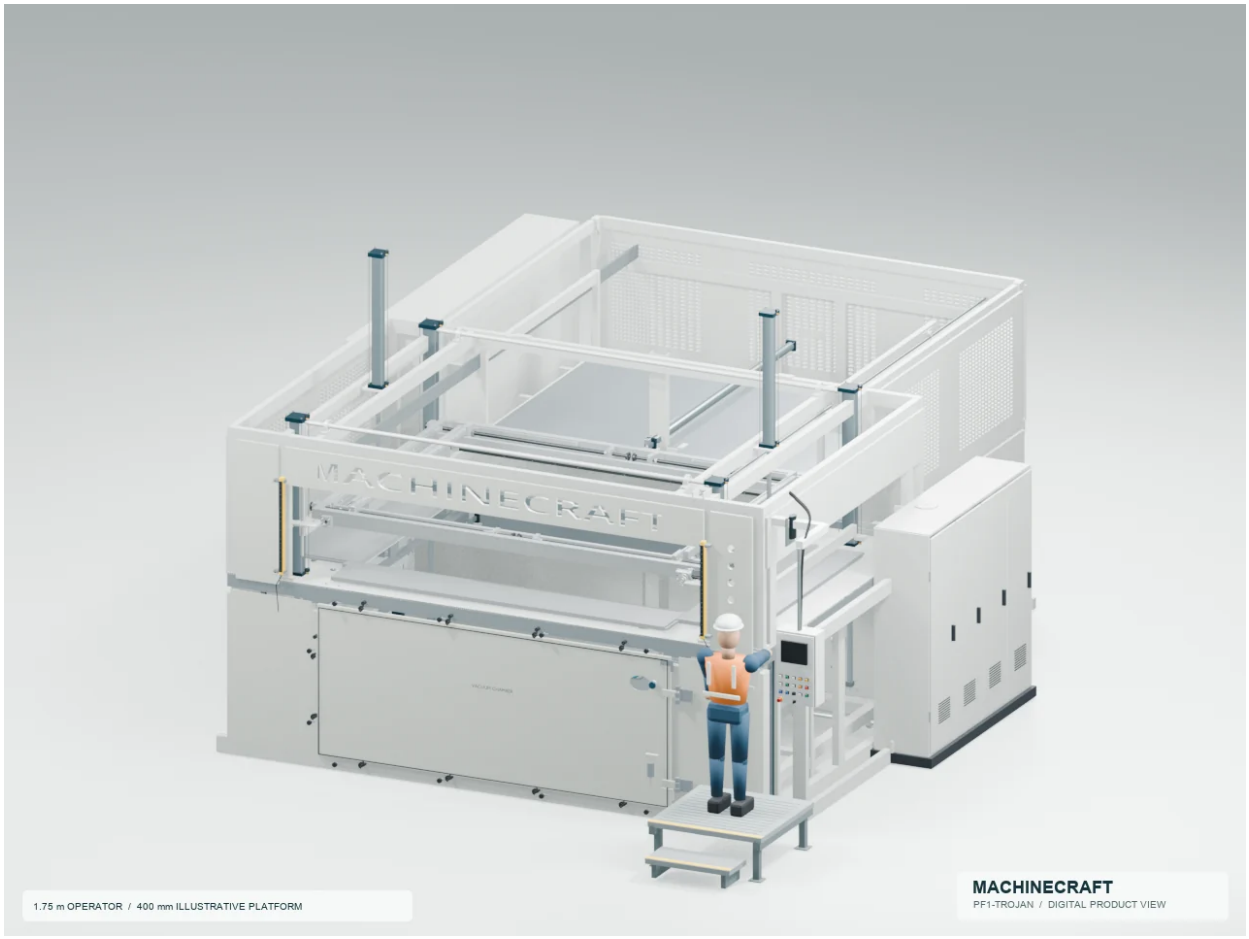
The PF1-U Series

Seven pneumatic forming configurations / length x opening depth



UNIVERSAL FRAMES. INDEPENDENT TOOL LOCKING.

A common pneumatic configuration across seven clear forming openings. Universal frames with inward T-slots and matching centre members support two tool bays. Each bay has its own paired locking set, with positioning and locking hand-lever controls.

The aluminium grid plate supports adjustable rubber seal routing around the tool footprint. Independent vacuum and release circuits serve the two bays. Cooling passages beneath the base plate are an optional addition.

This guide describes the current model family. Opening sizes and maximum tool depths are the specified configurations; provisional heights, strokes and cylinder selections are labelled on the following sheets.

Compare the seven sizes

All dimensions in mm, except area in m²

Opening L x D	Tool depth	Area	Sheet line	Table	Frame
1000 x 800	400	0.80	1264	800	600
1200 x 1000	400	1.20	1264	800	600
1800 x 1200	500	2.16	1364*	900*	700*
1500 x 1000	500	1.50	1364*	900*	700*
2400 x 1200	650	2.88	1514*	1050*	850*
2000 x 1500	500	3.00	1364*	900*	700*
3000 x 2000	800	6.00	1664*	1200*	1000*

* Preliminary family values for the deeper variants. The 400 mm models use a confirmed family sheet line of 1,264 mm with an 800 mm table stroke and 600 mm frame stroke. Maximum tool depth is vertical and separate from front-to-back opening depth.

PROJECT-SPECIFIC ITEMS

Heater power and zoning, connected load, voltage/frequency, air consumption, vacuum capacity, tool-load capacity, minimum adjusted openings, overall dimensions, machine weight and transport details are confirmed during project specification. They have not been inferred from the visual models.

OPTIONAL COOLED BASE PLATE

The configuration shown includes the machined grid plate and rubber seal routing. Cooling passages beneath the grid are an additional option and are specified separately.

OPERATOR SCALE REFERENCE

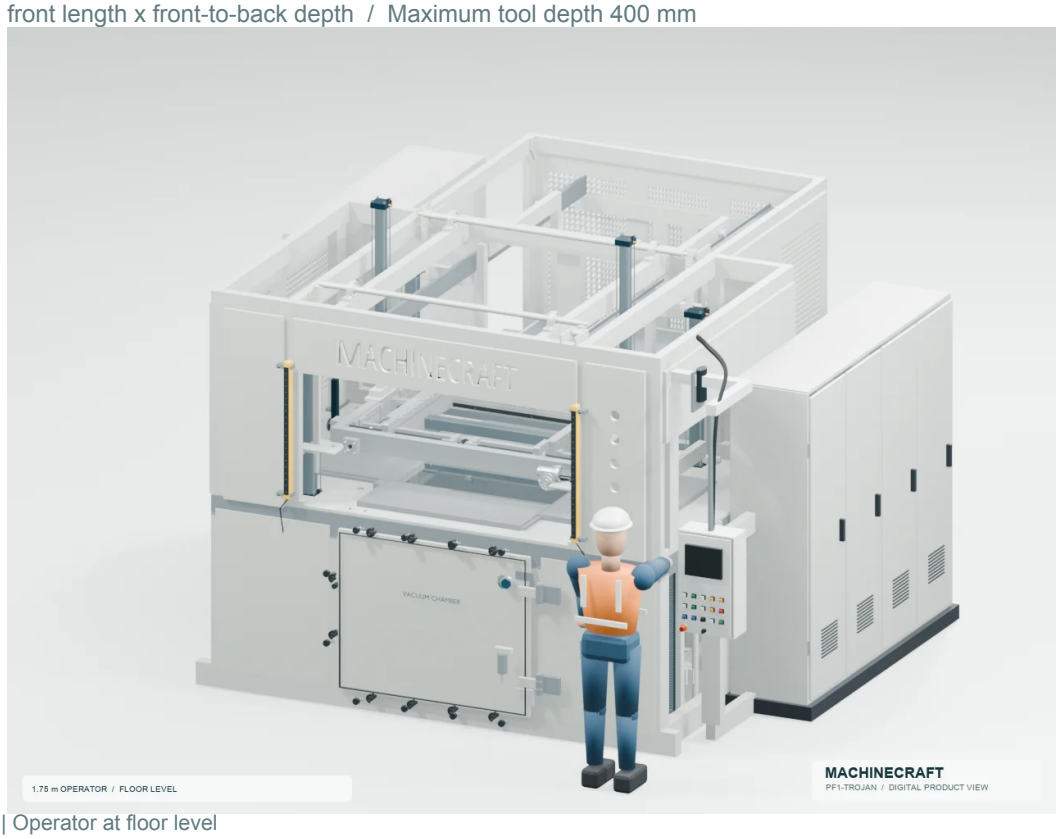
Every model shows a 1.75 m operator. Platforms: 100 mm for 500 mm tool depth, 250 mm for 650 mm, and 400 mm for 800 mm. Illustrative access platforms, not an included accessory specification.

MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 1,000 x 800

Clear opening: front length x front-to-back depth / Maximum tool depth 400 mm



1.75 m operator | Operator at floor level

Clear forming opening	**1,000 x 800 mm**
Maximum vertical tool depth	**400 mm**
Clear forming area	**0.80 m²**
Floor-to-sheet height	**1,264 mm**
Pneumatic table stroke	**800 mm**
Pneumatic upper-frame stroke	**600 mm**
Table lift cylinders - preliminary	**4 x Ø 80 x 800 mm**
Upper-frame cylinders - preliminary	**2 x Ø 63 x 600 mm**
Heater traverse bore - preliminary	**Ø 40 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

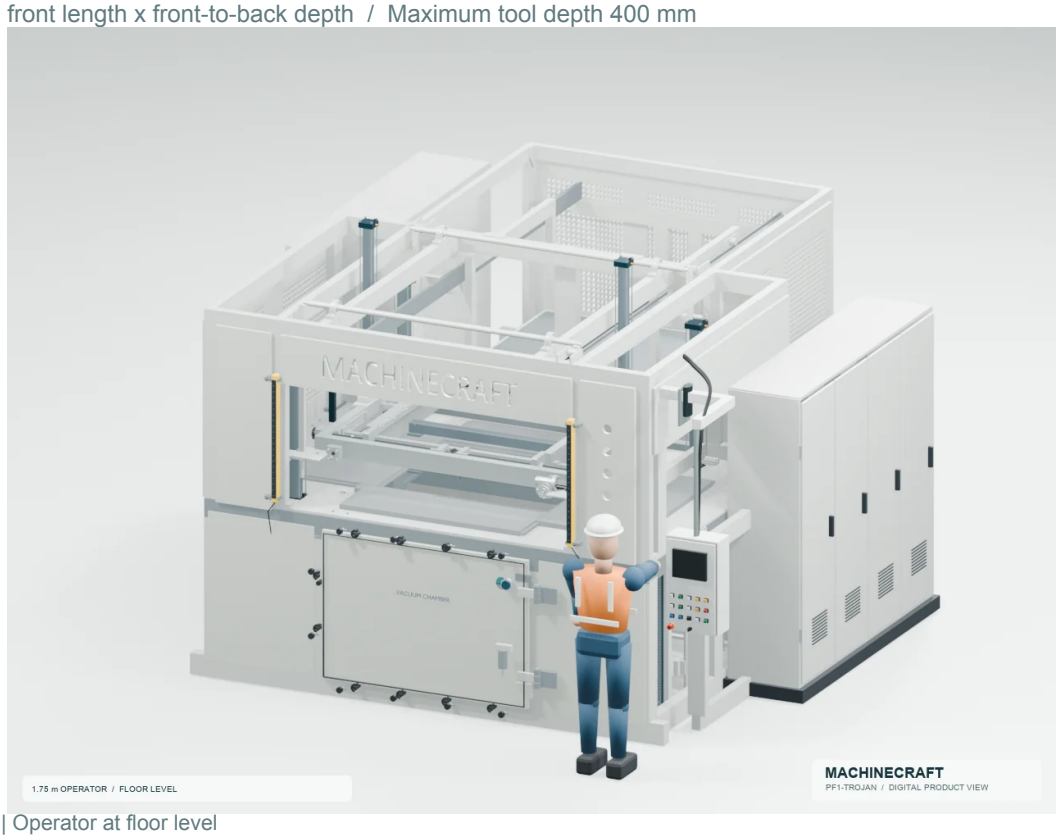
The 400 mm configuration uses the confirmed family height and strokes. All cylinder selections are preliminary. Final tool-load capacity, minimum openings, power, utilities, overall dimensions and machine weight are confirmed in the project offer. Rendered configuration; not a manufacturing drawing.

MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 1,200 x 1,000

Clear opening: front length x front-to-back depth / Maximum tool depth 400 mm



1.75 m operator | Operator at floor level

Clear forming opening	**1,200 x 1,000 mm**
Maximum vertical tool depth	**400 mm**
Clear forming area	**1.20 m²**
Floor-to-sheet height	**1,264 mm**
Pneumatic table stroke	**800 mm**
Pneumatic upper-frame stroke	**600 mm**
Table lift cylinders - preliminary	**4 x Ø 80 x 800 mm**
Upper-frame cylinders - preliminary	**2 x Ø 63 x 600 mm**
Heater traverse bore - preliminary	**Ø 40 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

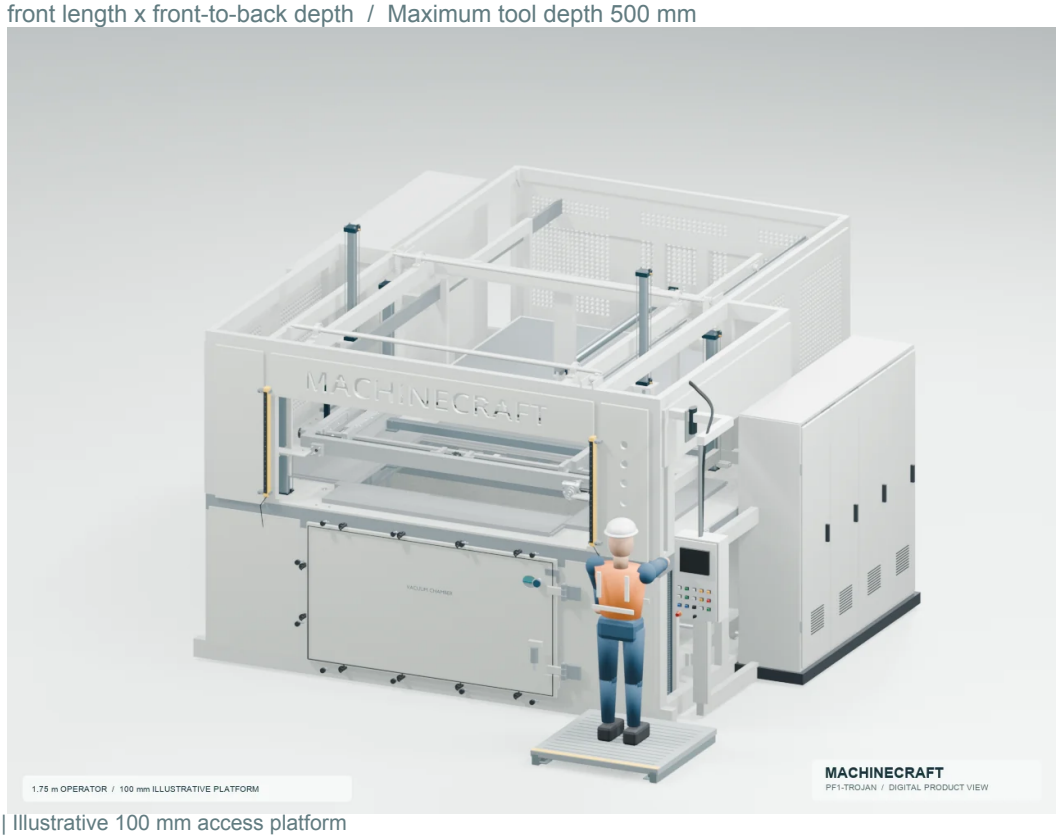
The 400 mm configuration uses the confirmed family height and strokes. All cylinder selections are preliminary. Final tool-load capacity, minimum openings, power, utilities, overall dimensions and machine weight are confirmed in the project offer. Rendered configuration; not a manufacturing drawing.

MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 1,800 x 1,200

Clear opening: front length x front-to-back depth / Maximum tool depth 500 mm



1.75 m operator | Illustrative 100 mm access platform

Clear forming opening	**1,800 x 1,200 mm**
Maximum vertical tool depth	**500 mm**
Clear forming area	**2.16 m²**
Floor-to-sheet height	**1,364 mm***
Pneumatic table stroke	**900 mm***
Pneumatic upper-frame stroke	**700 mm***
Table lift cylinders - preliminary	**4 x Ø 80 x 900 mm**
Upper-frame cylinders - preliminary	**2 x Ø 63 x 700 mm**
Heater traverse bore - preliminary	**Ø 50 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

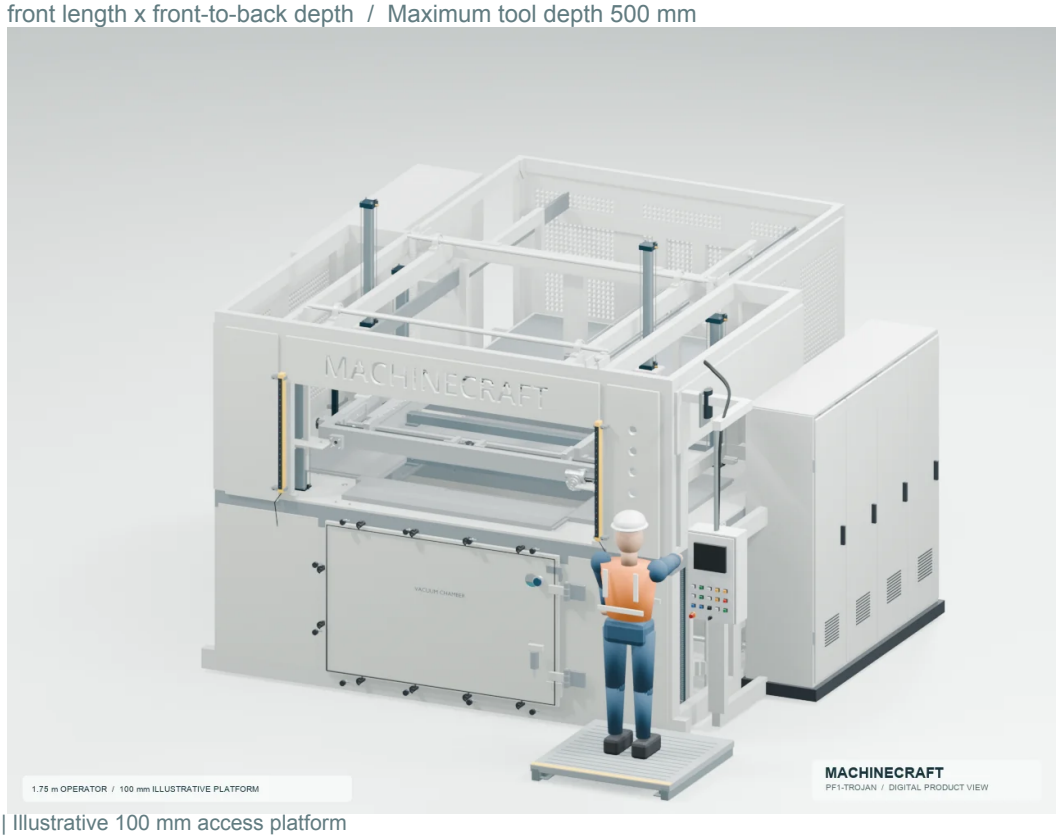
* Height and strokes are preliminary derived family values. All cylinder selections are preliminary. Final tool-load capacity, minimum openings, power, utilities, overall dimensions and machine weight are confirmed in the project offer. Rendered configuration; not a manufacturing drawing.

MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 1,500 x 1,000

Clear opening: front length x front-to-back depth / Maximum tool depth 500 mm



1.75 m operator | Illustrative 100 mm access platform

Clear forming opening	**1,500 x 1,000 mm**
Maximum vertical tool depth	**500 mm**
Clear forming area	**1.50 m²**
Floor-to-sheet height	**1,364 mm***
Pneumatic table stroke	**900 mm***
Pneumatic upper-frame stroke	**700 mm***
Table lift cylinders - preliminary	**4 x Ø 80 x 900 mm**
Upper-frame cylinders - preliminary	**2 x Ø 63 x 700 mm**
Heater traverse bore - preliminary	**Ø 50 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

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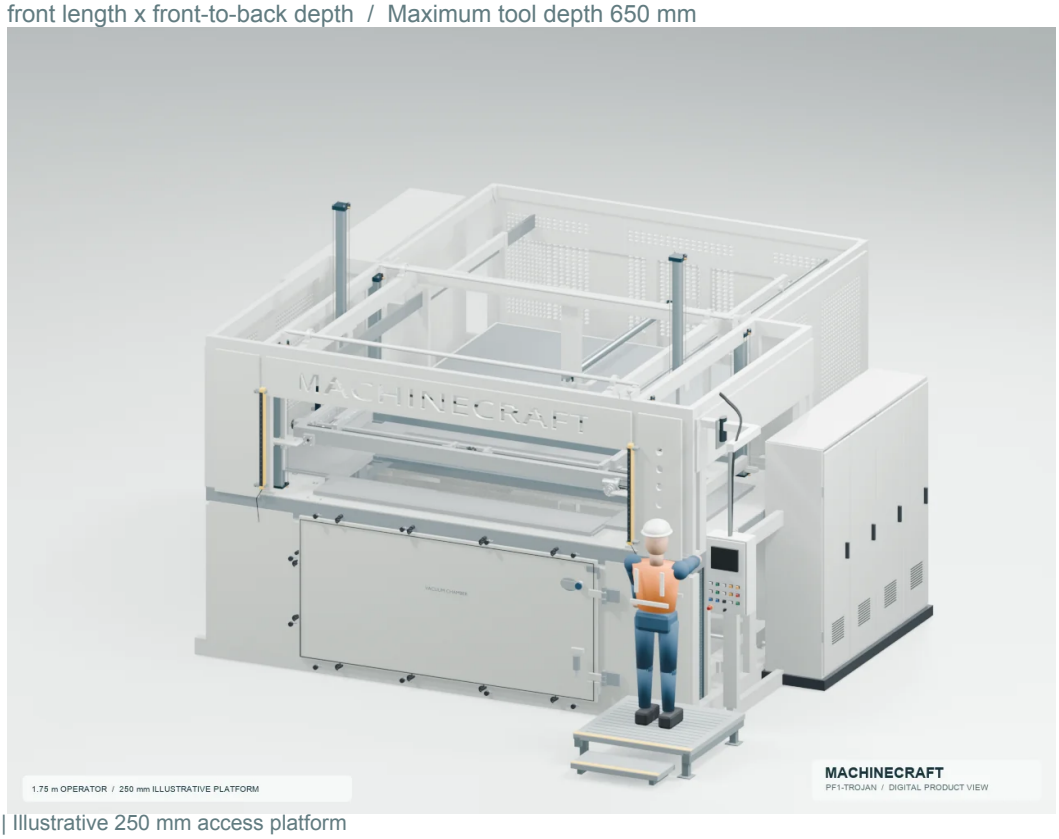
MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 2,400 x 1,200

Clear opening: front length x front-to-back depth / Maximum tool depth 650 mm



1.75 m operator | Illustrative 250 mm access platform

Clear forming opening	**2,400 x 1,200 mm**
Maximum vertical tool depth	**650 mm**
Clear forming area	**2.88 m²**
Floor-to-sheet height	**1,514 mm***
Pneumatic table stroke	**1,050 mm***
Pneumatic upper-frame stroke	**850 mm***
Table lift cylinders - preliminary	**4 x Ø 100 x 1050 mm**
Upper-frame cylinders - preliminary	**2 x Ø 80 x 850 mm**
Heater traverse bore - preliminary	**Ø 50 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

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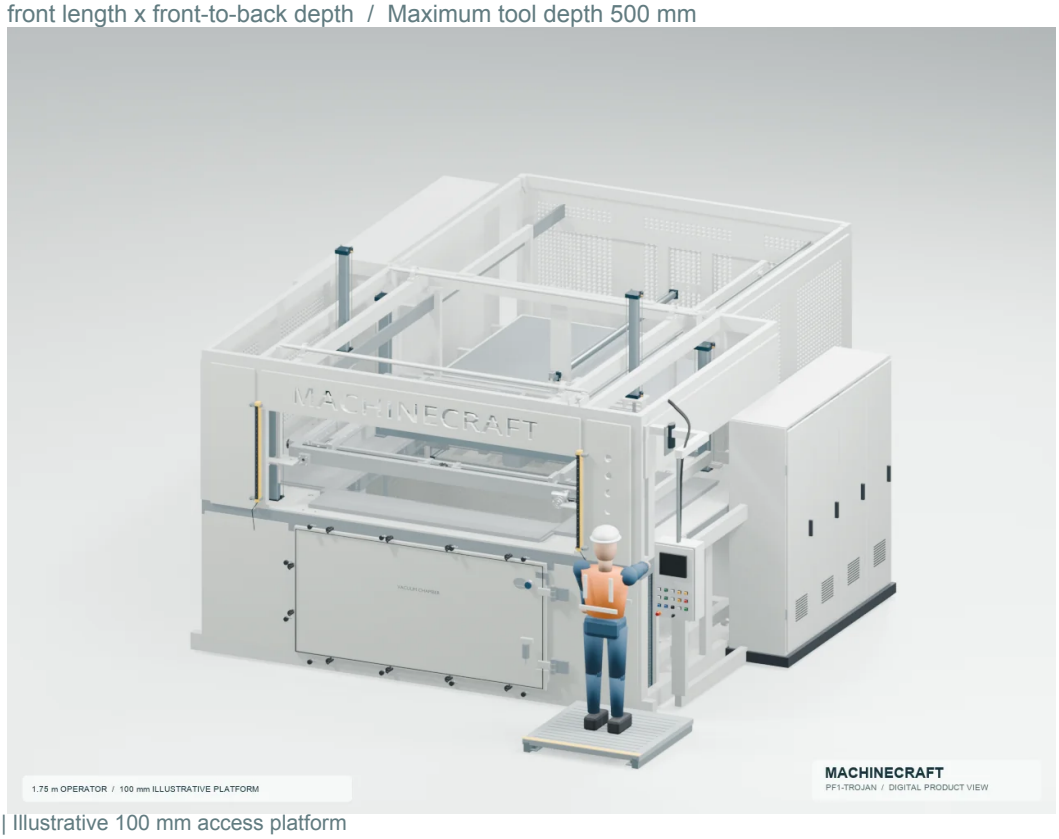
MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 2,000 x 1,500

Clear opening: front length x front-to-back depth / Maximum tool depth 500 mm



1.75 m operator | Illustrative 100 mm access platform

Clear forming opening	**2,000 x 1,500 mm**
Maximum vertical tool depth	**500 mm**
Clear forming area	**3.00 m²**
Floor-to-sheet height	**1,364 mm***
Pneumatic table stroke	**900 mm***
Pneumatic upper-frame stroke	**700 mm***
Table lift cylinders - preliminary	**4 x Ø 100 x 900 mm**
Upper-frame cylinders - preliminary	**2 x Ø 80 x 700 mm**
Heater traverse bore - preliminary	**Ø 50 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

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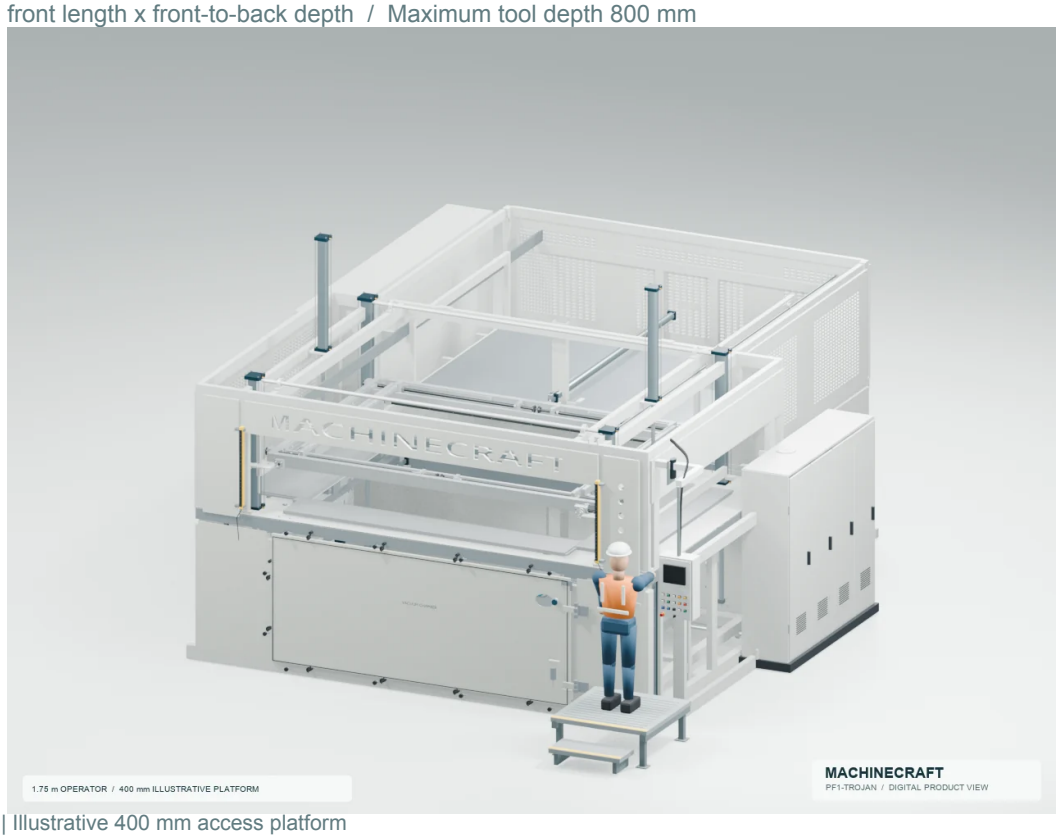
MACHINECRAFT

ENGINEERED TO FORM

PF1-U | 3,000 x 2,000

Clear opening: front length x front-to-back depth / Maximum tool depth 800 mm



1.75 m operator | Illustrative 400 mm access platform

Clear forming opening	**3,000 x 2,000 mm**
Maximum vertical tool depth	**800 mm**
Clear forming area	**6.00 m²**
Floor-to-sheet height	**1,664 mm***
Pneumatic table stroke	**1,200 mm***
Pneumatic upper-frame stroke	**1,000 mm***
Table lift cylinders - preliminary	**4 x Ø 125 x 1200 mm**
Upper-frame cylinders - preliminary	**2 x Ø 100 x 1000 mm**
Heater traverse bore - preliminary	**Ø 63 mm**
Tool-locking arrangement	**2 independent sets / 2 heads per set**

CONFIGURATION SHOWN

Universal frames with matching centre members; aluminium grid plate and rubber seals; separate pneumatic hand-lever controls; independent vacuum/release circuits; upper and lower heaters; manual sheet loading; no plug assist.

Optional: cooled base plate, specified separately.

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