DuPont - Cyrel ®

Cyrel ® 1000 P / 2000 P / 3000 P

Pre Installation MANUAL

(subject to technical changes)
1000 P / 2000 P / 3000 P (04/02)

Contents

5. Information on the operation on the machine

6. Operation

7. Instructions for equipment maintenance

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1. About the machine

1.6 Data on noise emissions

Noise emissions < 70 db(A)

1.7 Information on ventilation and fumes

Permissible workplace concentrations:
- Perchlorethylene: 50 ppm (MAK)
- FLEXOSOL: 300 ppm (OEL)

Adequate ventilation of the production room must be provided.

Attention:
The room air must be ventilated out from floor level because the solvent fumes can be heavier than air (depending on solvent, i.e. when using Per).

The cleaning solution poses a threat to the water supply and must not reach the sewage system or get into the ground! A safety collection tank must be set up that can take up the entire volume of solvent (standard equipment).
The floor of the production room must be even.
In addition, the floor must be sealed with a water-repellent coating that must also be resistant to the solvent used.
Any available floor drainage must not be connected to the sewer system.

The machine's suction ventilation is located at plate input and at plate output. The exhaust line for the ventilator may not be longer than 10 m with a maximum of 2-3 / 90° bends

For exhaust lines more than 10 m in length, an additional blower must be added. This must create light low pressure at the machine ventilation points. Performance at full operation is to be set to ca. 200 m³/h with the aid of an adjustable damper.

2. Transporting and setting up the machine

The unloading as well as the transport of the machine may only be carried out by authorized specialists. For this work, personal protective equipment i.e. safety shoes and leather gloves are to be used!

2.1 Unloading

The machine is basically delivered on a palette (or packed for oversees shipping) and should be unloaded from the truck complete with packing.
When unloading the machine from the palette, be sure to lift the machine only from the bottom of the frame at the marked points and make sure no parts become damaged. The side and top sheet metal of the machine must be removed first. The machine is anchored to the cross beams with 6 fastening bolts (tool: socket wrench SW17). The output (only 2000 P and 3000 P) is secured with straps. These must also be removed.
Lift the machine with a forklift (2.2 meter fork length) and screw in the feet. Here, clearance of 110 mm must be maintained, as the safety tank (100 mm) must still be placed under the machine.
(cf. Set-up plan, space requirement – transport plan)
(cf. Loading plan)
(cf. Pre-loading plan)

2.2 Transporting

Unloading the machine at its final location should carried out with the appropriate means of transport, carefully and without warping. At this point, transport paths, door widths and the swinging radius are to be taken into account. (cf. Set-up plan, space requirement – transport plan)

Should space circumstances not allow transport of the complete machine, it is possible to dismantle the output (cf. Set-up: assembly / dismantling instructions for the output). These tasks must be carried out by trained personnel.

2.3 Setting up and aligning

When setting up the machine, there must be sufficient space between it and the walls and other machines to allow for service and maintenance work. The distance should be about 1 m.
(cf. Set-up plan, space requirement – transport plan)

At the point of set-up, the machine is to be aligned precisely with a spirit-level. For this, the cover of the washout area must be removed. The spirit-level is laid on the top edge of the tank and the machine is aligned exactly with the aid of the adjustable feet.

For installation of the safety tank, a distance of 110 to 115 mm, floor – bottom edge of the frame, is to be observed.

2.4 Foundation

A special foundation for the machine is not required. The load bearing capacity of the floor should be 1000 kg/m². The weight of the machine is taken from the specification tables.

3. Bringing the machine into service

3.1 Requirements for fixing and anchoring

The machine rests on it´s levelling feet; a special fixture is not required

3.2 Conditions for installation

The floor of the production room must be even.
Furthermore, the floor must be sealed with a water-repellent coating that must also be resistant to the solvent used.
Any existing floor drainage systems must not connect to the waste water system.

3.3 Space requirements for operation, service and maintenance

Feeding and removing plates takes place at either end of the machine. In order to allow for service work, there must be at least 1 m of free space surrounding the machine.
(cf. Set-up plan, space requirements – transport plan)

3.4 Permissible ambient conditions

The environment should be similar to that in an office.
Recommended room lighting: Lumilux Interna W 31 – OSRAM
Natural light UVA screened
Room temperature: 22°C
Relative humidity: ca.55%

3.5 Connecting to the power supply; Preparation for putting into operation, first filling

Electrical connection
(recommendation)
Connect the machine through a wall switch or fuse switch.(lockable)
Follow connection terms of local power companies and all local codes.

Compressed air connection
dry, 6 bar / 200 l/min – via DIN, ½“ hose connection.

Machine ventilation
The ventilation line must correspond to the dia (100 mm) of the exhaust flange. It must be installed so that the ventilation opening terminates well outdoors and outside of the workrooms. Continuing ducts can consist of galvanized steel tubing or a suitable synthetic tubing.
Exhaust ducts appropriate for the machine ventilation volume (ca. 200 m³/h) should be installed. Installing an adjustable damper is recommended.

Solvent supply connection
The standard version of the machine is suitable for **“drum-to-drum”** operation.
Here, fresh solvent appropriate for the size of the plate is supplied to the system from a drum. The saturated dirty solvent is pumped off into an empty drum.
Delivery of the standard version of the machine contains one level switch each for the fresh and for the used solvent drums (200 l). The level switches are to be put into the top side of the respective drums. The longer level switch is used for the fresh solvent drum; the shorter one for the used solvent drum. The switches will be labeled accordingly.
For connecting the **line from drum to processor**, connection points are provided on the back side of the machine. The other ends of the line are to be fitted into the second opening on the top side of the drums.
Attention
Be sure that the connecting lines are not longer than 10 m and that they lie in one plane. For security reasons, the entire length of the line must be visible.

As **material** for the **connecting tubes**, gasoline- and oil-tight tubing will be used. (- independent of solvent -)
As an alternative to this, sturdy tubing can also be used. This must be equipped with a flexible connector at the corresponding drum side.

If the machine is operated with permanently installed tanks, special level switches are to be fitted for the tanks.
(Ex- or intrinsically safe level gauge in Ex-Rooms)

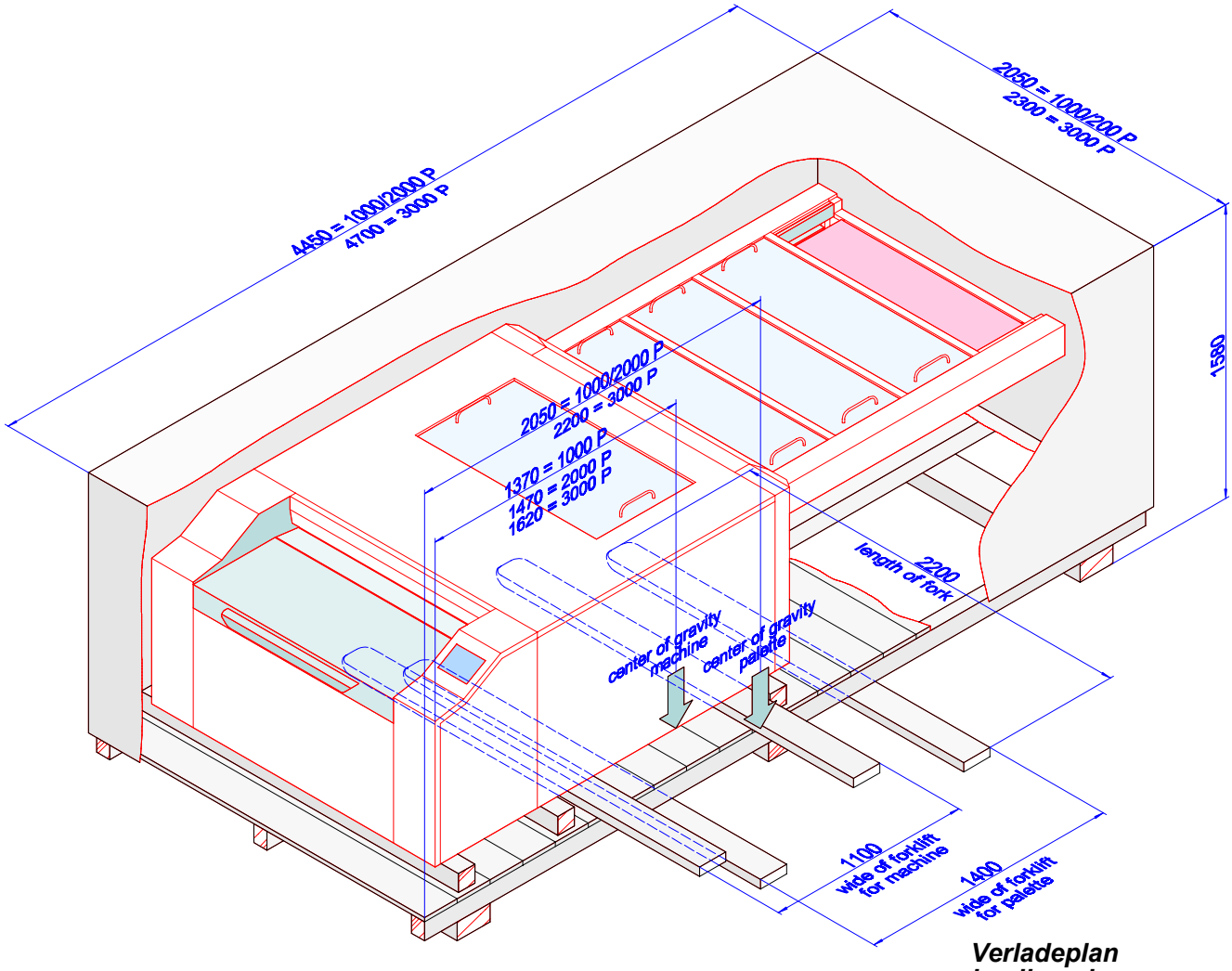
Should installation circumstances differ, please consult with the manufacturer or seller

Delivery list

No.: .....

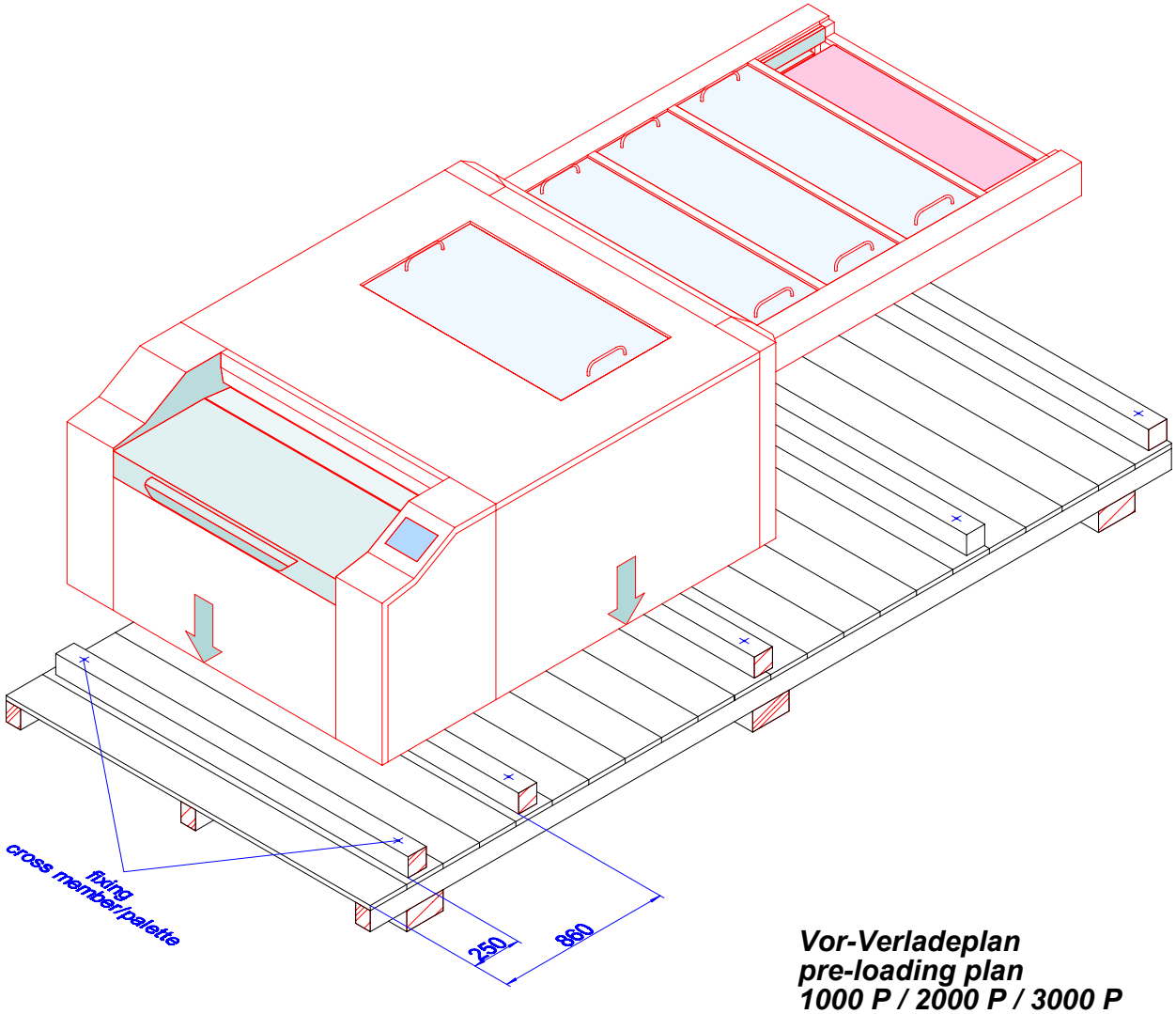
Pieces	Name	Control	
3	Safety drip tray		
3	Transport bar		
1	Cooling device		
2	Synthetic hose NW 13 (1/2“) 0.6 + 0.8 m for cooling device		
1	Air hose ø 9mm, L= 3m		
2	Filter screen		
1	Float switch for fresh solvent drum		
1	Float switch for old solvent drum		
1	Synthetic hose NW 13 (1/2“) 5 m for fresh and old solvent drums (fitted on site)		
1	Fitting fresh solvent drum		
1	Fitting old solvent drum		
1	Exhaust tubing ø 100 mm, L= 5m		
2	Tubing clamps ø 120mm		
8	Tubing clamps ø 20-25mm		
6 / 8	Adjustable feet (1000 P = 6 pieces / 2000 P + 3000 P = 8 pieces)		
1	Package of filter socks		
1	Panel key		
1	Electric box key		
1	Operating instructions		
1	Wiring diagram (in control panel)		
1	Grease		
4	Tubing 1/2“ (sealed with Teflon band in the machine)		
2	Tubing 1/2“ loose		

Loading plan



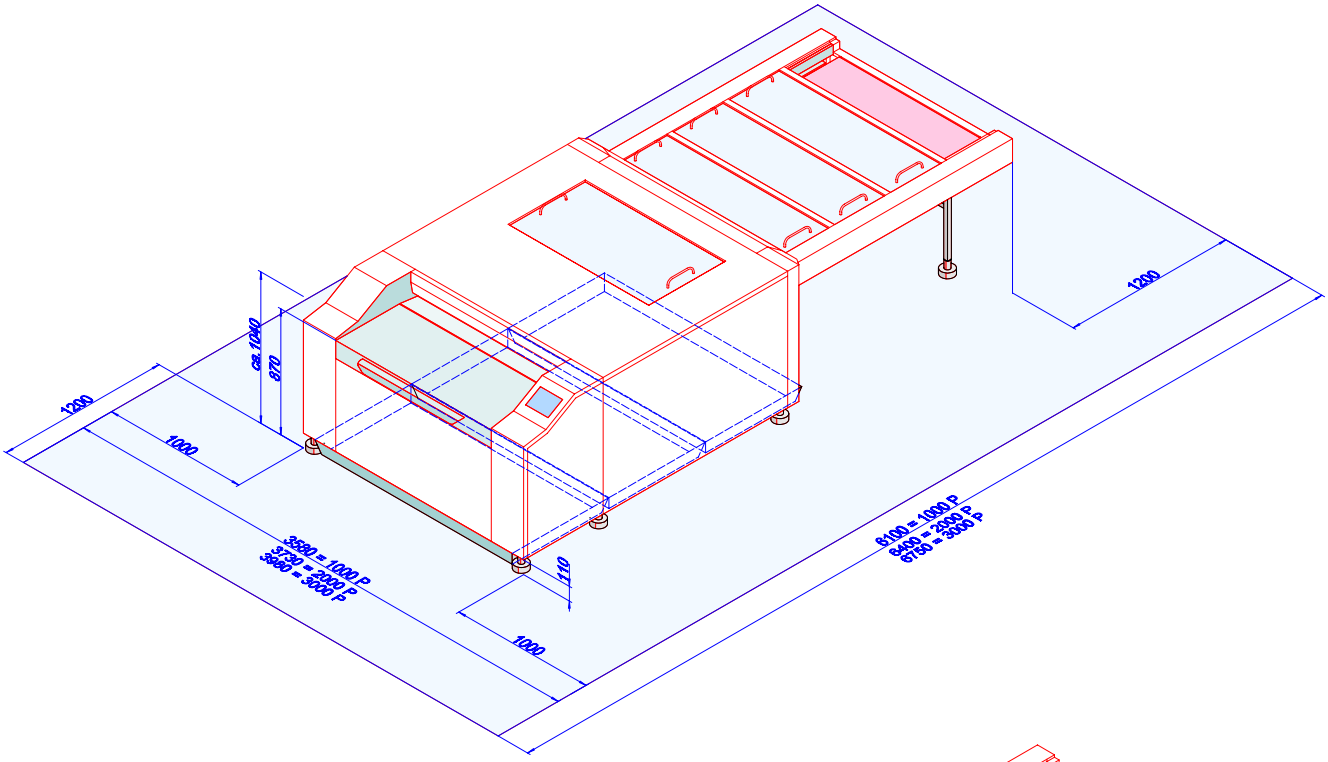
Verladeplan
loading plan
1000 P / 2000 P / 3000 P

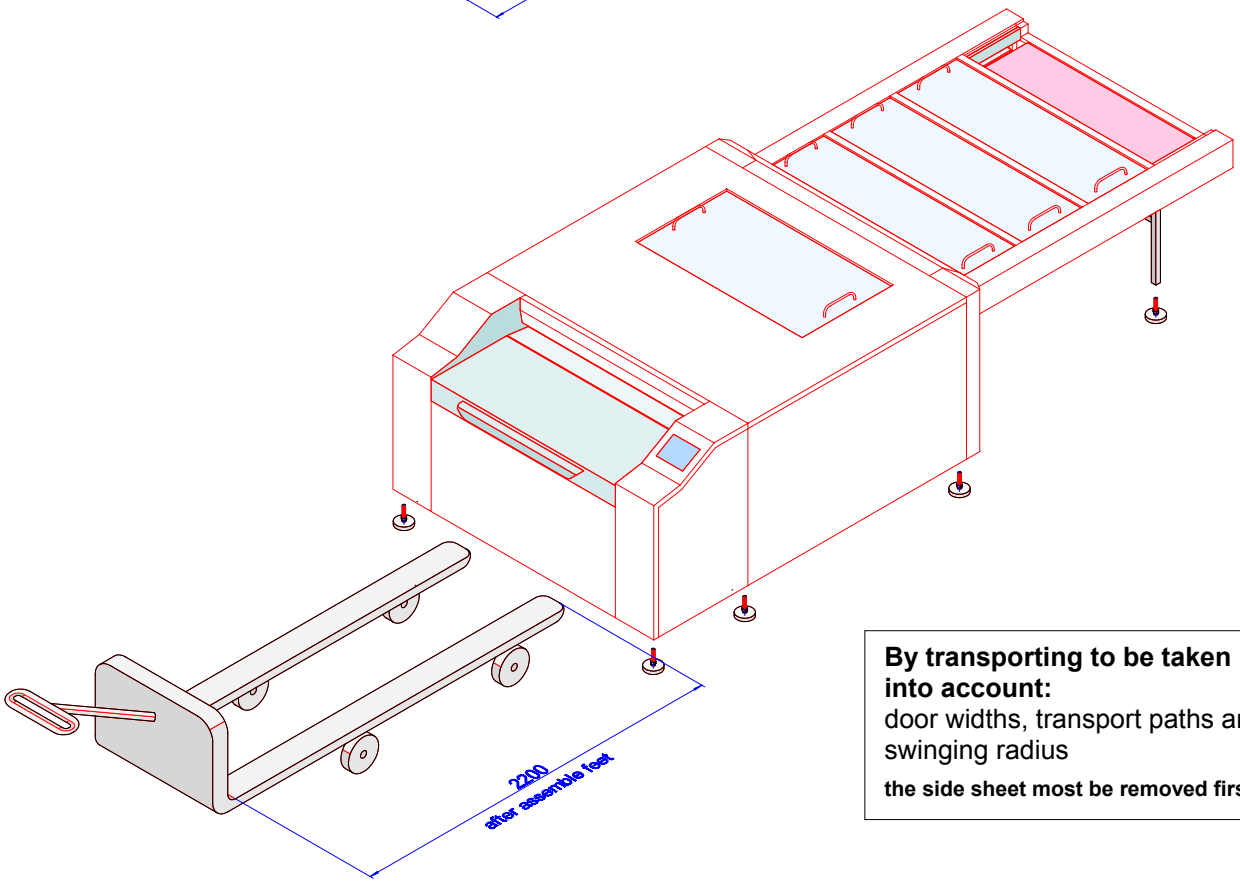
Pre-loading plan



Vor-Verladeplan
pre-loading plan
1000 P / 2000 P / 3000 P

Installation plan, space requirements – transport plan



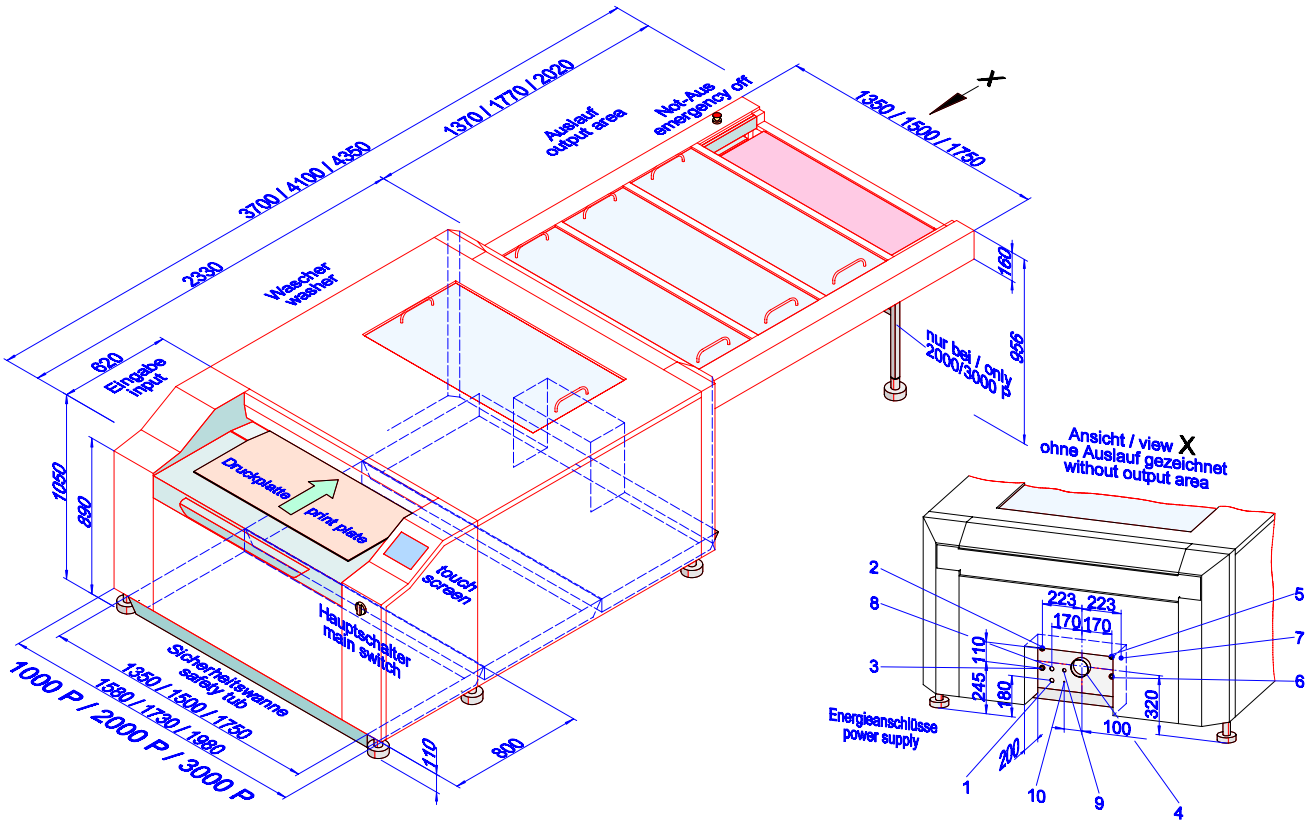


By transporting to be taken into account:
door widths, transport paths and swinging radius

the side sheet most be removed first

Specifications

	1000 P	2000 P	3000 P
max. plate width	920 mm	1,070 mm	1,320 mm
min. plate width	200 mm	200 mm	200 mm
max. plate length	1,600 mm	2,000 mm	2,250 mm
fresh solvent tank	17 Liters	19 Liters	23 Liters
min. volume for operation	70 Liters	70 Liters	90 Liters
max. working volume	90 Liters	90 Liters	115 Liters
max. tank volume	115 Liters	115 Liters	150 Liters
net weight of machine	950 Kg	1,050 Kg	1,320 Kg
weight with palette	1,180 Kg	1,280 Kg	1,450 Kg
weight with overseas container	1,400 Kg	1,500 Kg	1,770 Kg
dimensions of palette and overseas container (L x W x H)	4,450 mm 2,040 mm 1,580 mm	4,450 mm 2,040 mm 1,580 mm	4,700 mm 2,300 mm 1,580 mm
color	RAL 7035	RAL 7035	RAL 7035



1	power supply service cable	 5kW, 5x2,5mm², 6m long, YSLY-JZ2 5G2,5
2	input coolant	R1/2" inside winding
3	run out coolant	R1/2" inside winding
4	connection for exhaust air	ø100mm
5	fresh solvent	R1/2" inside winding
6	dirty solvent	R1/2" inside winding
7	pneumatic terminal	plug coupling
8	level control fresh solvent barrel	plug-contact
9	level control used solvent barrel	plug contact
10	earthing supply	