

## 3D WAVE

3D Wave is the system for single-colour industrial dyeing of particular 3D printed products.

The pieces are placed inside a stainless steel mesh basket. The lid equipped with a multiple locking system at different heights prevents the pieces from falling out and guarantees their integrity during rotation.

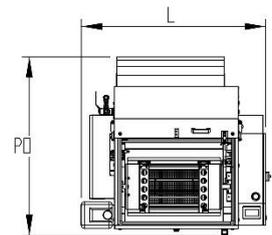
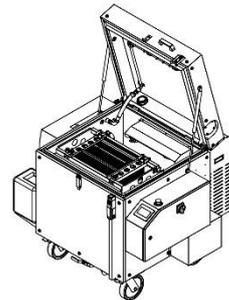
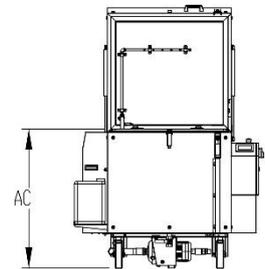
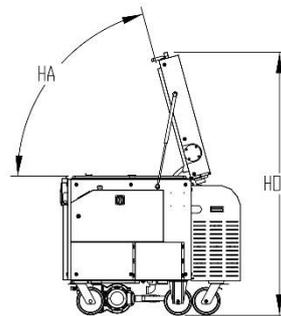
Thanks to the patented RotoWave technology, by means of partial immersion and continuous exchange, the liquid moves constantly, even entering deep cavities, improving the dye's ability to adhere to surfaces, avoiding stagnation and streaks.

The machinery, thanks to the flexibility in the creation of customizable programs, allows an automatic process without intermediate manipulations:

- Preliminary automatic rinsing, to remove any surface impurities.
- Dyeing of pieces in slow rotation with partial immersion with RotoWave technology.
- Final automatic rinse, to eliminate any excess dye.
- Hot air drying in a controlled environment and temperature.

Choosing 3D Wave means obtaining exceptional results and maximizing the productivity of your business. This machinery represents the ideal choice for companies that work with 3D technology and need an efficient and reliable machine to quickly and precisely dye their printed pieces.

The machine is available in HT version ( insulated, maximum and adjustable temperature up to 80°C).



Dimensions and layout	_3DW
depth with opened machine (PO)	130 cm
height with opened machine (HO)	189 cm
loading height (AC)	98 cm
noise HT (RU_HT)	75 dBa
noise LT (RU)	75 dBa
opening angle (HA)	80°
weight (W)	250 kg
width (L)	135 cm

Connections	_3DW
Cabin vent outlet	Ø50 mm
Compressed air blower solenoid valve	F 1"
Compressed air intake	F 1/4"
Decoiling oil drain	M 1/2"
Electrical connection: plug	3P+N+PE 16A
Emptying pump	F 1"
Steam extraction	Ø50 mm
Tank liquid drain	F 1"
Water filling solenoid valve	F 1/2"

Technical data	_3DW
Drying	4,5 kW
Heating tank 1	6 kW
Load capacity	40 kg
Motor for parts rotation	0,09 kW
Pump 1	0,55 kW - 1/2 bar 150/200 lt/min
Tank 1 capacity	160 lt

Technical features	_3DW
Automatic calculation of electricity consumption in real time	★
Color 4" touchscreen display for settings and programs	★
Cover border gasket	★
Door closure assisted with gas springs and fastening hook	★
Drain valves for emptying tanks	★
Gearmotor for basket rotation with torque limiter and centering sensor	★
Heating of the liquid with stainless steel electric heating element	★
HT Version	★
Intake and delivery pump hose (easy maintenance)	★
Internal ed external welding bleaching	★
IP55 main electrical box, management with touchscreen PLC (DGT V4)	★
Machine equipped with wheels for handling	★
Manual water filling valve	★
Minimum level switch	★
Safety limit switch on cover opening	★
Siemens electric power parts	★
Stainless steel electric pump with special seals	★
Structure and sheet metal in contact with liquid in AISI 304L stainless steel	★
Weekly programming to start heating and deoiler (if installed)	★

Accessories	_3DW	Cod.
1000 liter tank with pipe and connection fittings	✓	CIST_1MC
Emptying pump	★	SV
Hot air drying with resistor and air blade side channel blower [B]	★	ARS
Industry 5.0 Ready (Energy Meter)	✓	IND5
Kit for Industry 4.0 for HMI Weintek	★	IND4WEI
Maximum liquid level control in tank 1 and filling solenoid valve	★	RIEMP#1
Mixed resin demineralizer M20 with conductivity meter	✓	ADDP
Mixed resin demineralizer M50 with conductivity meter	✓	ADD
Rinsing by water supply and direct drain outlet	★	RSD
Stainless steel basket 471 x 321 x H300 mesh 12x12 mm with lid	✓	CSS1230
Stainless steel basket 471 x 321 x H300 mesh 6x6 mm with lid	✓	CSS0630

★ = included in the basic model, ✓ = available on request, X = not available