

STM WS 3040 (2019)

Specification	Value
System	Waterjet cutting system WS3040
Effective cutting area	3000 x 4000 mm
X-axis	3,002 mm
Y-axis	4,002 mm
Z-axis	300 mm
Support surface	3,100 x 4,100 mm
Length	approx. 3,900 mm
Width	approx. 4,950 mm
Height	approx. 2,500 mm
Weight	approx. 2,700 kg
Control weight	200 kg
Max. workpiece weight	approx. 800 kg/m ²
CNC control	NUM FLEXIUM plus 3D 5-axis
Positioning speed	40 m/min
Repeatability	± 0.025 mm
Track accuracy	± 0.05 mm
Z-axes	2 x CNC
Clearance height	300 mm
Cutting heads	2 x STM3D 68°
Cutting angle	up to 68°
Cutting heads type	2 x TYPE IV ALLFI
Abrasive heads	2 x aJET
Drilling spindles	2 x CNC 6000 rpm
Max. drilling diameter	6 mm
Max. clamping diameter	10 mm
Max. drilling depth	80 mm
Runout accuracy	0.02 mm
Lighting	LED strip
Lasers	2 x positioning
Height sensors	2 x
Control cabinet	Rittal with fan
Cabinet cooling	Air conditioning
Control voltage	24 V DC
Monitor	20" LED
Input devices	Keyboard and mouse
Control unit	Handheld
Software	SmartCut
CAM	5X 3D module
Licenses	2
Electrical connection	400 V

Frequency	50 Hz
Current	16 A
Power	9 kW
Water pressure	2–5 bar
Operating temperature	+10 °C to +40 °C
Noise (in water)	approx. 84 dB(A)
Noise (under water)	approx. 78 dB(A)
Max. pressure	4000 bar

Specification	Value
Pump	SERVOTRON 40.45+
Flow rate	4.6 l/min
Motor power	45 kW
Oil/air cooling	1.1 kW
Pre-pressure pump	0.46 kW
Operating pressure	420 MPa
Max. pressure	400 MPa
Continuous pressure	380 MPa
Oil volume	95 l
Oil temperature	10–35 °C
Water temperature	10–45 °C
Dimensions	1,950 x 970 x 1,400 mm
Weight	1,800 kg
Noise level	78 dB(A)

Specification	Value
Dosing heads	2 x CNC with intermediate tank
Storage tank	1650 kg
Minihopper	DUO system
Conveying	Pressure system
Intermediate tank	Included

Specification	Value
System	OneClean hydrofilter
Water level control	Automatic
Filtration	Pressure bag filter
Water analysis	Included

Specification	Value
HP connection	Pump to cutting head
Torque wrench	Included
Assembly tools	Included
Spare parts pump	Included
Spare parts cutting head	Included
Spare parts abrasive head	Included
Spare parts relief valve	Included
Water nozzles	2 x ruby/sapphire type 18 DM
Water nozzles	2 x STMCore type 18 DM
Focus tubes	5 x 7.14 mm
Focus tubes	5 x 6.35 mm
Hose transparent	2 m d=4/2.5 mm
Hose orange	5 m d=6/4 mm
Clamping frame	3 m
Front stop	4 m
Clamps	4 x
Safety	Light barriers
Guides	PREMIUM
Gear	PREMIUM
Covers	Stainless steel PREMIUM
Supports	Heavy-duty
Flushing lance	Included
Splash guards	Bridge
Splash guards	Side