

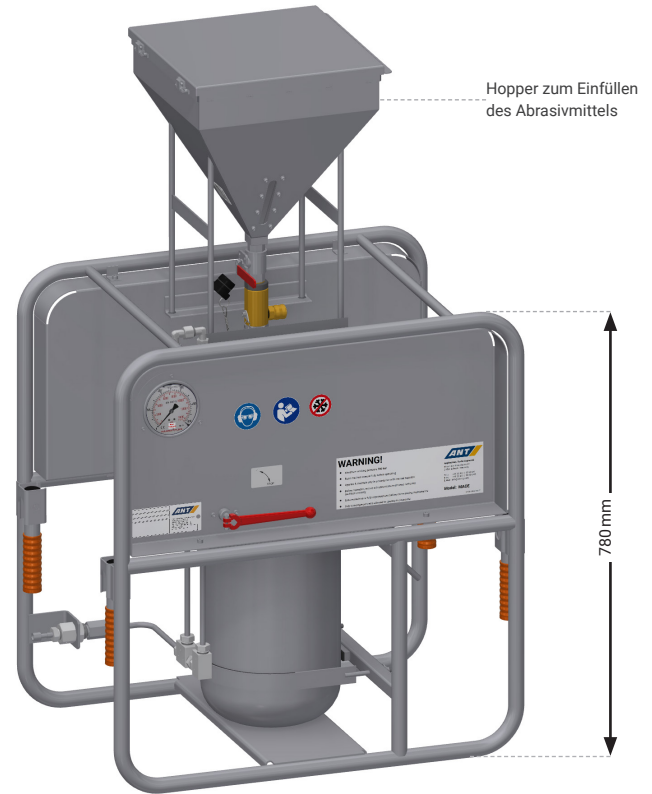
AMU 700-12 Abrasive Mixing Unit

The AMU 700-12 is an abrasive mixing unit and part of a water jet cutting system for safe and efficient cutting using the water abrasive suspension (WAS) technique.

It is particularly suitable for mobile applications.

General Information

Maximum pressure	700 bar (10.000 PSI)
Pressure vessel	Stainless steel Volume: 12 l (3.178 US gallons) Capacity: 14 kg (30.86 lbs) abrasive
Operation pressure valves	Manual
Weight	115 kg (253.5 lbs) empty
Size (L x B x H)	725 mm x 500 mm x 780 mm (28.5 in x 20 in x 31 in) (without hopper)
Safety Device	Rupture disc assembly



Operating Parameters

Maximum working pressure	700 bar (10.000 PSI)
Water flow	max. 6 l/min (1.58 US gallons/min)
Nozzle size	0,6 mm
Hydraulic power at the nozzle	7 kW
Abrasive	Garnet sand 80 Mesh
Abrasive concentration	approx. 12 % (mass)
Cutting time per filling	20 min

Connections

Water inlet	Quick release coupling
Suspension outlet	Quick release coupling
Electric power	n/a

Cutting performance

in air for mild steel S355 in mobile application with precise cutting device	
Material thickness	Cutting speed
10 mm (0.39 in)	115 mm/min (4.53 ipm)
25 mm (0.98 in)	45 mm/min (1.77 ipm)
50 mm (1.97 in)	20 mm/min (0.79 ipm)



HPP 700-6 High Pressure Pump

The HPP 700-6 is a high pressure pump and part of a water jet cutting system for safe and efficient cutting using the Water Abrasive Suspension (WAS) technique.

It is particularly suitable for mobile applications.



General Information

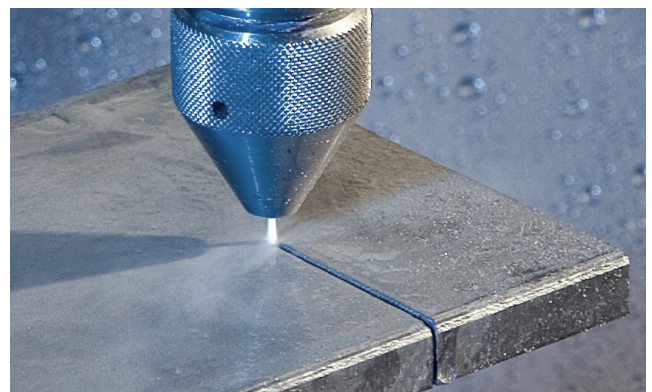
Maximum pressure	700 bar (10,000 PSI)
Water tank	45 l (11.9 US gallons)
Operation pressure valves	Manual
Weight	135 kg (298 lb) empty
Size (L x B x H)	900 mm x 580 mm x 710 mm 35.4 in x 22.8 in x 28 in
Safety devices	Pressure relief valve
Power unit	Diesel engine 8 kW electric starter
Water supply	max. 4 bar (58 PSI) min. 10 l/min (2.64 US gallons/min)

Connections

Water inlet	1/2" quick release coupling or thread 1/2"
High pressure water outlet	Quick release coupling
Electric power	12 V battery 42 Ah
HP hose between HPP and AMU	2 m (6.6 ft)

Operating Parameters

Maximum working pressure	700 ba (10,000 PSI)
Water flow	max. 6 l/min (1.6 US gallons/min)



MACE Hydraulic System

The MACE hydraulic system enables effective control of cutting devices of the Water Abrasive Suspension (WAS) cutting unit MACE.

An intuitive operator panel enables precise control of motion axes and cutting speed. It allows for safe, remote controlled operation from up to 500 m distance, even at difficult operating conditions.



General Information

Maximum working pressure	80 bar (1,160.3 PSI)
Supply voltage	230 V / 50 Hz
Electric power	0,3 kW
Power consumption	max. 3 A
Flow	max. 1 l
Pressure medium	Mineralöl
Number of possible axes	3
Weight	55 kg (nur Hydraulikaggregat)
Size (L x B x H)	610 mm x 450 mm x 650 mm (24 in x 17.7 in x 25.6 in) (only hydraulic power unit)

Scope of Delivery

Devices	Hydraulic unit
	Coupling station
	Operator panel for cutting devices
	Generator
Cables	Power supply cable 15 m on drum
	Control cable 15 m for hydraulic control panel
	Control cable 100 m on drum

