

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.



More information



GENERAL INFORMATION

Maximum working pressure	700 bar (10,000 psi)
Pressure vessel	Stainless steel, volume: 12 l (3.17 US gallons) gross, capacity: 14 kg (30.86 lbs) abrasive
Control	manual
Weight	115 kg (253.53 lbs) empty
Size (L x W x H)	725 mm x 500 mm x 780 mm (28.5 in x 20 in x 31 in) (without hopper)
Safety devices	Rupture disc assembly



CONNECTIONS

Water inlet	Quick release coupling
Suspension outlet	Quick release coupling



CUTTING PERFORMANCE

in air for mild steel S355 in mobile application with precise cutting device

Nozzle size	0.6 mm (0.02 in)
Cutting speed at $t^* = 10$ mm	115 mm/min (4.53 ipm)
Cutting speed at $t = 25$ mm	45 mm/min (1.77 ipm)
Cutting speed at $t = 50$ mm	20 mm/min (0.79 ipm)

* t describes the thickness of the material

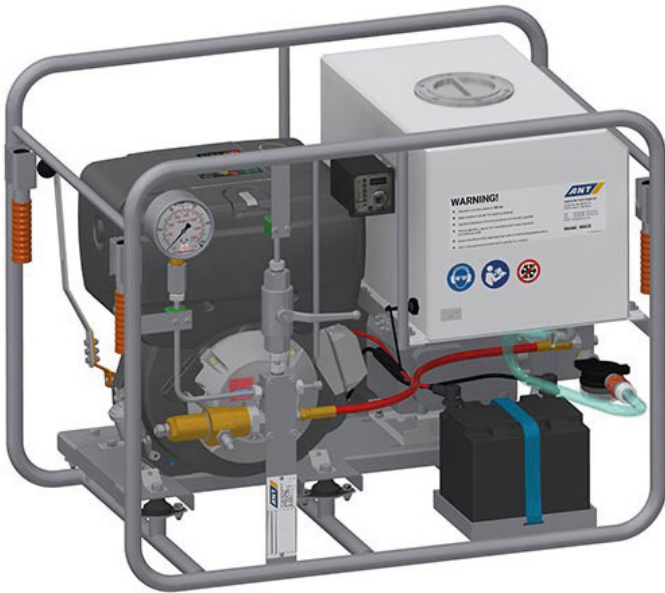


OPERATION PARAMETER

Nozzle size	0.6 mm (0.02 in)
Maximum working pressure	700 bar (10,000 psi)
Water flow	max. 6 l/min (max. 1.58 US gallons/min)
Hydraulic power at the nozzle	7 kW
Abrasive	Garnet 80 Mesh
Abrasive concentration	approx. 12 % (mass)
Cutting time per filling	approx. 20 min

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.



More information

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 lbs) empty
Size (L x W 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)

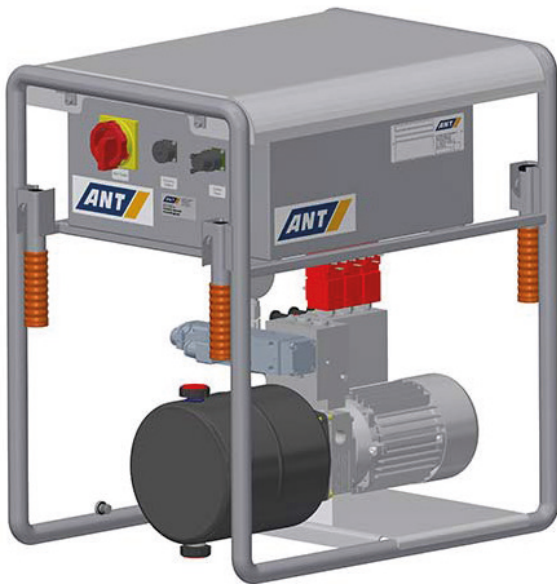
CONNECTIONS

Water inlet	1/2" quick release fastener 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 bar (10,000 psi)
Water flow	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. 2 l
Pressure medium	Mineral oil
Number of possible axes	3
Weight	55 kg (only hydraulic unit)
Size (L x W x H)	610 mm x 450 mm x 650 mm (24 in x 17.7 in x 25.6 in) (only hydraulic unit)



SCOPE OF DELIVERY

Devices	Hydraulic unit
	Coupling station
	Operator panel for cutting devices
	Generator
Cables	1x Power supply cable 15 m on drum
	1x Control cable 15 m for hydraulic control panel
	5x Control cable 100 m on drum
Cutting devices	3-Axis Cutting Table
	Base Fuse
	Multiflex Circular Cutter PLUS



More information