

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