

AMU 700-20 Abrasive Mixing Unit

The AMU 700-20 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

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|---------------------------|-------------------------------------------------------------------------------------------|
| Maximum pressure | 700 bar (10.000 PSI) |
| Pressure vessel | Stainless steel Volume: 20 l (5.28 US gallons) Capacity: 30 kg (66.14 lbs) abrasive |
| Operation pressure valves | Manual |
| Weight | 164 kg (361 lbs) empty |
| Size (L x B x H) | 710 mm x 490 mm x 1.100 mm (28 in x 19.3 in x 46 in) (without hopper) |
| Safety Device | Rupture disc assembly |



Operating Parameters

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|-------------------------------|------------------------------------|
| 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 | 45 min |

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) |

Connections

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

