

Model : OneJet Special Developments



Our engineering department can apply and integrate portable water pump any waterjet cutting application. Such as a robotic arm, conveyors for continuous cutting food, etc.

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Technical specifications of the ultra high pressure pump 420 MPA

Nominal power of the main engine	37 kW(50 hp)
Nominal current of the main motor	380 V/50 Hz 80 A
Main Engine Brand	SIEMENS Engine 37 kW (50 hp)
Main engine Low start	SIEMENS Low Start
Pressure control system	Dual system pressure auto - control (Low/high range 70~380 MPa)
Maximum Circuit Breaker at 380V/50Hz	160 A Schneider Main switch
H.P Control System / Language PLC	SIEMENS PLC Control / English language
Inlet Water Pressure range request	0.2~6.0 bar
Inlet water pressure after Booster	6~10 bar
High Pressure Attenuator volume	1.30 Liter maintenance free attenuator
Inlet water Filter assembly	5 µm, 1 µm, 0.1 µm 3 filtros
Request for water treatment	According to the requirement of inlet water quality
Maximum high-pressure limit	420 MPa (4000 bar)
Hydraulic High Pressure piping	3 layers steel wired hydraulic piping from Germany

Outlet High Pressure tubing	1/4" High Pressure tubing from USA
High Pressure tubing Inside Pump	3/8" High Pressure tubing from USA
Display information	Inlet water pressure, outlet high pressure, oil pressure, oil temperature
Safety high Pressure protections (In display)	SIEMENS PLC Logo
Safety Hydraulic pressure overflow valve (In display)	SIEMENS PLC Logo
Safety Over stroke protected main Engine (In display)	SIEMENS PLC Logo
Safety Over oil temperature protected (In display)	SIEMENS PLC Logo
Safety Too low inlet water pressure protected (In display)	SIEMENS PLC Logo
Pressurization / intensifier rate	Hidraulic 1:20 (oil : water)
Intensifier Type	50 hp Short type
High Pressure stable	25~380 MPa (3500~55,000 psi)
Hydraulic Tank Capacity	120 Liter
Capacidad del acumulador	1,3 Liter
Potencia Nominal de motor principal	50 HP (37 kW)
Maximum Pressure	420 MPA / 60000 PSI / 4000 bar
Maximum noise level	75 dB (A)
Maximum water flow rate	3,7 liter /min
Temperatura ambiente de operación	mín 5 °C (40 °F) máx 40 °C (104 °F)

oil Pump brand & model	LyYuan-Rexroth Mod: A10V a pistones axiales
Válvula bi direccional	SUNNY(U.S.A)
Oil Type and Brand	Hidráulic Anti-Wear Shell Tellus S2 M 46
Controlled oil temp range	25~50 °C
Maximum Hydraulic Pressure	210 bar
Hidraulic Oil tank capacity	120 Li
Maximum Flow Rate at 1440rpm	156 litros / min
Maximum Input Power	37 kW
Maximum Torque	160 Nm
Maximum Oil Pressure	21.5 MPa (3000 psi)
Optional	
Garnet Auto Feeder 120/200 L	
water cooler 10-15 °C - Chiller	



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