

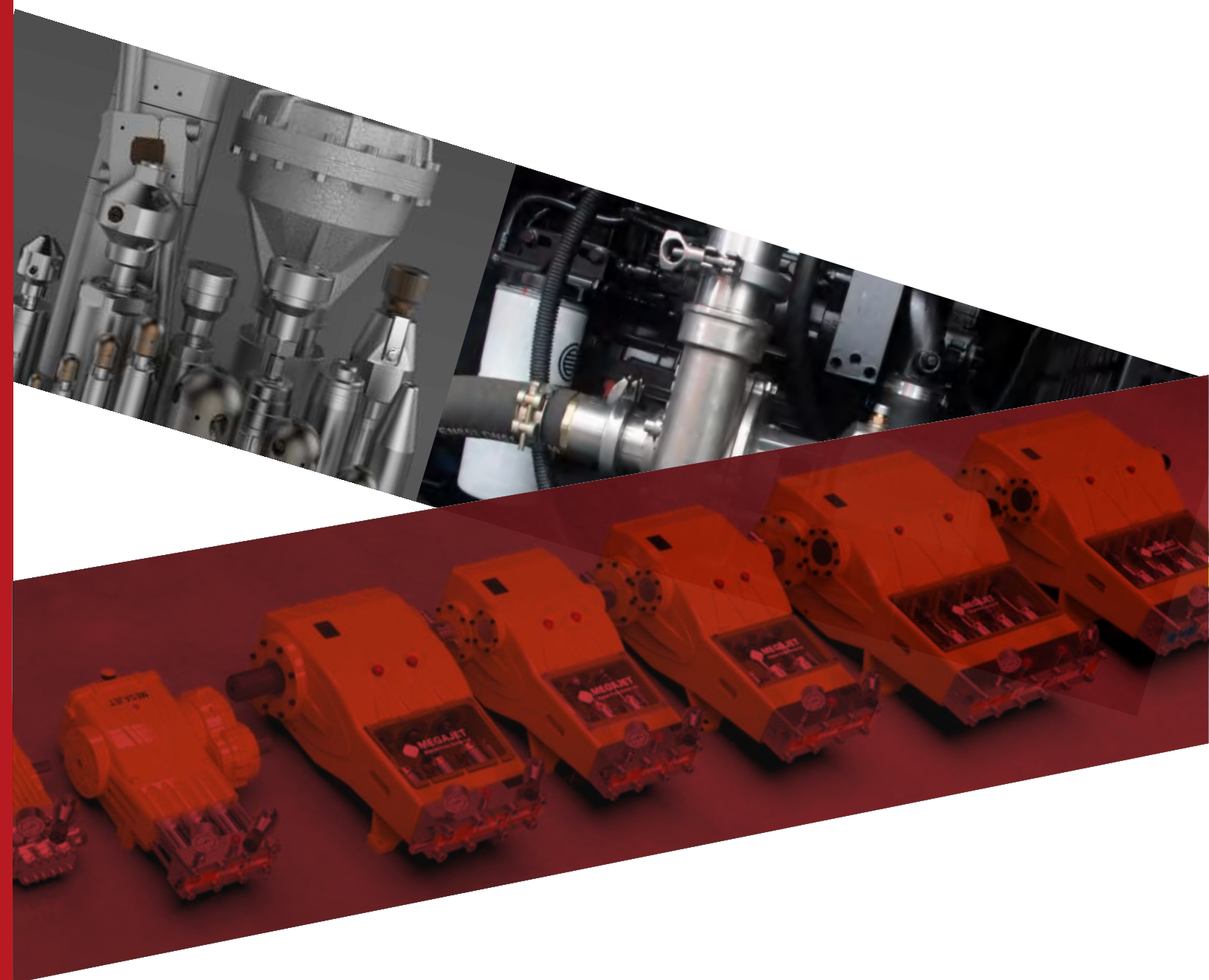
**GREEN INNOVATION
EMPOWERS INDUSTRY**

MEGAJET (Chongqing)Technology Co., Ltd.

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MEGAJET PRODUCT CATALOG

**PLUNGER PUMP | CLEANING ROBOT
STANDARD ACCESSORIES | INDUSTRY SOLUTIONS**

High-Pressure Pump Industry Leader

MEGAJET

GREEN • INNOVATION • INTEGRITY • WIN-WIN



13 years of service
experienc



One-stop service



Committed to being
an industry leader



50 technical
R&D personnel



Chongqing Jiangjin Assembly and Testing Base



Chongqing Bishan Production and Processing Base
(Sino-American Joint Venture)

ABOUT US

MEGAJET (Chongqing)Technology Company Limited is located in the scenic mountain city of Chongqing . It currently has two major production and R&D bases and assembly bases covering an area of more than 2,500 square meters. It is a company rooted in the 500-3000 bar ultra-high pressure water jet industry, integrating petroleum machinery, engineering machinery, hydraulic power stations, hydraulic sewage pumps, drainage pumps, intelligent drainage robots, and dredging robots into a unified research, testing, and production base. It has a young and energetic team, advanced testing methods, and a complete quality assurance system, making it a new type of technological and skilled enterprise integrating precision manufacturing, precision assembly, and automated production research.

The company wholeheartedly focuses on the customer, takes value creation as its mission, and provides efficient, safe, and environmentally friendly equipment and overall solutions for a wide range of users in many industries such as industrial cleaning, ship coating, road and bridge repair, petrochemicals, and food processing.



100⁺

Core Manufacturing Equipment

200⁺

High-Pressure Cleaning Project Solutions

1000⁺

Number of customers served

300⁺

Core technology

WHY CHOOSE US

01

Decades of Experience Accumulated Powerfull Technical Strength

Since its establishment, the company has been deeply involved in the high-pressure equipment industry for more than thirteen years, focusing on the research, design, and sales of high-end high-pressure cleaning equipment. Long-term research and manufacturing have accumulated core technologies and experiences unique to Meijieliangmeng; the company owns independent factory facilities, has introduced multiple excellent foreign machines, effectively improving the quality and project schedule of high-pressure cleaning equipment.

02

Thousands of Customer Served Hassle-free Selection

The company has advanced processes and strong technology, and can customize and process according to customer requirements to produce high-quality products. The company's annual sales are nearly ten million, providing equipment and solutions to tens of thousands of customers.

03

Multiple Process Inspections Stable&Reliable Product Performance

Introducing production equipment and fully automatic precision testing equipment, the production team strictly implements standardized procedures at every step of the production process, and rigorous quality inspections at every level ensure that each machine operates with high quality.

04

Rapid Response Service Complete After-sales System

Rapid response mechanism, after-sales service team available 24 hours online, after-sales engineers provide on-site technical guidance, arrive at the customer's site within 48 hours, and restore production operations within 72 hours.

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PLUNGER PUMP

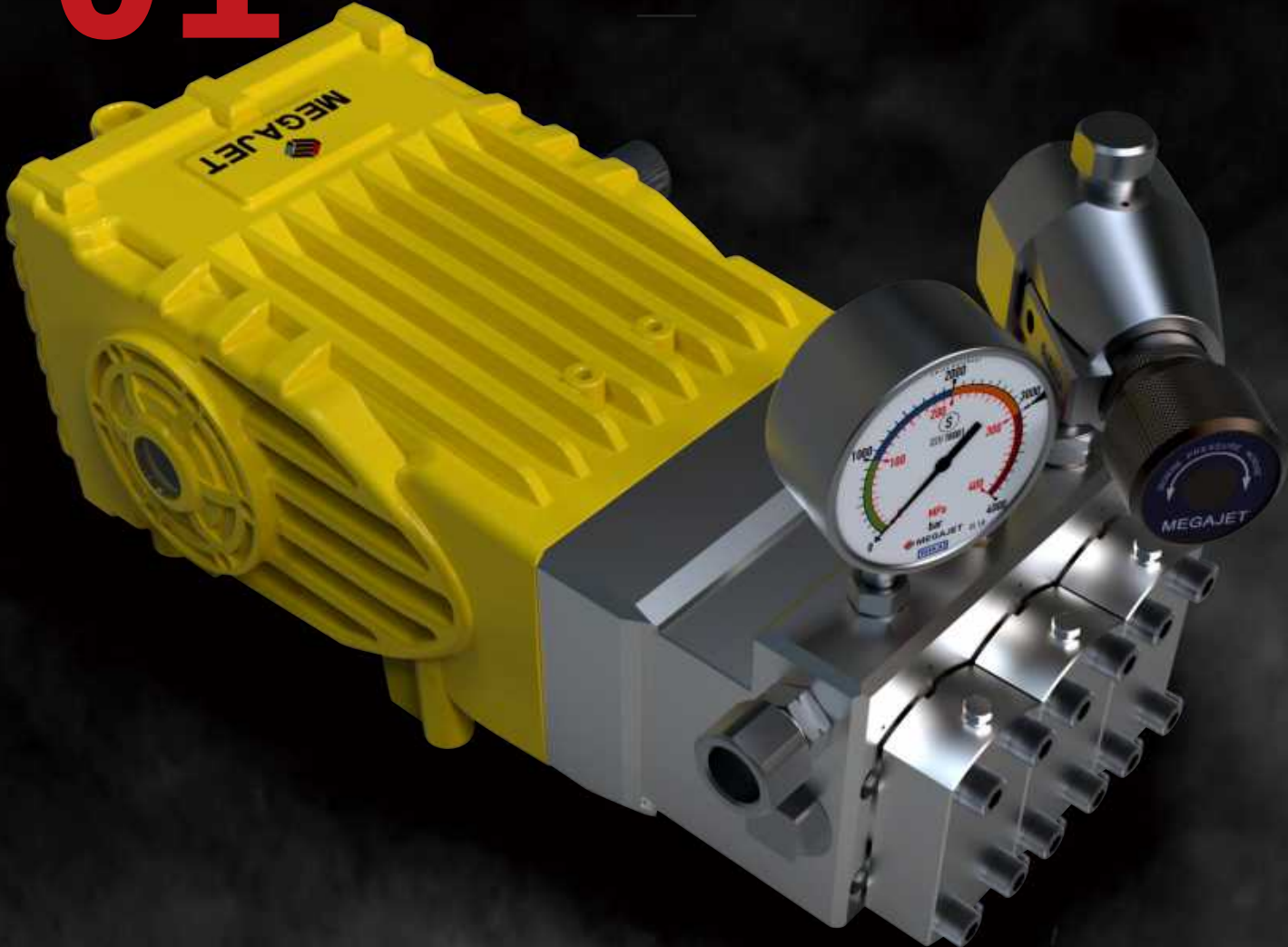


Megajet offers plunger pumps of various models, with a wide range of functions, capable of meeting high-pressure cleaning needs with different pressures, flows, and working conditions, providing one-stop compatibility with various cleaning equipment and operational scenarios.

The product is made of high-quality materials and precise manufacturing processes, with a compact and durable structure, stable and reliable performance, and long-lasting operation with minimal wear, ensuring excellent quality. It operates efficiently, with strong and stable pressure output, greatly improving cleaning work efficiency and saving time and effort.

Optimize the heat dissipation design so that it dissipates heat quickly during long periods of continuous operation, effectively ensuring the stable operation of the entire machine; the overall structure is simple and reasonable, making daily maintenance easy and convenient, easy to inspect and maintain, reducing usage and operation costs.

01

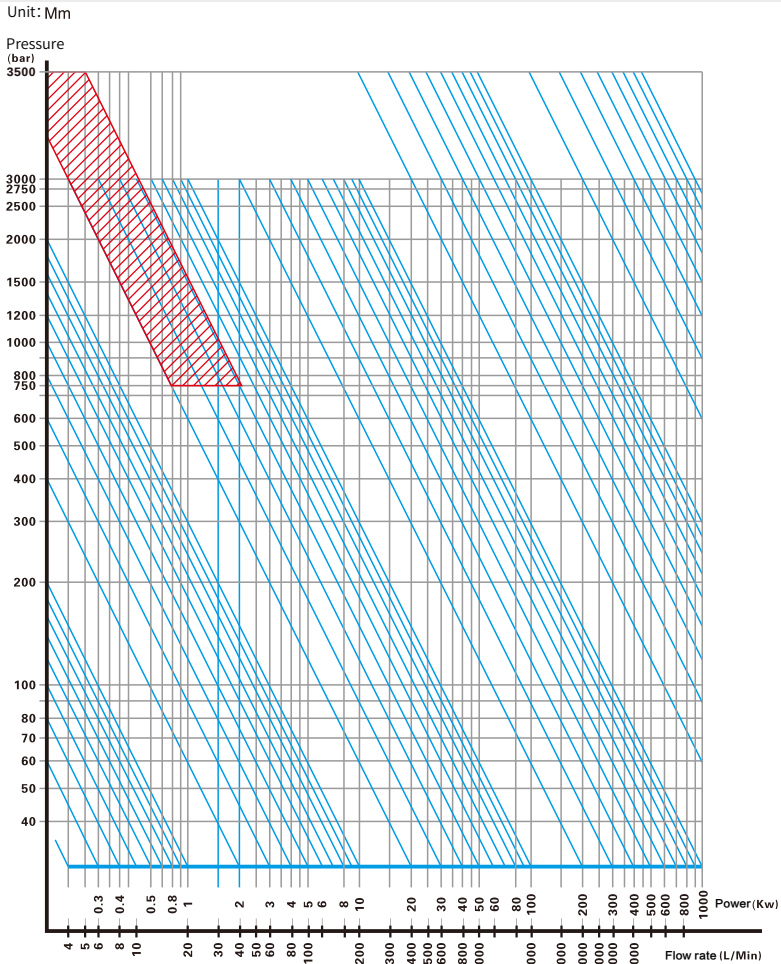
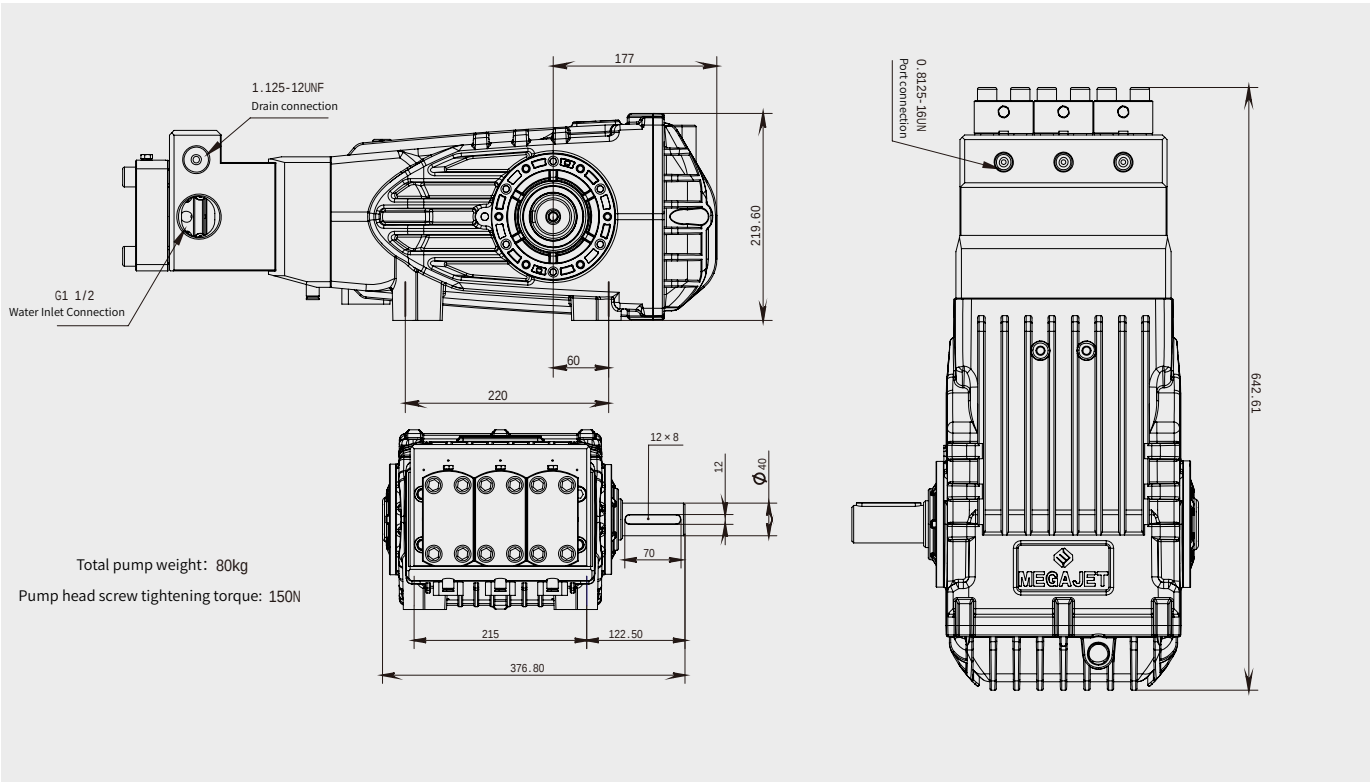


P70 Series

The P70 Series is a three-cylinder plunger pump specially customized for waterjet cutting applications. It features enhanced pressure-bearing capacity of all fluid end components.

With a power input of 70 Hp (51 kW), it delivers a maximum pressure of 50,763 psi at 1.32 gpm (equivalent to 5 L/min at 3,500 bar). When used with dedicated tools and mixed with abrasives, it can perform cutting operations on metal materials with a thickness ranging from 1 mm to 50 mm.

Plunger Pump Parameters

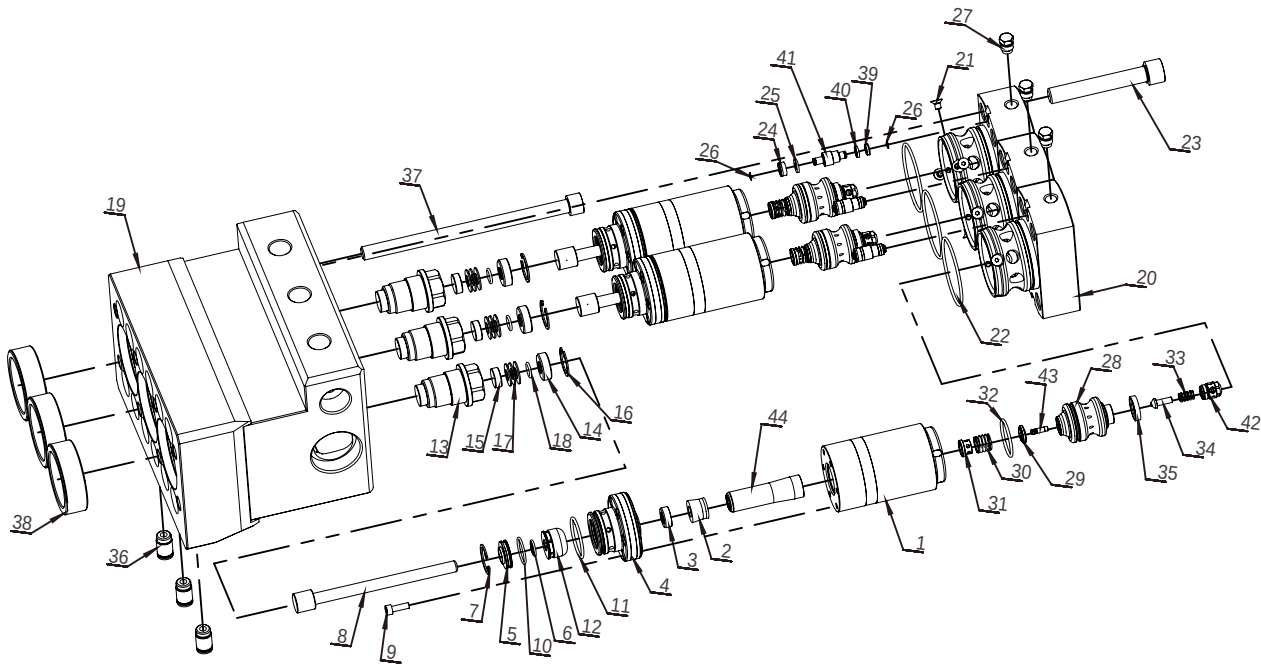


Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Stuffing box	16	Elastic retaining ring	31	Water suction valve spring seat
2	High-pressure water seal	17	Butterfly spring	32	O-ring
3	Alloy ring	18	O-ring	33	Drain valve spring
4	Gland	19	Pump head base	34	Drain valve
5	Low-pressure return water sealing ring	20	Pump head	35	Pump head end face seal
6	Shaft seal	21	Screw	36	Cooling water connector
7	Elastic retaining ring	22	O-ring	37	Hex socket screw
8	Plunger	23	Hex socket screw	38	Locating ring
9	Hex socket screw	24	Connect the water seal	39	Connection seal
10	O-ring	25	Connection gasket	40	Gasket
11	O-ring	26	Circlip	41	Pump head connector
12	Low-pressure return water sealing seat	27	High-pressure wire plug	42	Spring Mount
13	Plunger seat	28	Combined valve body	43	Water suction valve guide post
14	Plunger Spring Cap	29	Water intake valve	44	Bronze bushing
15	Plunger gasket	30	Water intake valve spring		

Fluid End Parameters

Plunger Pump Model	Plunger Model Size			Flow rate at a specific rotational speed	Rated Working Pressure
	Plunger Model	Diameter	Stroke	1000R P M/min	
		mm	mm	L/Min	
P70-30K-3#	#3	10	50	10	2000

1Bar = 0.1Mpa = 14.5Psi

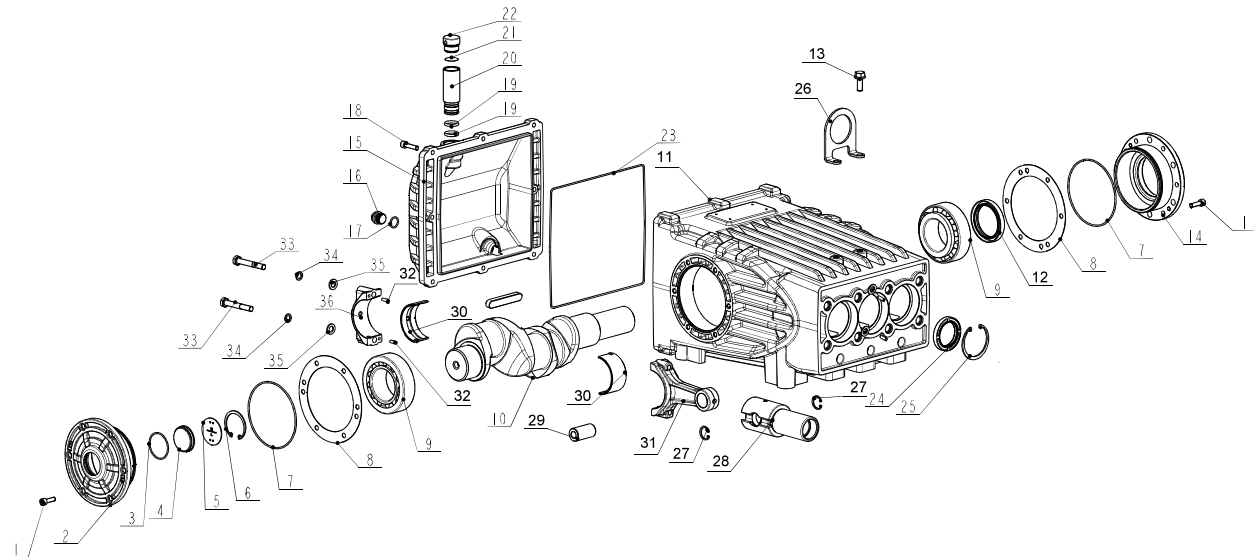
1L/Min= 0.06mm³/H = 0.264Gpm

1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Hex socket screw	13	Hex socket screw	25	Circlip
2	Bearing End Cap	14	Input shaft end cover	26	Ring
3	O-ring	15	Back cover	27	Piston Pin Circlip
4	Oil window	16	Oil drain bolt	28	Crosshead
5	Oil level gauge	17	O-ring	29	Cotter pin
6	Circlip	18	Hex socket screw	30	Bearing bush
7	O-ring	19	O-ring	31	Connecting rod body
8	Spacer pad	20	Oiling body	32	Locating Pin
9	Bearing	21	Breathable membrane	33	Connecting rod screw
10	Crankshaft	22	Fuel cap	34	Elastic washer
11	Crankcase	23	Seal strip	35	Flat washer
12	Oil seal	24	Oil seal	36	Connecting rod cap

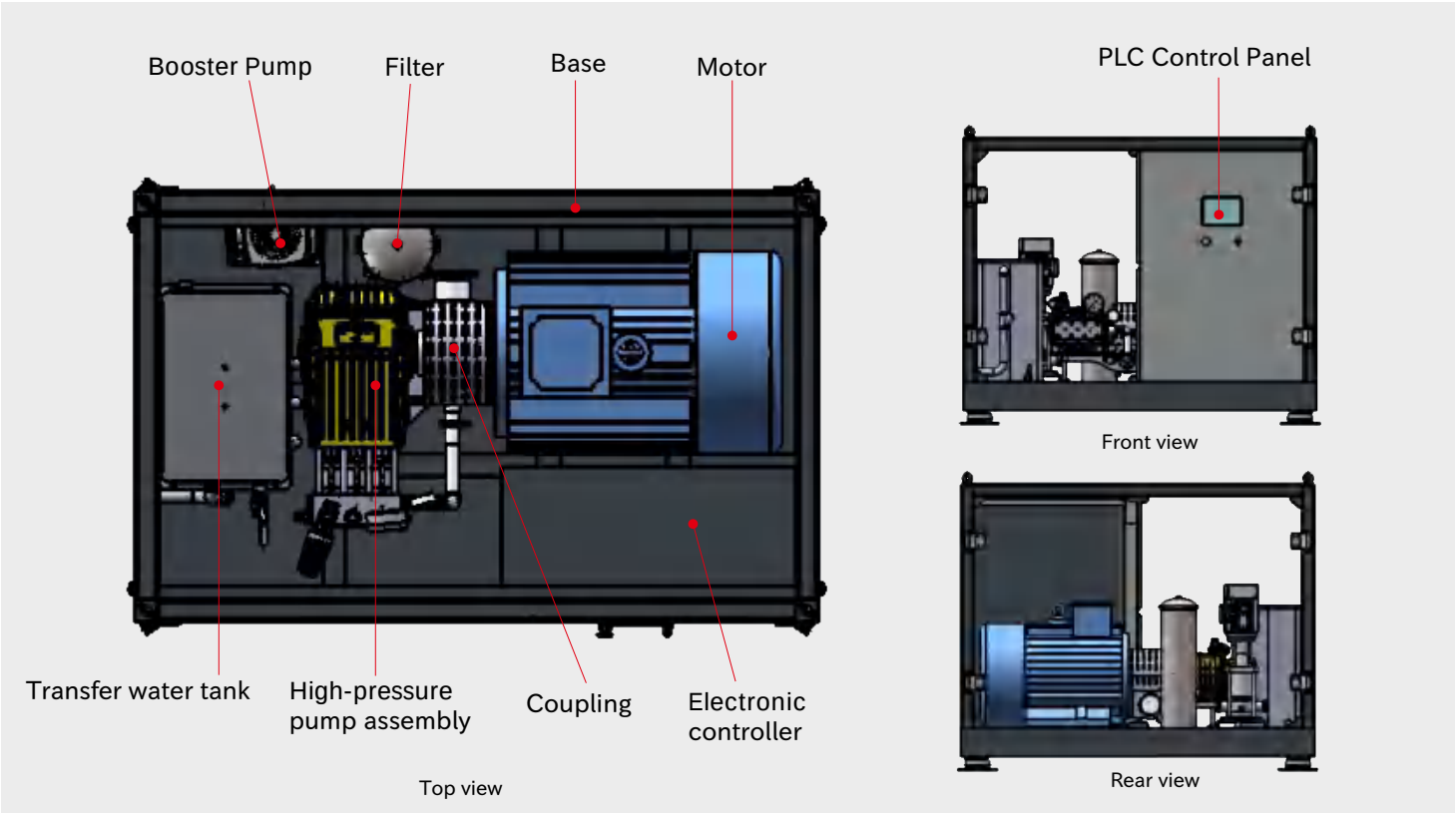
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:1	Maximum speed	Model	gal	L
70	50		3	1000		1000	85W-90	1.19	4.5

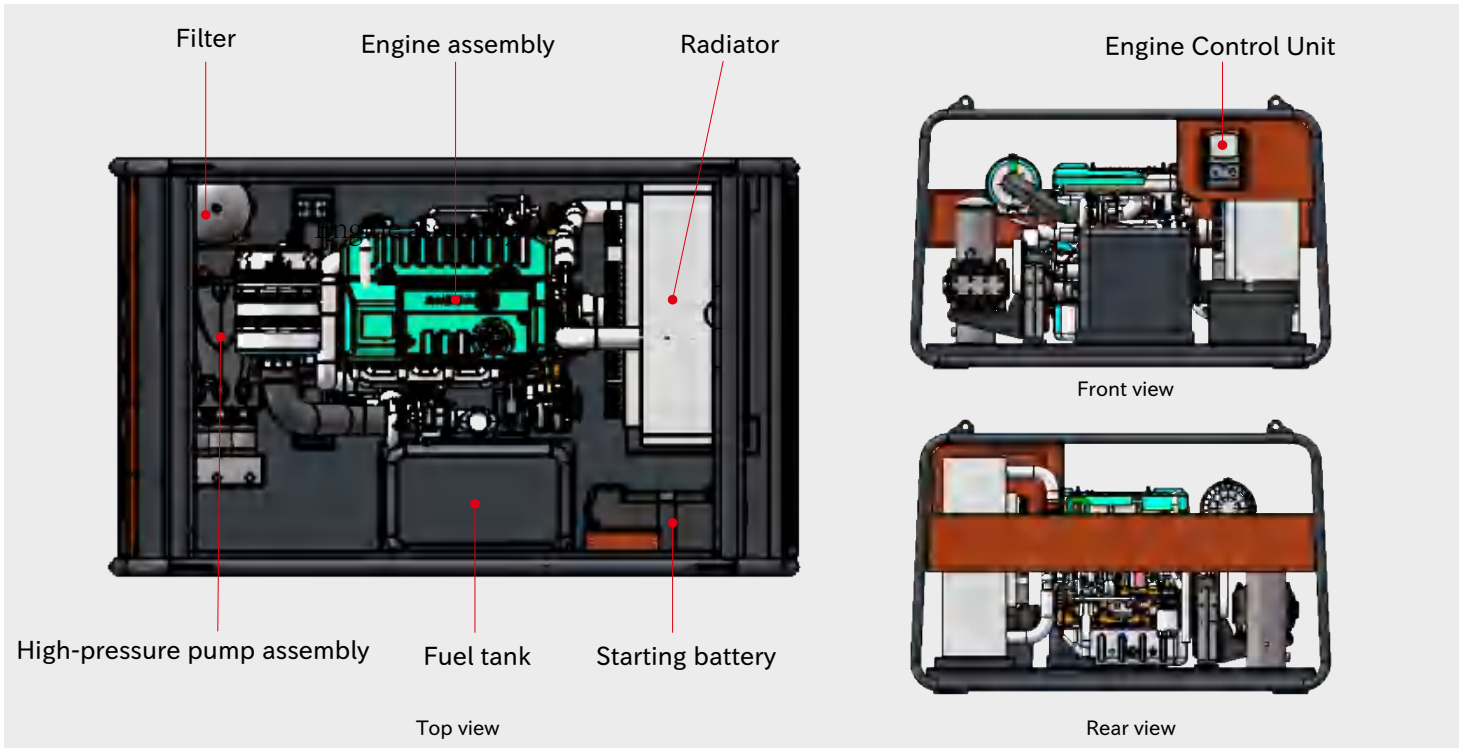
Actual Installation Effect



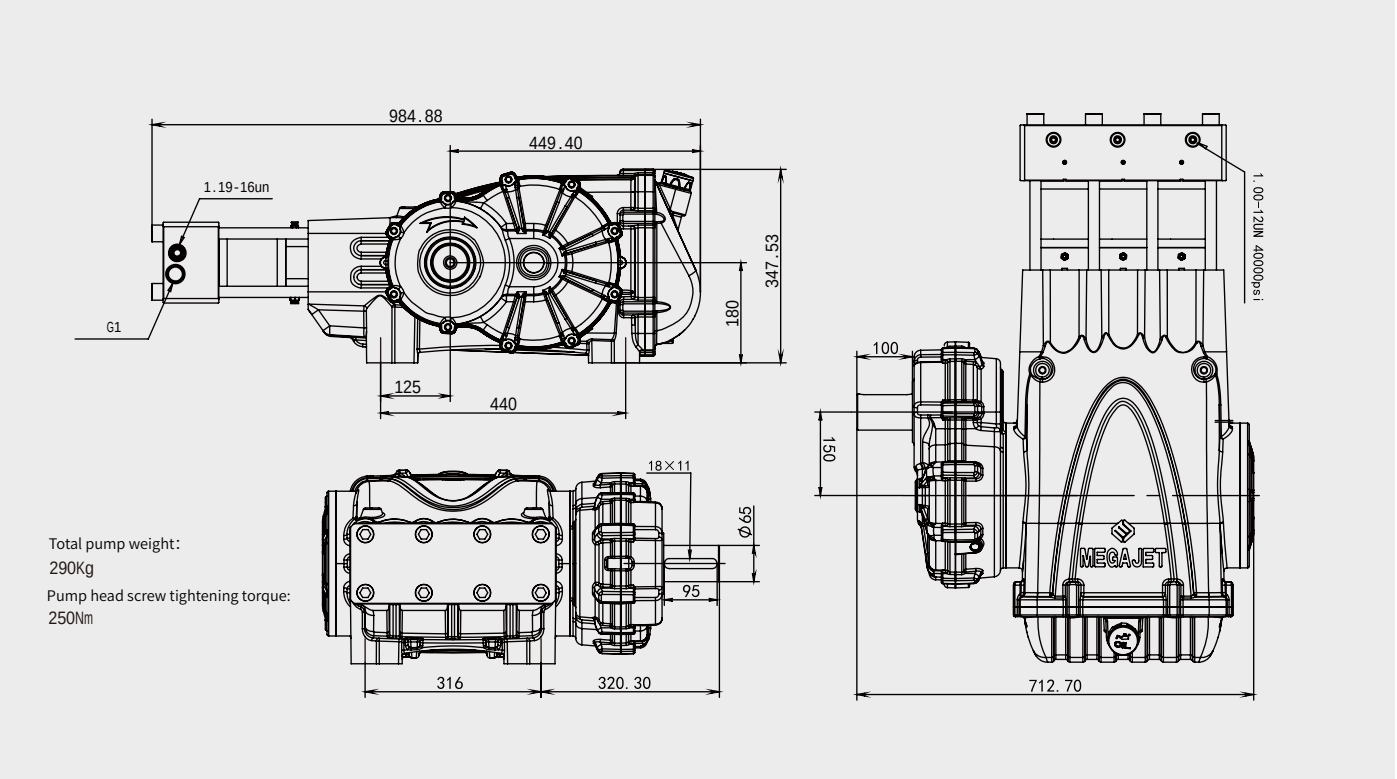
Electric-Driven Unit Annotation



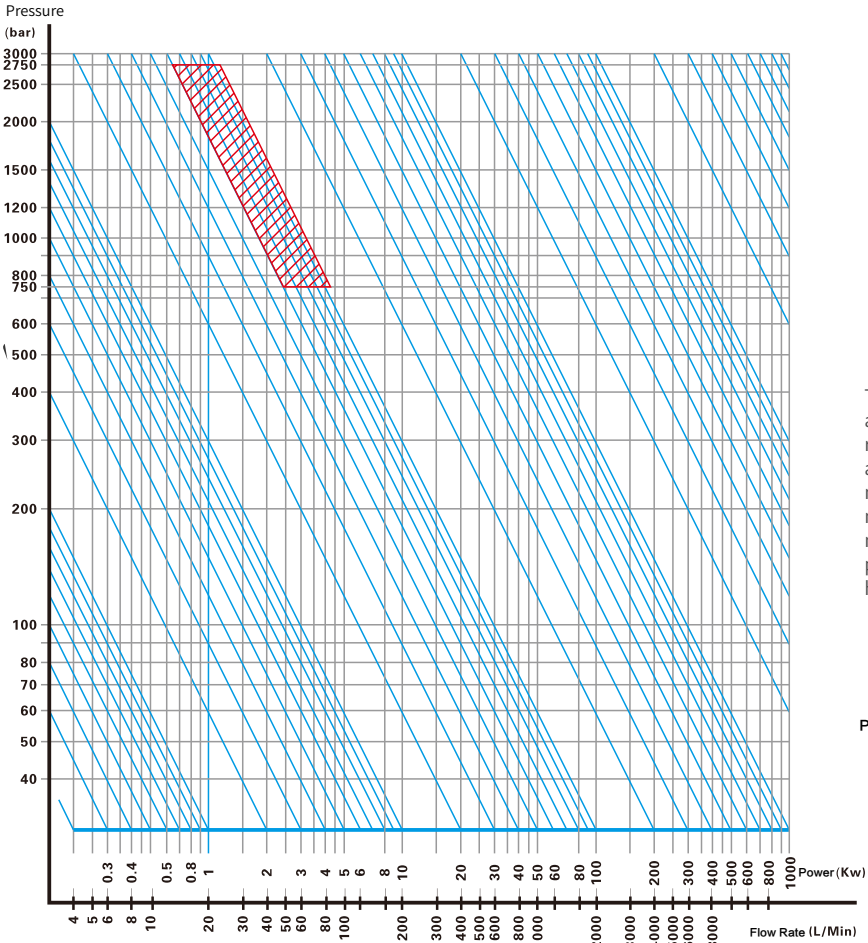
Diesel-Driven Unit Annotation



Plunger Pump Parameters



Unit: Mm



Remarks:

- 1Bar = 0.1Mpa
- 1L/Min= 0.06
- 1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



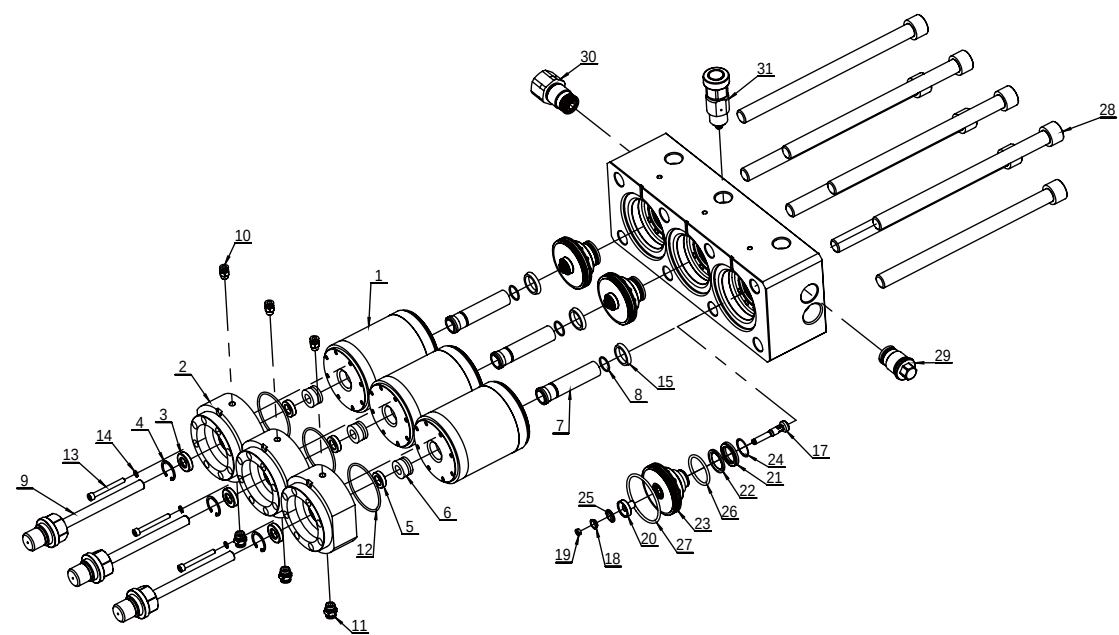
02

P160 Series

The P160 series three-cylinder plunger pump can theoretically handle input power of up to 160 Hp (117 kW). From a minimum pressure output of 10,877 Psi at 18.72 Gpm (70.9 L/Min at 750 Bar) to a maximum pressure of 40,000 Psi at 5 Gpm (19 L/Min at 2750 Bar).

It can meet the vast majority of use scenarios for single-gun construction operations and has just the right performance. During the use of a single gun, compared to large pump units, it does not have excessive performance overflow, nor does it have performance anxiety during the use of small pump units.

Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Stuffing box	12	O-ring	23	Combined valve body
2	Gland	13	Hex Socket Cylindrical Head Screw	24	Circlip
3	Low-pressure water seal	14	Elastic washer	25	Spring
4	Circlip	15	End face seal	26	O-ring
5	Water-sealed compression ring	16	Valve block	27	O-ring
6	Packing	17	Drain valve	28	Hex socket cylindrical head screw
7	Bronze bushing	18	Retaining ring	29	High-pressure wire plug
8	O-ring	19	Locking circlip	30	Water outlet connector
9	Plunger	20	Water intake valve	31	Explosion-proof film holder
10	Cooling Water Inlet Connector	21	Seal		
11	Cooling Water Outlet Connector	22	Sealing gasket		

Fluid End Parameters

Plunger Pump Model	Plunger Model Size		Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	450 R P M/Min 550 R P M/Min	
		mm	mm	L/Min	
P160-40k-#5	#5	13.46	75	15 21	2750 Bar
P160-22k-#7	#7	17	75	23 33	1500

1Bar = 0.1Mpa = 14.5Psi

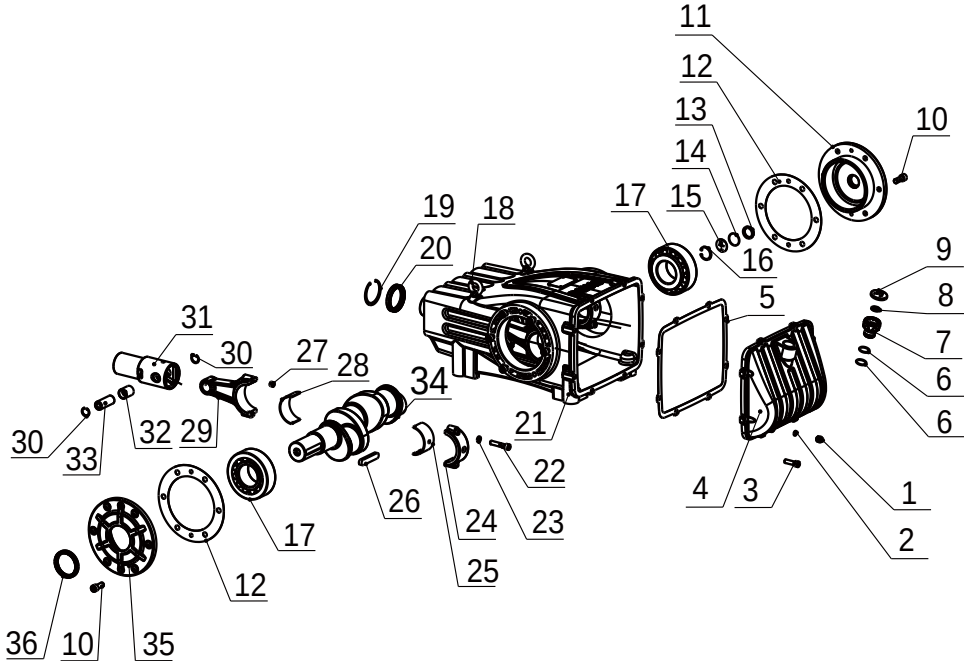
1L/Min= 0.06mm³/H = 0.264Gpm

1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details

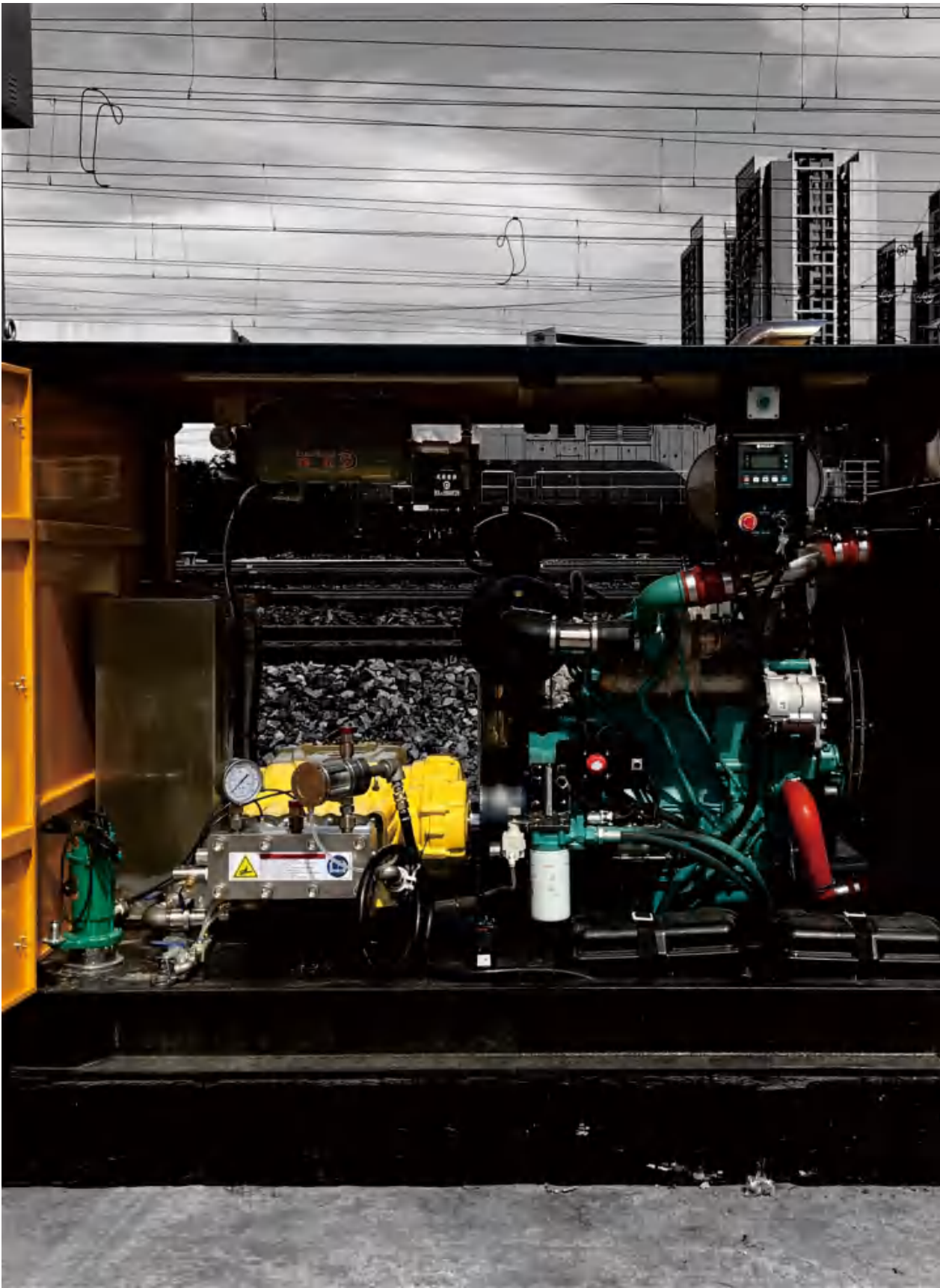


Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Oil drain bolt	13	Oil window	25	Rear part of the bearing shell
2	O-ring	14	O-ring	26	Flat Key
3	Hex socket screw	15	Oil level gauge	27	Positioning sleeve
4	Crankcase Rear Cover	16	Circlip	28	Front part of the bearing shell
5	Back cover gasket	17	Bearing	29	Connecting rod body
6	O-ring	18	Ring	30	Circlip
7	Fuel accessories	19	Circlip	31	Crosshead
8	Oil baffle	20	Oil seal	32	Piston pin bushing
9	Fuel cap	21	Crankcase	33	Piston pin
10	Hex socket screw	22	Connecting rod bolt	34	Crankshaft
11	Bearing End Cap	23	Spring washer	35	Input shaft end cover
12	End cover sealing gasket	24	Connecting rod cap	36	Oil seal

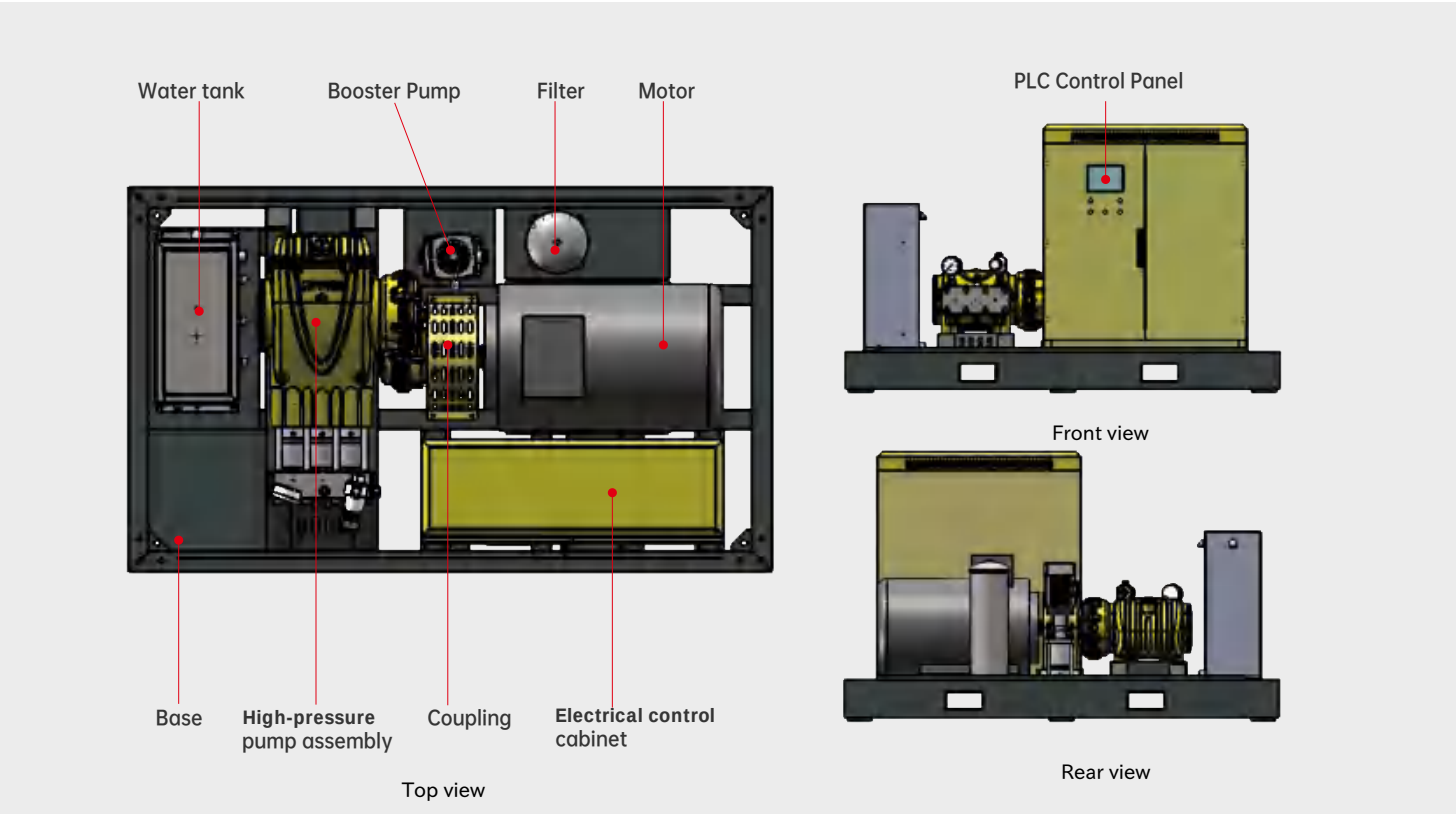
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:2.23	Maximum speed	Model	gal	L
160	117		3	1745		650	85W-90	5.8	22

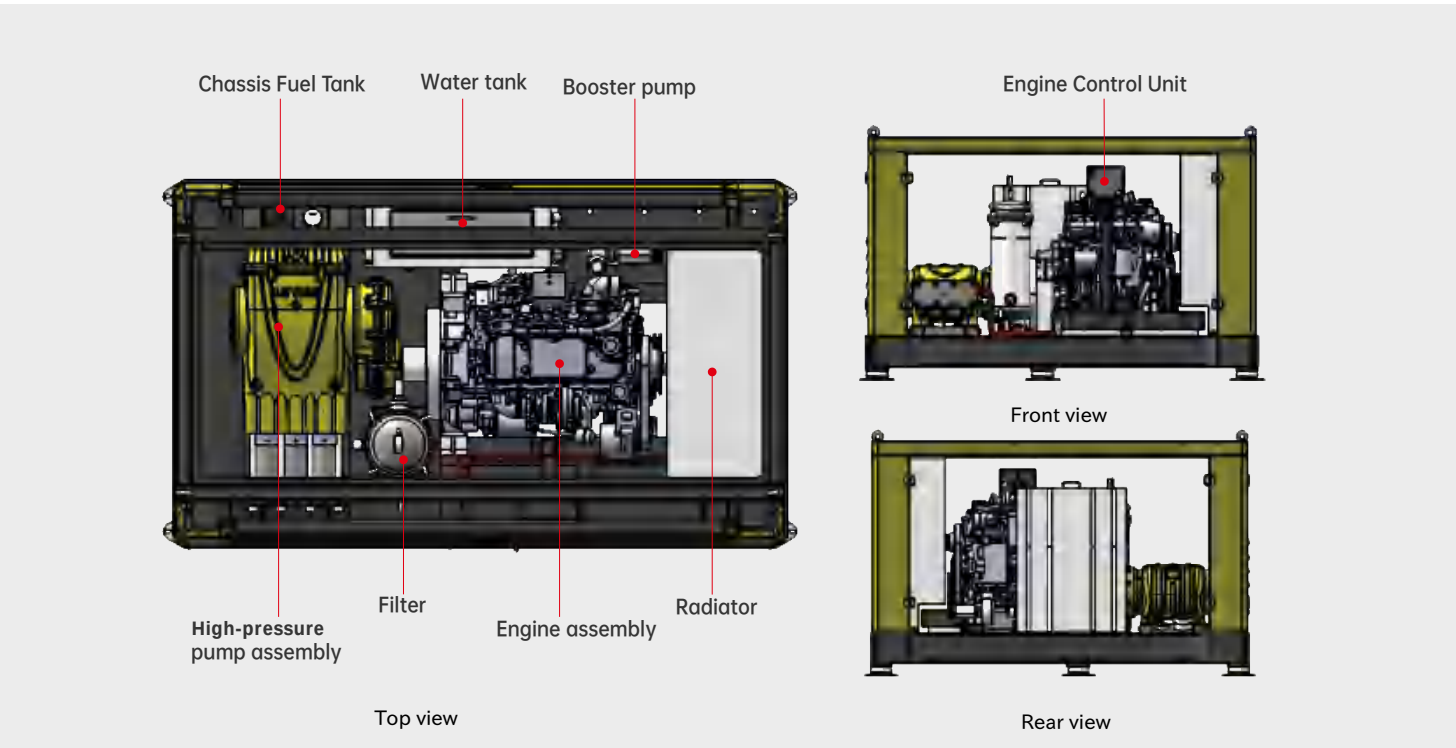
Actual Installation Effect



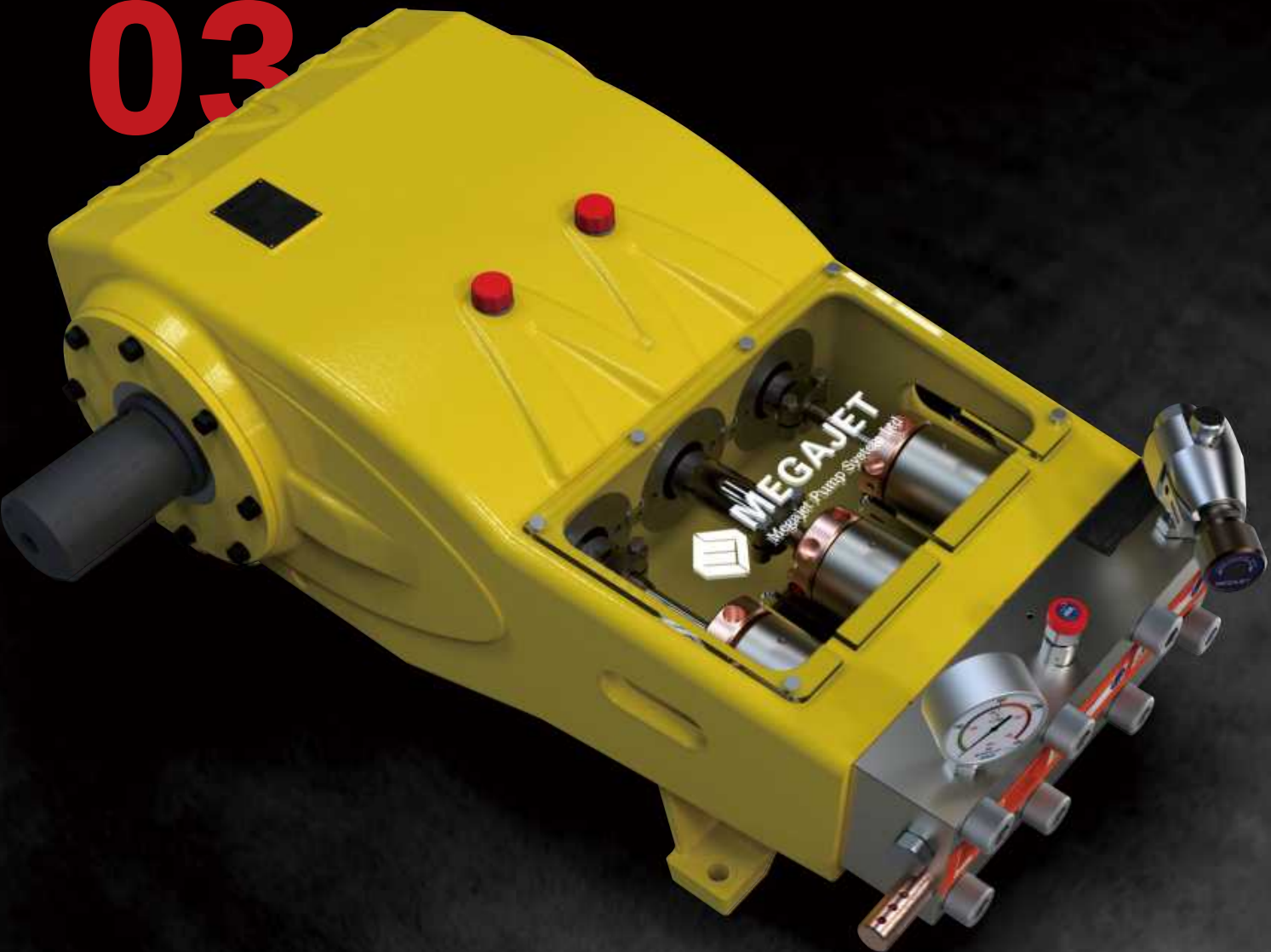
Electric-Driven Unit Annotation



Diesel-Driven Unit Annotation



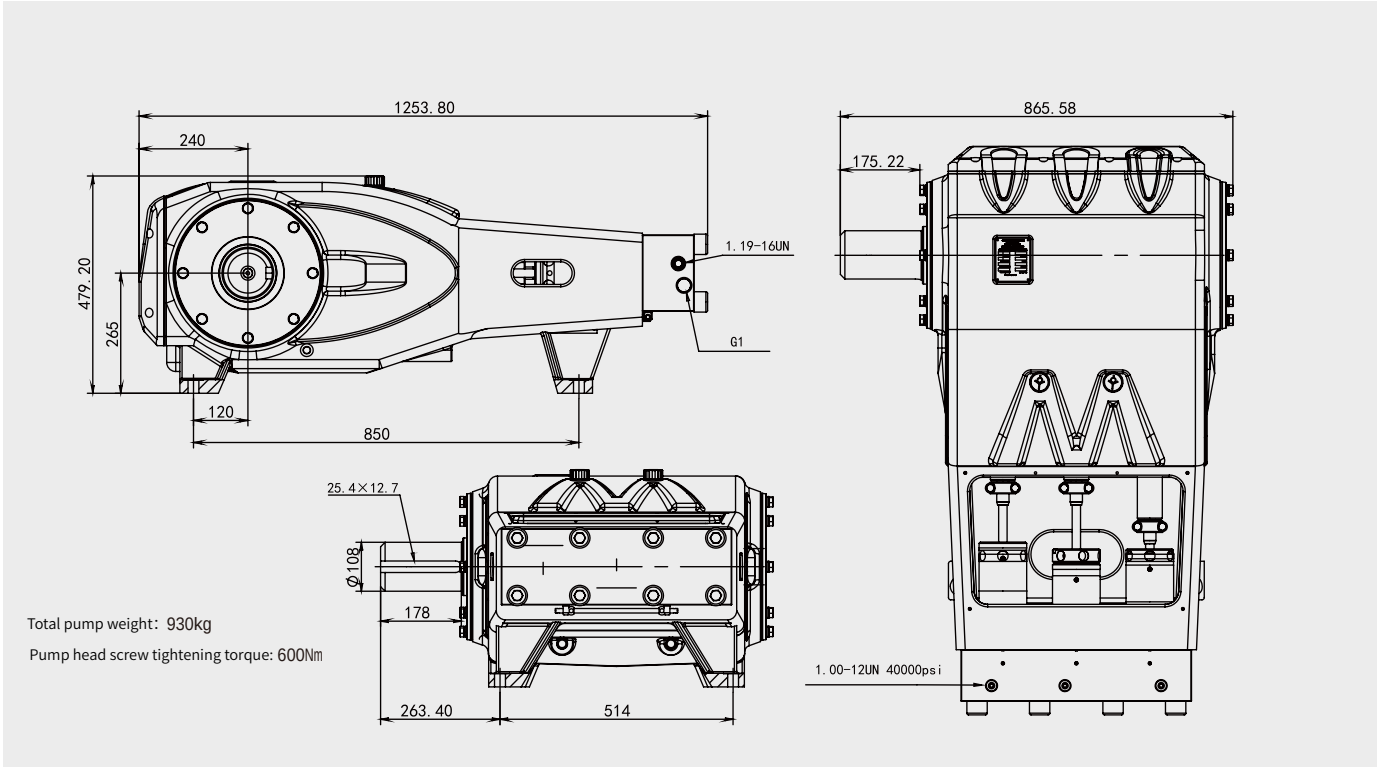
03



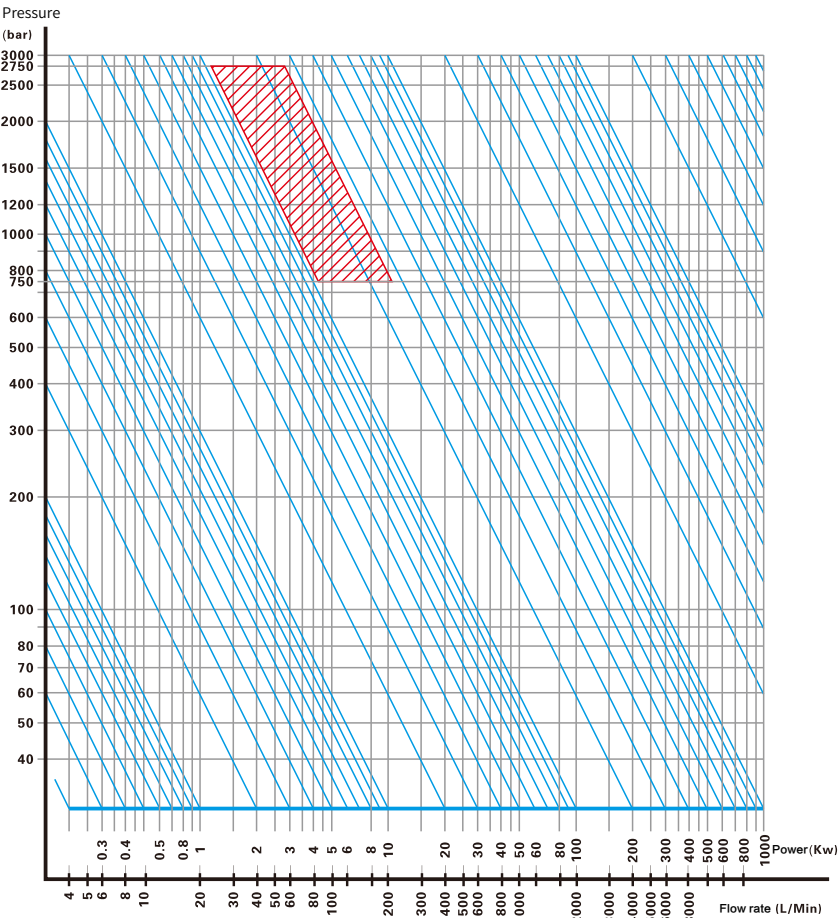
P4200 Series

The 4200 series three-plunger pump can theoretically handle an input power of up to 360 horsepower (264 kW). From a minimum pressure output of 45.96 Gpm 10877 Psi (174 liters/min at 750 Bar) to a maximum pressure output of 12.1 Gpm at 40000 Psi (45.9 liters/min at 2750 Bar). Unlike other series of plunger pumps, the 4200 series three-plunger pump uses belt reduction, and diesel engine equipment is usually used with a clutch, enabling the pump unit to have better heat dissipation performance and a longer service life. With a relatively high performance output, it is destined that it cannot be operated solo without tool assistance, as the significant recoil and destructive power pose a great safety risk to personnel. Its use is usually combined with different industry-specific application mechanisms, or the output performance is distributed across 2-3 dedicated tools (such as overflow guns, gun heads, foot-operated valves, etc.).

Plunger Pump Parameters



Unit: Mm

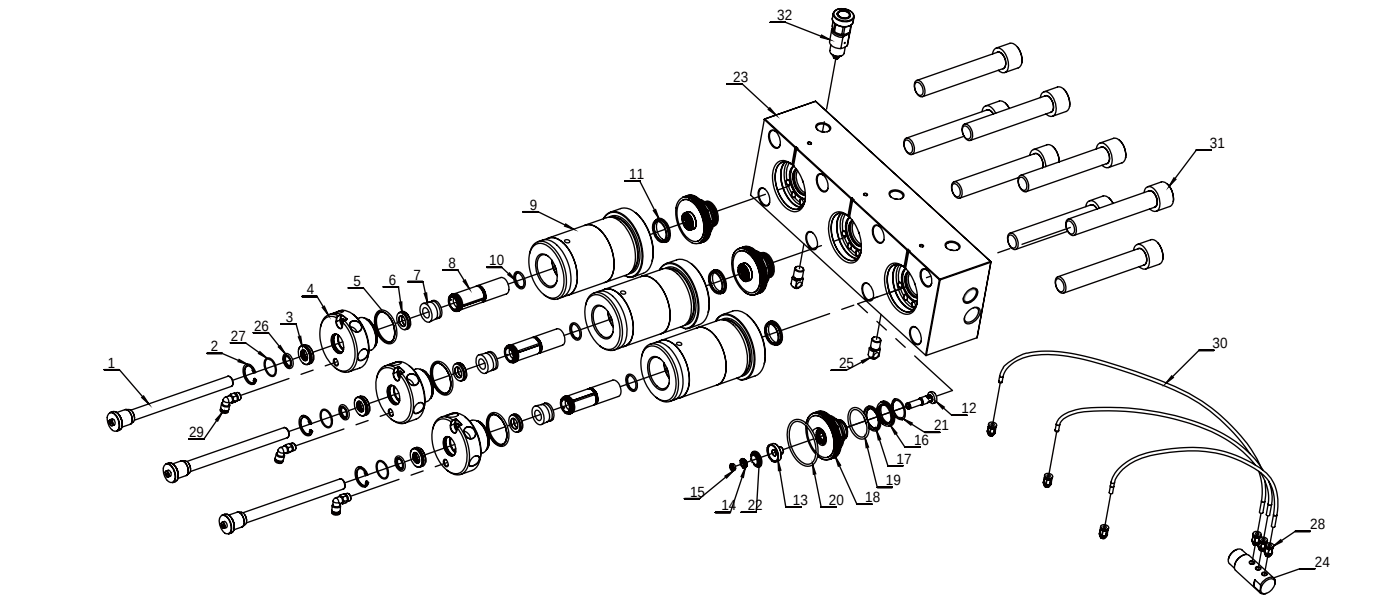


Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Plunger	12	Drain valve	23	Valve block
2	Circlip	13	Water intake valve	24	Cooling water pipe joint
3	Low-pressure sealing seat	14	Lock ring	25	Hinge screw
4	Gland nut	15	Locking circlip	26	Stephon
5	O-ring	16	53495-5 Seal Kit 1	27	O-ring
6	Water-sealed compression ring	17	Combination valve seal gasket	28	Pipe joint
7	Root system	18	Combined valve body	29	Pipe elbow
8	Plunger copper sleeve	19	O-ring	30	Rubber hose
9	Packing box	20	O-ring	31	Hex socket cylindrical head screw
10	O-ring	21	Circlip	32	Explosion-proof film holder
11	End face seal	22	Spring		

Fluid End Parameters

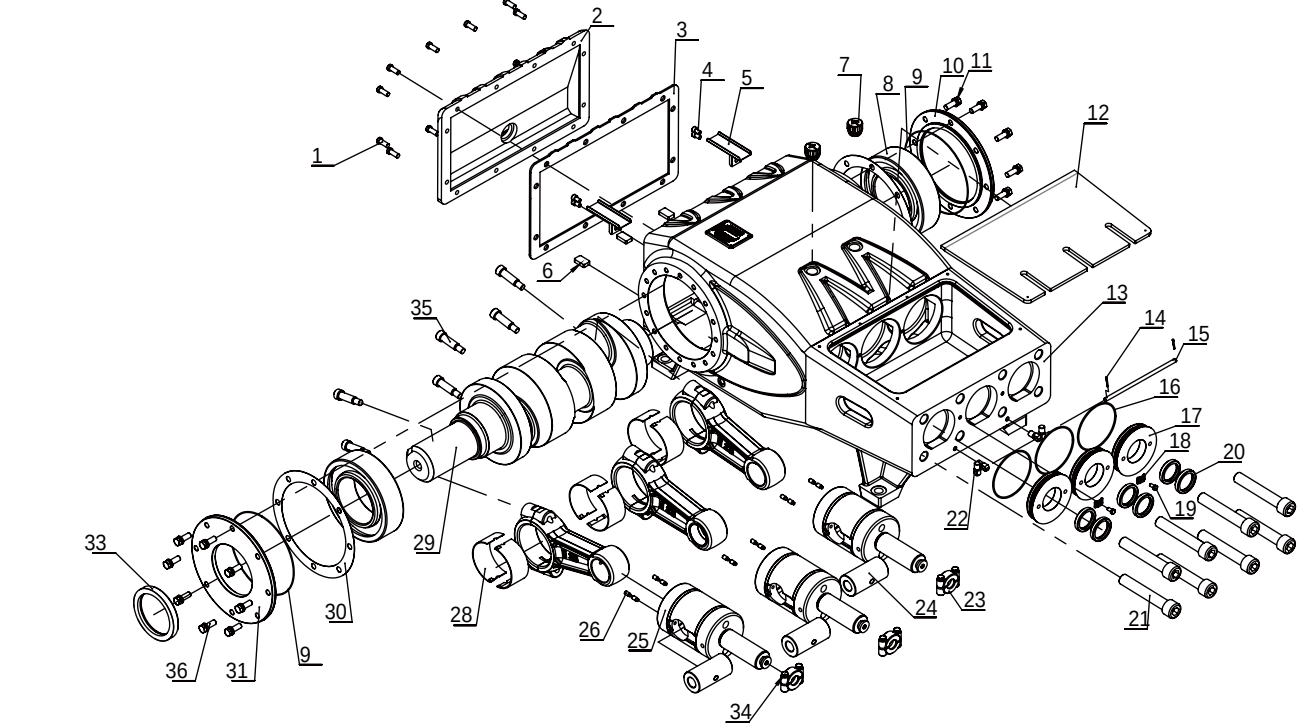
Plunger Pump Model	Plunger Model Size			Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	380 R P M/Min	500 R P M/Min	
		mm	mm	L/Min		
4200-40k-#8	#8	18.54	108	38	45	2750
4200-30k-#9	#9	20.32	108	42	53	2000
4200-22k-#11	#11	27.94	108	80	100	1500
4200-15k-#12	#12	30.5	108	95	120	1000

1Bar = 0.1Mpa = 14.5Psi
1L/Min= 0.06mm³/H = 0.264Gpm
1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details

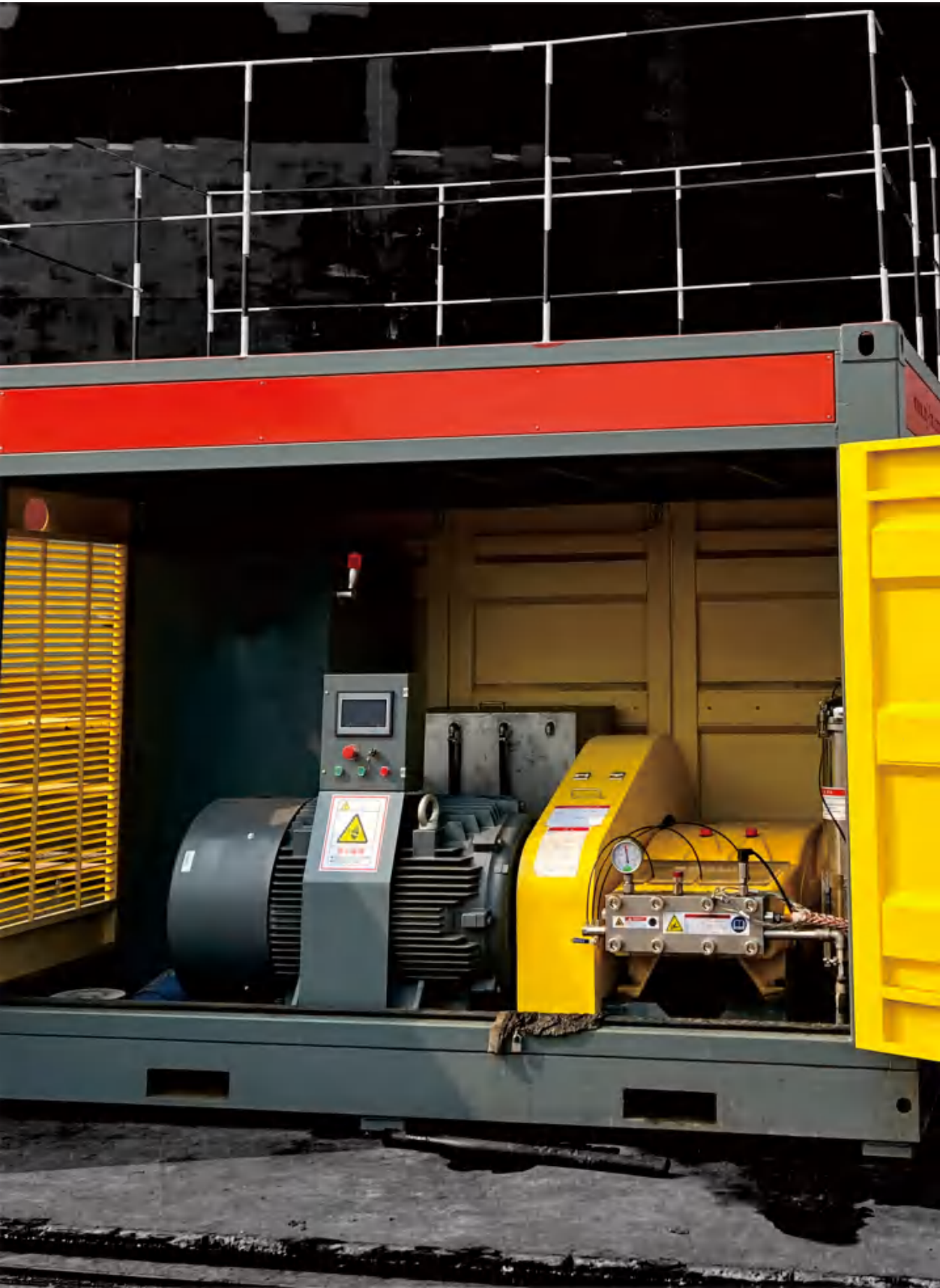


Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Hex Socket Cylindrical Head Screw	13	Pump casing	25	crosshead
2	Aluminum back cover	14	Cotter pin	26	Hex socket head cap screw
3	Rear end cover paper gasket	15	Pin	27	Connecting rod bronze bushing assembly
4	Hex socket cylindrical head screw	16	O-ring	28	Bearing bush
5	Grease scraper	17	Sealing plate	29	Crankshaft
6	High-temperature magnet	18	Spring plunger	30	Shim
7	Vent cap	19	Hex head bolt	31	Inner axial end cap
8	Bearing	20	Oil seal	32	Oil lens
9	O-ring	21	Hex socket cylindrical head screw	33	Crankshaft oil seal
10	Outer axial end cap	22	Hinge screw	34	Hex head screw
11	Hex head bolt	23	Plunger Joint	35	Connecting rod screw
12	Cover plate	24	51534 cross head pin	36	Hex head bolt

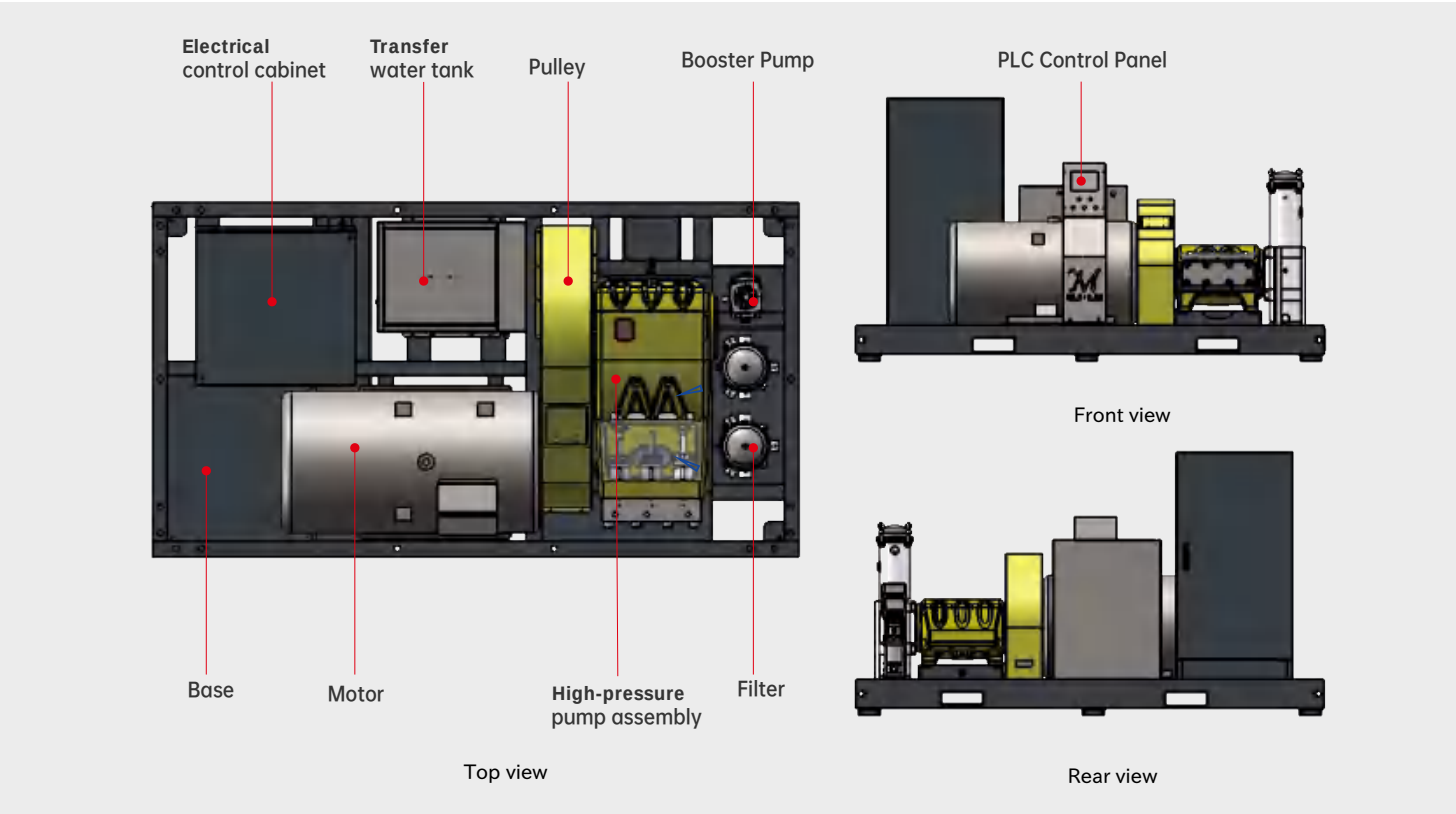
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)		Quantity	RPM		Maximum speed	Model	gal	L
360	264	Belt Pulley Clutch	3	1800	1:3.85	500	85w-90	7.9	30

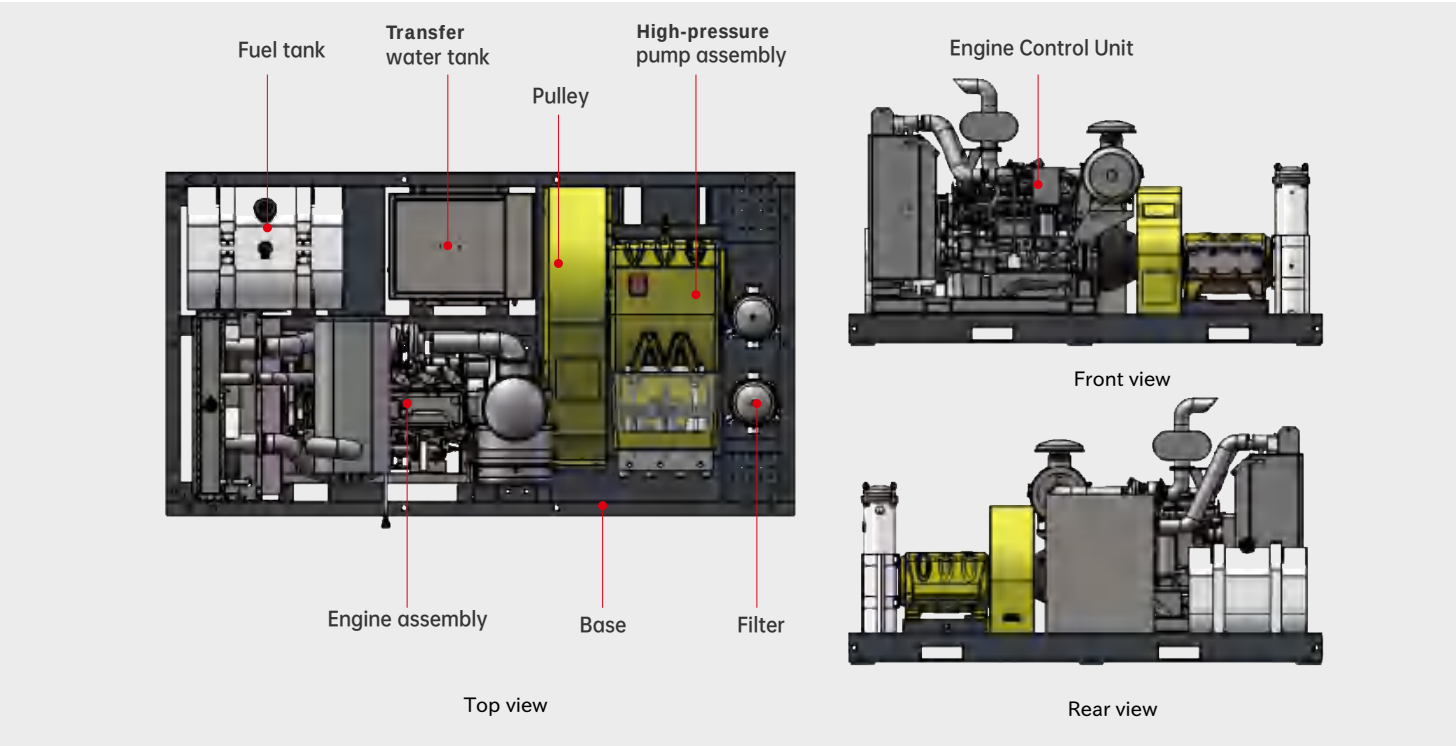
Actual Installation Effect



Electric-Driven Unit Annotation



Diesel-Driven Unit Annotation



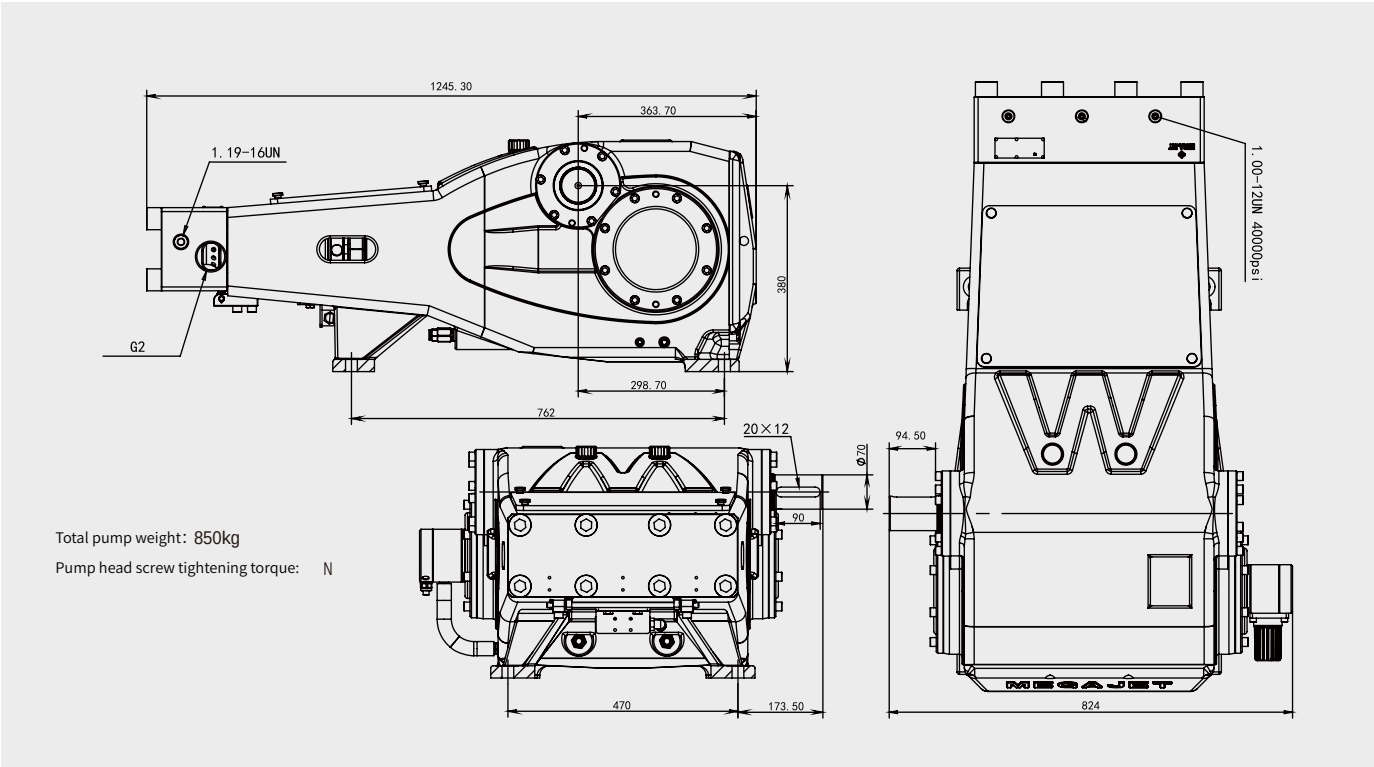
04



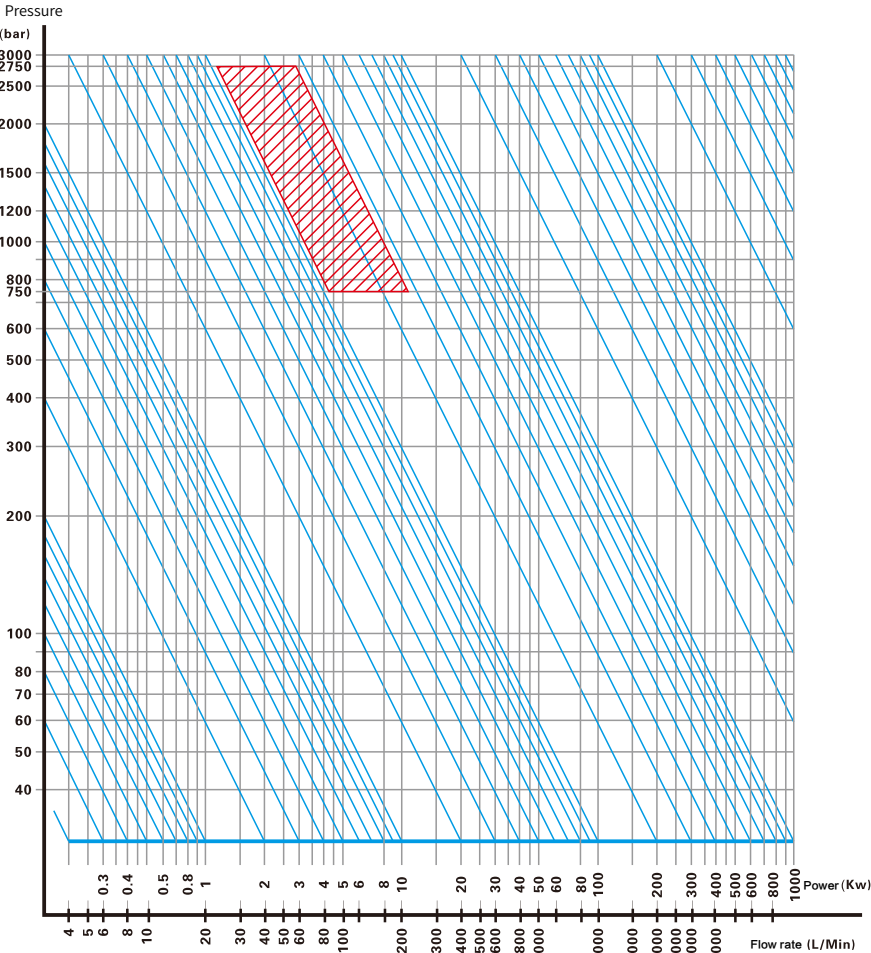
P380 Series

Like the 4200 series, the P380 series three-cylinder piston pump can theoretically handle input power of up to 380 Hp (279 Kw). From a minimum pressure output of 10877 Psi at 45.8 Gpm (173.4 L/Min at 750 Bar) to a maximum pressure of 40000 Psi at 12.68 Gpm (48 L/Min at 2750 Bar). The internal deceleration method eliminates components such as belts and clutches, reducing space usage and allowing the high-pressure pump unit to have a relatively small overall size, which also indirectly lowers manufacturing costs. Continuous cooling water carries away most of the heat in the crankcase through built-in brass cooling fins, providing ample assurance for long-term stable operation of the equipment.

Plunger Pump Parameters



Unit: Mm



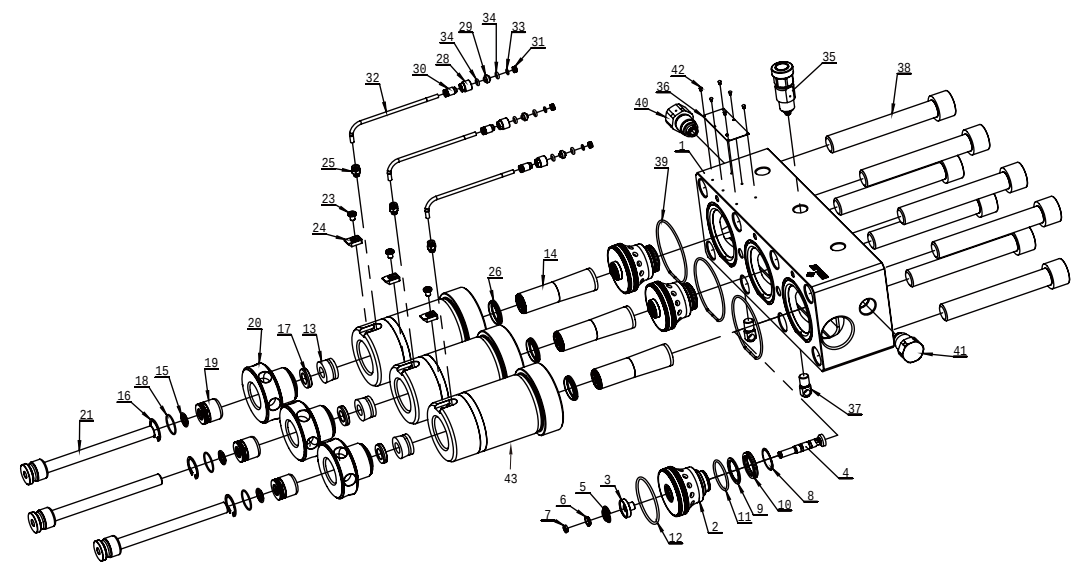
Remarks:

- 1Bar = 0.1Mpa
- 1L/Min= 0.06
- 1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Valve block	16	Elastic retaining ring	31	Pump head sealing plug
2	Combination valve	17	Alloy ring	32	Cooling water pipe
3	Combined water suction valve	18	O-ring	33	O-ring
4	Drain valve	19	Low-pressure return water sealing seat	34	O-ring
5	Spring	20	Gland nut	35	Explosion-proof film holder
6	Locking ring	21	Plunger	36	40K Sign
7	Locking circlip	22	Cooling water connector	37	Hinge screw
8	Circlip	23	Flat-head screw	38	Screw
9	Washer	24	Anti-loosening pressure block	39	O-ring
10	Seal	25	Cooling water connector	40	Pump outlet connector
11	O-ring	26	Seal	41	High-pressure pump plug
12	O-ring	27	O-ring	42	Label nut
13	40K Packing	28	Sealed joint	43	Packing box
14	Plunger copper sleeve	29	Import End Face Gasket		
15	Stephon	30	Cooling water connector		

Fluid End Parameters

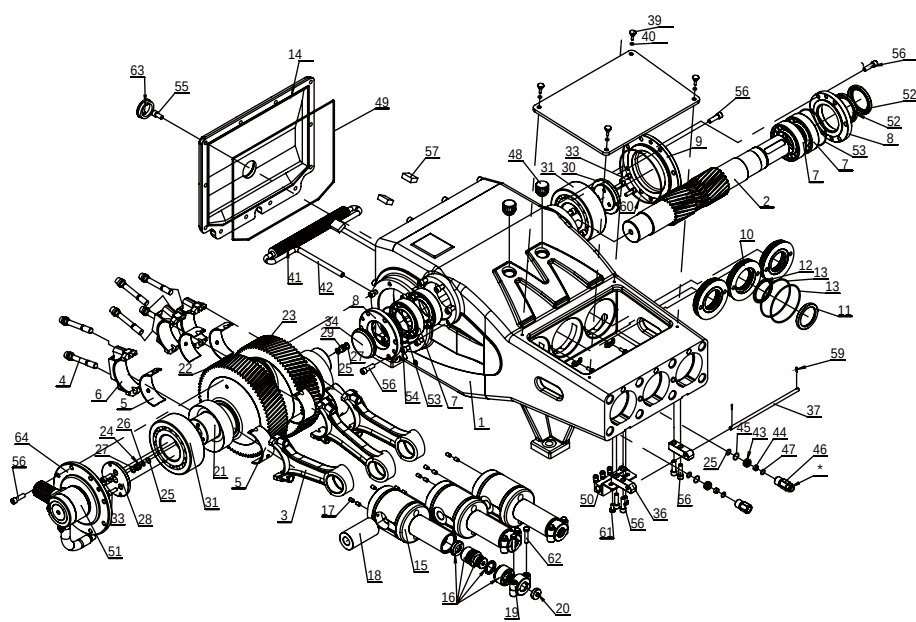
Plunger Pump Model	Plunger Model Size			Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	415 R P M/Min	500 R P M/Min	
		mm	mm	L/Min		
P380-40k-#8	#8	18.54	120	38	45	2750
P380-40k-#8	#8	18.54	102	33	38	2750
P380-30k-#10	#10	24.89	102	60	68	2000
P380-22k-#12	#12	30.5	102	90	100	1500
P380-15k-#13	#13	37	102	132	150	1000

18Bar = 0.1Mpa = 14.5Psi
1L/Min= 0.06mm³/H = 0.264Gpm
1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Pump casing	23	Gear	45	O-ring
2	Input shaft	24	Crankshaft oil pump connection seal	46	Pump Cooling Water Connector
3	Connecting rod	25	O-ring	47	O-ring
4	Connecting rod screw	26	O-ring	48	Vent cap
5	Bearing bush	27	Bore with elastic retaining ring	49	End cap O-ring
6	Connecting rod cap	28	Crankshaft oil pump connection cover plate	50	Water Recovery Component
7	Bearing	29	Oil plugs at both ends of the crankshaft	51	Gear pump
8	Input shaft end cover	30	Bearing cover plate	52	Oil seal
9	Crankshaft cover	31	Bearing	53	O-ring
10	Sealing plate	32	Crankshaft oil plug	54	O-ring
11	Oil seal	33	Hex socket cylindrical head screw	55	Hex socket cylindrical head screw
12	Stephon	34	Input shaft end cover oil plug	56	Hex socket cylindrical head screw
13	O-ring	35	Hex head bolt	57	Magnet
14	Aluminum Rear Cover of Crankcase	36	Hinge base	58	Oil baffle pad
15	crosshead	37	Hinge pin	59	Cotter pin
16	Self-adjusting heart component	38	Cover plate	60	O-ring
17	Set screw	39	Hand-tighten screws	61	Hex head bolt
18	Piston pin	40	O-ring	62	Hex head bolt
19	Plunger Joint	41	Spiral heat dissipation tube	63	Oil lens
20	Plunger Connecting Gasket	42	Cooling copper tube	64	Crankshaft cover
21	Crankshaft	43	Water-cooled pipe copper gasket		
22	Gear	44	Oiler		

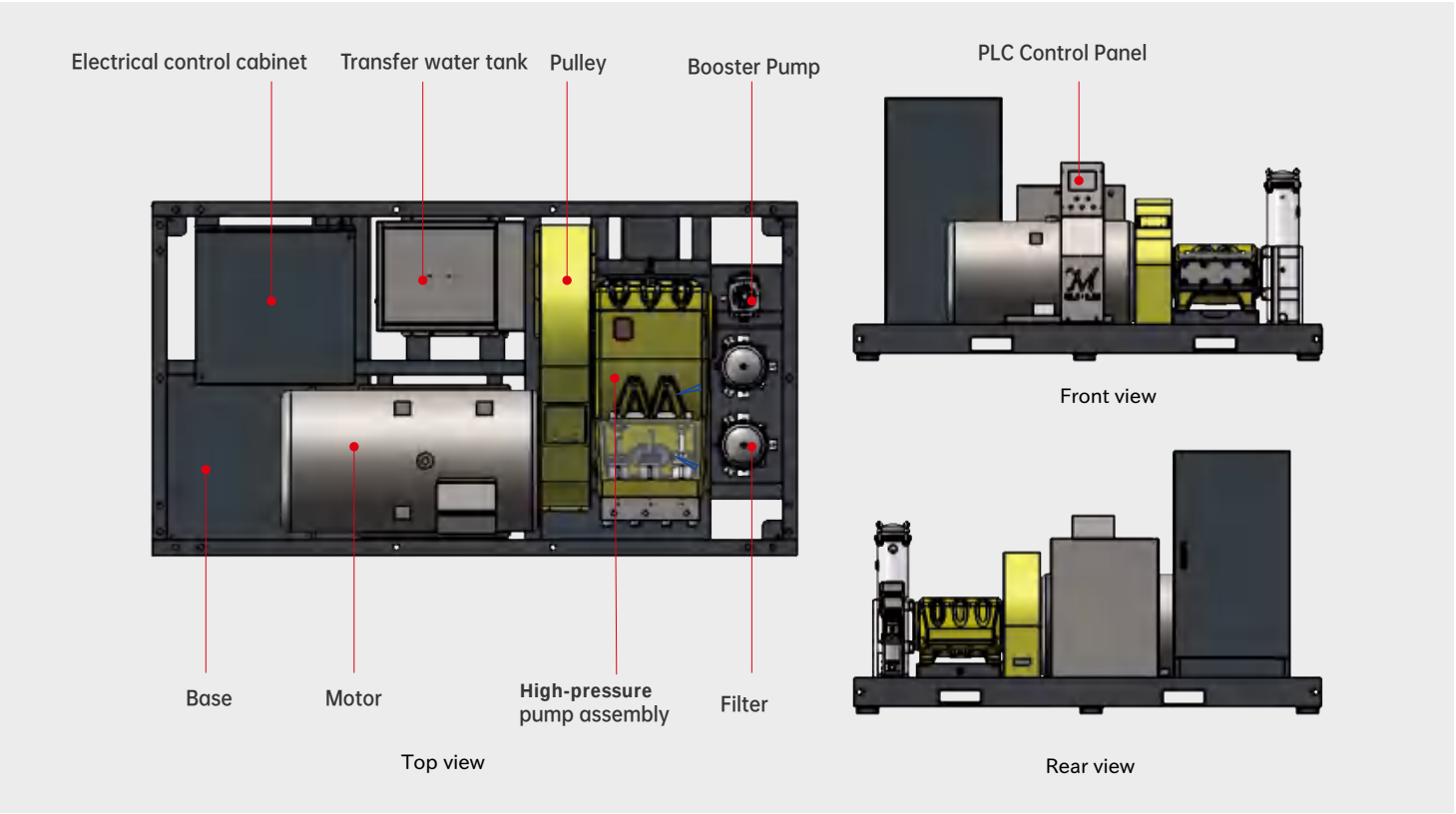
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:3.5	Maximum speed	Model	gal	L
380	279		3	1750		500	85w-90	7.9	30

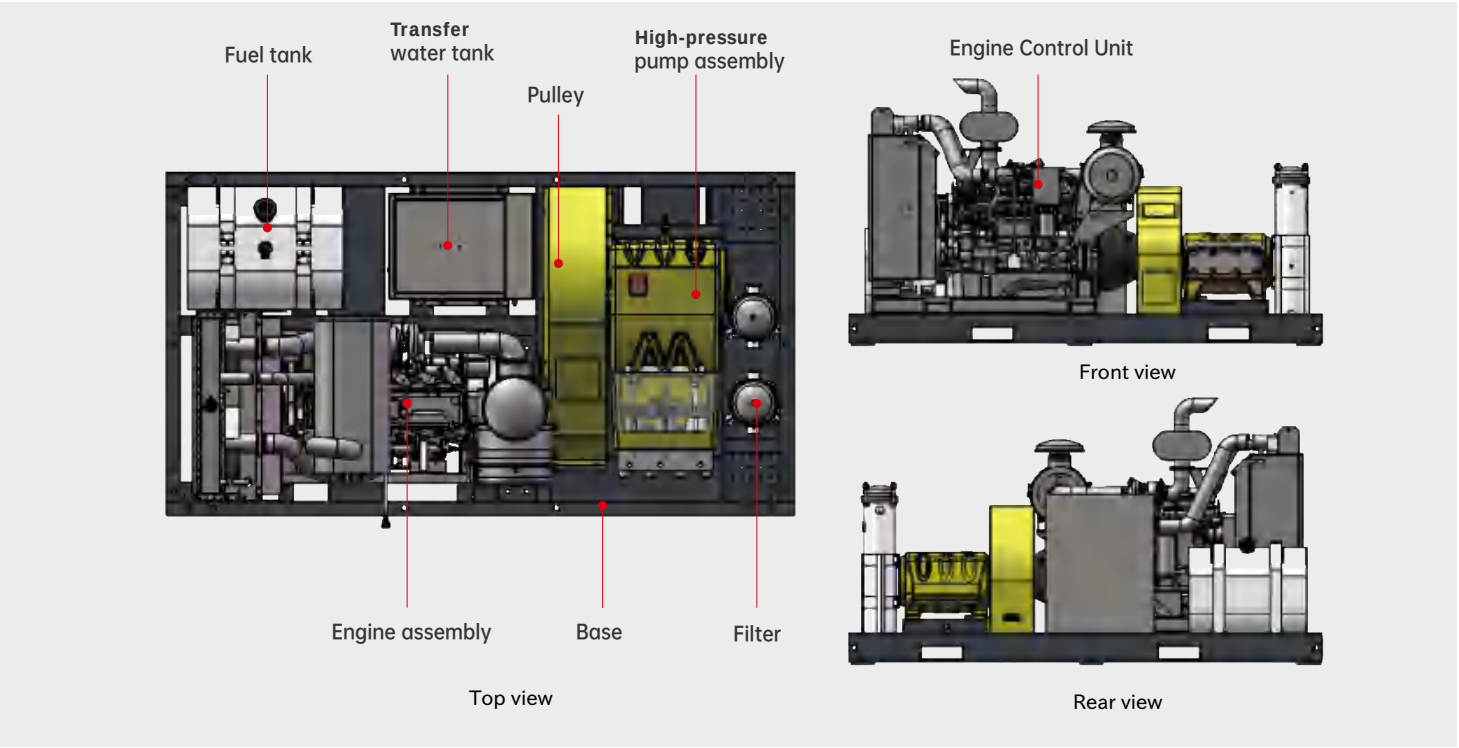
Actual Installation Effect



Electric-Driven Unit Annotation



Diesel-Driven Unit Annotation



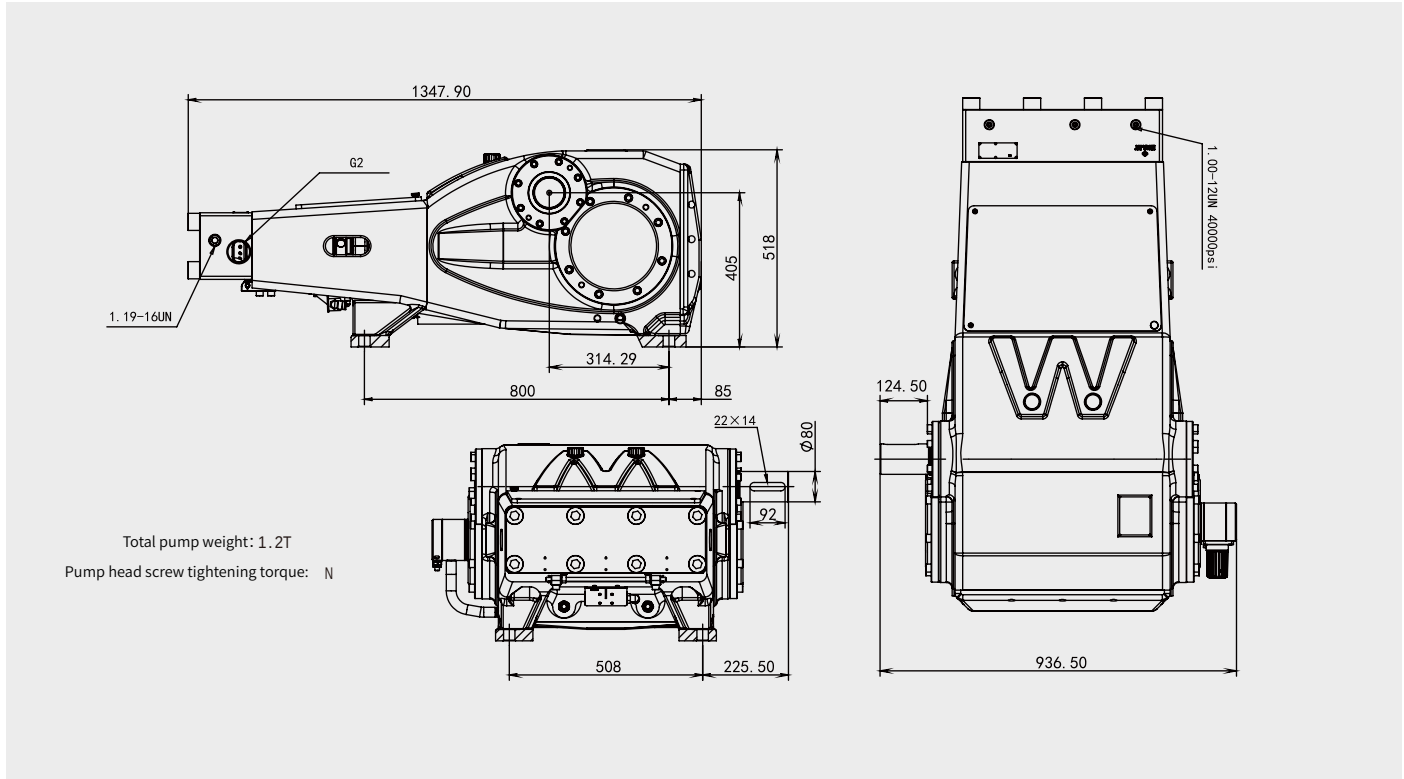
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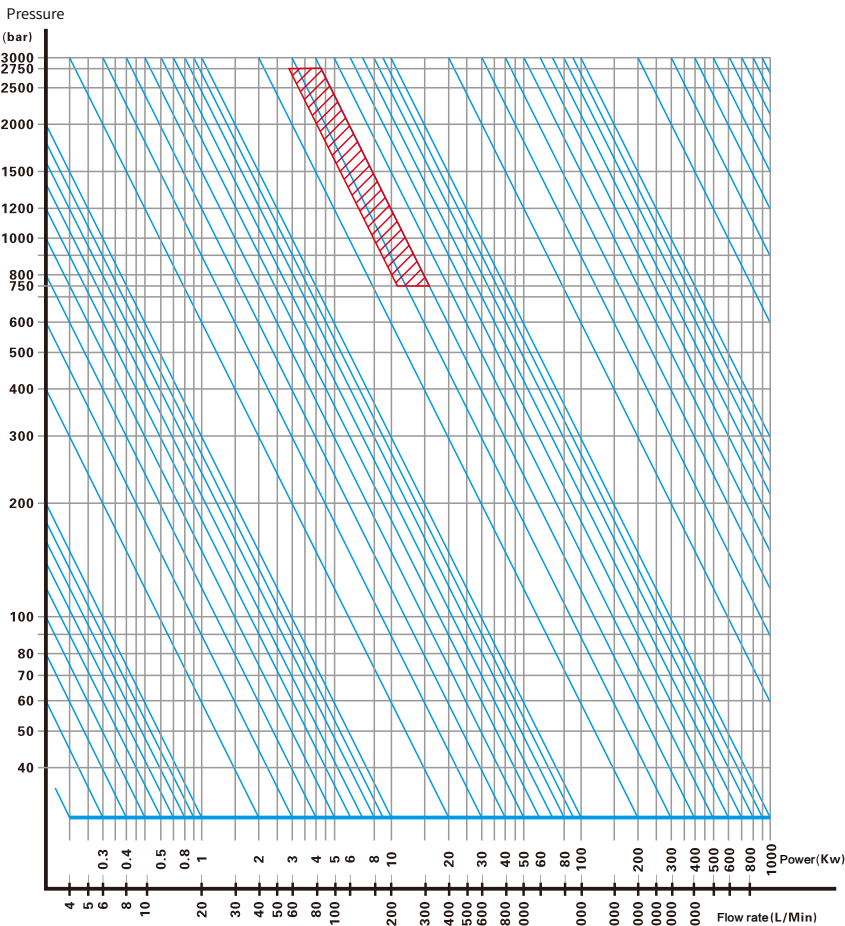
P550 Series

The P550 series three-plunger pump can theoretically handle input power of up to 550 horsepower (400 kW). As an upgraded version of the P380 series three-plunger pump, it has a longer stroke and smaller volume change, increasing from 102 mm to 127 mm. Therefore, it can deliver greater performance output, from a minimum pressure output of 10,877 PSI at 72.03 GPM (272.7 L/min at 750 Bar) to 18.8 GPM at the maximum pressure of 40,000 PSI (71.2 L/min at 2750 Bar).

Plunger Pump Parameters



Unit: Mm



Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

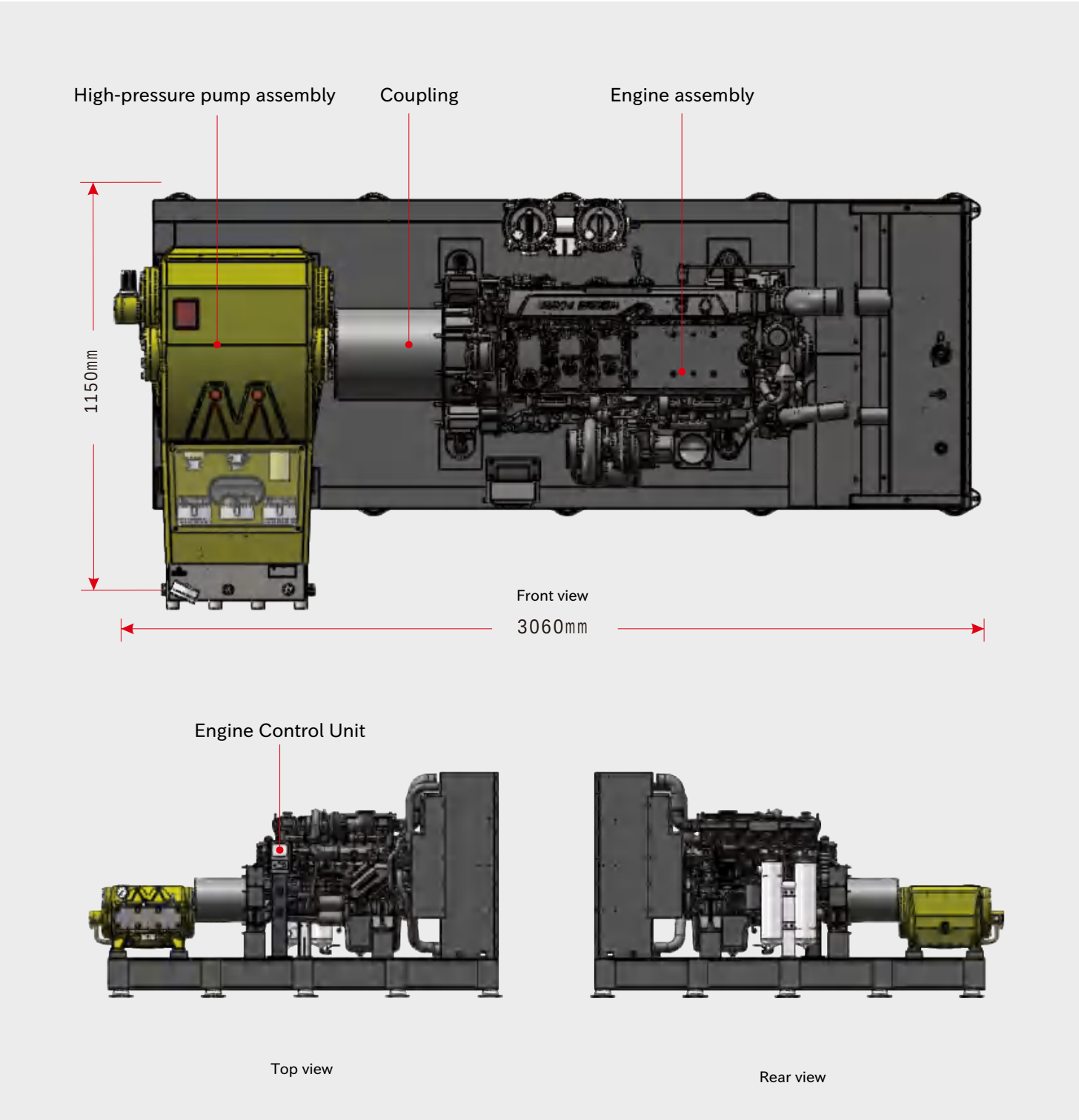
The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.

 Performance Range
 Power

Actual Installation Effect



Diesel-Driven Unit Annotation



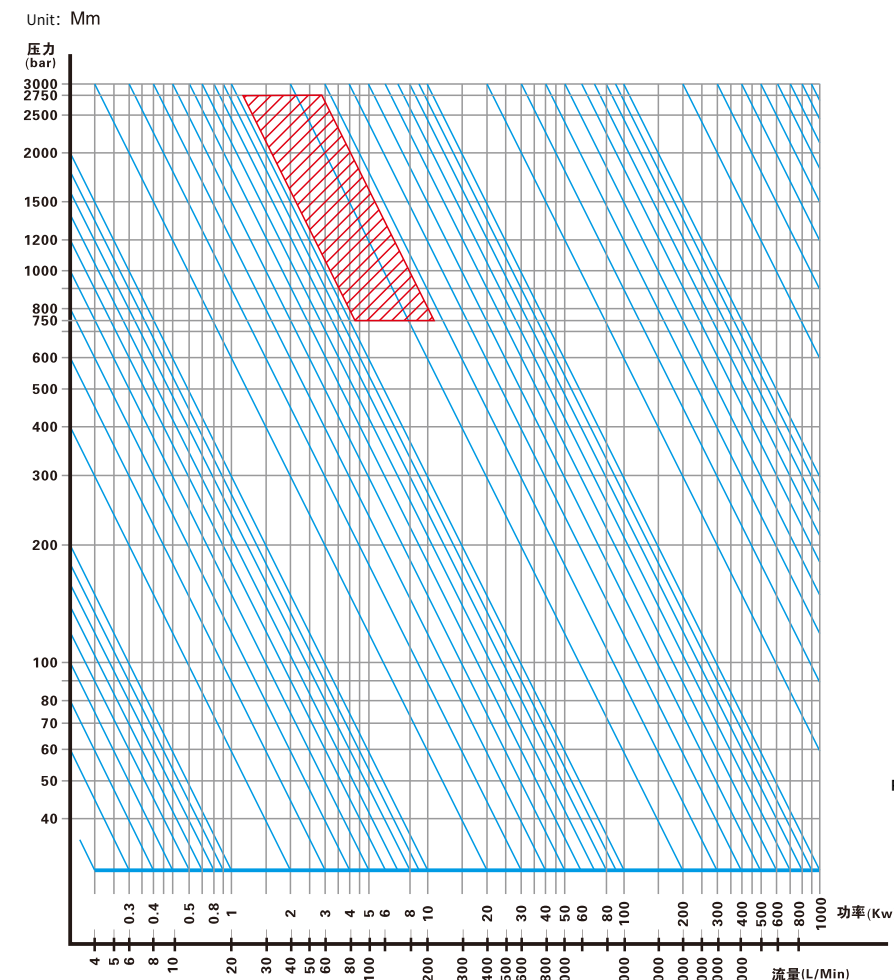
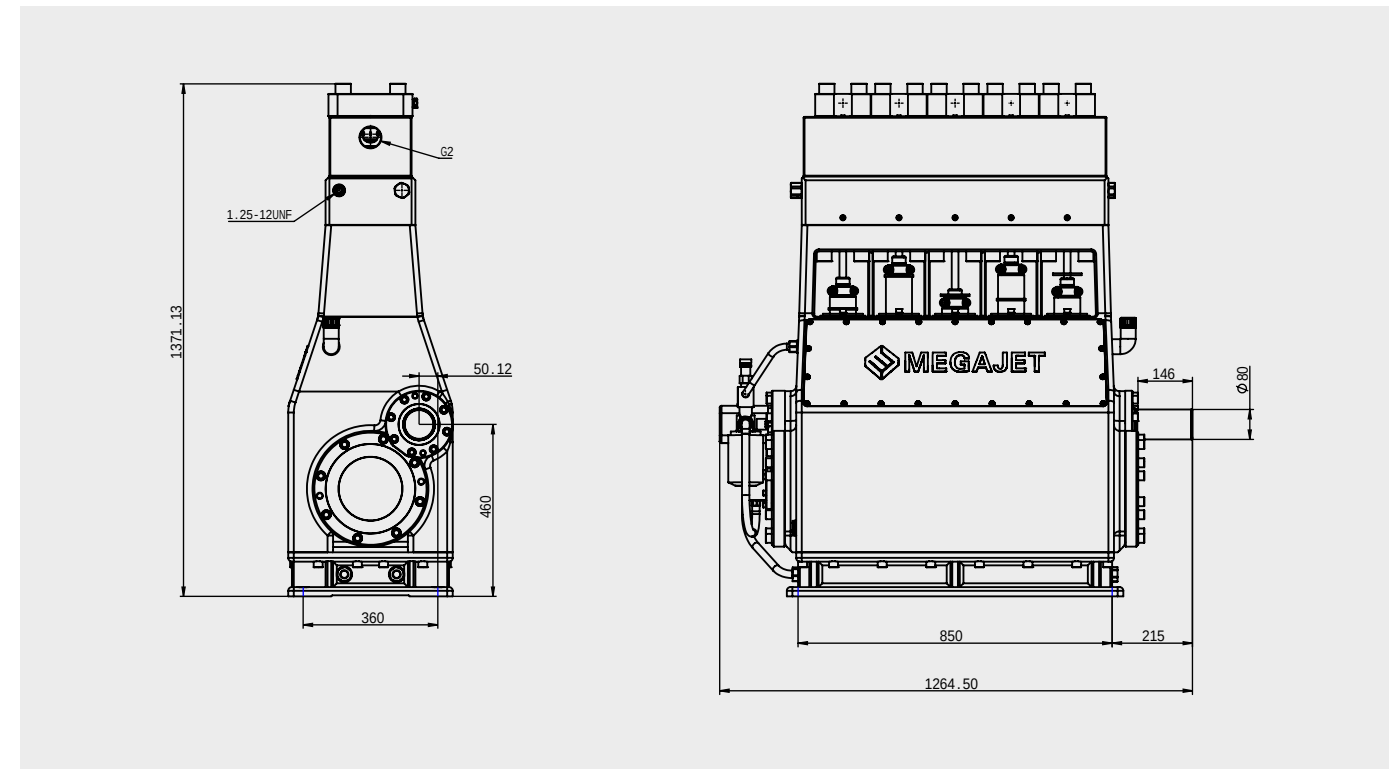
06

Vertical five-plunger

The vertical five-plunger model delivers a maximum input power of up to 550 Hp (370 kW) with an input speed of 1,700 rpm. Unlike conventional horizontal plunger pumps, vertical pumps adopt an upright layout, occupying floor space only via the base. For identical flow rate and pressure parameters, their footprint is considerably smaller than horizontal units. Vertical pumps are the preferred choice for compact workshops with densely arranged equipment, modular unit systems, and vehicle-mounted cleaning equipment.

Balanced Main Shaft Loading: The main shaft is subjected primarily to axial forces with minimal additional radial loads, enabling stable load bearing on bearings and slower wear of both bearings and the main shaft, resulting in extended overhaul intervals. By contrast, the main shaft of horizontal pumps continuously bears radial bending moment generated by the self-weight of plungers, leading to unilateral fatigue wear on bearings.

Plunger Pump Parameters

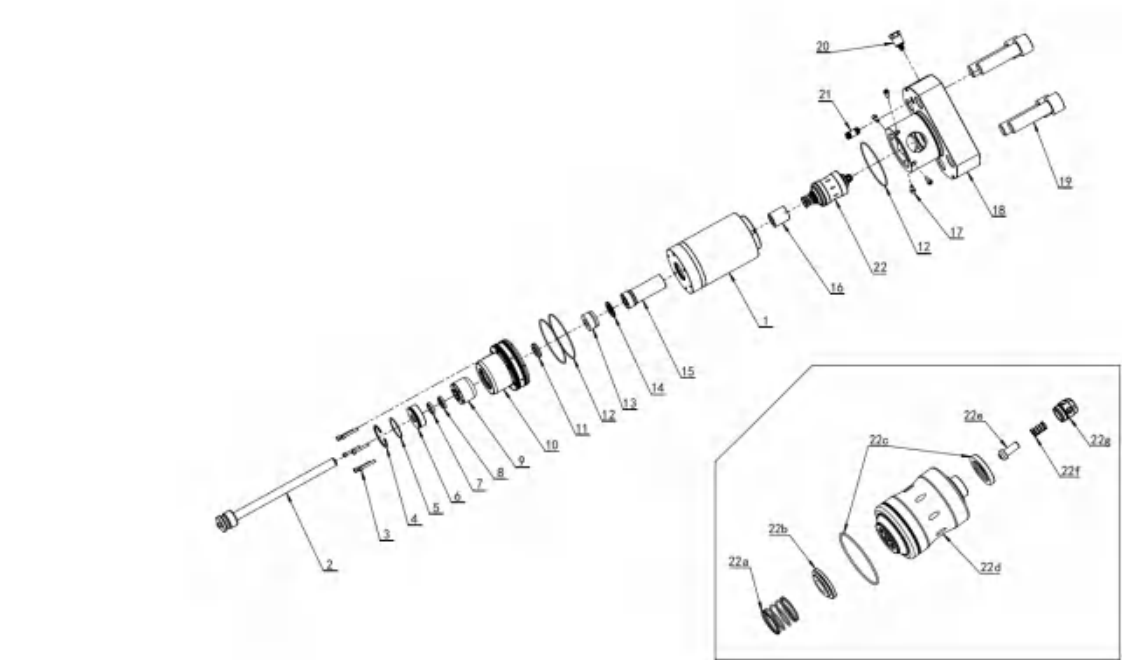


Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	stuffing box	11	Alloy ring	21	Connecting sealing part
2	plunger	12	O- ring	22	Finished Combination Valve
3	Hexagon socket head cap screw	13	High pressure water seal	23	Spring
4	Retaining Ring	14	Seal support pad	24	Suction valve
5	O- ring	15	Sealing tube	25	Seal
6	Seal Seat	16	Spring seat	26	Combined valve body
7	Seal retainer ring	17	Socket head cap screw	27	Discharge Valve
8	Low-pressure seal	18	Pump head	28	Spring
9	Guide Sleeve	19	Socket Head Cap Screw	29	Fixing sleeve
10	Gland	20	Pump head plug		

Fluid End Parameters

Plunger Pump Model	Plunger Model Size			Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	415 R P M/Min	500 R P M/Min	
					L/Min	
43.5K-L1#8	L1#8	18	100	52	63	3000

1Bar = 0.1Mpa = 14.5Psi

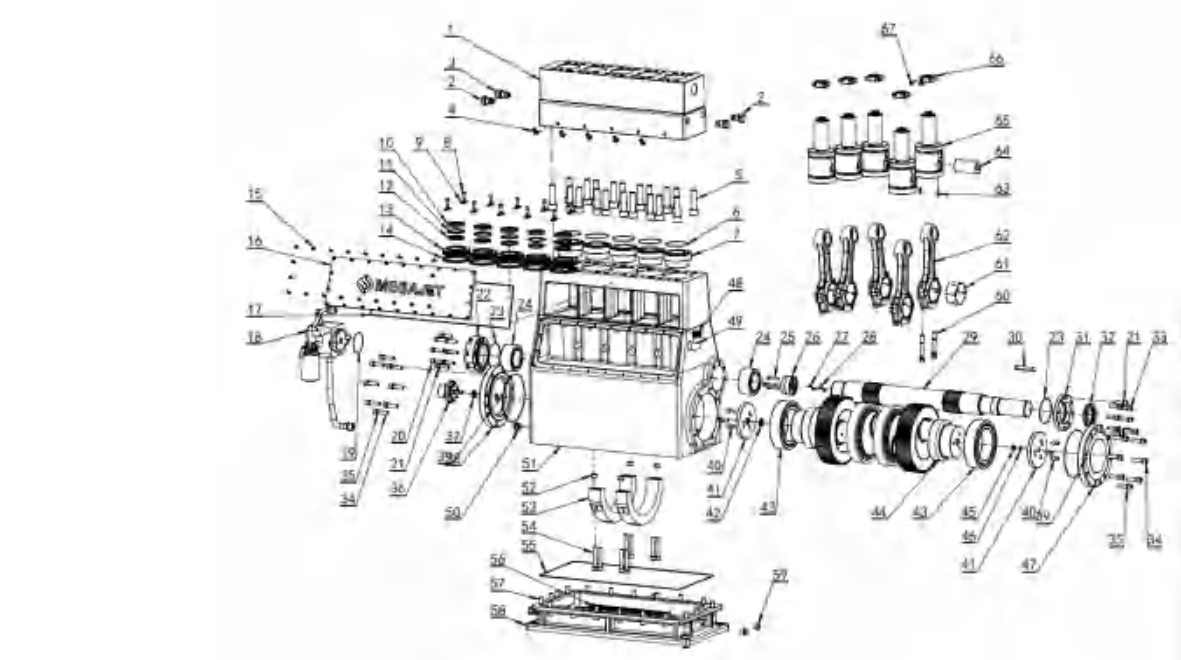
1L/Min= 0.06mm³/H = 0.264Gpm

1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Connecting block	24	Bearing	47	Crankshaft cover
2	Pump head plug	25	Socket Head Cap Screw	48	Breather cap
3	Water outlet connector	26	Gear pump connector	49	Elbow
4	Cooling water connector	27	Socket Head Cap Screw	50	Oil level sight glass
5	Socket Head Cap Screw	28	Positioning key	51	Housing
6	O- ring	29	Input shaft	52	Bush
7	Connecting seat	30	Flat key	53	Bearing gland
8	Socket Head Cap Screw	31	End cover	54	Socket Head Cap Screw
9	Pressure pad	32	Oil seal	55	O- ring
10	Oil seal	33	Socket Head Cap Screw	56	Cooling pipe
11	Retaining ring	34	Socket Head Cap Screw	57	Socket Head Cap Screw
12	Seal	35	Spring washer	58	Base
13	Seal plate	36	Crankshaft oil inlet	59	threaded plug
14	O- ring	37	Oil seal	60	Connecting rod bolt
15	Socket Head Cap Screw	38	Crankshaft cover	61	Bearing shell
16	Cover plate	39	O- ring	62	Connecting rod
17	O- ring	40	Socket Head Cap Screw	63	Set screw
18	Gear pump	41	Bearing cover plate	64	Gudgeon pin
19	O- ring	42	Seal	65	Crosshead
20	Socket Head Cap Screw	43	Bearing	66	Plunger chuck
21	Spring washer	44	crankshaft	67	Hex head bolt
22	End cover	45	Oil plug		
23	O- ring	46	Circlip		

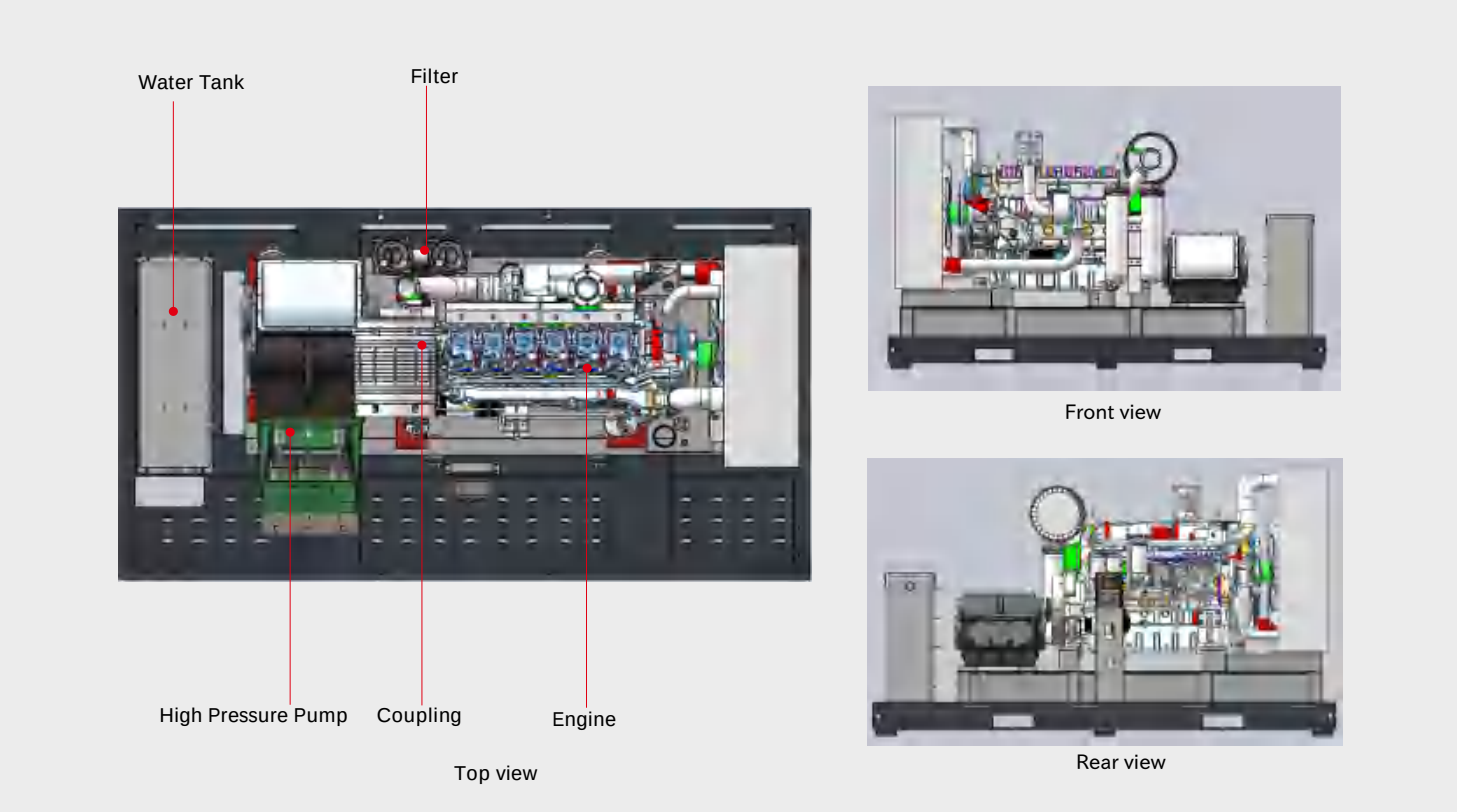
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:3.33	Maximum speed	Model	gal	L
500	370		5	1700		510	85w-90	11.9	45

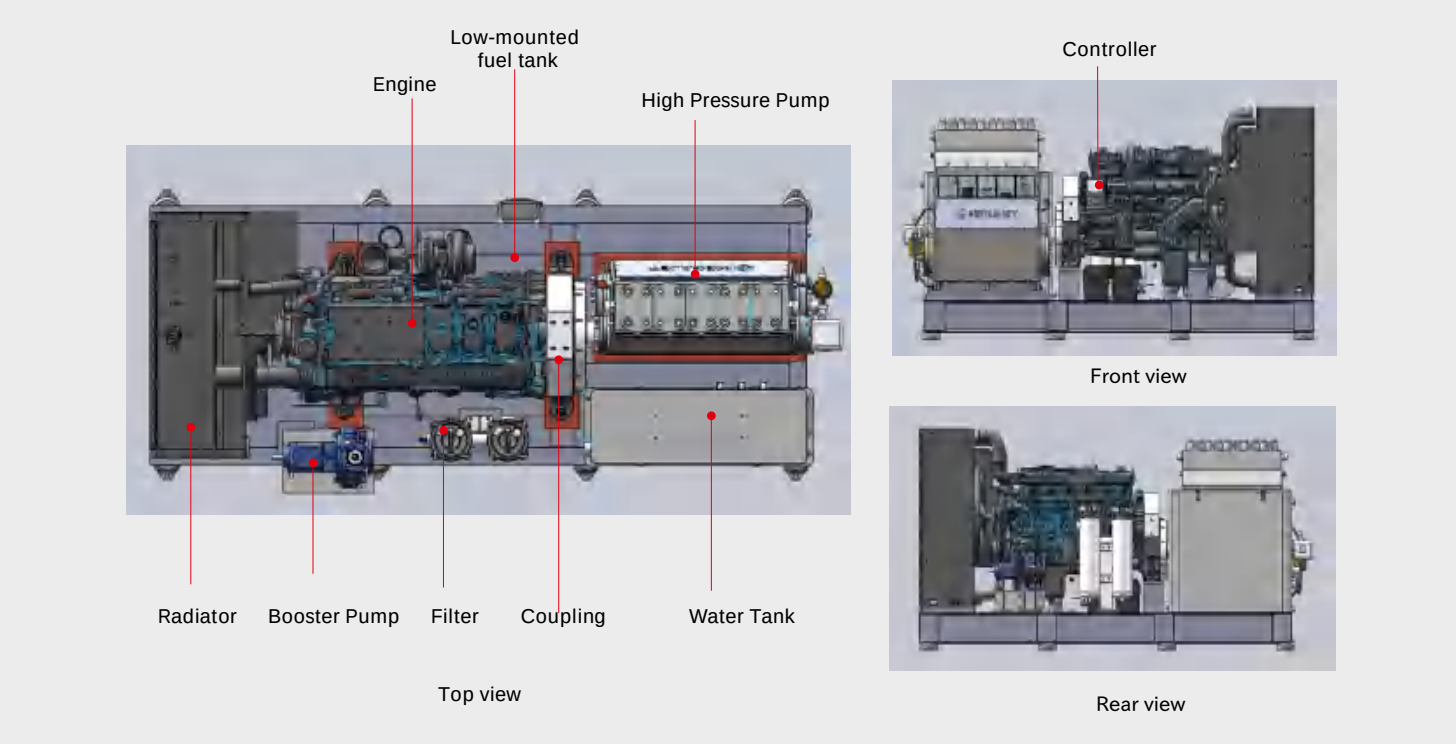
Actual Installation Effect



Electric-Driven Unit Annotation



Diesel-Driven Unit Annotation



07

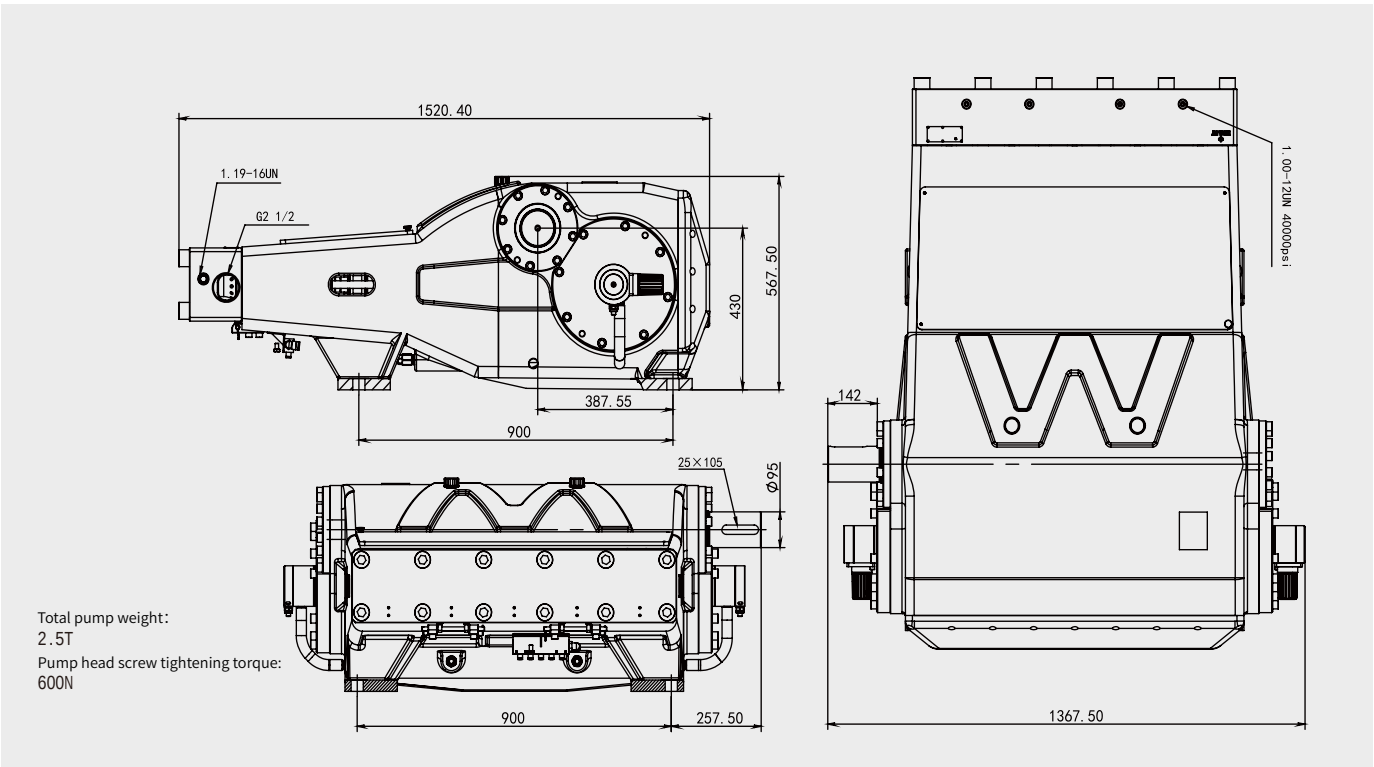


P750 Series

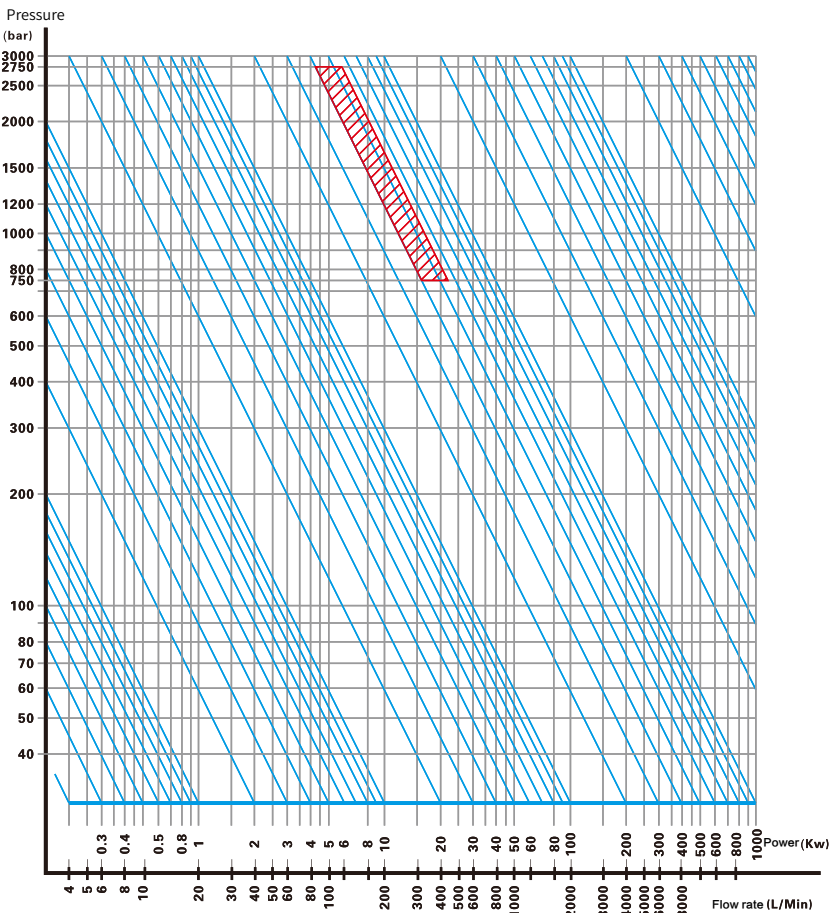
The P750 series five-cylinder piston pump can theoretically handle input power of up to 750Hp (550 kW). It can meet performance requirements in various large-scale applications, from a minimum pressure output of 10,877 Psi at 76.82 Gpm (290.8 L/Min at 750 Bar) to a maximum pressure of 40,000 Psi at 21.39 Gpm (100 L/Min at 2750 Bar).

It is suitable for use with professional actuators, and the powerful performance paired with professional actuators can provide higher efficiency and processing results during operations.

Plunger Pump Parameters



Unit: Mm

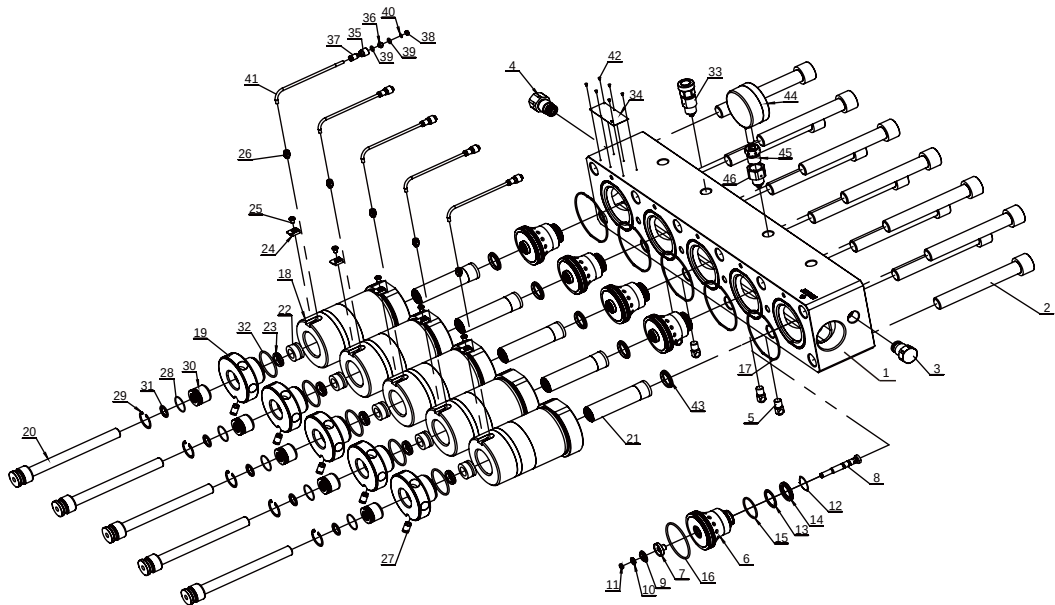


Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.



Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Valve block	17	O-ring	33	Explosion-proof film holder
2	Hex socket cylindrical head screw	18	Stuffing box	34	Sign
3	Pump high-pressure end screw plug	19	Gland nut	35	Cooling water seal joint
4	Pump outlet connector	20	Plunger	36	Cooling water end face gasket
5	Hinge screw	21	Plunger copper sleeve	37	Cooling water connector
6	Combined valve body	22	40K Packing	38	Seal plug
7	Water intake valve	23	Alloy ring	39	O-ring
8	Drain valve	24	Anti-loosening pressure block	40	O-ring
9	Spring	25	Flat-head screw	41	Cooling water pipe
10	Retaining ring	26	Cooling water connector	42	Label nut
11	Locking circlip	27	Cooling water connector	43	End face seal
12	Circlip	28	O-ring	44	40K Pressure gauge
13	Washer	29	Elastic retaining ring	45	Seismic bolt
14	Polyurethane Oil Seal	30	Low-pressure return water sealing seat	46	Connector
15	O-ring	31	Shaft seal		
16	O-ring	32	O-ring		

Fluid End Parameters

Plunger Pump Model	Plunger Model Size		Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	400 R P M/Min 450 R P M/Min	
		mm	mm	L/Min	Bar
P750-40k-#8	#8	18.54	127	68 77	2750
P750-40k-#9	#9	20.32	127	82 92	2750
P750-22k-#12	#12	30.5	127	185 208	1500

1Bar = 0.1Mpa = 14.5Psi

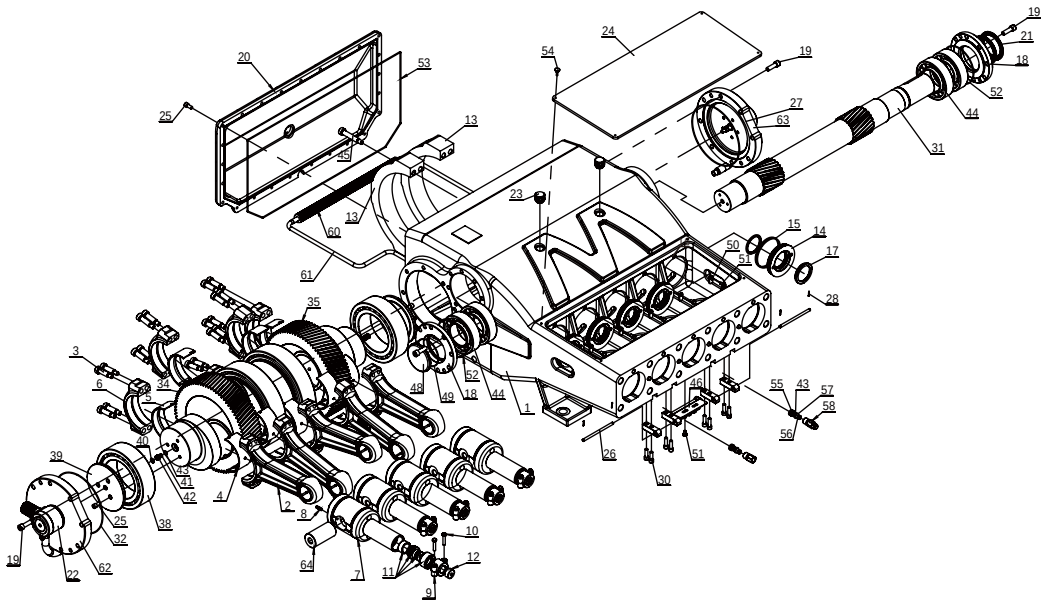
1L/Min= 0.06mm³/H = 0.264Gpm

1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Pump casing	23	Vent cap	45	Tighten screws
2	Connecting rod	24	Cover plate	46	Cooling Water Recovery Seat
3	Screw	25	Screw	47	Pump head locating pin
4	Bearing bush	26	Hinge pin	48	End cap oil plug
5	Bearing bush	27	Gear pump	49	O-ring
6	Connecting rod cap	28	Cotter pin	50	Sealing plate pressing block
7	Crosshead	29	Hinge base	51	Hex head bolt
8	Set screws	30	Screw	52	O-ring
9	Plunger Joint	31	Input shaft	53	Aluminum rear cover sealing strip
10	Hex head bolt	32	O-ring	54	Hand-tighten screws
11	Tuning component	33	Crankshaft	55	Water-cooled pipe copper gasket
12	Connecting Pad	34	Left-hand helical gear	56	Oiler
13	bearing cover	35	Right-hand helical gear	57	O-ring
14	Sealing plate	36	Bearing	58	Pump cooling water connector
15	O-ring	37	Axle clamp	59	O-ring
16	Oil baffle seal	38	Bearing	60	Spiral heat pipe
17	Oil seal	39	Crankshaft cover plate	61	Cooling copper tube
18	Input shaft end cover	40	Bore with elastic retaining ring	62	Crankshaft Cover
19	Screw	41	O-ring	63	Crankshaft Cover
20	Rear cover	42	Crankshaft oil pump connection seal	64	Cross pin
21	Oil seal	43	O-ring		
22	Gear pump	44	Bearing		

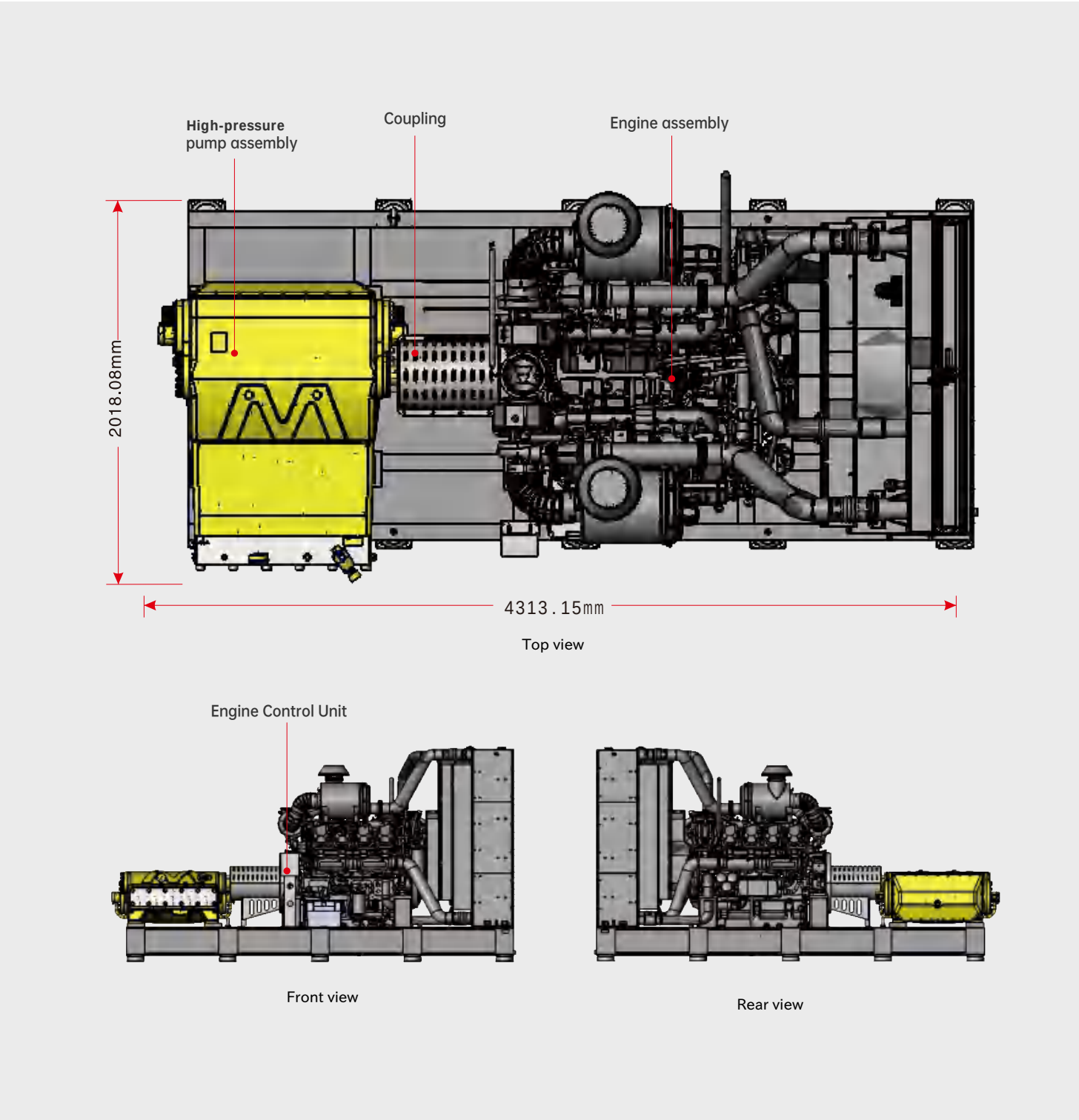
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:3.636	Maximum speed	Model	gal	L
750	550		5	1650		450	85w-90	19.8	75

Actual Installation Effect



Diesel-Driven Unit Annotation



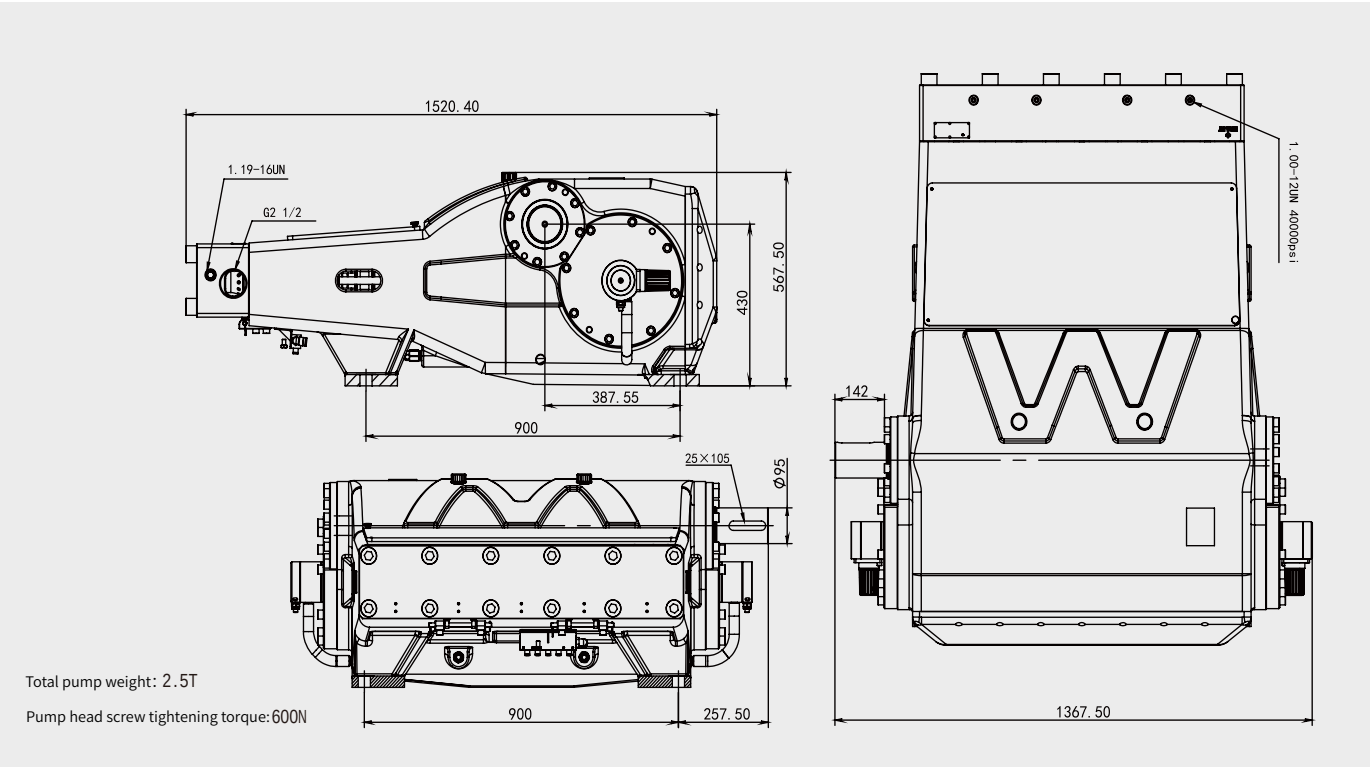
08



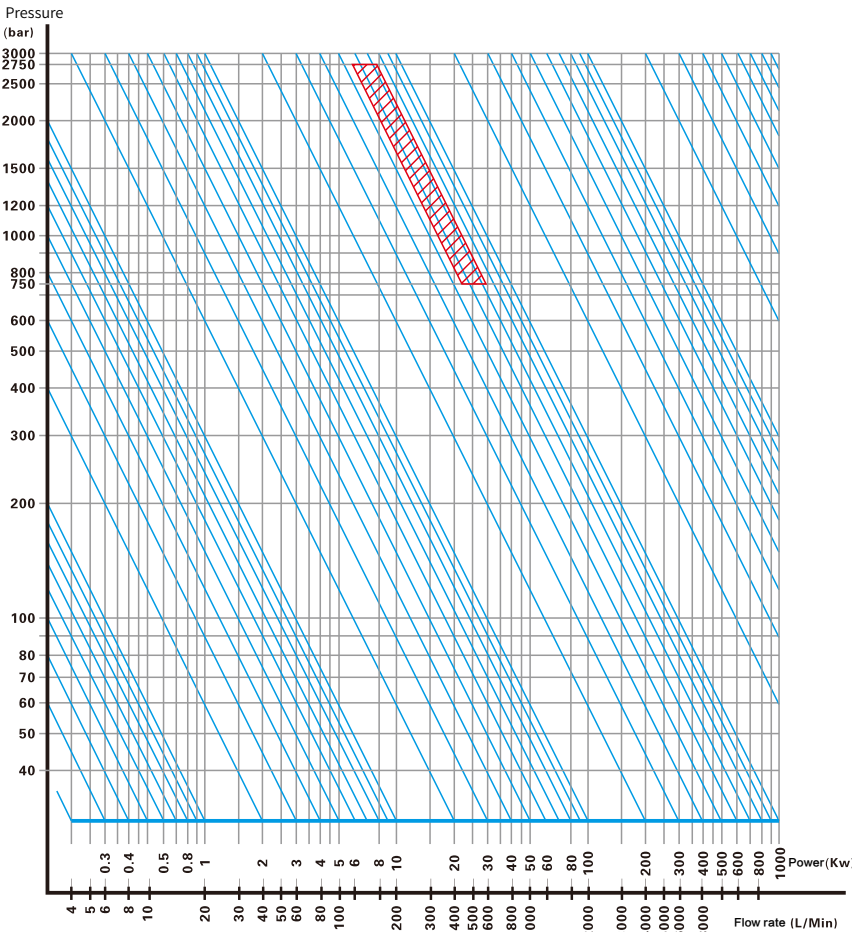
P1000 Series

The P1000 series five-cylinder piston pump can theoretically handle up to 1000 horsepower (735 kW) of input power. Compared with the P750 series, the P1000 series five-cylinder high-pressure pump has a longer stroke, increasing from 127 mm to 135 mm, allowing it to deliver a higher flow output, from a minimum pressure output of 105.93 Gpm at 10,877 Psi (401 L/Min at 750 Bar) to 27.79 Gpm at a maximum pressure of 40,000 Psi (105.2 L/Min at 2750 Bar). It is also suitable for use with professional actuators. The powerful performance combined with professional actuators can provide higher efficiency and processing results during operations.

Plunger Pump Parameters



Unit: Mm

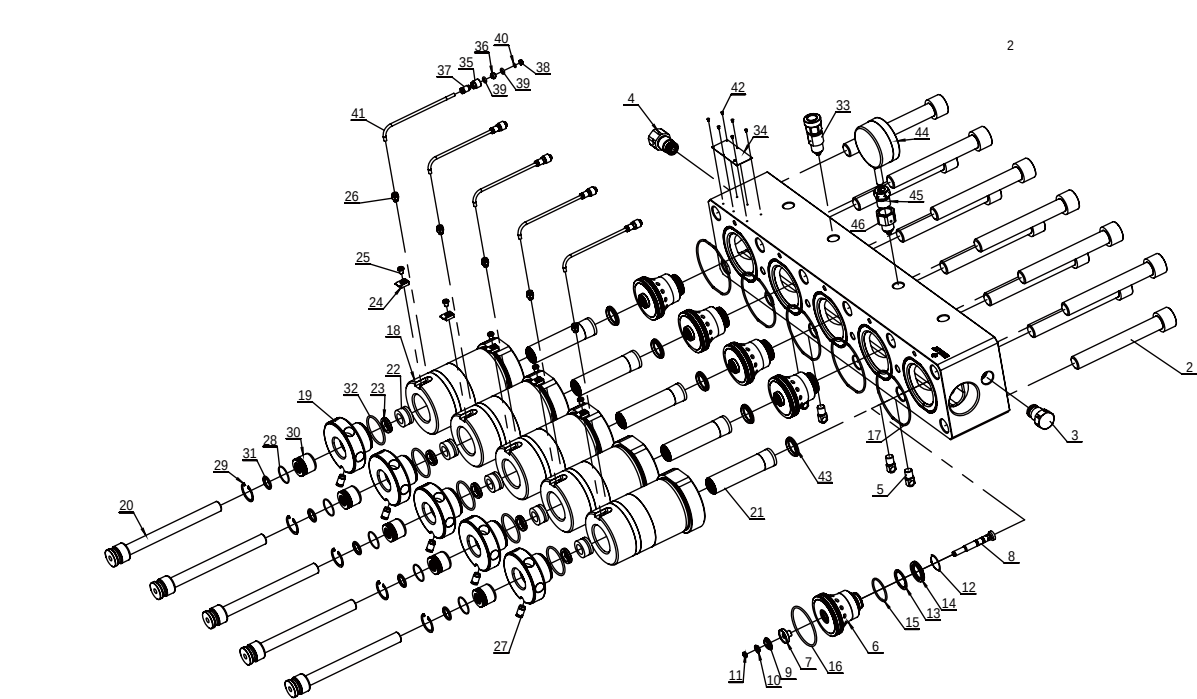


Remarks:
1Bar = 0.1Mpa
1L/Min= 0.06
1Kw = 1.36Hp

The flow value here refers to the "theoretical" flow and does not take into account the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components. Within this performance range, you can match your engine power according to your own needs. It should be noted that factors such as plunger diameter and stroke are not considered here, so the flow will be larger than the actual flow.

 Performance Range
 Power

Fluid End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Valve block	17	O-ring	33	Explosion-proof film holder
2	Hex Socket Cylindrical Head Screw	18	Stuffing box	34	Sign
3	Pump high-pressure end screw plug	19	Gland nut	35	Cooling water seal joint
4	Pump outlet connector	20	Plunger	36	Cooling water end face gasket
5	hinge screw	21	Plunger copper sleeve	37	Cooling water connector
6	Combination valve body	22	40K Packing	38	Sealing plug
7	Water intake valve	23	Alloy ring	39	O-ring
8	Drain valve	24	Anti-loosening pressure block	40	O-ring
9	Spring	25	Flat-head screw	41	Cooling water pipe
10	Retaining ring	26	Cooling water connector	42	Label nut
11	Locking circlip	27	Cooling water connector	43	End face seal
12	Circlip	28	O-ring	44	40K Pressure gauge
13	Washer	29	Elastic retaining ring	45	Seismic bolt
14	Polyurethane Oil Seal	30	Low-pressure return water sealing seat	46	Connector
15	O-ring	31	Shaft seal		
16	O-ring	32	O-ring		

Fluid End Parameters

Plunger Pump Model	Plunger Model Size		Flow rate at a specific rotational speed		Rated Working Pressure
	Plunger Model	Diameter	Stroke	400 R P M/Min 450 R P M/Min	
		mm	mm	L/Min	Bar
P1000-40k-9	#9	20.32	135	88 100	2750
P1000-30k-11	#11	29	135	178 200	2000
P1000-22k-12	#12	30.5	135	197 222	1500
P1000-15k-15	#15	40	135	340 382	1000

1Bar = 0.1Mpa = 14.5Psi

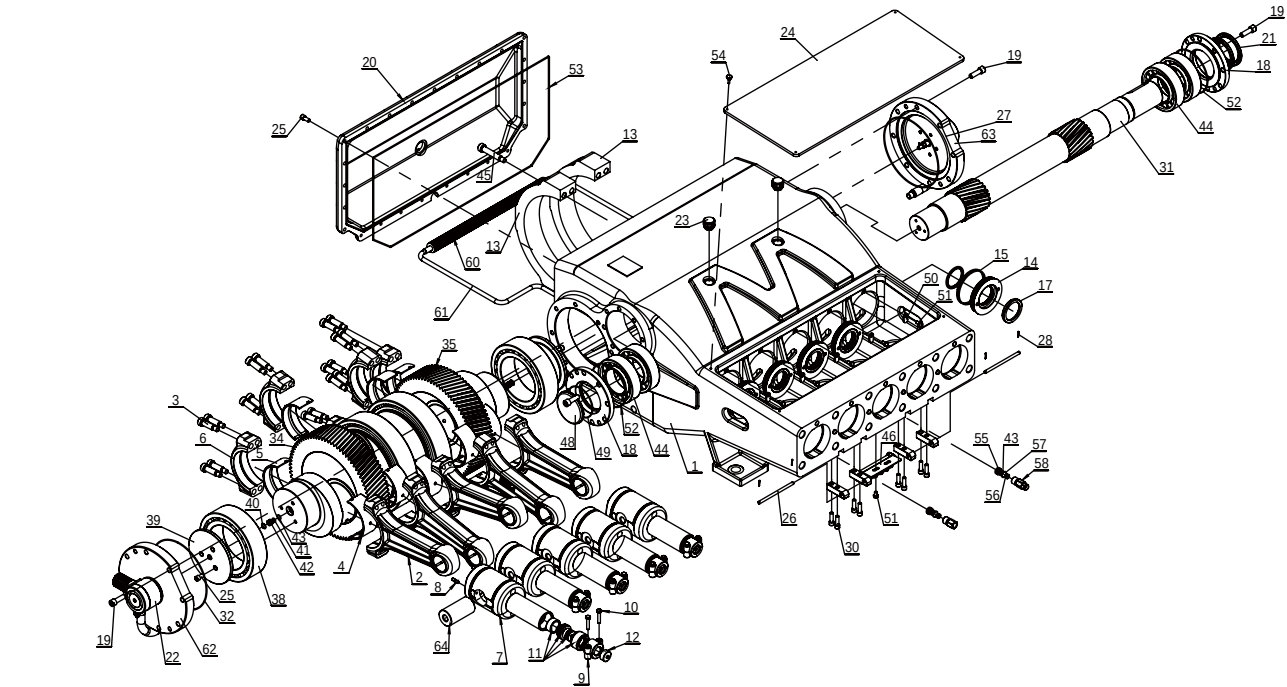
1L/Min= 0.06mm³/H = 0.264Gpm

1Kw = 1.36Hp

The flow value here refers to the 'theoretical' flow, without considering the efficiency reduction caused by the compressibility of water and the expansion of pressure-bearing components.

Here we only illustrate the conventional plunger matching data for this high-pressure pump. Within this range, you can also customize the required plunger parameters to meet your actual usage needs.

Power End Component Details



Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Pump casing	23	Vent cap	45	Tighten screws
2	Connecting rod	24	Cover plate	46	Cooling Water Recovery Seat
3	Tighten screws	25	Screw	47	Pump head locating pin
4	Connecting rod bearing	26	Hinge pin	48	End cap oil plug
5	Connecting rod bearing	27	Gear pump	49	O-ring
6	Connecting rod cap	28	Cotter pin	50	Sealing Plate Press Block
7	Crosshead	29	Hinge base	51	Hex head bolt
8	Set screw	30	Screw	52	O-ring
9	Plunger Joint	31	Input shaft	53	Aluminum rear cover sealing strip
10	Hex head bolt	32	O-ring	54	Hand-tighten screws
11	Balancing component	33	Crankshaft	55	Water-cooled pipe copper gasket
12	Connecting pad	34	Left-hand helical gear	56	Oiler
13	Bearing gland	35	Right-hand helical gear	57	O-ring
14	Sealing plate	36	Bearing	58	Pump cooling water connector
15	O-ring	37	Axle clamp	59	O-ring
16	Oil baffle seal	38	Bearing	60	Spiral heat dissipation tube
17	Oil seal	39	Crankshaft cover plate	61	Cooling copper tube
18	Input shaft end cover	40	Bore with elastic retaining ring	62	Crankshaft cover
19	Screw	41	O-ring	63	Crankshaft Cover
20	Rear cover	42	Crankshaft oil pump connection seal	64	Cross pin
21	Oil seal	43	O-ring		
22	Gear pump	44	Bearing		

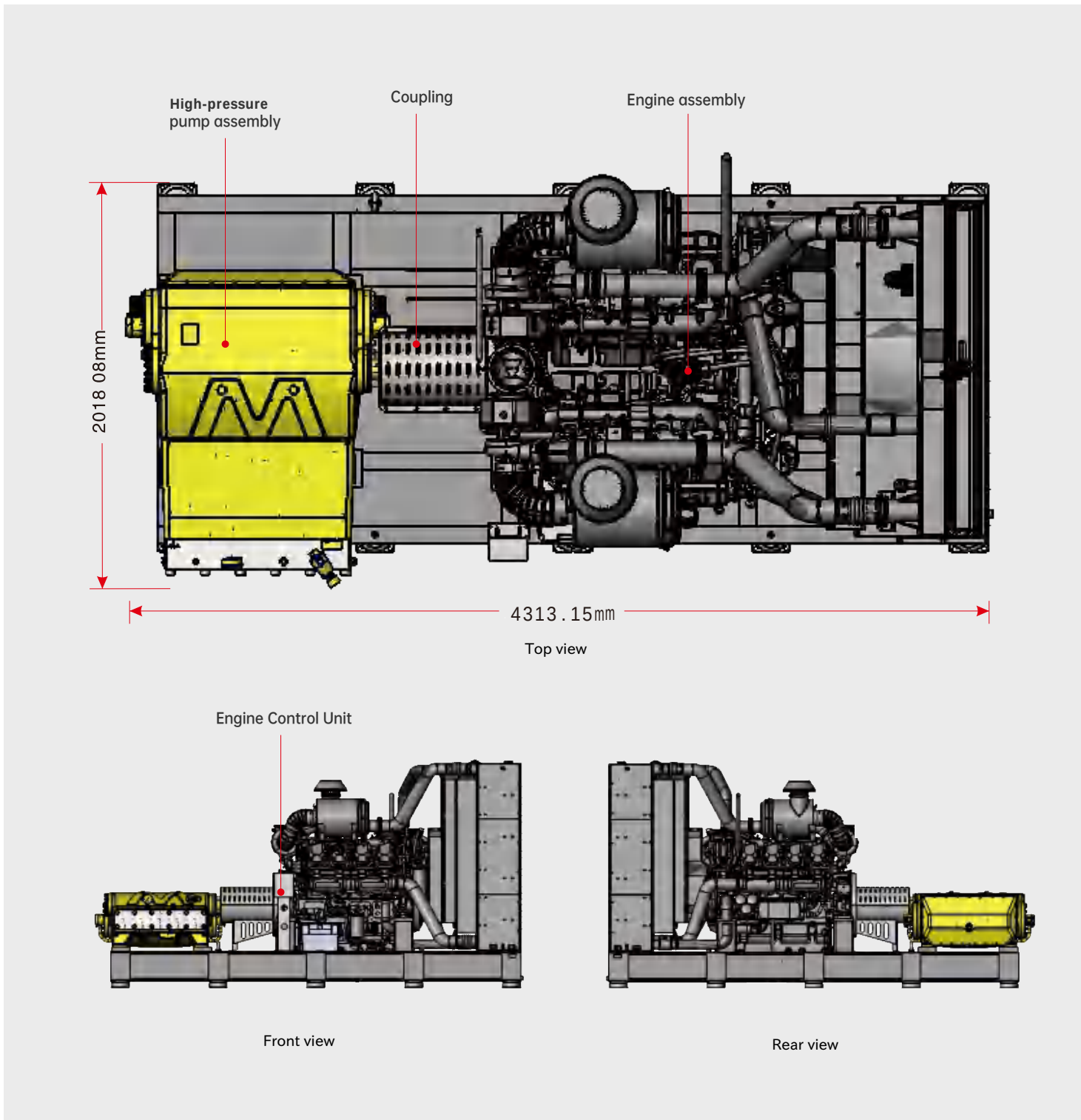
Power End Parameters

Maximum input power		Connection method	Plunger	Input speed	Reduction ratio	Pump speed	Gear oil	Gear oil capacity	
Horsepower(Hp)	Power(Kw)	Coupling	Quantity	RPM	1:3.636	Maximum speed	Model	gal	L
1000	735		5	1650		450	85w-90	19.8	75

Actual Installation Effect



Diesel-Driven Unit Annotation



CLEANING ROBOT SERIES

We offer one-stop cleaning solutions via a full lineup of intelligent cleaning robots.

Our portfolio includes compact portable, medium high-efficiency and heavy-duty large models with complete specifications, perfectly matching cleaning requirements of different areas and working conditions.

Integrated with intelligent navigation, automatic obstacle avoidance, and all-in-one washing, sweeping, suction and mopping functions, the robots are easy to operate and highly adaptable, capable of handling complex sites and stubborn stains effortlessly.

Built with industrial-grade materials and precision craftsmanship, the machines feature rigid structure, stable operation, outstanding durability and low failure rate, effectively cutting operation and maintenance costs.

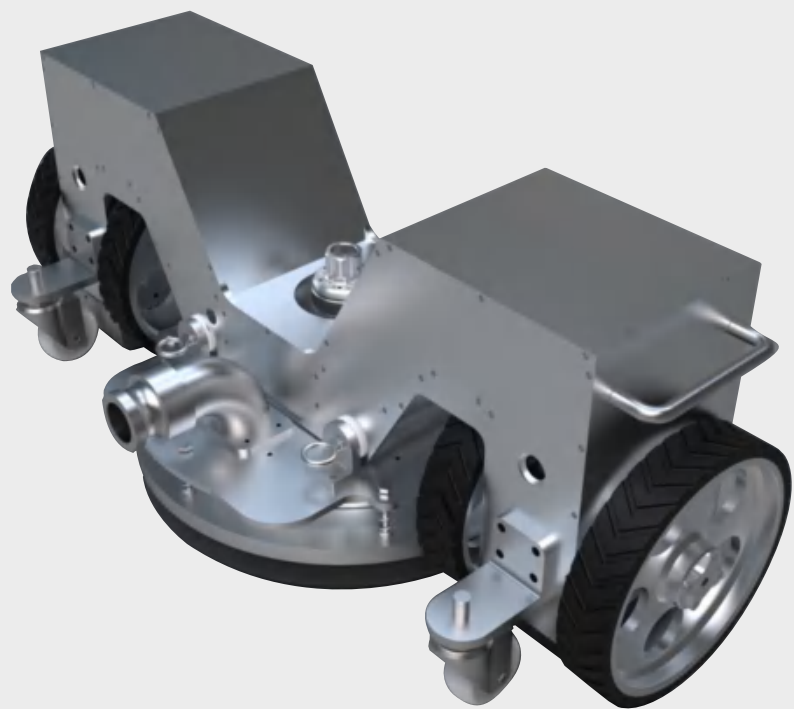
Powerful performance and optimized path planning deliver superior cleaning efficiency, which significantly reduces manual cleaning effort, saving both time and labor

Widely applied in industrial workshops, warehousing & logistics, energy and chemical industries, rail transit, commercial buildings, municipal sanitation and photovoltaic panel cleaning.

Customized services are available: functions, dimensions and configurations can be tailored to site layout, cleaning standards and actual operation needs.

With full model coverage, reliable quality, high efficiency and customizability, we help you reduce costs, boost efficiency and maintain a hygienic environment.

01 MJ-330C Climbing Robot



Product Features

Fixed Wall-Climbing Painting Robot is an automated device mainly used for painting the surfaces of large steel structures. Combining fixed painting technology, magnetic adhesion and wall-climbing robot technology, it enables efficient and environmentally friendly painting operations.

Technical Parameters

Operation Type	Movable
Nozzle Type	Circular Water Jet Nozzle
Weight	5300kg
Maximum Flow	45L/min
Drive	Electric
Maximum Pressure	2800Pa
Specification	1200*330*350mm

02 Disc-type Wall-climbing Rust Removal Robot (Dual-use for Above and Under Water)



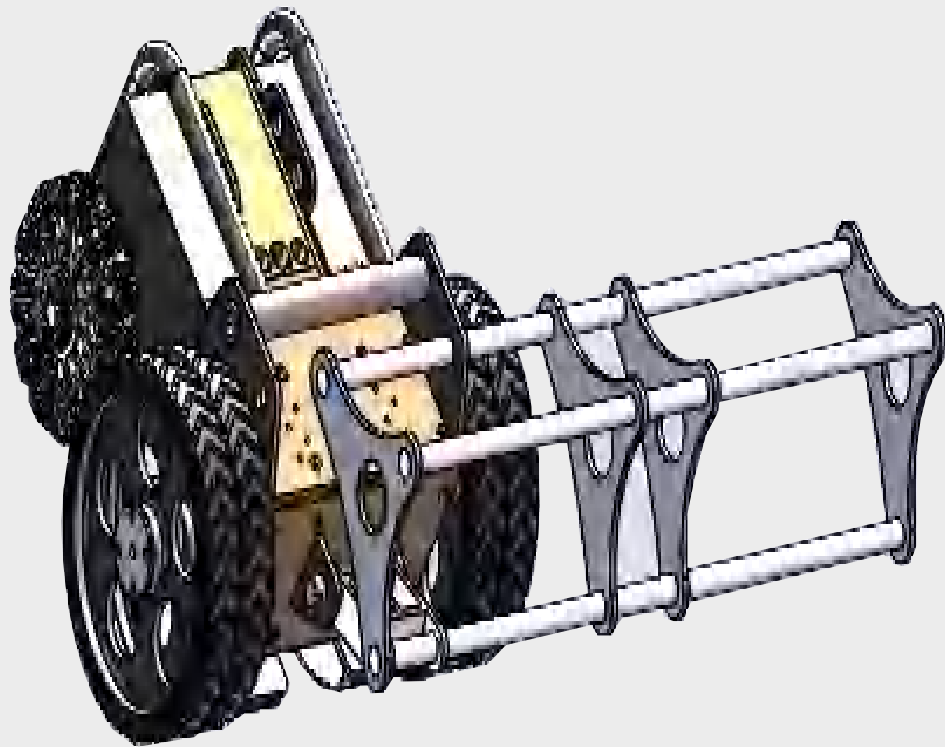
Product Features

The rust removal robot is an automated unit specially designed for surface derusting of large steel structures such as ships. It integrates ultra-high pressure water jet technology, magnetic adhesion and wall-climbing robot technology to achieve high-efficiency and eco-friendly derusting operations. Equipped with vacuum recovery technology, it realizes wastewater recycling, reduces the discharge of wastewater containing paint and rust residues, and fulfills environmental protection requirements.

Technical Parameters

Dimensions	460*506*352mm
Weight	80KG
Cleaning Width	330 mm
Rated Power	400W*2
Maximum Load	100Kg
Maximum Running Speed	0-11M/Min
Rust Removal Efficiency	30-50m²/h
Maximum Working Flow	45L/Min
Working Voltage	48V
Protection Grade	IP55
Travel Mode	Dual-wheel independent drive
Control Mode	Remote control
Remote Control Distance (Open Area Without Obstacles)	500m

03 Fixed Painting Robot



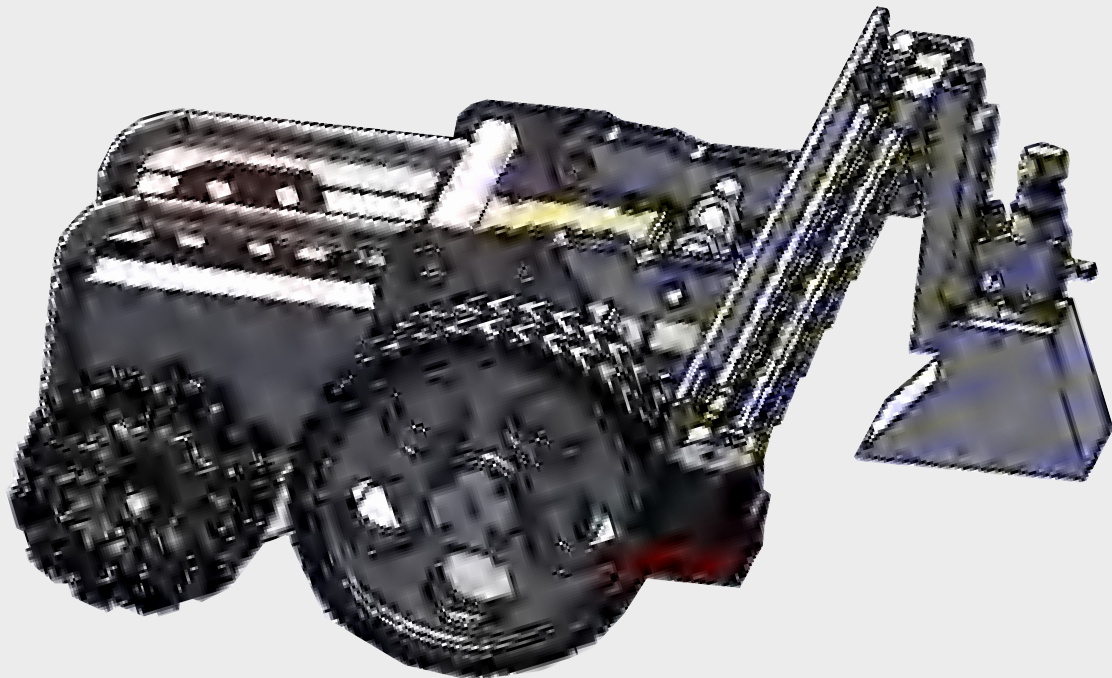
Product Features

The fixed wall-climbing painting robot is a type of automated equipment, mainly used for painting operations on the surfaces of large steel structures. Integrating fixed painting technology, magnetic adhesion technology and wall-climbing robot technology, it enables efficient and environmentally friendly painting work.

Technical Parameters

Weight	80KG
Rated Power	400W
Maximum Load	100KG
Maximum Flow	45L/min
Maximum Running Speed	0-11M/Min
Maximum Pressure	2800Pa
Specifications	450*510*320mm

04 Reciprocating Spray Painting Robot



Product Features

Driven wall-climbing painting robots are also mainly used for painting on the surfaces of large steel structures. This type of robot integrates transverse mobile painting technology, magnetic adhesion technology and wall-climbing robot technology to realize efficient reciprocating and environmentally friendly painting operations.

Technical Parameters

Weight	80KG
Cleaning Width	330 mm
Rated Power	400W*2
Maximum Load	100Kg
Maximum Running Speed	0-11M/Min
Rust Removal Efficiency	30-50m²/h
Maximum Working Flow	45L/Min
Working Voltage	48V
Protection Grade	IP55
Walking Mode	Two-wheel Independent Drive
Control Mode	Remote control
Remote Control Distance (Open Obstacle-Free Space)	500m

05

Swing-Arm Sandblast Wall-Climbing Robot



Product Features

Fixed Spray Wall-Climbing Robot is mainly used for sandblasting on the surface of large steel structures. The robot integrates swing motor driven swing arm for fixed-direction rotary sandblasting, magnetic adhesion and wall-climbing robot technology. Equipped with a sand recycling system, it realizes recycled utilization, efficient reciprocation and environmentally friendly sandblasting operation.

Technical Parameters

Body Weight	80KG
Load Weight	150KG
Maximum Speed	20m/min
Working Width	1700
Maximum Swing Rod Angle	±50°

06

Hull & Cargo Hold Wall-Climbing Cleaning Robot



Product Features

Mainly used for cleaning the surface of steel structures inside ships. This robot integrates rotating nozzle high-pressure water flushing, magnetic adhesion and wall-climbing robot technology to achieve fast, efficient and environmentally friendly cleaning operations.

Technical Parameters

Overall Dimensions	550× 434 × 447 mm
Body Weight	60kg
Load Weight	50kg
Obstacle Crossing Capability	Discontinuous obstacle heights 15 mm
Rated Power	1500W
Power Supply Mode	AC 220V/ DC 48V
Protection Grade	IP68
Working Temperature	0~55°C(Ambient temperature)
Remote Control Distance	80m
Working Pressure	500 bar
Working Flow	30 L/min

07

Short-Reach Robot



Product Features

This track-driven, fully automatic short-reach robot is a dust-free and environmentally friendly semi-automatic water cleaning vehicle, with its high-pressure pump unit capable of independent external connection. It is applied to the surface cleaning of buildings and ship hulls. The working orientation of the cleaning disc can be easily adjusted via remote control. Equipped with an adjustable chassis and track extension structure, the robot integrates versatility and compact design, delivering an exceptional working range and stability. Fitted with a sliding main body structure, it can adjust the overall center of gravity in real time to ensure excellent stability during overhead operation.

Technical Parameters

Operating Efficiency	30~60m²/h
Operation Quality	Sa2.5
Waste Recovery Rate	≥90%
Ultra-high Water Pressure	≤280Mpa
Maximum Travel Speed	2.0km/h
Cleaning Disc Rotation Angle	+180°
Maximum Working Angle	58°
Engine	Diesel-40KW
Control Voltage	12V DC
Driving Mode	Hydraulic Drive
Overall Weight	3000kg

08

Large-Reach Robot



Product Features

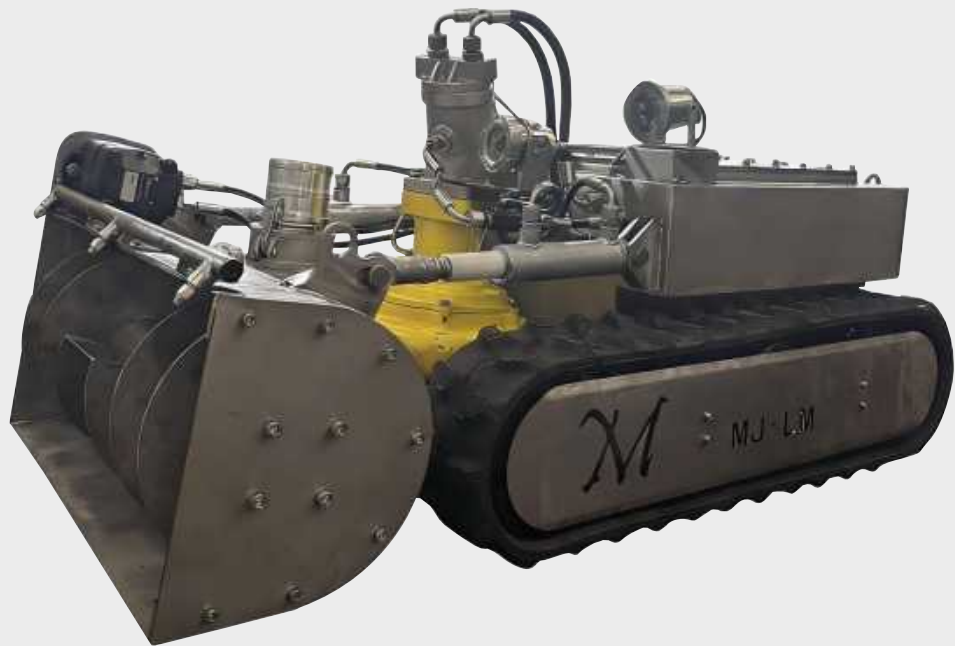
The large-reach robot is a fully dust-free and eco-friendly semi-automatic water cleaning vehicle, with the high-pressure pump unit supportable for independent external connection. Its 360° rotatable and adjustable wheels enable flexible operation and stable movement on rugged roads. Adopting a direct vacuum system, it can remove rust and paint in an environmentally friendly manner while collecting waste and wastewater. Designed with a multifunctional telescopic boom, the surface cleaner is capable of operating on flat or circular surfaces on the ground and overhead positions.

Technical Parameters

Operating Efficiency	30~60m²/h
Operation Quality	Sa2.5
Waste Recovery Rate	≥90%
Ultra-high Water Pressure	≤280Mpa
Maximum Travel Speed	2.0km/h
Cleaning Disc Rotation Angle	+180°
Maximum Working Angle	58°
Engine	Diesel-40KW
Control Voltage	12V DC
Driving Mode	Hydraulic Drive
Overall Weight	3000kg

09

DRO-200L Dredging robot



Product Features

The machine adopts a robust integral structure and premium wear-resistant, anti-corrosion materials. Precision-built for reliable performance, it runs steadily in silt, sand, sewage and other harsh environments with a long service life.

It features high dredging efficiency, strong power and smooth sludge discharge. It quickly removes silt, debris and sediment to improve work efficiency, shorten construction time and reduce the risk of manual downhole operation. With flexible control, excellent trafficability, safety and environmental protection, it is an efficient and intelligent dredging equipment for urban pipe network maintenance, water conservancy dredging and environmental governance.

Technical Parameters

Drive Mode	Hydraulic Drive
Dimension	1500*750*650
Overall Weight	390kg
Maximum Traveling Speed	30m/min
Maximum Traction Force	200kg
Gradeability	50°
Maximum Hydraulic Pressure	16Mpa
Slurry Pump Head	45m
Slurry Pump Flow Rate	200 m³/h
Number of nozzles	3
Hydraulic Drive Motor Power	30kw
Hydraulic Oil Tank Size	200L

10

MJ-500 Dock Bottom Cleaning Robot



Product Features

The MJ-500 Dock Bottom Vehicle features a compact structure integrated with range-extended power, electric swing arm operation, electric lifting, cartridge-type rust removal head, remote control, operating speed adjustment and other functions. It boasts distinct advantages over existing underwater rust removal actuators for dock bottoms.

It can be fitted with rust removal discs of various widths. When equipped with a high-pressure large-flow pump set and large rust removal disc, it delivers operational efficiency comparable to large-scale equipment. Its wide adaptability meets most width requirements for dock bottom operations. The reserved operating clearance is merely 3–6 cm (normally equal to the width of the water-sealing brush; slightly wider clearance will be reserved when obstacles such as dock piers are encountered).

Technical Parameters

Dimension	280*81.5*140cm
Weight	650kg
Generating Power	≥4kw/h
Pure Electric Endurance	4h
Maximum Load Capacity	200kg
Speed	0-12m/min
Speed Adjustment Mode	Two-speed Stepless Speed Regulation
Ingress Protection Rating	IP55
Control Mode	Remote control operation
Remote Control Distance	100m
One-way Cleaning Width	475mm
Height Range	1.4m-1.9m
Maximum Pressure	3000Pa
Maximum Wading Depth	100mm

11

MJ-HD100 HydroDdemolition Robot



Product Features

Full model range adapts to road demolition for municipal roads, expressways, old urban reconstruction and bridge maintenance, fitting diverse construction scenarios and working intensities. Made of high-strength wear-resistant materials with precise workmanship, the machine is sturdy, impact-resistant, stable and reliable under long-term heavy load. It features strong power, great breaking force and high efficiency, quickly breaking asphalt, concrete and hard roadbeds to shorten construction time. Optimized heat dissipation avoids overheating and performance drop, supporting long-time continuous operation.

Technical Parameters

Body Length	2725mm
Total Weight	2500kg
Body Width	2025mm
Body Height	1600mm
Working Height	3000mm
Working Width	2000mm
Diesel Tank Capacity	25L
Max Crawler Travel Speed	15m/min
Crawler Extension Stroke	600mm

12

Underwater Pipeline Breaker



Product Features

It covers operational demands of multiple scenarios including shallow sea, deep sea and offshore engineering. Featuring diverse specifications and power configurations, it can adapt to various working platforms and demolition intensities, delivering one-stop solutions for underwater crushing, shearing, obstacle clearing, dismantling and other working conditions. The complete machine adopts sealed and pressure-resistant design to adapt to high-pressure deepwater environments. Equipped with professional anti-corrosion coating and seawater corrosion resistance technology, it operates stably under long-term salt spray and sediment conditions with reliable quality and extended service life. The hydraulic system provides abundant power with steady output of impact and shearing force, enabling high crushing efficiency and fast operation rhythm, which greatly shortens the underwater construction cycle. Adopting precise force control design, it efficiently demolishes hard targets such as steel bars, rocks and steel structures and reduces repeated operations.

13

MJ-CP375 Hose Crimping Machine



Product Features

- Contraction motion relies on power supplied by the hydraulic power unit, delivering high and stable working efficiency.
- An additional quick oil drain circuit is added to the dual hydraulic circuit to enable faster return stroke, adjustable speed, lower noise and reduced system pressure.
- The equipment is easy to inspect, maintain and replace parts.
- The clamping mold and mold base adopt non-cumulative error processing technology, ensuring uniform spacing of product clamping lines after clamping.

Technical Parameters

Snap-fit Pressure	375T
Six-layer Steel Wire	2"1/2
Industrial Hose	4"
Maximum Clamping Size	159MM(6.260in)
Compressions Per Hour	2400*
Mold Opening Stroke	+70MM(+2.756")
Wide Voltage	375V~420V, 50Hz, 3-Phase
Motor Power	5.5KW
Dimensions	1000×1160×1616MM
Net Weight (Oil Excluded)	21700KG
Hydraulic Oil	185 L

14

MJ-TS500 High Pressure Pipe Pressure Test Bench



Product Features

- The forward-and-backward movement of the pressing-table piston, as well as the opening and closing motions of the dies, are driven by compressed air. It features smooth movement and fast return stroke, and avoids the locking issue caused by spring-return failure that prevents the dies from opening. Furthermore, the through-design of the front-to-rear cylinder locking system facilitates the crimping of various special-shaped elbows.

Technical Parameters

Drive Mode	Compressed Air
Drive Air Supply Requirement	0.6-1 MPa
Air Consumption	>0.5m³/min
Working Medium	Water
Pressure Display Accuracy	0.01 MPa
Test Pressure Range	0-450 MPa
Test Circuit	1-channel
Connection Type	Threaded connection (custom thread specifications available)
Control Mode	Manual / Automatic
Weight	375KG
Dimensions	2105×1005×1355.5 mm

STANDARD ACCESSORIES

Provide standard and non-standard customized accessories

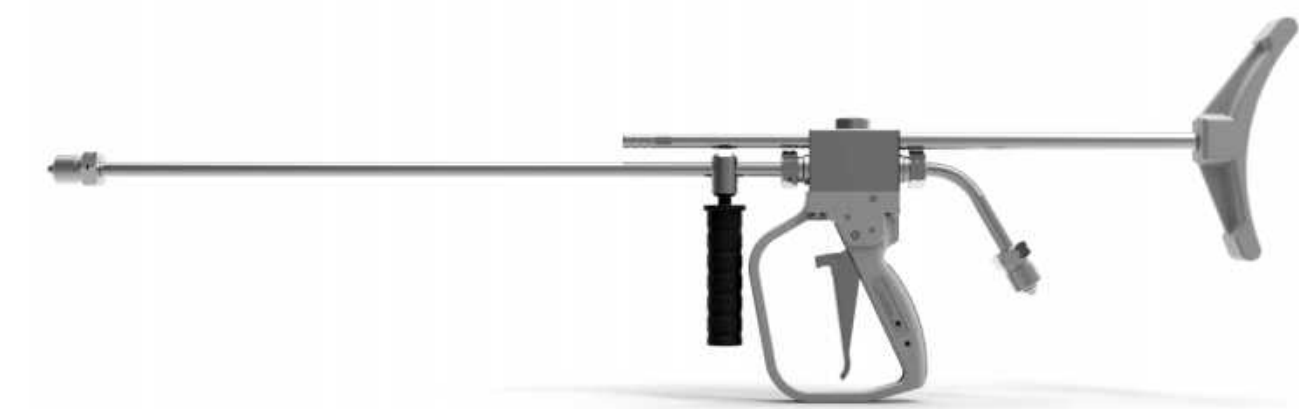
Megajet provides professional one-stop standard auxiliary accessories, covering multiple series and commonly used models in various specifications, fully meeting the supporting needs of different equipment and operating conditions. The products are made of high-quality materials and crafted with precise workmanship, featuring stable structures, reliable performance, and long-lasting durability, effectively reducing wear and replacement frequency.

Easy to install, highly compatible, and versatile, it can be widely used in various work scenarios such as industrial production, equipment operation and maintenance, engineering assembly, and automation support, significantly improving operational efficiency and providing a solid guarantee for stable operation.

With a complete range of models, excellent product quality, and efficient practical performance, it has become the preferred supporting solution for various operation scenarios.

01

High-pressure Overflow Gun



Product Introduction

The high-pressure overflow gun is a key device used to control ultra-high-pressure water jet systems and is typically used in industrial applications such as cleaning, cutting, and removing surface dirt. The ultra-high-pressure overflow gun usually consists of a handle, a valve core, a nozzle, and connecting pipes. The handle is used for operation, the valve core is used to control the opening and closing of the water flow, and the nozzle is used to generate the ultra-high-pressure water jet.

Product Features

Convenience

The valve core adopts a cartridge valve design, making maintenance more convenient and quick.

Precise control

The valve design can precisely control the opening and closing of water flow, and the intensity and direction of the water flow can be adjusted as needed.

Durability

The gun body is made of corrosion-resistant and wear-resistant materials, allowing it to operate stably for long periods in harsh working environments.

Safety

The design takes safety factors into account, such as safety devices to prevent accidental startup, protective covers, etc., reducing the risk of injury to operators.

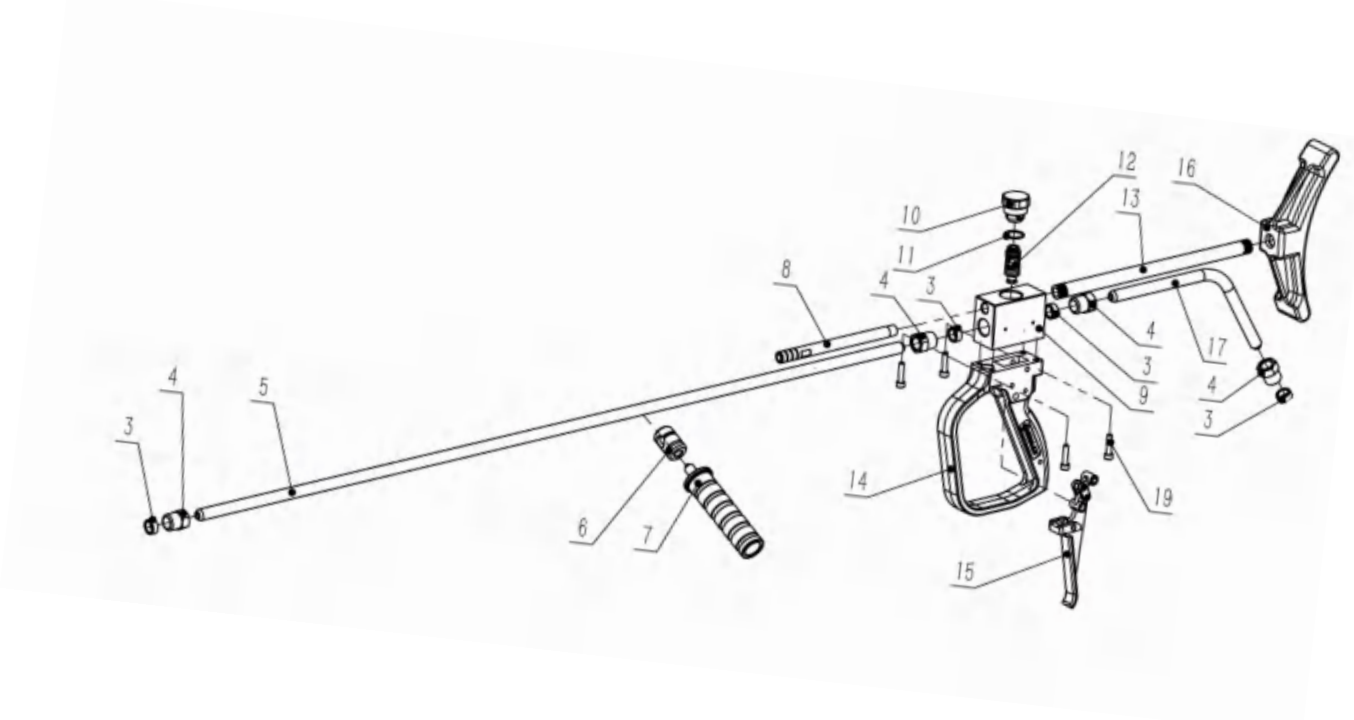
Versatility

It can be equipped with different types of nozzles to meet various cleaning and cutting needs, and has strong applicability.

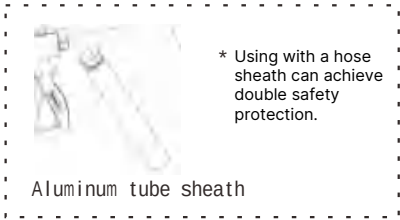
Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width Mm	Weight Kg	Inlet Thread	Outlet Thread	Expansion Pack
40K Overflow Gun	2800	45	1127*350	5	1 1/8UNF	1 1/8UNF	Expansion Pack Aluminum tube sheath
22K Overflow Gun	1500	60	1127*350	5	13/16UNF	13/16UNF	

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Retaining ring	5	Tightening handle	9	O-ring	13	Trigger kit
2	Retaining nut	6	Overflow pipe	10	Valve core kit	14	Gun stock
3	Front gun barrel	7	Warlord faction	11	Buttstock Support Rod	15	Rear gun barrel
4	Gun Rod Fastening Sleeve	8	Valve core fixed seat	12	Gun handle	19	Hex socket screw



* Using with a hose sheath can achieve double safety protection.

02

Underwater Balanced Gun



Product Introduction

The underwater balanced gun is a spray gun specially designed for underwater operations used in ultra-high-pressure water jet systems. It reduces or eliminates recoil during use by setting a nozzle at the rear with the same aperture as the front nozzle, thereby improving the comfort and safety of the operator.

Product Features

Recoilless

The design aims to reduce or eliminate the recoil caused by water flow, allowing the operator to use it more comfortably.

Safety

Reducing the recoil of the spray gun means a safer operating environment and can reduce the risk of accidental injuries.

Convenience

Adopting a cartridge valve design makes maintenance more convenient and quicker. The gun barrel uses a detachable design, making maintenance more convenient.

Efficiency

The recoilless design not only improves operator comfort, but also enhances work efficiency, reduces fatigue, and thereby increases work output.

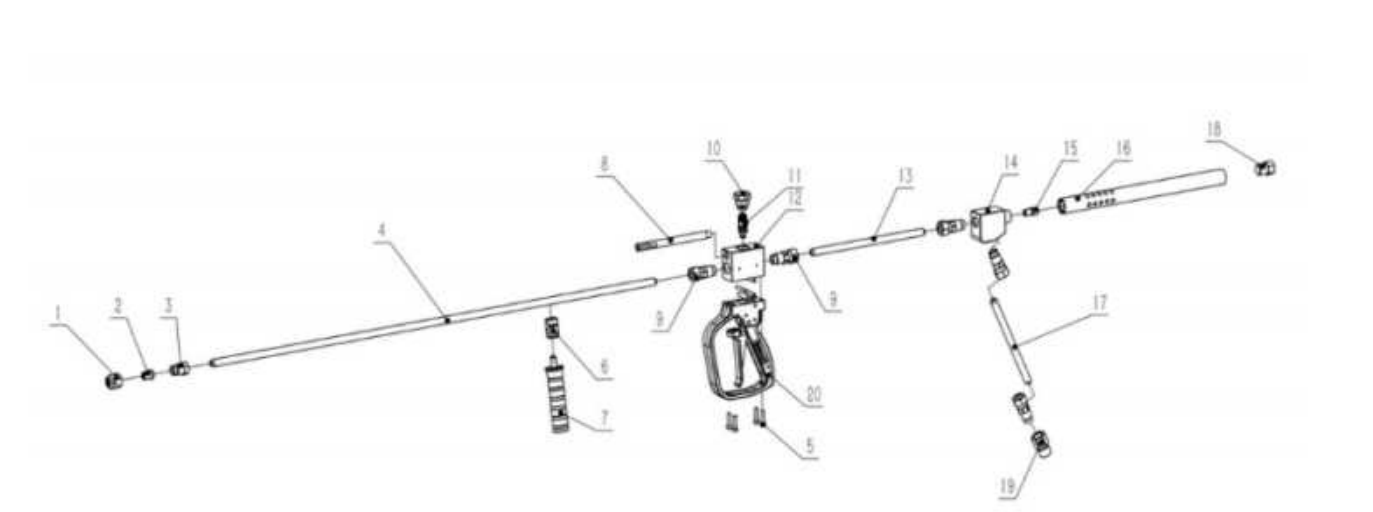
Versatility

Industry-standard inlet and outlet thread specifications make it easier to connect the spray gun with other accessories and high-pressure pipe/lines.

Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width Mm	Weight Kg	Inlet Thread	Outlet Thread	Expansion Pack
22K Recoilless High-Pressure Overflow Gun	1500Bar	120	1895*260	6.6	13/16UNF	13/16UNF	Expansion Pack Aluminum tube sheath

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Nozzle sleeve	5	Hex socket screw 304	9	Collet screw sleeve	13	Front gun barrel
2	Alloy nozzle	6	Alloy nozzle	10	Valve core fixed seat	14	Tee block
3	20K Retaining nut Set	7	20K Retaining nut Set	11	Valve core kit	15	Alloy nozzle
4	Front gun barrel	8	Front gun barrel	12	Warlord faction	16	Jet diffusion tube

03

Bypass Pressure Regulating Valve



Product Introduction

Adjust the opening and closing of the valve core by manually turning the adjustment knob, thereby controlling the pressure in the pipeline system. Diesel-driven equipment uses a bypass pressure regulating valve to prevent engine failure when the plunger pump operates at low pressure. Electric-driven equipment uses a bypass valve to compensate for factors such as the non-adjustable speed of the motor.

Product Features

Easy to operate

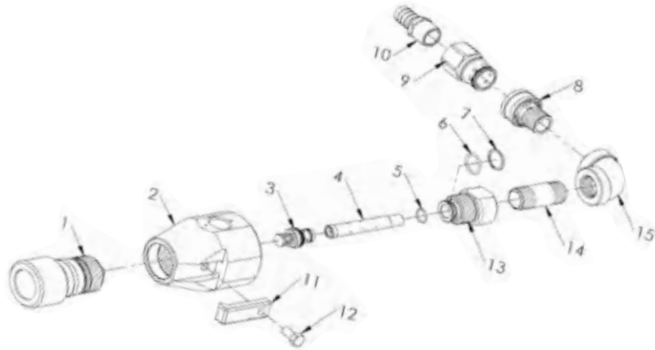
Reduce impact force

Reliability

Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width x Height Mm	Weight Kg	Inlet Thread	Outlet Thread	Expansion Pack
40K Bypass Pressure Regulating Valve	2800	60	325*84*80	5	1UNF	1UNF	3/4NPT
22K Bypass Pressure Regulating Valve	1500	90	325*84*80	5	20k port	20k port	1/2NPT

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Adjustment knob	6	O-ring	11	Fixator	16	40K External threaded connector
2	Valve body	7	Support ring	12	Bolt	17	Seal
3	Cartridge valve spool	8	Adapter	13	Water outlet connector		
4	Guide rod	9	Adapter	14	Adapter		
5	O-ring (External thread)	10	Pipe connection	15	Elbow Pipe Joint		

04

Pneumatic Pressure Regulating Valve



Product Introduction

A pneumatic pressure regulating valve is a device specifically used to control and adjust the pressure in ultra-high-pressure water systems. It uses air pressure as a power source and is a valve device used to regulate the fluid pressure in the system. It plays a crucial role in ensuring the safety, stability, and effectiveness of the system.

Product Features

Precision adjustment

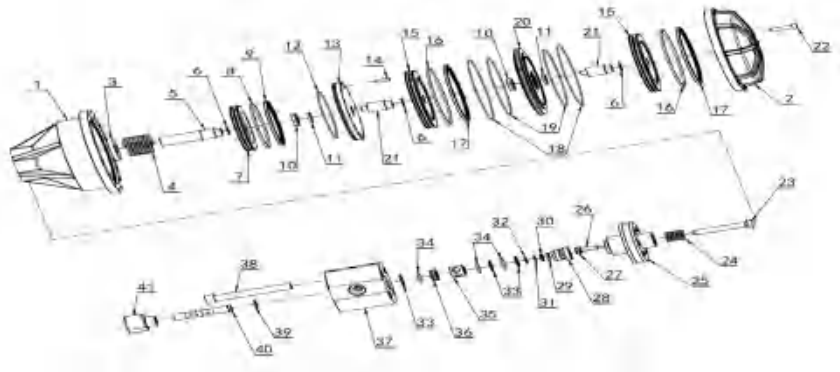
Quick response

Multifunctional

Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width x Height Mm	Weight Kg	Inlet Thread	Outlet Thread	Air intake port	Air source Mpa
22K Pneumatic pressure regulator	1500Bar	240		26	1 1/8UNF	1 1/8UNF	2分*8	0.8

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Aluminum shell	5	Top tie rod	9	Seal ring	13	Pressure plate
2	Aluminum lid	6	O-ring	10	Seal	14	Hex socket screw
3	Nylon guide bushing	7	Small piston	11	Guide Bushing	15	Big piston
4	Spring	8	Guide ring	12	O-ring	16	Guide ring

05

Cartridge Valve Core



Product Introduction

The cartridge valve core is a key component, typically used for pipeline control and regulation in ultra-high-pressure water jet systems. Cartridge valve cores are usually designed to be removable, allowing easy installation in pipeline systems and enabling quick replacement or maintenance when needed.

Technical Specifications

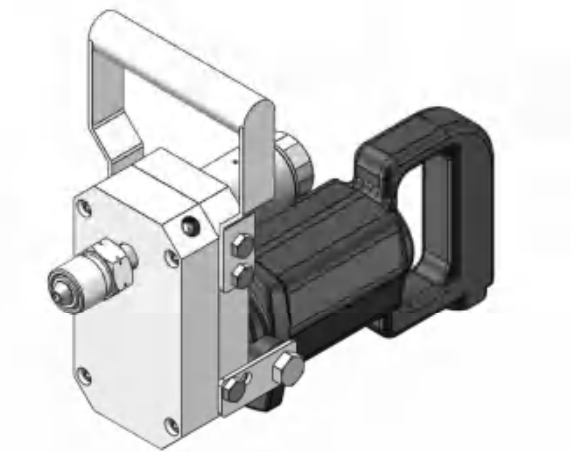
Product Name	Pressure range	Flow range	Weight
40K Cartridge valve spool	2800Bar		
22K Cartridge valve spool	1400Bar		

Accessory Details

Serial Number	Description
1	O-ring
2	Base
3	Rupture disc

06

Pneumatic Rotary Gun



Product Introduction

The pneumatic rotary gun provides rotational power by connecting to an external air source. The rotation of the device is controlled by a switch on the equipment, which has two settings: half-open and fully open, offering two different speeds and torques.

Product Features

Targeted

High efficiency

Versatility

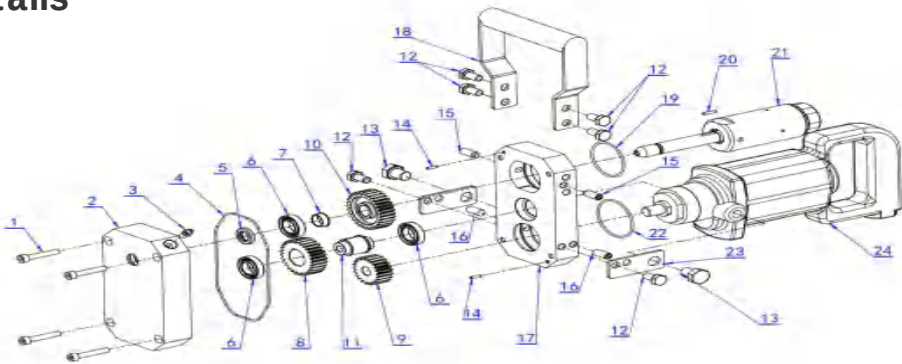
Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width x Height Mm	Weight Kg	Inlet Thread	Outlet Thread	Air intake port	Air source Mpa
22K Pneumatic rotary gun	1500	60	340*280*188	6.6	M24*1.5	1 1/8UNF	2分*8	0.8
40K Pneumatic rotary gun	2800	45	340*280*188	6.6	1 1/8UNF内	1 1/8UNF	2分*8	0.8

Accessory Details



Rigid gun barrel made of high-strength cold-drawn stainless steel.
Can be customized to any length and connection specifications.



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Hex socket cylindrical head screw	5	Oil seal	9	23-tooth driving shaft gear	13	Hex head bolt
2	Pneumatic rotating gun front housing	6	Deep groove ball bearing	10	32 teeth	14	3mm locating pin
3	slick talker	7	Pneumatic Rotary Gun Copper Sleeve	11	Drive shaft	15	Hex Socket Set Screw with Knurled End
4	O-ring	8	30 teeth	12	Hex head bolt, full thread	16	Hex Socket Set Screw with Pointed Tip

07

Multi-gun Valve



Product Introduction

The Multi-gun valve allows a larger flow device to be divided for use by two different operators. The two operators work independently of each other without affecting each other, and during operation, the device pressure remains stable and will not be affected by one operator releasing pressure.

Product Features

Dual-channel diversion

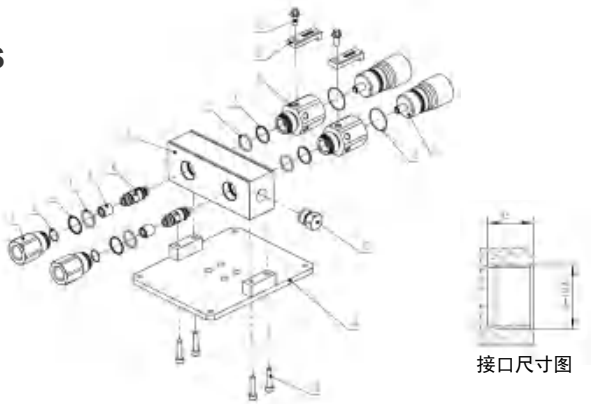
Precise control

Durability

Technical Specifications

Product Name	Maximum pressure Bar	Flow Range L/Min	Length x Width Mm	Weight Kg	Inlet Thread	Outlet Thread	Expansion Pack
22K Split gun valve	1500	120L/Min	272*203*108	15.6	20k port	20k port	20K Pressure gauge

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Export connector	5	diffusion tube	9	Limit Block	13	Thread plug
2	O-ring	6	Valve core assembly	10	Screw	14	Base
3	Support ring	7	Valve	11	Adjustment Handle	15	Hex socket screw
4	O-ring	8	Regulator connector	12	O-ring		

08

Foot Valve



Product Introduction

The foot valve can achieve high-pressure jet injection and overflow status through the operation of the foot pedal, and is generally used for pipeline cleaning. Operators control the high-pressure water spray with their feet and operate the cleaning hose with both hands, ensuring safety while providing convenience.

Product Features

Easy to operate

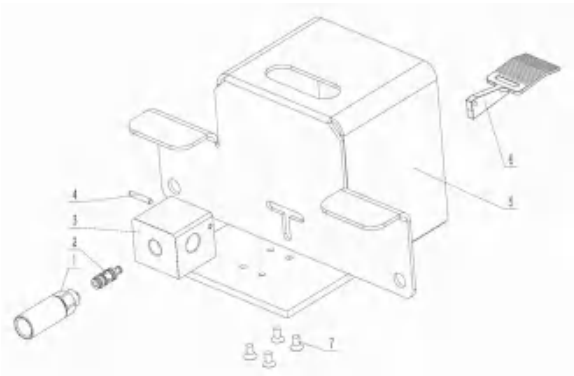
Quick response

Safety

Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Length x Width x height Mm	Weight Kg	Inlet Thread	Outlet Thread	Overflow Thread
40K Foot valve	2800	40	426*327*225	14	1UNF	1UNF	7/8-14
22K Foot valve	1500	60	223*425*234	14	20k port	20k port	7/8-14
15K Foot valve	1000	120	200*375*286	8	1/2"NPT	1/2"NPT	7/8-14

Accessory Details



Serial Number	Description	Serial Number	Description	Serial Number	Description	Serial Number	Description
1	Diffusion tube	3	Valve block	5	Housing	7	Countersunk Hex Socket Screw
2	Valve core	4	Stainless Steel Cylindrical Pin	6	Foot pedal		

09

BC Rotating Nozzle

Product Introduction

The BC rotating nozzle is favored by users among many types of rotating nozzles for its simple installation and replacement. The nozzle uses the reaction force when spraying through the nozzle to drive the rotation of the spray head, allowing it to achieve 360-degree rotation and a large-angle nozzle distribution during water spraying, covering a wider cleaning range.

Product Features

Easy to install and replace

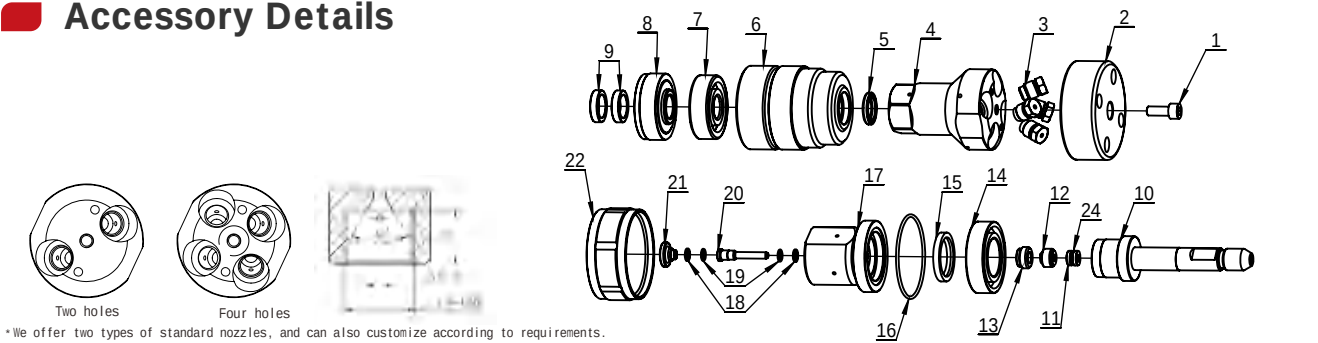
Efficient Cleaning

Durability

Technical Specifications

Product Name	Maximum Pressure Bar	Flow Range L/Min	Diameter Mm	Length Mm	Weight Kg	Inlet Thread	Nozzle Type	Spray Angle	Rotational Speed Rpm/S
22K-BC旋转枪头	1500	10-30	50	210	1.8	1-1/8	OS7	45 °	600-1800
40K-BC旋转枪头	2800	10-20	50	210	1.8	1-1/8	OS7	45 °	600-1800

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Hex socket screw	1	7	Bearing	1	13	Compression Nut	1	19	O-ring	2
2	Nozzle guard	1	8	Deceleration magnet	1	14	Bearing	1	20	Needle	1
3	Nozzle	4	9	Compression ring	2	15	Oil seal	1	21	Seals	1
4	Nozzle	1	10	Rotation axis	1	16	O-ring	1	22	Lock nut	1
5	Oil seal	1	11	Seal	1	17	Water inlet connector	1	23	Reduction copper bushing	1
6	Housing	1	12	Copper washer	1	18	Support ring	2	24	O-ring	1

10

Megajet Rotating Nozzle

Product Introduction

The Megajet rotary nozzle adopts a magnetic damping deceleration method, which reduces wear and tear on parts and components. This enables the seal assembly and other parts to enjoy a longer service life, indirectly lowering the operating cost of the nozzle.

Product Features

Magnetic Damping
Deceleration

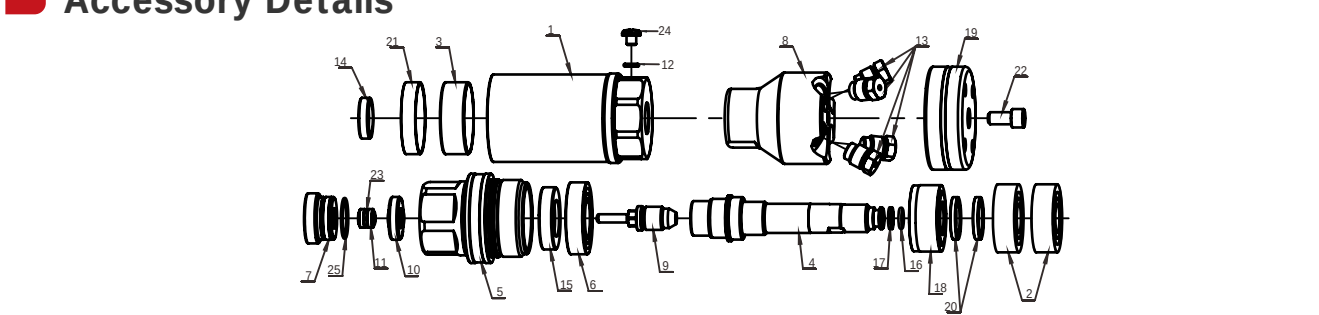
Deep cleaning

Tapered seal

Technical Specifications

Product Name	Maximum pressure Bar	Flow Range L/Min	Diameter Mm	Length Mm	Weight Kg	Inlet Thread	Nozzle Type	Spray Angle	Rotational Speed Rpm/S
22K Megajet Rotating Nozzle	1500Bar	10-30	45	185	1.55	1-1/8	OS7	45 °	600-1800
40K Megajet Rotating Nozzle	2800Bar	10-20	45	185	1.55	1-1/8	OS7	45 °	600-1800

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Solid of revolution	1	8	Nozzle	1	15	Oil seal	1	22	Hexagon socket head cap screw	1
2	Angular Contact Bearing	2	9	Shaft core	1	16	O-ring	1	23	O-ring	1
3	Reducer copper bushin	1	10	Copper sealing gasket	1	17	Sealing ring	1	24	O-ring	1
4	Rotation shaft	1	11	High-pressure rotary seal	1	18	Deceleration magnet	1	25	O-ring	1
5	Water inlet connector	1	12	Oil filler screw	1	19	Nozzle protective cover	1			
6	Bearing	1	13	OS7 Nozzle	4	20	Speed adjusting washer	2			
7	Seal sleeve	1	14	Oil seal	1	21	Bearing compression ring	1			

11

F1 Rotating Nozzle



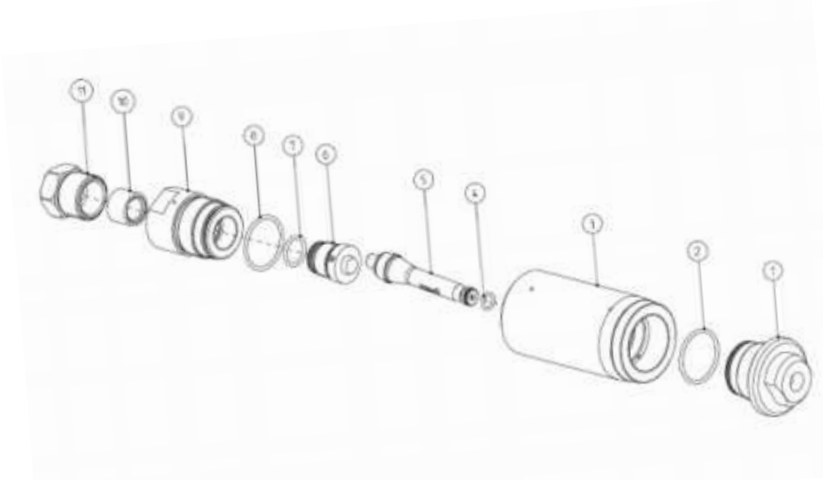
Product Introduction

The F1 rotary nozzle combines the advantages of the high efficiency of spot jet flow and the large-area output of flat jet flow. The overall design of the nozzle is compact, lightweight, durable and reliable, and it is easy to install and disassemble. It can operate at a maximum working pressure of 1500 Bar and delivers superior performance in surface treatment and cleaning applications.

Technical Specifications

Maximum Pressure Bar	Flow Range L/Min	Diameter Mm	Length Mm	Weight Kg	Water inlet thread	Rotational speed Rpm/S
1400	11-70	41	135	1.2	9/16LH	600-1000

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Front cover	1	4	O-ring	1	7	O-ring	1	10	Inlet Cover	1
2	O-ring	1	5	Type F1 Rotor Assembly	1	8	O-ring	1			
3	Nozzle	1	6	Drive tube	2	9	Inlet Cover	1			

12

F3 Rotating Nozzle



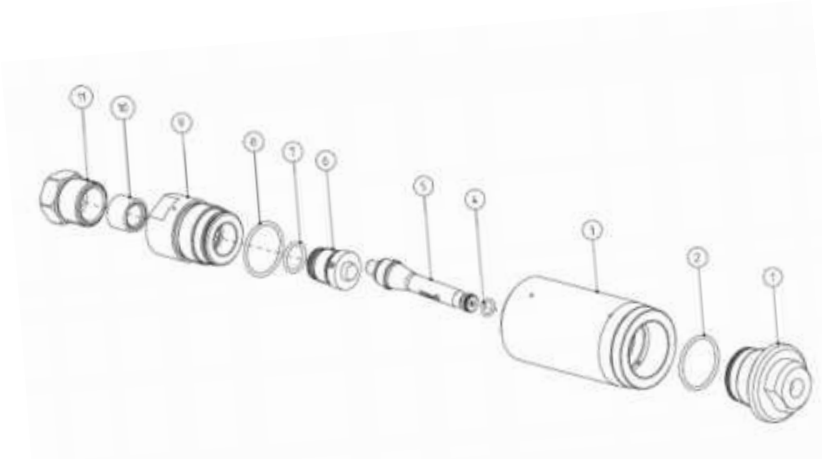
Product Introduction

The F3 rotating nozzle integrates high-efficiency point jet and wide-coverage flat jet. Compact, lightweight, sturdy and easy to assemble, it works up to 700 Bar, ensuring excellent performance for surface treatment and cleaning.

Technical Specifications

Maximum Pressure Bar	Flow Range L/Min	Diameter Mm	Length Mm	Weight Kg	Water inlet thread	Rotational speed Rpm/S
700	11-70	38	135	0.65	9/16LH	600-1000

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Front cover	1	4	O-ring	1	7	O-ring	1	10	Inlet Cover	1
2	O-ring	1	5	Type F1 Rotor Assembly	1	8	O-ring	1			
3	Nozzle	1	6	Drive tube	2	9	Inlet Cover	1			

13

Rotor



Product Introduction

As a universal rotor core for F1 and P3 type rotary nozzles, it is made of wear-resistant and corrosion-resistant materials to adapt to the harsh working conditions in high-pressure water jet applications and achieve a longer service life.

Technical Specifications

Diameter (mm)		Pressure (bar)										
Rotor	Bore diameter	L/min	200	300	400	500	600	700	800	1000	1200	1500
0.70	0.028	0.29	4.1	5.0	5.8	6.5	7.1	7.7	8.2	9.2	10.1	11.2
0.75	0.030	0.33	4.7	5.8	6.7	7.5	8.2	8.8	9.4	10.5	11.5	12.9
0.80	0.031	0.38	5.4	6.6	7.6	8.5	9.3	10.0	10.7	12.0	13.1	14.7
0.85	0.033	0.43	6.1	7.4	8.6	9.6	10.5	11.3	12.1	13.5	14.8	16.6
0.90	0.035	0.48	6.8	8.3	9.6	10.7	11.8	12.7	13.6	15.2	16.6	18.6
0.95	0.037	0.53	7.6	9.3	10.7	12.0	13.1	14.1	15.1	16.9	18.5	20.7
1.00	0.039	0.59	8.4	10.3	11.9	13.2	14.5	15.7	16.8	18.7	20.5	22.9
1.05	0.041	0.65	9.2	11.3	13.1	14.6	16.0	17.3	18.5	20.7	22.6	25.3
1.10	0.043	0.72	10.1	12.4	14.3	16.0	17.6	19.0	20.3	22.7	24.8	27.8
1.15	0.045	0.78	11.1	13.6	15.7	17.5	19.2	20.7	22.2	24.8	27.1	30.3
1.20	0.047	0.85	12.1	14.8	17.1	19.1	20.9	22.6	24.1	27.0	29.6	33.0
1.25	0.049	0.93	13.1	16.0	18.5	20.7	22.7	24.5	26.2	29.3	32.1	35.9
1.30	0.051	1.00	14.2	17.3	20.0	22.4	24.5	26.5	28.3	31.7	34.7	38.8
1.35	0.053	1.08	15.3	18.7	21.6	24.1	26.5	28.6	30.5	34.1	37.4	41.8
1.40	0.055	1.16	16.4	20.1	23.2	26.0	28.4	30.7	32.8	36.7	40.2	45.0
1.45	0.057	1.25	17.6	21.6	24.9	27.9	30.5	33.0	35.2	39.4	43.2	48.2
1.50	0.059	1.33	18.9	23.1	26.7	29.8	32.7	35.3	37.7	42.2	46.2	51.6
1.55	0.061	1.42	20.1	24.7	28.5	31.8	34.9	37.7	40.3	45.0	49.3	55.1
1.60	0.063	1.52	21.5	26.3	30.3	33.9	37.2	40.1	42.9	48.0	52.5	58.7
1.65	0.065	1.61	22.8	27.9	32.3	36.1	39.5	42.7	45.6	51.0	55.9	62.5
1.70	0.067	1.71	24.2	29.7	34.2	38.3	41.9	45.3	48.4	54.1	59.3	66.3
1.75	0.069	1.81	25.7	31.4	36.3	40.6	44.4	48.0	51.3	57.4	62.9	70.3
1.80	0.071	1.92	27.1	33.3	38.4	42.9	47.0	50.8	54.3	60.7	66.5	74.3
1.85	0.073	2.03	28.7	35.1	40.6	45.3	49.7	53.7	57.4	64.1	70.2	78.5
1.90	0.075	2.14	30.2	37.0	42.8	47.8	52.4	56.6	60.5	67.6	74.1	82.8
1.95	0.077	2.25	31.9	39.0	45.1	50.4	55.2	59.6	63.7	71.2	78.0	87.3
2.00	0.079	2.37	33.5	41.0	47.4	53.0	58.1	62.7	67.0	74.9	82.1	91.8
2.05	0.081	2.49	35.2	43.1	49.8	55.7	61.0	65.9	70.4	78.7	86.3	96.4
2.10	0.083	2.61	37.0	45.3	52.3	58.4	64.0	69.1	73.9	82.6	90.5	101.2
2.20	0.087	2.87	40.6	49.7	57.4	64.1	70.2	75.9	81.1	90.7	99.3	111.1
2.40	0.094	3.41	48.3	59.1	68.3	76.3	83.6	90.3	96.5	107.9	118.2	132.2
2.60	0.102	4.01	56.6	69.4	80.1	89.6	98.1	106.0	113.3	126.7	138.7	155.1
2.80	0.110	4.65	65.7	80.5	92.9	103.9	113.8	122.9	131.4	146.9	160.9	179.9

The reaction force is less than 150N, suitable for operation with a handheld high-pressure gun.

The reaction force ranges from 150 to 250N, requiring manual operation with body support.

The reaction force exceeds 250N, special tooling must be used as a carrier; all manual operation is prohibited.

14

BJV Pipeline Nozzle



Product Introduction

The BJV pipeline nozzle is designed to suit pipelines of various diameters, pressures, flow rates and configurations, making it one of the most powerful cleaning heads for pipeline cleaning applications.

Product Features

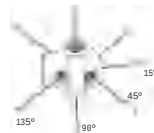
Durability

Wide selection available

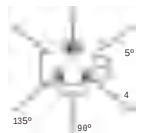
Technical Specifications

Product Name	Model	Maximum Pressure Bar	Flow Range L/Min	Pipe Diameter Range Mm	Diameter Mm	Length Mm	Inlet Thread	Nozzle Type	Rotating Speed Rpm/S
22K-BJV Pipeline Nozzle		1500	45-380	152-1524	7.62	22.35	M24*1.5	AP4	20-60 slow 90-250 fast
40K-BJV Pipeline Nozzle		2800	13-76	152-1524	7.62	21.34	9/16	OS6	20-60 slow 90-250 fast

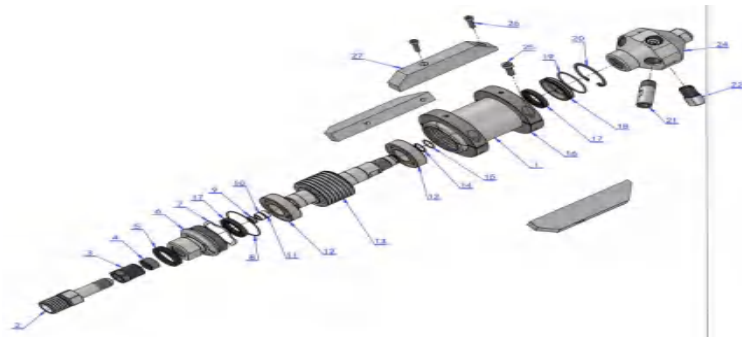
Accessory Details



Obstruction Removal Type



Polishing / Cleaning Type



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Rotating body	1	8	O-ring	2	15	O-ring	1	22	40 Extension Rod	1
2	Inlet Connector	1	9	High-pressure Seal Seat	2	16	Center Bracket Fixing Ring	1	23	Nozzle	1
3	Compression Nut	1	10	O-ring	1	17	Oil Seal	1	24	Extension Rod 6-Hole Nozzle	1
4	Nut	1	11	High Pressure Seal	1	18	Rotating Shaft Seal Seat	6	25	Hexagon Socket Head Screw	1
5	Dust Seal	1	12	Bearing	2	19	O-ring	1	26	Hexagon Socket Head Screw	1
6	Connecting Nut	1	13	Rotating Shaft	1	20	Retaining Ring	1	27	Nylon Support Plate	1
7	Wave Spring	1	14	Rotating shaft seal support ring	1	21	65 Extension Rod	1	28		1

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Gopher Nozzle

Product Introduction

The gopher nozzle is a type of nozzle used in high-pressure water jet systems, which is highly suitable for cleaning evaporator tubes and liquid pipelines. With its unique shape and working principle, this nozzle can effectively clean and flush the inside of pipes. It is an ideal product for cleaning medium-diameter pipelines and evaporator pipelines, as well as removing concrete from drill pipes. It can penetrate pipe blockages such as coke, polymers, coatings and latex.

Product Features

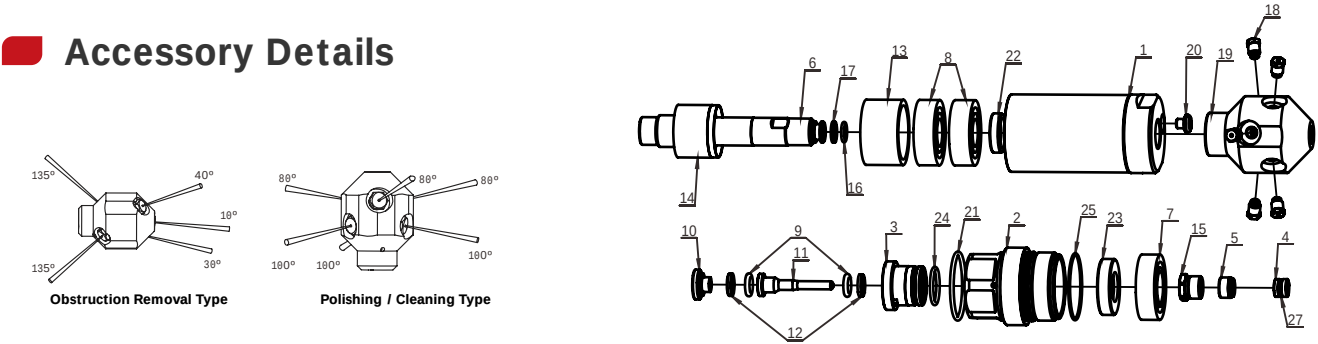
Wide selection available

High-efficiency Cleaning

Technical Specifications

Product Name	Model	Maximum Pressure Bar	Flow Range L/Min	Pipe Diameter Range Mm	Diameter Mm	Length Mm	Inlet Thread	Nozzle Type	Rotating Speed Rpm/S
22K Gopher Nozzle		1500	30-95	51-305	4.06	19.81	M24*1.5	AP2	600-1000
40K Gopher Nozzle		2800	15-45	51-305	4.06	19.81	9/16 HP	OS4	600-1000

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Rotating Body	1	8	Bearing	2	15	Locking Screw	1	22	Oil Seal	1
2	Water Inlet Connector	1	9	O-ring	2	16	O-ring	1	23	Oil Seal	1
3	Connecting Sleeve	1	10	Connecting Seal Body	1	17	Sealing Washer	1	24	O-ring	1
4	Rotary Seal	1	11	Rotating Core	1	18	Nozzle	6	25	O-ring	1
5	Copper Bushing	1	12	Sealing Washer	2	19	Rotary Head	1	26	O-ring	1
6	Rotating Shaft	1	13	Deceleration Brass Bushing	1	20	Oil Filling Screw	1	27	O-ring	1
7	Bearing	1	14	Retarding Magnet	1	21	O-ring	1	28		1

16

3D Rotating Nozzle

Product Introduction

The 3D rotary nozzle is a common accessory for ultra-high pressure water jet systems. Driven by the reaction force of water jet, the nozzle rotates at multiple angles to realize 360° full-coverage and dead-angle-free tank cleaning. It adapts to various pressure and flow conditions, and is widely applied to ultra-high pressure cleaning scenarios such as reactors, crude oil tanks, chemical tanks, ship cabins, chemical raw material and coating industries.

Product Features

Speed adjustable

Damage Prevention

Versatility

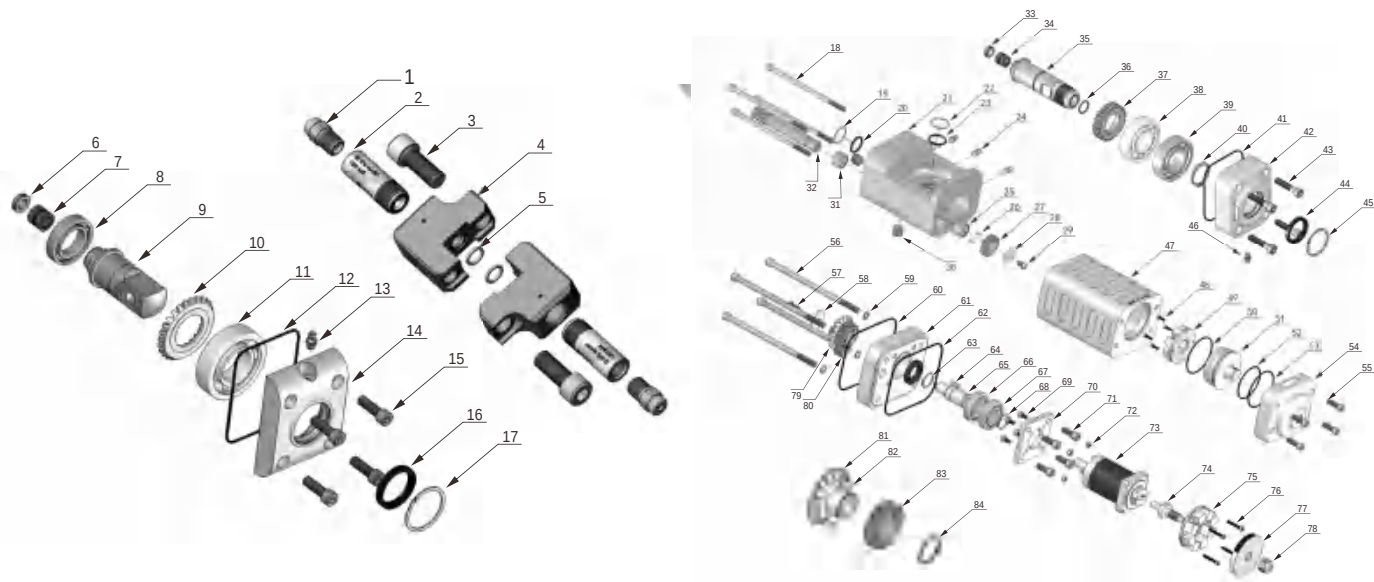
Diversified Combinations

Technical Specifications

Model	Maximum Pressure Bar	Flow Range L/Min	Pipe diameter range L/Min	Diameter Mm	Length Mm	Nozzle thread	Inlet Thread Customized
	1500Bar	38-307	102-203	96.5	385	1/8N P T	M 24 × 1.5



Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Carbide Nozzle	2	31	Rotary shaft bushing		61	Lower rotary connecting plate	
2	Nozzle Spray Bar	2	32	Rotating shaft		62	Lower Rotary Connecting Plate Sealing Ring	
3	Flow block screw	2	33	Rotary upper sealing ring		63	Lower rotary shaft oil seal	
4	Flow block	2	34	Upper rotary seal		64	Lower Rotary Shaft Gear Pin	
5	Flow block sealing ring	1	35	Rotary upper connecting shaft	2	65	Lower Rotary Shaft	
6	Rotary sealing ring	1	36	Rotary upper connecting shaft seal ring	2	66	Lower Rotary Shaft Bearing of Swivel Body	
7	Rotary seal	2	37	Rotary upper connecting shaft gear	1	67	Lower Rotary Shaft Bearing	
8	Rotary bearing	1	38	Rotary upper connecting shaft bearing	1	68	Swivel body lower shaft bearing circlip	
9	Rotary shaft core	1	39	Rotary upper connecting shaft bearing	2	69	Swivel Body Lower Cover Plate Fastening Screw	
10	Rotary gear	1	40	Rotary upper connecting shaft bearing circlip	1	70	Lower cover plate of swivel body	1
11	Rotary top cover bearing	1	41	Upper rotary cover sealing ring	1	71	Swivel Body Lower Cover Plate Fixing Screw	1
12	Rotary top cover O-ring	1	42	Rotary upper cover		72	Lower fixing screw of swivel body	1
13	Rotary top cover grease nipple	1	43	Upper rotary cover set screws		73	Reduction Shaft	1
14	Rotary Top Cover	1	44	Rotary upper cover oil seal		74	Reduction shaft connecting rod	1
15	Rotary top cover screw	4	45	Upper rotary cover oil seal circlip		75	Upper magnetic disc of reduction body	1
16	Rotary top cover oil seal	1	46	Rotary upper cover grease nipple		76	Fixing screw for upper magnetic disc of reduction body	1
17	Rotary top cover oil seal circlip	2	47	Reducer body		77	Magnetic Disc Spacer Plate	
18	Rotary fixing screw	1	48	Reducer body lower disc fixing screws		78	Magnetic Disc Spacer Plate Fixing Screw	
19	Sealing ring between rotaries	1	49	Reducer body lower disc		79	Swivel body lower rotary shaft gear set	
20	Inter-rotary seal	1	50	Reducer body seal ring 1		80	Gear Set Sleeve	
21	Rotary body	1	51	Reducer body plug		81	Gear set upper gear	
22	Rotary top cover sealing ring	1	52	Reducer body seal ring 2	1	82	Middle Gear of Gear Set	
23	Rotary top cover seal	1	53	Reducer body seal ring 3	1	83	Circlip for Middle Gear of Gear Set	
24	Rotary grease nipple	1	54	Reducer body lower seal housing	1			
25	Rotating shaft sleeve		55	Reducer body lower seal housing fixing screws	6			
26	Fixing pin for lower gear of rotating shaft		56	Lower rotary body fixing screws	1			
27	Rotating shaft lower gear		57	Lower rotary gear fixing screws	1			
28	Top of rotating shaft lower gear		58	Lower rotary gear top plate	1			
29	Top plate screw		59	Lower Rotary Body Fixing Screw Sealing Ring				
30	Plug		60	Lower rotary connecting plate sealing ring				

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Badger Nozzle for Curved Pipe



Product Introduction

The Badger Nozzle for Curved Pipe is a high-efficiency optimal tool, specially developed for cleaning medium-to-large curved pipelines and removing internal fouling.Damping fluid with different viscosity can be injected to adjust the rotating speed of the cleaning head.Low speed is ideal for dredging pipelines severely blocked by heavy fouling; high speed is suitable for polishing pipelines with thin and hard scale deposits.Furthermore, the spray height is adjustable to adapt to the working conditions of all pipeline cleaning scenarios.

Product Features

Wide range of options

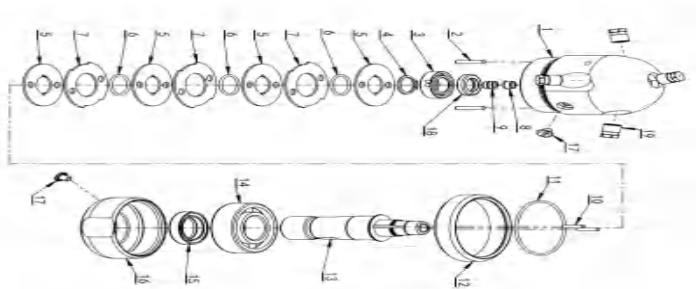
Cleaning distance is long

High durability

Technical Specifications

Product Name	Model	Maximum pressure Bar	Flow Range L/Min	Pipe Diameter Range L/Min	Diameter Mm	Length Mm	Nozzle Type	Inlet Thread (Customizable available)
22K Badger Nozzle for Curved Pipe	BG2	1500Bar	19-110	102-203	70	124	1/8NPT	M24x1.5
	BG3		19-110	152-305	95	157	1/4NPT	M24x1.5
40K Badger Nozzle for Curved Pipe	BG4	1500Bar	19-110	102-203	77	127	3/8UNF	11/8 " UNF
60K Badger Nozzle for Curved Pipe	BG6	1500Bar	53-210	150-300	95	140	1/2NPT	11/8 " UNF

Accessory Details



Serial Number	Description	Quantity	Description	Serial Number	Description	Serial Number	Description
1	Nozzle Body	5	Washer	9	High-pressure Sealing	13	Rotating Shaft
2	Cylindrical Pin	6	O-ring	10	Cylindrical Pin	14	Bearing
3	Bearing	7	Friction Plate	11	O-ring	15	Oil Seal
4	Circlip	8	High-pressure Seal Seat	12	Sliding Ring	16	Nozzle Nut

18

Banshee Rotating Nozzle



Product Introduction

Banshee Rotating Nozzle is a high-pressure water jet cleaning nozzle, specially designed for pipeline cleaning and dirt removal. Adopting advanced design and manufacturing processes, it produces high-speed rotating water jets with wide coverage. The nozzle can go deep into the pipeline interior to thoroughly wash away dirt and sediment.

Product Features

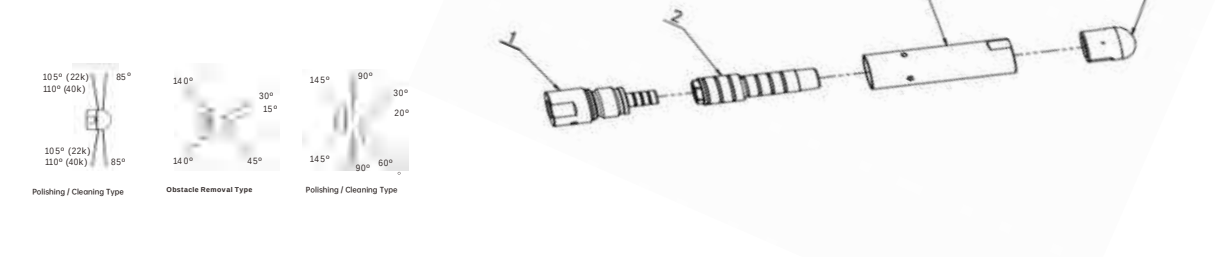
Superior Durability

Diversified Options

Technical Specifications

Product Name	Model	Maximum pressure Bar	Flow Range L/Min	Pipe Diameter Range L/Min	Diameter Mm	Length Mm	Inlet Thread (Customizable available)
22K Banshee Rotating Nozzle	MJ9.5	1500Bar	17-30	12-16	9.5	65	M7, 1/16"NPT, 1/4"LH或RH, 5/16-24 RH
	MJ13		27-38	15-25	13	74	1/8"NPT, 1/8"BSPP, 1/4"LH, 1/4"RH, 3/8"LH 或3/8"RH
	MJ15		30-38	19-30	15	76	1/8"NPT, 1/8"BSPP, 3/8"LH/RH
	MJ18		30-53	22-33	18	97	1/4"NPT, 1/4"BSPP, 9/16"LH或9/16" RH
	MJ24		45-95	28-51	24	130	3/8"NPT, 3/8"BSPP, 9/16"LH或9/16"RH
	MJ33		45-190	38-60	33	180	1/2"NPT, 1/2"BSPP, 或9/16" MP

Accessory Details



Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity	Serial Number	Description	Quantity
1	Nozzle	1	2	Nozzle Body	1	3	Shaft Core	1	4	Nozzle Tail	1

19

Centralizer for BJV nozzle

The central retainer is a key component used to support and position pipeline nozzles. It balances the jet spacing to achieve concentrated cleaning, and protects the cleaning tool as it travels through the pipeline.

When the pipeline size is more than 1.5 times the diameter of the cleaning tool, the central retainer serves as an important safety device to prevent the nozzle from reversing.

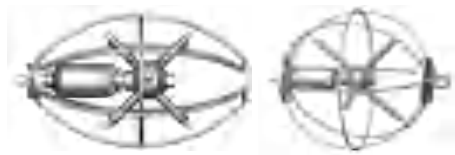
Sliding type

It adopts interchangeable plastic slide tracks for easy replacement. Suitable for elbow sections, it can effectively clean pipelines with a diameter up to 305 mm and fits all BJV models. Applicable diameter range: 150–305 mm



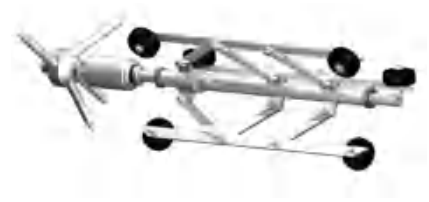
Cage type

When the pipeline has a complex internal structure and heavy scaling that may hinder the rotation of the cleaning nozzle, it is recommended to use a stainless steel central protective cage to ensure the cleaning nozzle operates normally inside the pipeline. Applicable diameter range: 300–510 mm Length range: 510–610 mm



Wheel type for straight pipe

Only for cleaning straight pipelines. This is a six-wheel central retainer, mainly composed of an adjustable folding aluminum frame and six hard plastic wheels. It is compatible with all cleaning nozzles of the BJV series. Applicable diameter range: minimum 230–410 mm, maximum 460–1500 mm.



Wheel type for curved pipe

It consists of an adjustable steel telescopic bracket and eight hard plastic wheels. Specially designed for cleaning large-diameter pipelines with bends, it is compatible with all cleaning nozzles of the BJV series. Applicable diameter range: Min 410–770 mm, Max 530–940 mm.



20

Nozzle Extension

The nozzle extension rod mounts the nozzle at an ideal extended distance to maximize jet power, suitable for a variety of pipeline and tank cleaning nozzles.

Custom thread length specifications are available.



21

Nozzle Pull Ring

It improves the maneuverability of pipeline nozzles during pipeline construction operations. The pull ring shall be installed at the end opposite to the hose inlet of the tool.

If purchased separately, the corresponding thread specifications shall be provided.



22

Nozzle Anti-Retraction

The W-001 flexible spray gun safety device prioritizes safety in design, effectively protecting operators during cleaning and horizontal operations. It has a large adjustment range for various tube sheets, and is sturdy and durable, made of galvanized steel and anodized aluminum with a Lexan splash shield.



23

Braided Hose Protective Sleeve

Hose and connector bursts usually occur close to the operator and near sensitive body areas such as the abdomen, armpits and neck. The Braided Hose Protective Sleeve can effectively protect these body parts and improve operational safety.



*Equipped with aluminum pipe sleeves for double safety protection.

Technical Specifications

Working Pressure Range	Length	Weight
500-2800Bar		

24

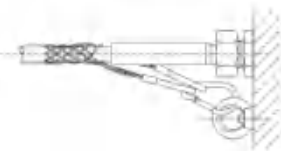
Hose Whip-like Protective Sleeve

When a high-pressure hose is connected to equipment, a whip check hose protective sleeve must be used to restrain hose movement if the pressurized hose disconnects. This allows operators to move clear and perform a safe, orderly system shutdown.

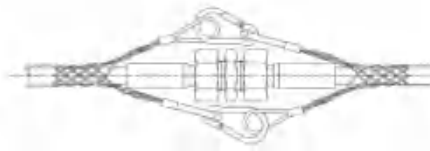


Technical Specifications

Working Pressure Range	Length	
500-2800Bar		



Schematic of Installation Method at Fluid End



Schematic of installation method at high-pressure pipe connection

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Rupture Disc Holder

In high-pressure water jet equipment, the rupture disc holder prevents excessive system pressure and protects system safety, functioning similarly to a fuse in an electrical circuit system. When the system pressure exceeds the maximum bursting pressure of the rupture disc, the rupture disc will burst automatically. This allows water flow to discharge through the rupture disc seat and realizes pressure relief of the system.



Technical Specifications

Product Name	Maximum Pressure	Length	Connection Thread
40K Rupture Disc Holder	2800Bar	90.4Mm	9/16" HP Ports
22K Rupture Disc Holder	1400Bar	90.4Mm	9/16" MP Male

Selection of Rupture Disc

Serial Number	Rupture Disc Burst Pressure	
	psi	MPa
1	18000	124
2	24000	165
3	27000	186
4	29000	200
5	35000	241
6	40000	275
7	45000	310
8	50000	345
9	56000	386

Accessory Details

Serial Number	Description
1	O-ring
2	Base
3	Rupture Disc
4	Retaining Ring
5	Cap



*Primary bursting pressure is generally set at 1.2 times the normal working pressure. For example, if the working pressure is 40,000 psi (2758 bar), the required bursting pressure of the rupture disc is $40,000 \times 1.2 = 48,000$ psi. A 50,000 psi rupture disc can be selected.
Secondary bursting pressure is normally set at 1.4 times the normal working pressure.

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Pressure Gauge

The pressure gauge features high accuracy and delivers precise pressure measurements. It is specially designed for water pressure measurement in ultra-high-pressure water jet systems. Since the operating pressure of ultra-high-pressure water jet systems is generally extremely high, specially engineered pressure gauges are required to meet the measurement demands.



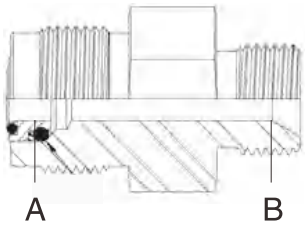
Technical Specifications

Product Name	Maximum Pressure	Weight	Inlet Thread	Maximum Range
40K Pressure gauge	0-2800Bar	15.6Kg		60000Psi
22K Pressure gauge	0-1400Bar	15.6Kg		40000Psi
15K Pressure gauge	0-1000Bar	12.3Kg		20000Psi

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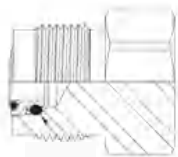
20K Connector

Male thread to medium pressure male thread connector



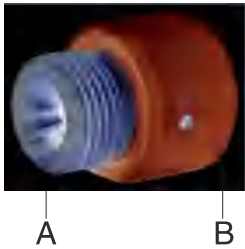
Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
1400Bar	1 " Type M Male	20K Port Male	
	9/16" Type M Male	20K Port Male	

Medium pressure plug



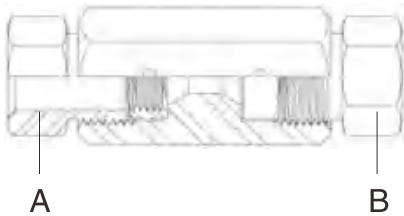
Maximum pressure	Thread Connection Specification	Applicable Scenario
1400Bar	20K Port Male	

Female thread to M-type male thread connector



Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
1400Bar	1" Type M Male	20K Port Male	
	9/16" Type M Male	20K Port Male	

Medium pressure straight connector

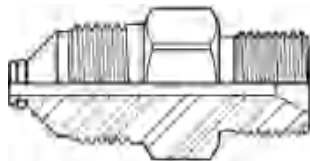


Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
1400Bar	9/16" MP Female	9/16" MP Female	

28

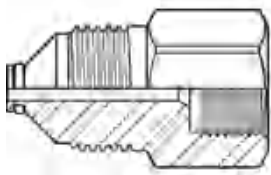
40K Connector

External thread to M-type external thread connector



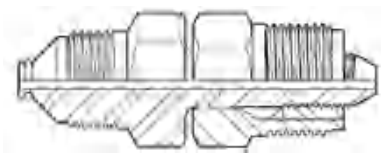
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" Type M Male	
2750Bar	7/8" Type M Male	

External thread to high-pressure internal thread connector



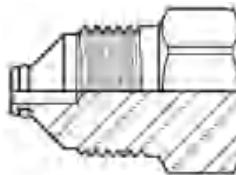
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP Female	

External Thread to High-Pressure External Thread Connector



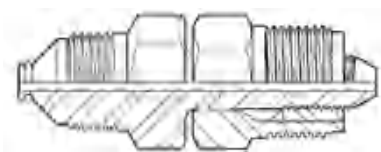
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP Male	

External Thread Plug



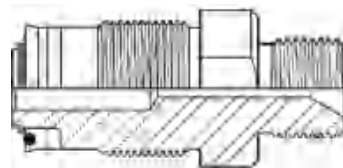
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP Female	

Male Thread Connector



Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	40K Port Male	

Drainage end external thread to M-type external thread connector

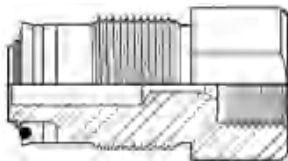


Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	40K Port Male	
	7/8" Type M Male	
	1" Type M Male	

29

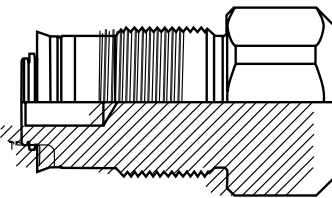
40K Connector

■ Drainage End External Thread to M-type External Thread Connector



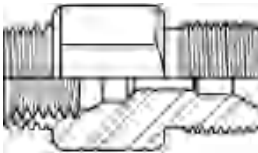
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16"HP Female	

■ Plunger Pump Drain End Male Thread Plug



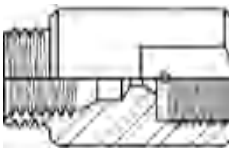
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16"HP Female	

■ Handheld Spray Gun to M-type Male Thread Connector



Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	7/8" Type Male	
	9/16" Type Male	

■ Handheld spray gun connected to high-pressure internal thread connector



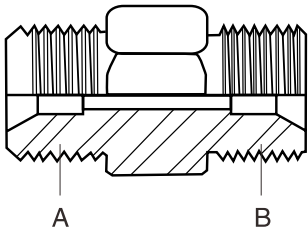
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	3/8"HP Female	
	9/16"HP Female	

■ Other Related Connectors for Handheld Spray Gun



Connecting Bolt Connecting Base

■ M-type Connector



Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
2750Bar	9/16" Type Male	9/16" Type Male	
	9/16" Type Male	7/8" Type Male	
	7/8" Type Male	7/8" Type Male	

30

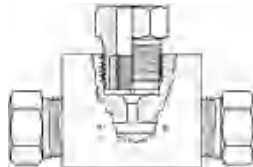
40K Connector

■ High-pressure Straight Connector



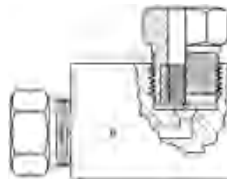
Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
2750Bar	9/16" HP Female	9/16" HP Female	High-pressure Connecting Pipe

■ High-pressure Tee Connector



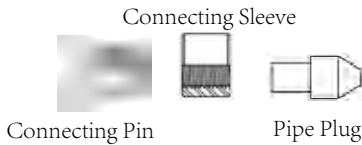
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP Female	High-pressure Connecting Pipe

■ High Pressure Elbow Connector



Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP Female	High-pressure Connecting Pipe

■ High-pressure elbow Connector



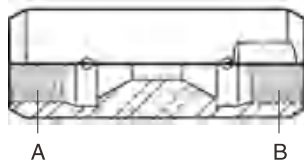
Maximum pressure	Thread Connection Specification	Applicable Scenario
2750Bar	9/16" HP	High-pressure Connecting Pipe

■ High-pressure Connector Rod



Maximum pressure	Thread Connection Specification		OD	ID	Applicable Scenario
	Port A	Port B	mm	mm	
2750Bar	9/16" HP LH	9/16" HP LH	14.5	6.35	
	9/16" HP LH	9/16" HP RH			
	9/16" HP RH	9/16" HP RH			

■ High-pressure Connector Rod



Maximum pressure	Thread Connection Specification		Applicable Scenario
	Port A	Port B	
2750Bar	1/4" HP Lance LH	1/4" HP Lance LH	
	3/8" HP Lance LH	3/8" Type Male	
	9/16" HP Lance LH	9/16" HP Lance LH	

32 Gem Nozzle

Common Nozzle Types		Specific Pressure Flow Comparison Parameters							
	Aperture ID	15000Psi		20000Psi		40000Psi			
		i n	m m	g p m	l p m	g p m	l p m		
 M10 Internal Thread	005	0.13	0.1	0.3	0.1	0.4	0.1	0.4	
	006	0.15	0.1	0.3	0.1	0.4	0.1	0.6	
	007	0.18	0.1	0.5	0.1	0.5	0.2	0.7	
	008	0.20	0.2	0.6	0.2	0.7	0.3	1.0	
	009	0.23	0.2	0.8	0.2	0.9	0.3	1.2	
	010	0.25	0.2	0.9	0.3	1.1	0.4	1.5	
	011	0.28	0.3	1.1	0.3	1.3	0.5	1.8	
	012	0.3	0.4	1.3	0.4	1.5	0.6	2.2	
	013	0.33	0.4	1.6	0.5	1.8	0.7	2.6	
	014	0.36	0.5	1.8	0.6	2.1	0.8	3.0	
	015	0.38	0.6	2.1	0.6	2.4	0.9	3.4	
	016	0.41	0.6	2.4	0.7	2.7	1.0	3.9	
 UHP (3/8"-24UNF) Hexagon Socket	017	0.43	0.7	2.7	0.8	3.1	1.2	4.4	
	018	0.46	0.8	3.0	0.9	3.5	1.3	4.9	
	019	0.48	0.9	3.3	1.0	3.9	1.4	5.5	
	020	0.51	1.0	3.7	1.1	4.3	1.6	6.1	
	021	0.53	1.1	4.1	1.2	4.7	1.8	6.7	
	022	0.56	1.2	4.5	1.4	5.2	1.9	7.3	
	023	0.58	1.3	4.9	1.5	5.7	2.1	8.0	
	024	0.61	1.4	5.3	1.6	6.2	2.3	8.7	
	025	0.64	1.5	5.8	1.8	6.7	2.5	9.5	
	026	0.66	1.7	6.3	1.9	7.2	2.7	10.2	
	027	0.68	1.8	6.8	2.1	7.8	2.9	11.0	
	028	0.71	1.9	7.3	2.2	8.4	3.1	11.9	
 UHPX (3/8"-24UNF) External Hexagon	029	0.73	2.1	7.8	2.4	9.0	3.4	12.7	
	030	0.76	2.2	8.3	2.5	9.6	3.6	13.6	
	031	0.78	2.4	8.9	2.7	10.3	3.8	14.6	
	032	0.81	2.5	9.5	2.9	11.0	4.1	15.5	
	033	0.83	2.7	10.1	3.1	11.7	4.4	16.5	
	034	0.86	2.8	10.7	3.3	12.3	4.6	17.5	
	035	0.89	3.0	11.4	3.5	13.1	4.9	18.6	
	036	0.91	3.2	12.0	3.7	13.9	5.2	19.6	
	037	0.93	3.4	12.7	3.9	14.7	5.5	20.7	
	038	0.96	3.5	13.4	4.1	15.5	5.8	21.9	
	039	0.99	3.7	14.1	4.3	16.3	6.1	23.0	
	040	1.02	3.9	14.8	4.5	17.1	6.4	24.2	

* The displacement (flow rate) values given here refer to the theoretical flow rate, without taking into account the efficiency reduction caused by water compressibility and the expansion of pressure-bearing components.

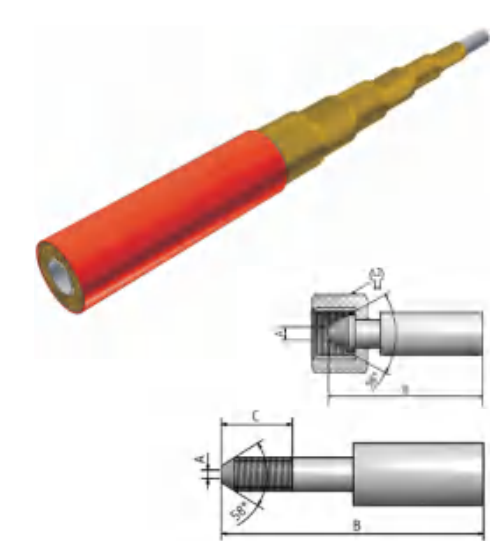
33

Common Nozzle Types		Specific Pressure Flow Comparison Parameters							
	Aperture ID	10000Psi		15000Psi		20000Psi			
		i n	m m	g p m	l p m	g p m	l p m		
 HHTC Alloy Nozzle 1/4"NPT Male Threa	018	0.46	0.9	3.3	1.1	4.1	1.2	4.7	
	020	0.51	1.1	4.1	1.3	5.0	1.5	5.8	
	022	0.56	1.3	4.9	1.6	6.1	1.8	7.0	
	024	0.61	1.6	5.9	1.9	7.2	2.2	8.3	
	026	0.66	1.8	6.9	2.2	8.5	2.6	9.8	
	029	0.74	2.3	8.6	2.8	10.5	3.2	12.2	
	032	0.81	2.8	10.5	3.4	12.8	3.9	14.8	
	035	0.89	3.3	12.5	4.1	15.3	4.7	17.7	
	038	0.97	3.9	14.8	4.8	18.1	5.5	20.9	
	042	1.07	4.8	18.0	5.8	22.1	6.7	25.5	
	047	1.19	6.0	22.6	7.3	27.6	8.4	31.9	
	052	1.32	7.3	27.6	8.9	33.8	10.3	39.1	
 HP Alloy Nozzle 9/16 MP Male Threa	057	1.45	8.8	33.2	10.7	40.7	12.4	47.0	
	063	1.60	10.7	40.6	13.1	49.7	15.2	57.4	
	067	1.70	12.1	45.9	14.8	56.2	16.1	64.9	
	069	1.75	12.9	48.7	15.7	59.6	17.2	68.8	
	073	1.85	14.4	54.5	17.6	66.7	20.3	77.0	
	075	1.90	15.2	57.5	18.6	70.4	21.5	81.3	
	078	1.98	16.4	62.2	20.1	76.1	23.2	87.9	
	082	2.08	18.2	68.7	22.2	84.2	25.7	97.2	
	090	2.29	21.9	82.8	26.8	101.4	30.9	117.1	
	093	2.36	23.4	88.4	28.6	108.3	33.0	125.0	
	098	2.49	25.9	98.1	31.8	120.2	36.7	138.8	
	106	2.69	30.3	114.8	37.2	140.6	42.9	162.4	
 JS4 Pipe Cleaning Nozzle 1/4"NPT Male Threa	110	2.79	32.7	123.7	40.0	151.4	46.2	174.9	
	115	2.92	35.7	135.2	43.7	165.5	50.5	191.1	
	125	3.18	42.2	159.7	51.7	195.6	59.7	225.8	
	135	3.43	49.2	186.3	60.3	228.1	69.6	263.4	
	145	3.68	56.8	214.9	69.5	263.2	80.3	303.9	
	155	3.94	64.9	245.5	79.4	300.7	91.7	347.2	
	165	4.19	73.5	278.2	90.0	340.8	104.0	393.5	
 JS4F Pipe Cleaning Nozzle 1/4"NPT Male Threa									
 P4TC Pipe Cleaning Nozzle 1/4"NPT Male Threa									
 RM Embedded Nozzle 1/2"-28UNEF Male Threa									

* The displacement (flow rate) values herein refer to the theoretical flow rate, excluding efficiency losses caused by water compressibility and the expansion of pressure-bearing components.

34 High-pressure Hose

5/6 High-pressure Hose



Scope of Application

High Pressure Water Cleaning: Heat exchanger tube cleaning, surface preparation (concrete removal, building surface cleaning, paint removal), tank and vessel cleaning, ultra-high pressure water jet cutting and hydro-demolition (cutting and removal of concrete, pipelines, paper or steel).

Pressure System: Pressure testing equipment (valves, tools and control panels).

Technical Parameters

Inner core material: POM

Steel wire: 6 layers of high-strength steel wire

Outer layer material: PA

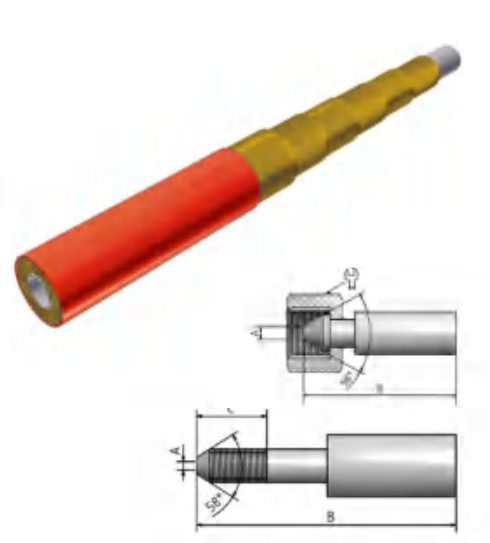
Outer layer color: Orange-Red

Connector Specification: 1/4"x28UNF LH 3/8"x24UNF LH 9/16"x18UNF LH M14x1,5 LH(Customizable)

Temperature range: -30° Cto +60° C[-22° Fto 140° F]

Type	Hose Size				Pressure Range				Bending Radius		Weight		Connector Inner Diameter		Sleeve Size	
	ID [mm]	[in]	OD [mm]	[in]	Working Pressure [bar]	[psi]	Burst Pressure [bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
5/6	4,6	0,18	14,4	0,57	2.800	40.600	7.000	101.500	220	8,66	0,563	0,377	2,5	0,10	19,7	0,77

8/6 High-pressure Hose



Scope of Application

High Pressure Water Cleaning: Heat exchanger tube cleaning, surface preparation (concrete removal, building surface cleaning, paint removal), tank and vessel cleaning, ultra-high pressure water jet cutting and hydro-demolition (cutting and removal of concrete, pipelines, paper or steel).

Pressure System: Pressure testing equipment (valves, tools and control panels).

Technical Parameters

Inner core material: POM

Steel wire: 6 layers of high-strength steel wire

Outer layer material: PA

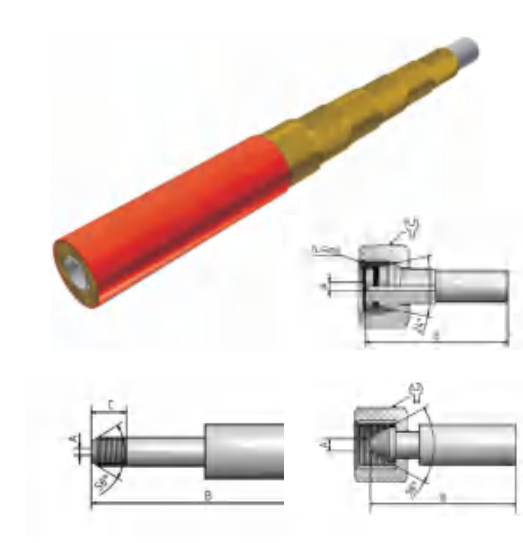
Outer layer color: Orange-Red

Connector Specification: 3/8"x24UNF LH 9/16"x18UNF LH M14x1,5 LH 7/8"x14UNF(CustomizableType)

Temperature range: -30° Cto +70° C[-22° Fto 158° F]

Type	Hose Size				Pressure Range				Bending Radius		Weight		Connector Inner Diameter		Sleeve Size	
	ID [mm]	[in]	OD [mm]	[in]	Working Pressure [bar]	[psi]	Burst Pressure [bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
8/6	7,6	0,30	19,3	0,76	2.800	40.600	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93

13/6 High-pressure Hose



Scope of Application

High Pressure Water Cleaning: Heat exchanger tube cleaning, surface preparation (concrete removal, building surface cleaning, paint removal), tank and vessel cleaning, ultra-high pressure water jet cutting and hydro-demolition (cutting and removal of concrete, pipelines, paper or steel).

Pressure System: Pressure testing equipment (valves, tools and control panels).

Technical Parameters

Inner core material: POM

Steel wire: 6 layers of high-strength steel wire

Outer layer material: PA

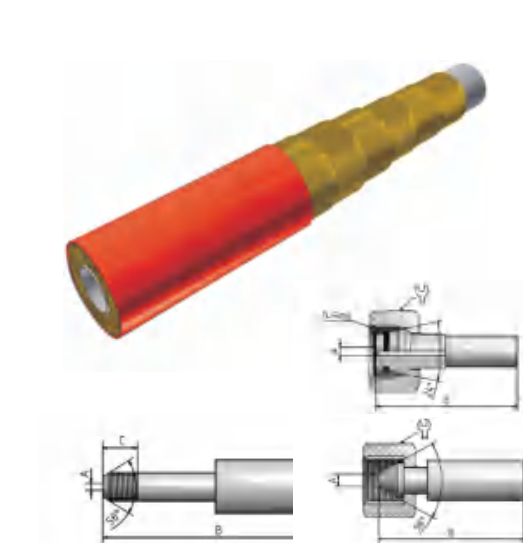
Outer layer color: Orange-Red

Connector Specification: M18x1,5 LH M24x1,5 1x12UNF(Customizable)

Temperature range: -30° Cto +60° C[-22° Fto 140° F]

Type	Hose Size				Pressure Range				Bending Radius		Weight		Connector Inner Diameter		Sleeve Size	
	ID [mm]	[in]	OD [mm]	[in]	Working Pressure [bar]	[psi]	Burst Pressure [bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
13/6	12,8	0,50	29,8	0,92	2800	26.100	6000	65.250	300	11,81	1,160	0,777	7,5	0,30	30,1	1,18

20/6 High-pressure Hose



Scope of Application

High Pressure Water Cleaning: Heat exchanger tube cleaning, surface preparation (concrete removal, building surface cleaning, paint removal), tank and vessel cleaning, ultra-high pressure water jet cutting and hydro-demolition (cutting and removal of concrete, pipelines, paper or steel).

Pressure System: Pressure testing equipment (valves, tools and control panels).

Technical Parameters

Inner core material: POM

Steel wire: 6 layers of high-strength steel wire

Outer layer material: PA

Outer layer color: Orange-Red

Connector Specification: M36x2 1"x14UNS LH 15/16"x12UN(Customizable)

Temperature range: -30° Cto +60C[-22° Fto 140° F]

Type	Hose Size				Pressure Range				Bending Radius		Weight		Connector Inner Diameter		Sleeve Size	
	ID [mm]	[in]	OD [mm]	[in]	Working Pressure [bar]	[psi]	Burst Pressure [bar]	[psi]	[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]
20/6	18,8	0,74	32,8	1,29	1.600	23.200	4.000	58.000	350	13,78	2,170	1,454	13,0	0,51	42,9	1,68

INDUSTRIAL SOLUTIONS

Applicable Industries

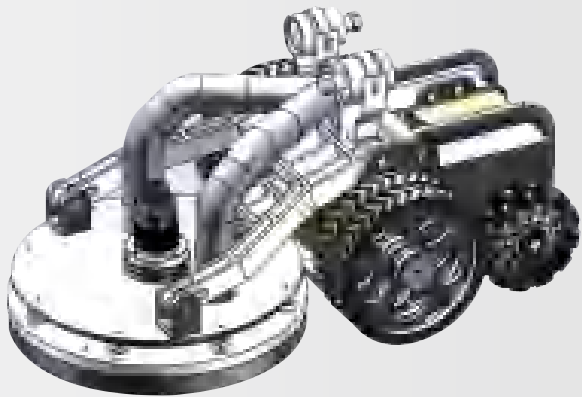
- 
Construction Engineering
- 
Shipbuilding
- 
Chemical Industry
- 
Manufacturing
- 
Oil & Gas
- 
Electric Power
- 
Food Industry
- 
Pipeline
- 
Vessel
- 
Steel
- 
Tank
- 
Surface Cleaning
- 
Coal Mining

Industry Applications

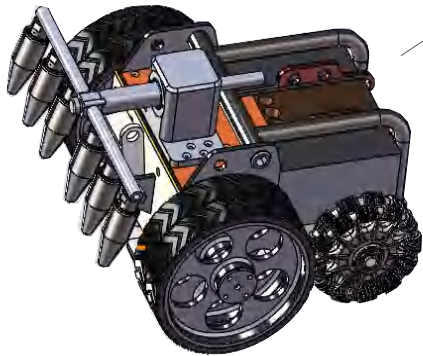
Ship Rust Removal, Anti-Corrosion & Surface Preparation

High-pressure water jet cleaning for ships can remove sediments generated during ship manufacturing and maintenance. It effectively eliminates marine growth, rust, paint and sea salt deposits on the surfaces of ship hulls and cabins, and strips attachments from cabin interiors and bottom plates.

Regular ship cleaning removes marine growth and algae attached to the hull surface, reducing sailing resistance. This lowers fuel consumption and maintains the ship's sailing speed.



Marine Industry



Wall-climbing Robot Operation

High-pressure water jet cleaning technology is easy to operate, environmentally friendly, non-damaging to equipment, and highly efficient. It can remove stubborn dirt and clean complex components, even in confined spaces.

Dock Bottom Cleaning Robot Operation

Suitable for cleaning inverted flat areas such as ship bottom panels, as well as flat surfaces including decks. Replacing the rust removal head enables manual breaking and dismantling operations. Flexible and convenient, it can be used with a recovery system.



High-pressure Cleaning

Suitable for various working conditions. Models can also be selected as required, and we provide a full range of paint and rust removal equipment for your choice.

Marine field



Telescopic Arm Cleaning Disc Operation

High-pressure water jet cleaning technology is easy to operate, causes no environmental pollution, and will not damage or corrode equipment. It features high cleaning efficiency, can remove insoluble dirt and clean complex structural parts, and is applicable to cleaning in narrow spaces.



Imported Professional Configuration Set

Professional high-pressure hoses and matching connecting devices from Germany provide you with excellent safety assurance.

Industry Applications

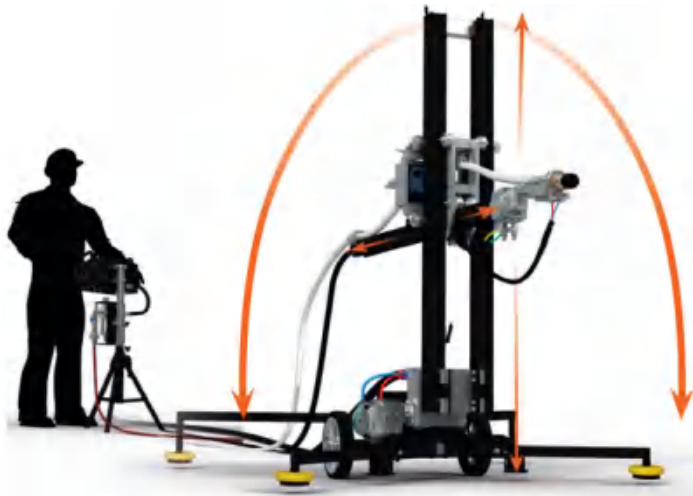
Aluminum Formwork Cleaning

Construction
Engineering
Field

Advantages of Aluminum Formwork Cleaning Solution

- Adopting frequency conversion control, it won' t damage the original surface of aluminum formwork and causes no deformation, greatly extending the turnover service life of the formwork panels.
- Suitable for curved plates and straight plates. It can effectively clean aluminum formworks of all sizes with excellent cleaning results.
- It supports remote monitoring, featuring simpler operation, longer service life, and easy inspection and maintenance.
- One machine for both paint removal and rust removal.

Traditional shot blasting technology causes severe wear on the surface of aluminum formwork, which is unfavorable for its cyclic reuse.High-end intelligent aluminum formwork cleaning equipment can perfectly replace traditional processes. It effectively removes residual concrete on the formwork and impacts and scrapes the aluminum surface to clear dirt and adhered cement, greatly extending the service life and turnover times of aluminum formwork.



3D Cleaning Operation
60 in. H x 84 in. W x 54 in. D
(1525 mm x 2134 mm x 1372 mm)



Full Wrist Joint Oscillation
80° bend and 270° rotation



Scaffolding & J-Hook Fixtures
Can be fixed to scaffolding or gratings



Control Box
Remote and safe operation of
high-pressure water equipment



Modular System
Easy disassembly and assembly,
convenient for portability and
transportation

Industry Applications

High-pressure Water Roughening

Construction
Engineering
Field

- No secondary leakage repair is required, avoiding hollowing, cracking, peeling and other problems. It ensures more reliable water-proof construction and is suitable for all formwork pouring and precast wall treatment.
- Higher working efficiency: only two operators are required for one high-pressure water roughening machine. It can finish 600 - 800 square meters of roughening work within 8 hours, several times faster than manual work. After high-pressure water roughening, procedures such as mortar splashing, glue applying and cement mortar plastering can be omitted.

Technical Parameters

Voltage	Pressure	Dimension	Power	Drive	Flow	Weight
380V	250Mpa	275*147*165mm	37kw	Motor	8L/Min	460KG

*The above data is for reference only and can be customized according to the customer's actual working conditions.



High-pressure water roughening refers to the roughening process performed with a high-pressure water roughening machine. Adopting high-pressure water jet technology, the machine creates a rough surface on concrete base layers and interior wall panels by means of high-pressure water flow. It realizes rapid surface roughening, reduces quality risks such as hollowing caused by residual laitance and release agent on the base, and greatly improves the bonding force of wall tiles and the paving quality of brick walls.

Industry Applications

Application of Cement Demolition Projects

Construction
Engineering
Field

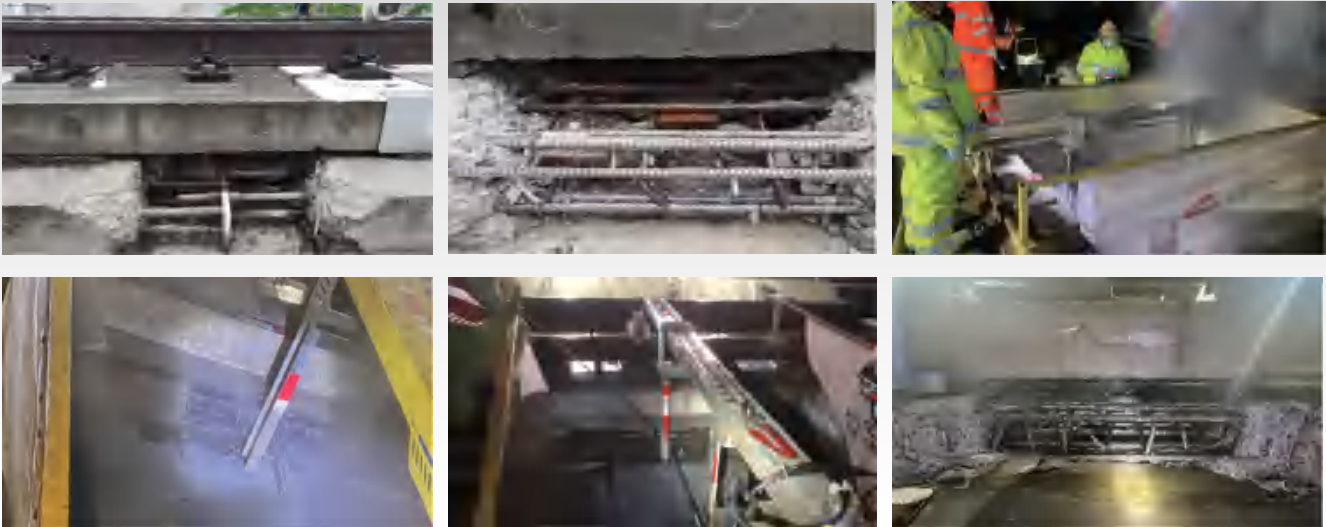
At present, concrete demolition in China mainly adopts traditional manual pneumatic picks and mechanical crushing. The inherent drawbacks of this process—excessive dust, strong vibration, and severe damage to the original structure—have driven government functional departments and construction units to proactively seek an environmentally friendly and energy-saving new technology to replace the traditional one, thereby improving work efficiency, reducing maintenance costs, and extending the service life of concrete structures. Compared with traditional mechanical demolition methods, the ultra-high-pressure concrete hydro-demolition method has prominent advantages. It has been widely applied in overseas engineering projects such as road and bridge reconstruction and reinforcement, as well as building maintenance and renovation. For example, since the 1990s, advanced countries including those in Europe, America, Japan, and South Korea have applied this technology in the reinforcement and reconstruction of roads and bridges. Sweden’s Bridge Code explicitly stipulates that concrete surface treatment must be conducted using high-pressure water jet technology before maintenance work can be carried out.

MJ-28096
Ultra-high Pressure Water Jet Cleaning Machine



Advantages of Ultra-high Pressure Hydo-Demolition Solution

- The high-pressure water jet concrete demolition process features no dust generation, low vibration and high efficiency, and causes no damage to the original structure at all.
- It basically overcomes the high safety risks existing in traditional manual operation.



High-speed Rail Track Demolition and Repair

The ultra-high-pressure water process is adopted for construction, which will not damage the original structures such as concrete and steel bars. At the same time, the retained part of the concrete has been roughened, resulting in more contact surfaces between the new and old concrete and stronger bonding force. This not only improves construction efficiency and reduces comprehensive costs, but also reduces the waste of social resources.

Industry Applications

Application in the Construction Industry

Construction
Field

Application 1
High-pressure Water Jet Cutting

High-pressure water jet cutting, commonly known as cold cutting, can cut all metal and non-metallic materials. As a cold cutting process, it causes no damage to the physical and mechanical properties as well as the intergranular micro-structure of materials. It features wide applicability and can process extremely thin and soft metallic and non-metallic materials. It is suitable for more than seventy to eighty types of materials and products such as copper, aluminum, plastics, wood and rubber, and can replace cemented carbide slotting cutters. In addition, it enables cutting at any arbitrary angle, and boasts outstanding advantages including no thermal deformation, narrow kerf, high precision, smooth cutting surface and eco-friendliness.



Application 2
Scrape off decayed concrete and remove coatings and other foreign matter

It enables partial removal of concrete without affecting the original structure of concrete facilities. It is widely applied in the widening, reconstruction and maintenance projects of bridges, viaducts and other structures. The treatment ensures higher structural integrity, firmness and safety of the overall structure. By adjusting the pressure and water flow rate, it can also eliminate paint and other attachments on the surface of the treated objects.



Application 3
Construction Equipment Cleaning

Remove contaminants such as asphalt, tar, cement, oil stains and adhesives from vehicles, mixing tanks, asphalt distributors, pavers and asphalt furnaces.



Industry Applications

Cleaning of Chemical and Pharmaceutical Equipment

Chemical Industry

In the chemical and pharmaceutical industries, high-pressure water jets are used to clean and decontaminate heat exchangers, tanks, pipelines, valves, boilers, reactors, evaporators, filters, electrolytic cells and other equipment.It removes dirt, sediments, rubber and latex on inner and outer walls of containers, as well as crude oil residues in coke ovens and scale on turbine blades.With high operational safety, it can replace toxic chemicals for paint stripping, causing no harm to personnel or environmental pollution.

High-pressure water jet cutting is a new cutting method. It can process materials that are difficult or impossible to cut by conventional methods, and is applicable to a wide range of metallic and non-metallic materials. It can also perform abrasive cutting in explosive hazardous areas.



Advantages of Ultra-high Pressure Cleaning

- No damage to the substrate during cleaning, with high and stable cleaning quality and simple operation.
- The unit adopts a three-stage high-efficiency and environmentally friendly diesel engine, which meets industrial emission standards and features higher energy efficiency and environmental performance.
- The unit adopts a modular design for easy maintenance and higher efficiency.Equipped with an IoT interface, the unit facilitates better equipment operation and maintenance.
- Product adaptive development based on actual working conditions.



In the Aluminum Production Process

It can thoroughly and effectively remove extremely hard or thick sediments and scale from products and pipelines, as well as clean bauxite scale deposits inside storage tanks, heat exchangers, tanks, mills, filter screens and sewage pools.



DRO-200L Dredging Robot

The machine features a sturdy and durable structure, crafted from high-quality wear-resistant and anti-corrosion materials with exquisite workmanship and reliable quality. It operates stably in harsh environments such as silt, sand and sewage with a long service life. It delivers high dredging efficiency and powerful power for smooth sludge discharge. It can quickly remove silt, debris and sediments, greatly boost working efficiency, effectively shorten the construction period and reduce the risks of manual down-hole operations.



Industry Applications

Application in the Coal Mining Industry

Energy Industry

Application 1 Coal Seam Water Injection Pump

Coal seam water injection effectively reduces dust generation and dust concentration during coal cutting in production shifts, improves the working environment for personnel, and is an effective way to enhance working face production efficiency. To further improve the dust suppression effect of water injection, we plan to add active wetting agents into the water injection process. This enhances the permeability of water in coal seams, solves the problem that water cannot penetrate into micro-fractures of coal mass, and achieves a better dust suppression effect. It can also effectively reduce gas concentration during coal cutting in production shifts, and meanwhile has a certain effect on outburst elimination.

Application 2 Spray Dust Suppression

It features an advanced dust suppression mechanism and excellent spray dust reduction performance.The high-pressure spray dust suppressor is fixedly installed near the cutting head of the roadheader. The rotating water mist sprayed can constantly surround the cutting head, greatly improving the dust suppression effect. The suppressor is easy to install and does not affect the normal operation of the roadheader after installation. It is equipped with anti-collision and anti-impact performance, ensuring long-term, reliable and stable operation of the dust suppression system. The uniquely designed spiral-tooth high-pressure atomizing nozzle improves dust removal efficiency and effectively solves nozzle blockage problems.A filtering device is installed inside the automatically controlled water tank to keep the flow passages of the high-pressure pump and atomizing nozzles unobstructed.

Application 3 Roof Device

Hydraulic fracturing technology features low dynamic disturbance, high safety and simple management. Its management can follow the specifications for high-pressure pipelines on hydraulic supports. It offers a large control range per single hole with low engineering workload, and enables long-distance deep-hole fracturing as required. With a long effective control distance, it causes basically no damage to supports, provides a favorable working environment, lowers costs, and enjoys a wide range of applications.



Application 4 High-pressure water slotting

The extraction of coal seam gas by hydraulic slotting is a fundamental prevention and control measure to avoid coal mine gas disasters.Hydraulic slotting technology enables the coal mass to relax and release pressure after slotting, fractures the coal body, and increases the permeability of the coal seam several times or more than tenfold. Subsequent gas extraction turns high-gas coal seams into low-gas or gas-free ones, fundamentally eliminating the risk of gas disasters.



Industry Applications

Application in Power Plants and Energy Industry



Specific Applications in Power Plants

Power plant products are mainly used for dredging and cleaning pipelines of steam turbine condensers, high and low pressure heaters, condensers and heat exchangers in power plants. They also serve for the cleaning of boiler fans, ash discharge branch pipes, water walls, flue gas desulfurizers and desulfurization towers, the outer surfaces of tube bundles, boiler heating surfaces, wet flue gas desulfurization systems, air preheaters, economizers and main slag discharge pipelines.



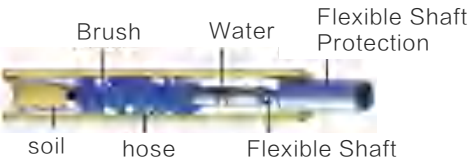
Megajet Industrial High-Pressure Cleaner for Heat Exchanger Pipeline Descaling

Blockage not only affects heat transfer, but may also limit boiler output due to a sharp increase in flue resistance. In addition, accumulated ash and scale raise flue gas resistance and exhaust gas temperature, posing hidden dangers to the safe operation of the boiler. The Megajet on-line flushing device can efficiently and quickly solve the above problems.



Specific Applications in the Energy Industry

It is used to remove scale deposits from material chutes and hoppers, and dredge water pipes and air ducts. It also performs cleaning and descaling for radioactive fouling in nuclear fuel chambers, scale on heat exchangers, superheaters, boilers and evaporators, as well as turbine blades.



Megajet Condenser Rotary Tube Cleaning Machine



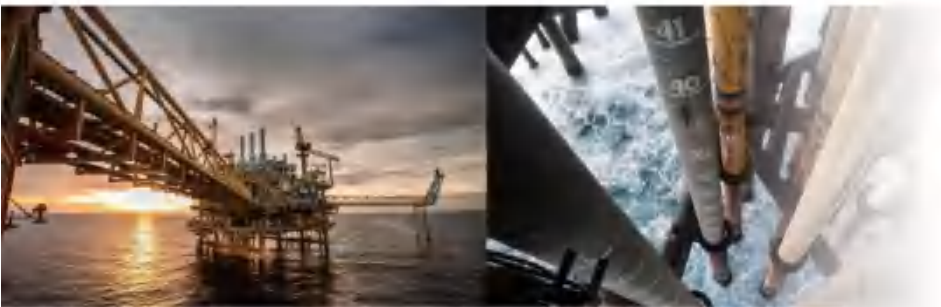
Industry Applications

Application in the Petroleum Industry



Application 1 Equipment Cleaning

In petrochemical production, towers, heat exchangers, storage tanks, reactors and pipelines are prone to fouling such as polymers, coking, oil sludge, scale, sediments and corrosive deposits. Untreated fouling leads to equipment and pipeline failure, lower production efficiency, and higher energy and material consumption. In severe cases, it causes shutdowns, economic losses and even serious safety accidents like explosions. Fouling cannot be completely avoided in actual production, and high-pressure water jet cleaning can solve these problems effectively.



High-pressure Cleaning Equipment

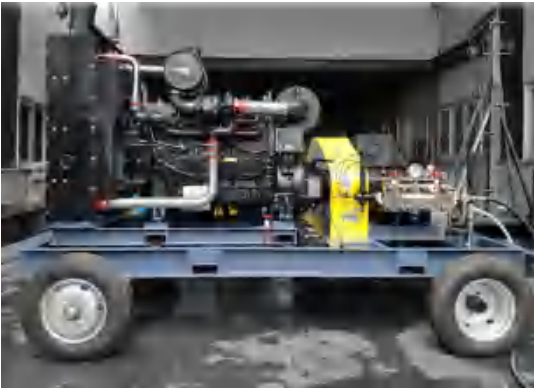
Improve production efficiency rapidly, greatly reduce production costs and cut down labor workload. It provides a reliable guarantee for the continuous growth of enterprise economic benefits.

Application 2 Drilling, Cutting, Wax Removal

- Drill radial horizontal wells
- Abrasive Jet Cutting
- High-pressure water jet assisted/direct rock breaking improves drilling speed
- Near-wellbore zone plugging removal
- Sand flushing, wax removal
- Pulsed jet realizes rotary percussion drilling



High-pressure water jet cleaning machine for oil tank surface cleaning



Industry Applications

Application in Powder Metallurgy

Metallurgy
Field

Scope of Application

In the powder metallurgy industry, high-pressure water jet pulverization technology is used for the preparation of ultrafine powder. It not only boosts efficiency and saves energy consumption, but also guarantees the purity of crushed particles without damaging their original crystal structure.

It is widely applied to the production of spare parts in industries including automobiles, equipment manufacturing, metallurgy, aerospace, military industry, instruments and meters, hardware tools, as well as electronic and home appliances.

In addition, it can remove scale and oxide skin from heat exchangers, boilers, smelting furnaces, dust removal fan blades and other equipment, dredge all kinds of pipelines, perform casting sand removal, and complete paint and rust removal for structural components.

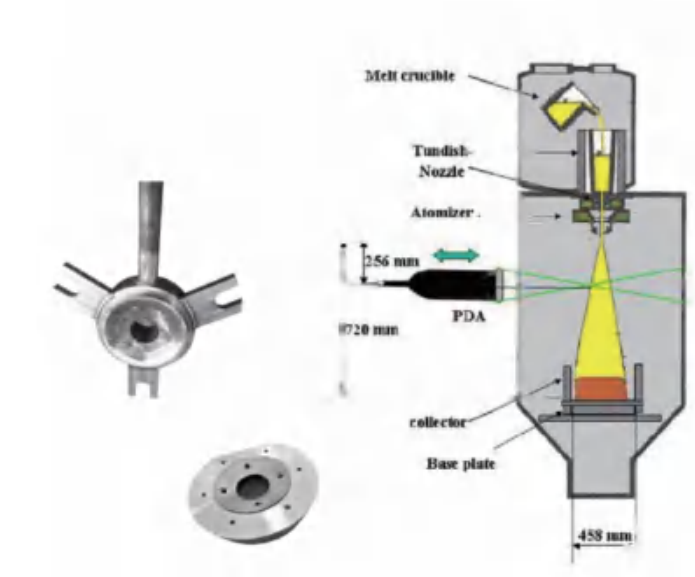


Advantages of Ultra-High Pressure Water Atomization Powder Making

In the traditional process of producing metal powder by high-pressure water atomization, metal powder can be collected continuously, yet a small amount of metal powder is lost along with the atomizing water.

In the process of preparing alloy powder by the high-pressure water atomization method, the atomized products are collected in the atomization device. After sedimentation and filtration — drying can be adopted if necessary, while the material is generally delivered directly to the next process — fine alloy powder is obtained. No alloy powder is lost throughout the entire technological process.

Schematic Diagram of Water Atomization Powder Making & Common Types of Spray Discs



Industry Applications

Application in Machinery Manufacturing Industry

Mechanical
Manufacturing
Sector

Scope of Application

Mechanical processing is carried out under the action of high-pressure water jets (pure water or abrasive-laden), which can perform operations such as cutting, cleaning, polishing, shot blasting, and surface material removal.

In production systems, cleaning work shall not only ensure a thorough cleaning effect, but also guarantee operational safety. All types of contaminants including cutting debris, oil dirt, greasy liquids and emulsions must be removed quickly and efficiently to maintain the continuity and safety of the production process.



In the automobile manufacturing process

It can be used for paint removal and weld cleaning on vehicle bodies, as well as pretreatment for tank, groove and chassis painting.



In mechanical manufacturing

Remove rust layers, scale, welding slag and burrs from pipelines, vessels and tanks.



From surface cleaning to deep cleaning, covering production systems, workshops, warehouses and offices, Megajet can provide you with customized cleaning solutions.

Industry Applications

Application in Food Production

Food Industry

It can be applied to food cutting, conveying, homogenization, cleaning and processing equipment, sterilization, enzyme inactivation and texture improvement.

PREPONDERANCE

- It has a unique protective effect on the nutritional value, color and natural flavor of food.
- Food treated under high pressure can not only prolong the storage time, but also prevent microbial contamination and inactivate harmful proteins in food.
- It features a wide range of applications and can process a great variety of foods. In addition, high-pressure treatment can also be applied to prevent microbial contamination of traditional Chinese medicine and plasma, as well as gelatinization of aged rice.
- Low cleaning cost, high efficiency, time saving, safe operation and environmentally friendly production.



Megajet Service

It provides process and chemical solution services for industries including food processing, slaughtering, starch production, sugar manufacturing, food transportation and semi-finished food production.



Multifunctional CNC Water Jet Cutting Machine



High-pressure Water Jet Cutting System



CUTTING

It can cut various deep-frozen products such as aquatic products, quick-frozen agricultural produce and quick-frozen livestock products.



TRANSPORTATION

Used in food, pharmaceutical and other scenarios requiring high-pressure liquid generation; the conveying medium is fluid free of solid particles.



HOMOGENIZATION

Widely used in the production and research and development of food processing, milk, beverages, pharmaceuticals, dyes, fine chemicals and biotechnology.



CLEANING

High-pressure water jet cleaning can not only remove grease from conveying pipelines, tank kettles, mixing tanks, conveyor belts, evaporators and heat exchangers, but also clean dirt and residues on their surfaces.



STERILIZATION

It improves food safety and extends shelf life, maintains natural color and better taste, while perfectly preserving the nutritional ingredients in food.

Industry Applications

Marine Industry

Application 1 Subsea Pipeline Maintenance

Due to the impact of force majeure and accidental factors, damage to subsea pipelines is inevitable. Coating removal is often required during the maintenance and emergency repair of subsea pipelines, for which high-pressure water jet equipment is adopted for the surface treatment of submarine pipelines.

Application 2 Marine Underwater Cleaning

During offshore operations, marine biological fouling easily adheres to ship hulls. High-pressure water jet technology can be applied for underwater cleaning, which reduces sailing resistance, lowers fuel consumption and maintains the ship's navigation speed.

Application 3 Abrasive Water Jet Underwater Cutting Technology

There are a large number of underwater structures in marine engineering that require cutting. Compared with other cutting methods, abrasive water jets feature good versatility and flexible application, making them suitable for areas difficult for personnel to access. An abrasive water jet is formed by adding abrasives into a high-pressure water jet. When applied to underwater cutting, hydrostatic pressure exerts a significant impact on the performance of the water jet. The mixed abrasive jet delivers abrasives through an independent hose, which avoids clogging of high-pressure water pipes and severe pipeline wear. Therefore, it is applicable to deep-water cutting operations.



Industry Applications

Application of High-pressure Spunlaced Technology in Textiles

Textile Industry

Spunlaced nonwoven fabric is produced by spraying high-pressure water through fine nozzles onto one or more layers of fiber webs. Without the addition of chemical additives, only water is used to entangle the fibers with each other, thereby reinforcing the fiber web and endowing it with certain strength; the resulting fabric is defined as spunlaced nonwoven fabric. It has a wide range of fiber raw material sources, including polyester, nylon, polypropylene, viscose fiber, chitin fiber, microfiber, Tencel, silk, bamboo fiber, wood pulp fiber, alginate fiber and more.



PRINCIPLE

The principle of web reinforcement by the spunlaced method is similar to that of the needling process. Instead of using needles, multiple fine high-pressure water jets generated by a spunlacing machine are sprayed onto the fiber web. After penetrating the fiber web, the water jets rebound from the supporting mesh curtain and pass through the web once again. Under the hydraulic force of high-speed water jets penetrating in multiple directions, the fibers in the web undergo displacement, interlacing, entanglement and bonding, thereby reinforcing the fiber web.

APPLICATIONS of High-pressure Spunlace Nonwovens



Mask



Disposable Diapers
Feminine Hygiene Products



Facial Mask



Cotton Pads, Face Towels



Medical curtain, Surgical gown, Surgical drape, Medical dressing materials, Wound dressing, Medical gauze



Aviation wiping cloth, disposable materials, high-grade wiping cloth for instruments and meters, high-grade wiping cloth for electronics industry, towels



Garment interlining base fabric, Coated base fabric



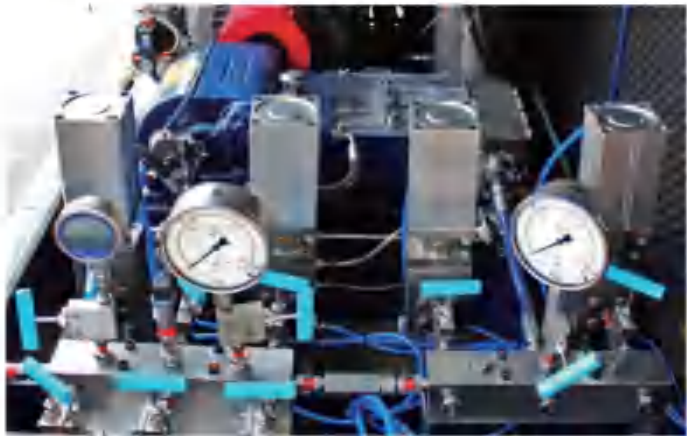
Wet Wipes

Industry Applications

Application in Gas Cylinder Fatigue Testing Machine

Gas Cylinder Pressure Testing

The working principle of the plunger pump gas cylinder fatigue test unit is to use high-pressure water to generate a hydraulic pulse effect inside gas cylinders and steel cylinders, so as to test their pulse fatigue resistance performance. The equipment can also control both ambient temperature and medium temperature. Test results can be automatically saved, and bilingual reports in Chinese and English are generated simultaneously. It supports querying historical curves and data reports, as well as printing output. The high-pressure pressure gauge can be monitored via video surveillance; the system will trigger an abnormal alarm in case of faults, making it suitable for unattended operation scenarios.



Advantages of Plunger Pump Fatigue Testing Machine

- The maximum working pressure reaches up to 280 MPa. It can not only meet the requirements of the most stringent gas cylinder fatigue tests, but also be applied to gas cylinder burst tests, realizing multi-functionality with one machine.
- The medium is water, featuring eco-friendly performance with zero pollution during operation.
- Wear parts can be replaced by users themselves, and the replacement can be completed in just over 10 minutes.
- Pressure and flow can be freely switched by replacing the packing box assembly, which is convenient and efficient.
- Wide temperature range; the equipment supports remote operation and monitoring with no personal safety risks.
- It can realize real-time display of data and waveforms, as well as retrieval of historical data at any node.
- Wear parts feature a long service life, delivering higher cost performance for each replacement.

Industry Applications

Application of High-pressure Water Jet in Aviation Field

Aviation
Field

Application 1 Cleaning or renovation of areas such as airport runways and storage areas

It can remove attachments such as rubber deposits and coatings on roads and runways.

Application 2 Cutting of Metals and Alloy Materials

High-pressure water jet technology can be used for cutting, drilling, strengthening, deburring and other processing operations on aero-engine special structures, difficult-to-machine materials and composite parts, providing an efficient and low-cost processing method for aero-engine manufacturing.

If these materials are processed by mechanical cutting, laser cutting and other conventional methods, heat will be generated, which may cause material damage or deformation and further affect the structural strength of aircraft, rockets and other aerospace vehicles. As a cold cutting method, high-pressure water jet produces no heat during processing, making it highly suitable for cutting such materials.

Application 3 Product Cleaning in the Aviation Industry

With the country attaching increasing importance to safety and environmental protection, energy conservation, consumption reduction, pollution abatement and efficiency improvement have become the common development goals of enterprises. Both internal and external environments compel the company to accelerate the transformation of its cleaning and protection processes. High-pressure water jet cleaning machines make the cleaning process safer, more efficient and environmentally friendly.



Aviation
Field

MEGAJET

High-pressure Cleaning Equipment

Suitable for various working conditions. Optional models are available as required, and we provide a variety of operating equipment for your selection.

APPLICATIONS

- Pre-process for painting and final assembly of missiles and aircraft
- Paint removal for composite molds and special aircraft
- Engine Carbon Deposit Cleaning
- Maintenance and cleaning (especially for landing gear and wheel well areas)
- Paint stripping of aircraft fuselage
- Cleaning and renovation of airport runways, storage areas and other zones



Industry Applications

Application in the Alumina Industry

Alumina
Sector

High-pressure water cleaning is widely used for the cleaning of various water pipelines, heat exchangers, cooling towers and pressure vessels.High-pressure water cleaning was applied to the alumina industry around 2005. With the improvement in the pressure and flow rate of plunger pumps and the optimization of actuators, it has been recognized and adopted by more and more alumina enterprises.



We have long-term experience and solid technical strength in physical cleaning technology, and can provide you with professional sales services and high-quality after-sales support.

PREPONDERANCE

- Professionally used to remove hardened bauxite dust on equipment and clean alumina evaporators, filters, digesters, tanks, reservoirs and sewers.
- High-pressure water cleaning can thoroughly remove various scales and dirt inside pipelines, reducing the occurrence of pipeline blockages.
- Cleaning by high-pressure flushing delivers a faster cleaning speed.
- Secondly, high-pressure water cleaning features excellent safety performance and reduces environmental pollution, making it an ideal cleaning option.



Industry Applications

Application in Landmark Line Removal Operations

Municipal
Sector

The high-pressure water jet road marking removal method is a highly favored cleaning solution in the market. The cleaning machine uses a pressurization system to eject water from the nozzle. The water jet features extremely strong impact and cutting force, which can penetrate into asphalt pores to remove markings without dead angles. Equipped with a pressure regulating control system, it is suitable for road surfaces of any base material, enabling one machine to meet all working conditions. The patented vacuum recovery device instantly recycles the paint mixture generated during operation, completely eliminating the need for secondary cleaning and fully complying with municipal environmental protection requirements. The cleaned road surface is free from any residual marking paint and suffers no damage, while becoming extremely tidy. This equipment delivers remarkable cleaning results for asphalt, cement, road markings, tar, graffiti and more.

PREPONDERANCE

- After the equipment removes road markings, the waste residue and wastewater can be directly recovered by the vacuum recovery system. The recovered waste is treated instantly with no residual moisture, which is safe and environmentally friendly.
- The single pump equipped in the unit adopts advanced American technology, featuring compact structure, small size, light weight and high efficiency, and can support ultra-high pressure up to 280MPa.
- Easy to maintain and operate, with low noise.
- Water tank and recovery tank are integrated into one unit, with size customizable according to vehicle model.



P160 Series Power End Parameters

Maximum Input Power		Connection Type	Plunger	Maximum Input Power	Transmission Ratio	Pump Speed	Lubricating oil for pump	Capacity		Total Weight	
HP	KW	Direct Connection	No.	RPM/MIN	1:3.17	Maximum Speed	Type	GAL	L	LB	KG
160	117		3	1745		550	85W-90	5.8	22	1012	460

*The above data is for reference only and can be customized according to the customer's actual working conditions.

Municipal Sector



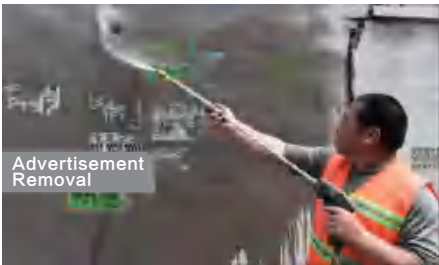
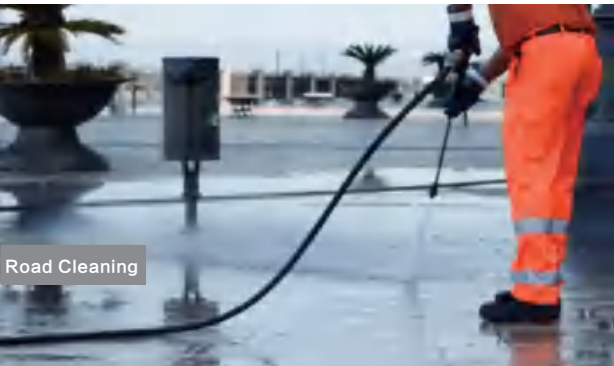
APPLICATION of HP CLEANING

Suitable for protective surface removal operation on various substrates.



The high-pressure water jet road marking removal and recovery system consists of a power unit, vacuum pump, filter, steam-water separator, recovery device, cleaning unit and high-pressure water pump. It features simple operation, high efficiency and zero pollution. During operation, the removed old road markings are automatically recovered without scattering debris everywhere, meanwhile causing no impact on traffic flow.

High-pressure coating removal is a flexible process. It can be used for road cleaning, as well as removing rubber deposits and marking lines on roads, runways and landing strips, together with coatings on road signs, billboards and small advertisements. It is suitable for protective surface stripping operations on a variety of different substrates.



Industry Applications

Municipal Sector

Application of Sewer Dredging Operation

High-pressure water jet dredging operation can effectively clean domestic waste, sludge, sediment, sand, bricks, tree roots, oil dirt and other contaminants and blockages attached to the pipe wall. Integrated complete sets of equipment are adopted, equipped with self-developed or imported nozzles. Dredging is carried out by independently developed reels fitted with imported hoses. Pump units, nozzles and orifices with appropriate flow and pressure are selected according to actual working conditions. Driven by high-pressure water, the nozzles are designed with multi-angle and all-round jet holes to achieve full-coverage flushing of the pipe wall. For hard blockages, impact-type nozzles with matched jet angles and orifice sizes are used to break down obstructions. When the nozzle travels from one end of the pipeline to the other, the reel performs its core function: it reverses via a manual directional valve. While retracting the hose, it brings residual waste back into the recovery tank, from where the waste is pumped out by a sewage suction truck.

PREPONDERANCE of Ultra-high Pressure Sewer Dredging

- Wide application range, high efficiency, short construction period and low cost. It involves no chemical products at all, making the operation more environmentally friendly.
- It can be used for steel plate cutting, casting sand cleaning and metal rust removal. It can also remove cement, sediment, oil, scale and various blockages from the inner walls of pipelines.
- It can effectively protect pipelines from corrosion and damage during operation.
- In actual operation, the water outlet pressure can be adjusted freely according to the pipe material, pipe diameter and pipeline blockage condition to achieve thorough cleaning.
- It effectively solves the problem of manual downhole operation for large pipelines. The whole process is fully mechanized, eliminating potential safety hazards.



WORKFLOW

Dredging > Collection > Sewage Suction > Sedimentation > Drainage > Silt



Municipal
Sector

Pipeline Cleaning Nozzle

Various types of nozzles for you to choose

We offer a wide range of nozzles for selection. Custom orifice patterns are available based on your actual application, working pressure and flow rate requirements.

Made of steel with precision machining, these nozzles are rust-proof and feature excellent wear resistance. They are suitable for pipelines of various specifications and diameters, enabling comprehensive all-round pipeline cleaning operations.



Badger Nozzle for Curved Pipe

This nozzle delivers outstanding cleaning performance in removing debris, dirt, gravel and clay from the bottom of pipes, square trenches and other large pipe networks, far outperforming traditional cleaning nozzles.

Equipped with interchangeable nozzles to match different water pressure and flow rates, its cleaning efficiency can reach over 85%, enabling nearly lossless cleaning operation.

Gopher Nozzle

This nozzle boasts powerful dredging capacity against pipe blockages, sludge, silt and gravel. Equipped with high-strength drill tip and triangular structure, it can penetrate blockages easily. Combined with high-pressure water jet, it quickly breaks up clogs and flushes them away backward. It works exceptionally well for pipes with heavy oil stains and grease deposits.



Banshee Rotating Nozzle

This nozzle is widely applicable for dredging pipes of small and medium diameters. It will not get stuck in pipes during operation. Four sizes of replaceable nozzle heads can be flexibly switched for different working conditions to complete dredging and cleaning work faster, more economically and more efficiently.