

- Increase service life
- Save energy
- Protect resources

We make your system efficient.

High-Pressure Pump Series Servo-Jet4000 Servo-Jet4000 PURE

The probably most energy-saving high-pressure pump in the world.



EFFICIENCY AND SUSTAINABILITY WITH HAPRO TECHNIK PLUS



Efficiency.

High-Pressure Pump Servo-Jet4000

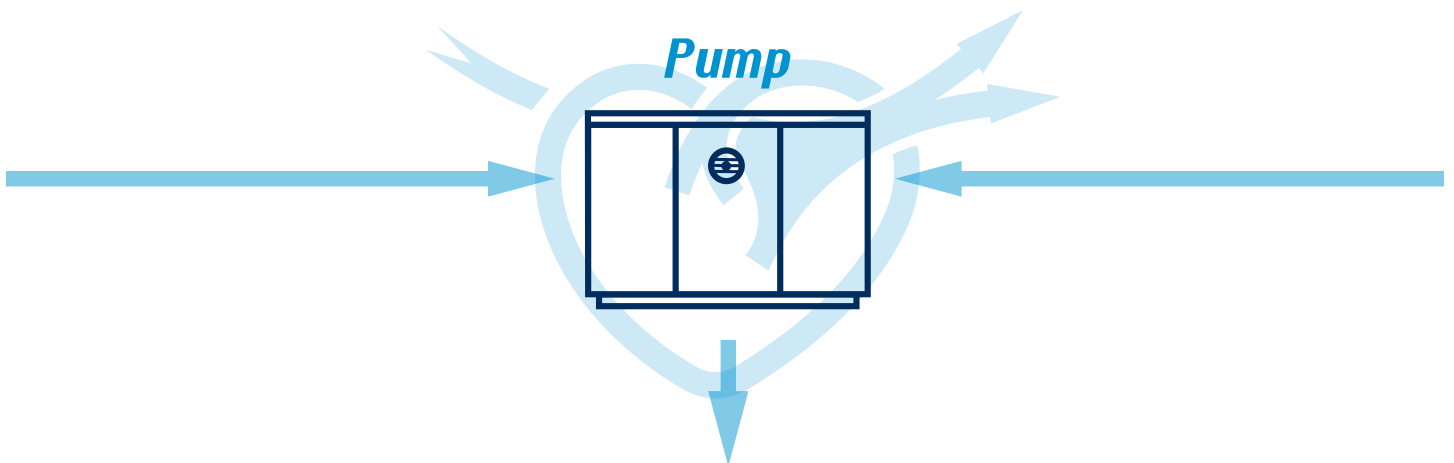
A well-thought-out principle that is very effective.

Compared to a conventional high-pressure pump, the Servo-Jet4000 foregoes ineffective hydraulic systems. A plunger pump with three pistons coupled with a highly efficient Servo direct-drive boosts the overall efficiency to almost 98 %.

At low power consumption (max. 55 kW) there is a large output of (max. 8.4 l/min). This makes it possible to supply several cutting jets at the same time and means the leap into a new, future-oriented efficiency class.

The Servo-Jet4000 replaces the costly 6,000 bar technology – the highest cutting speed in the cutting system is achieved using large water jet nozzles (up to 0.5 mm). Thanks to its efficient drive system the operating costs and energy consumption stay low – this reduces operating costs and enables predictable maintenance.





At the heart of every water jet cutting system is the high-pressure pump: The more efficient the pump, the more efficient the entire system! Servo-Jet4000 provides important benefits:

- Up to 40 % energy savings compared to conventional systems, investment is eligible for grants
- High energy efficiency: Servo direct-drive, no reactive current, low and flexible current consumption
- Low connected load required: No power consumption when the system is at a standstill, suitable for operations with low energy supply
- Plunger pump with three pistons: High power density and high level of efficiency of up to 98 %, replaces 6,000 bar technology, long maintenance intervals, simple structure, no hydraulic system, no warm-up and startup phase – ready to go right away
- Permanent pressure control and integrated pulsation damping: Continual readjustment of the cutting pressure on the set point – lowest pressure fluctuations, higher cutting speed than with the pressure intensifier in a comparable combination
- Lowest noise level of 75 dB: High-quality, complete unit with sound hood
- Can be used in all water jet cutting machines and brands

[Industry 4.0]

Preventive Care:

To boost system availability, we use state-of-the-art technology. The use of selected Hapro Technik Plus products makes it possible to perform maintenance more in line with the needs of the user.

Smart Maintenance:

Due to system networking, we are enabled to query any possible maintenance at your Servo-Jet4000 online. This prevents failures and in addition, we reduce your operating costs.



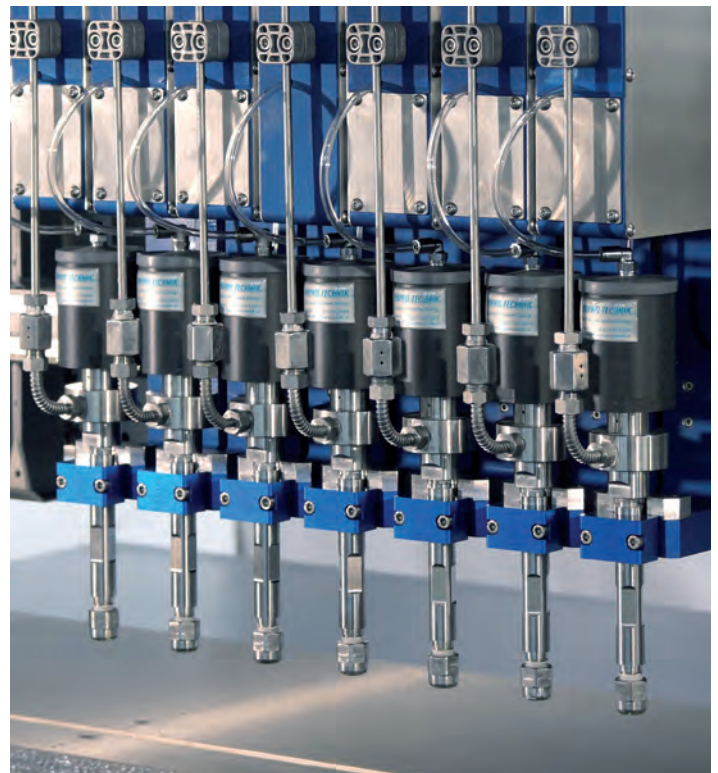
High-Pressure Pump Servo-Jet4000 PURE

Pure Performance – pure Speed – Pure Precision.

The world's first direct-drive plunger pump – especially developed for pure water cutting.

- The innovative technology allows for record-breaking switch cycles of under one second.
- The high-precision pressure control – combined with an accumulator – guarantees a constant water jet and allows for unparalleled cutting speeds.
- The use of quality components promises a long service life and the same for the high-pressure pump.

That is water jet cutting at its finest!



Technical Information

Data

Power consumption, max (kWh)	37
Flow rate, max (l/min)	4,5
Working pressure, max (MPa)	380
Accumulator volume (l)	1
Ambient temperature (°C)	35
Minimum break time (s)*	5

SJ30

37
4,5
380
1
35
5

SJ30-PURE

37
4,5
380
1
35
1

SJ 55

55
8,4
380
1
35
5

SJ 55-PURE

55
8,4
380
1
35
1

Supply lines

Water supply (inch)	1/2"
Water pre-pressure (bar)	3 – 8
Water pre-temperature, max (°C)	15
High-pressure connection	M30 x 2
Compressed air, min/max (bar)	6,0 – 10
Compressed air connection (hose A.D., mm)	8
Supply voltage (V)	400
Frequency (Hz)	50
Current consumption, max (A)	50
Protection type cabinet	IP55

SJ 30

1/2"
3 – 8
15
M30 x 2
6,0 – 10
8
400
50
50
IP55

SJ30-PURE

1/2"
3 – 8
15
M30 x 2
6,0 – 10
8
400
50
50
IP55

SJ 55

1/2"
3 – 8
15
M30 x 2
6,0 – 10
8
400
50
102
IP55

SJ 55-PURE

1/2"
3 – 8
15
M30 x 2
6,0 – 10
8
400
50
102
IP55



Various

Width (mm)	1200
Depth (mm)	2000
Height (mm)	1500
Empty weight (kg)	1500
Noise level, max	75
Colour	grau - blau

SJ30

1200
2000
1500
1500
75
grau - blau

SJ30-PURE

1200
2000
1500
1500
75
grau - blau

SJ 55

1200
2000
1500
1700
75
grau - blau

SJ 55-PURE

1200
2000
1500
1700
75
grau - blau

* Minimum period between open and close of the cutting head valve including piercing time (depending on the design of the cutting head valve)

Convenient Online Ordering



Whether in analogue or digital form

Hapro Technik is your knowledgeable contact for water jet cutting!

Fast and easy

Equipment, high-pressure technology components, Hapro Technik Plus products, service.

In Hapro Technik's new online shop **www.haprotechnik.com** we offer an expedited order process.



Maintenance and Service.

We offer reliable service with sound and knowledgeable advice, professional maintenance, and high-quality parts!

CONTACT



www.haprotechnik.com
service@haprotechnik.com
Tel. 0043 7733 8026

We respond promptly and reliably to your request

SERVICE-HOURS



Mon.–Thurs.
7:00 a.m.–4.15 p.m.
Fri. 7:00– 12:00
Professional maintenance/
repair, knowledgeable techni-
cans, high-quality parts

MAINTENANCE-PACKAGES



Support maintenance,
machine service, choose
from modular maintenance
packages and tailored to
your requirements

HAPRO TECHNIK

We keep your system flowing.

Hapro Technik Ges.m.b.H.
A-4720 Kallham
Parzleithen 8
Tel. +43 (0) 7733 / 8026
Fax +43 (0) 7733 / 7193
office@haprotechnik.com
www.haprotechnik.com

Service-Hotline: +43 (0) 7733-8026 **service@haprotechnik.com**