

# HT SERVO-JET

The Probably Most Energy-saving High-Pressure Pump in the World.

High-Pressure Pump Series

HT SERVO-JET4000

HT SERVO-JET4000 PURE



THIS IS HOW WATER-JET CUTTING WORKS.

# HIGH-PRESSURE PUMP HT SERVO-JET4000

## A Well-Thought-Out Principle That is Very Effective.

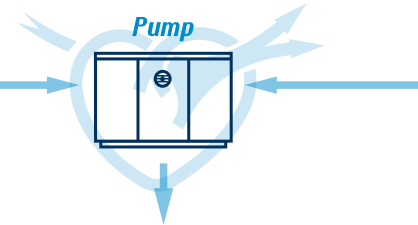
Compared to a conventional high-pressure pump, the Servo-Jet4000 foregoes ineffective hydraulic systems. A plunger pump with three pistons coupled with a highly efficient Servo direct-drive boosts the overall efficiency to almost 98 %.

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.



plus



At the heart of every waterjet 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 waterjet cutting machines and brands

**Up to  
45 %  
funding  
possible!**

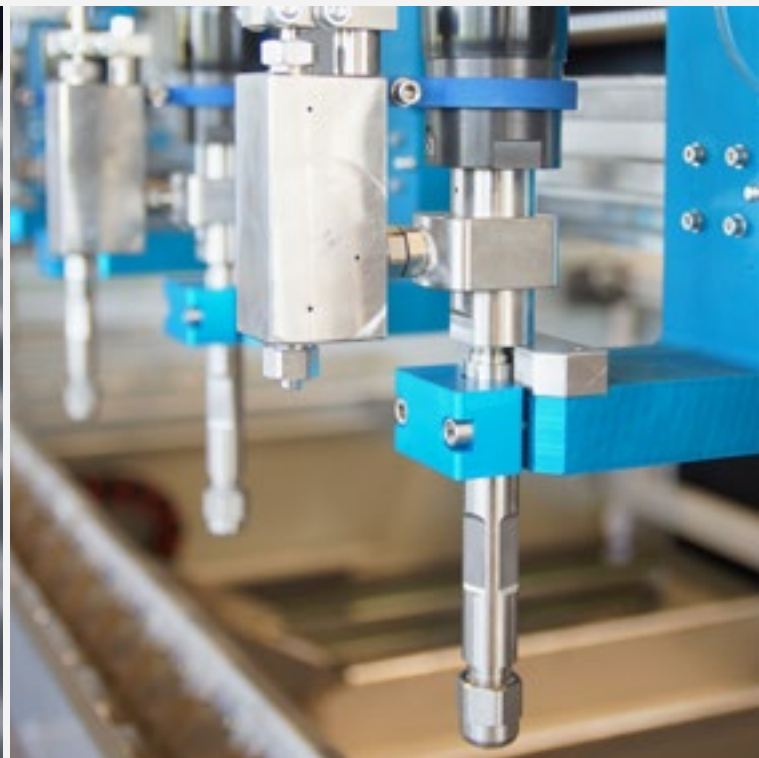
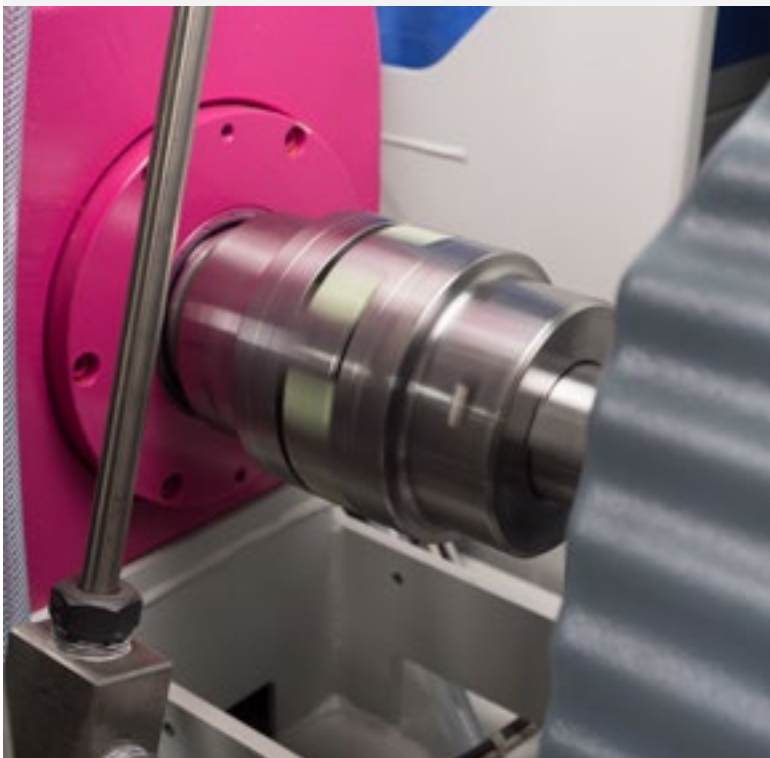
# HT SERVO-JET4000 PURE

**Pure Performance – Pure Speed – Pure Precision.**

The world's first direct-drive plunger pump – 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 waterjet 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

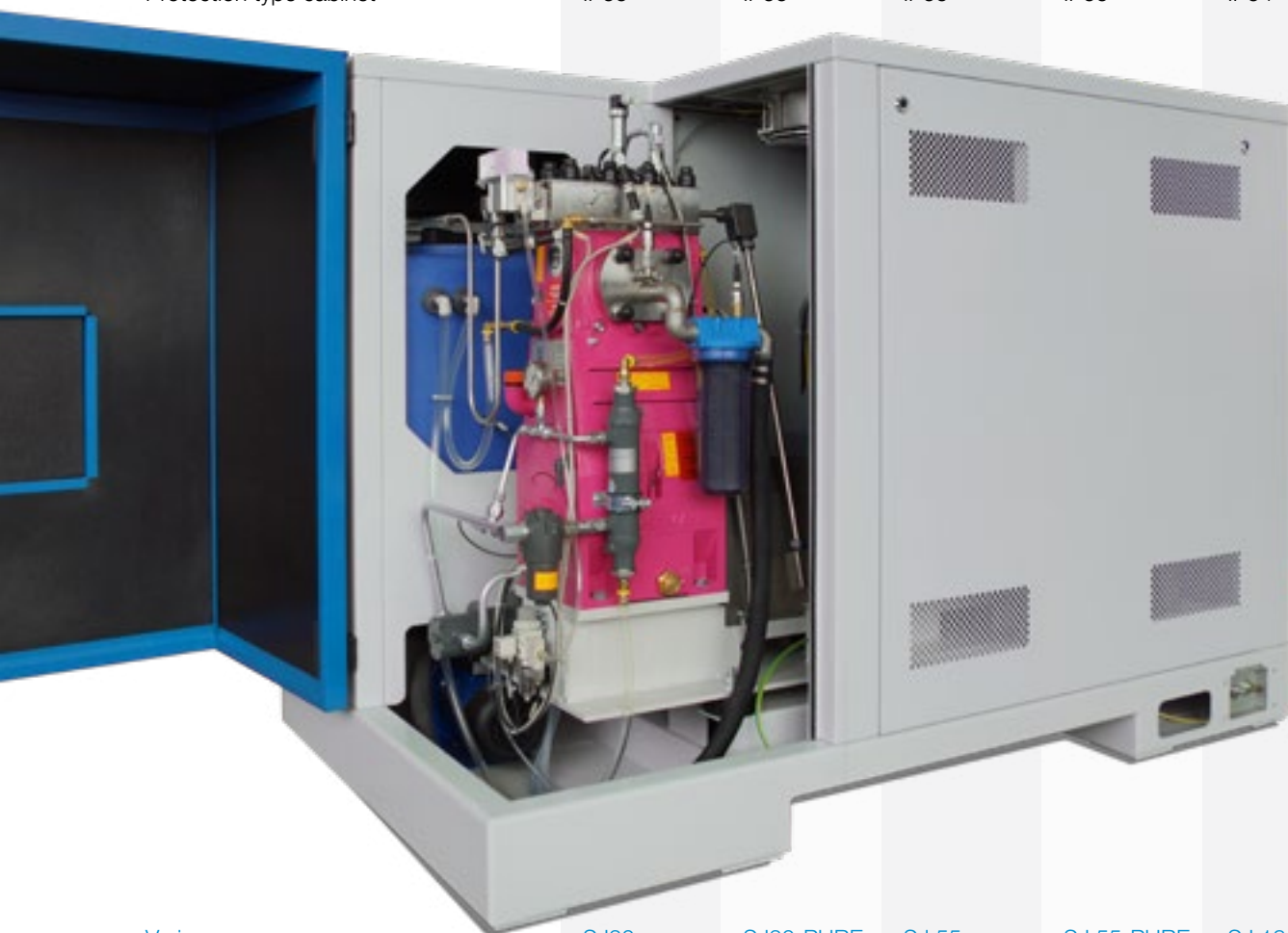
Power consumption, max (kW)  
 Flow rate, max (l/min)  
 Working pressure, max (MPa)  
 Accumulator volume (l)  
 Ambient temperature (°C)  
 Minimum break time (s)\*

SJ 30	SJ30-PURE	SJ 55	SJ 55-PURE	SJ 18
37	37	55	55	25
<b>4.5</b>	<b>4.5</b>	<b>8.4</b>	<b>8.4</b>	<b>2.8</b>
380	380	380	380	380
1	1	1	1	0,6
35	35	35	35	35
<b>5</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>1</b>

## Supply lines

Water supply (inch)  
 Water pre-pressure (bar)  
 Water pre-temperature, max (°C)  
 High-pressure connection  
 Compressed air, min/max (bar)  
 Compr. air connection (hose A.D., mm)  
 Supply voltage (V)  
 Frequency (Hz)  
 Current consumption, max (A)  
 Protection type cabinet

SJ 30	SJ30-PURE	SJ 55	SJ 55-PURE	SJ 18
½"	½"	½"	½"	½"
3 – 8	3 – 8	3 – 8	3 – 8	4 – 8
15	15	15	15	15
M30 x 2	M30 x 2	M30 x 2	M30 x 2	M30 x 2
6.0 – 10	6.0 – 10	6.0 – 10	6.0 – 10	6.0 – 10
8	8	8	8	8
400	400	400	400	400
50	50	50	50	50
50	50	102	102	35
IP55	IP55	IP55	IP55	IP54



## Various

Width (mm)  
 Depth (mm)  
 Height (mm)  
 Empty weight (kg)  
 Noise level, max  
 Colour

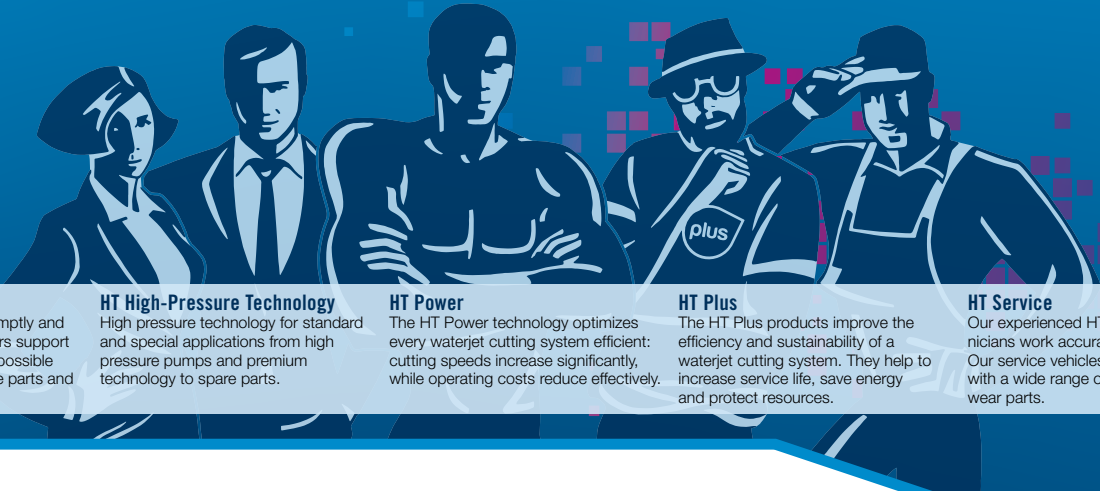
SJ30	SJ30-PURE	SJ 55	SJ 55-PURE	SJ 18
1,200	1,200	1,200	1,200	1,200
2,000	2,000	2,000	2,000	2,000
1,500	1,500	1,500	1,500	1,500
1,500	1,500	1,700	1,700	1,700
75	75	75	75	75
grey - blue	grey - blue	grey - blue	grey - blue	grey - blue

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

# REAL FULL SERVICE – YOUR PROFIT.



The HT Team has established itself as a reliable partner for all WJC users. Consisting of specialists in the fields of service, advice, technology and support, it knows your needs exactly and guarantees full service: the experience and know-how of the HT Team support your workflow and help you to optimize your waterjet cutting system.



## HT Support

The HT Team responds promptly and reliably within 24 hours, offers support and guarantees the fastest possible delivery of high-quality spare parts and wear parts.

## HT High-Pressure Technology

High pressure technology for standard and special applications from high pressure pumps and premium technology to spare parts.

## HT Power

The HT Power technology optimizes every waterjet cutting system efficient: cutting speeds increase significantly, while operating costs reduce effectively.

## HT Plus

The HT Plus products improve the efficiency and sustainability of a waterjet cutting system. They help to increase service life, save energy and protect resources.

## HT Service

Our experienced HT Service technicians work accurately and reliably. Our service vehicles are equipped with a wide range of spare parts and wear parts.

## HT – SERVICE AND MAINTENANCE.

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

### Telephone support

Repairs

System optimisation

Machine relocation

Spare parts service

Maintenance

Maintenance contracts

Training

Retrofit

Used systems

### Contact

[www.haprotechnik.com](http://www.haprotechnik.com)

[service@haprotechnik.com](mailto:service@haprotechnik.com)

**Service-Hotline:** + 43 7733 8026



We respond promptly and reliably to your request

### Service Hours

Mon. – Thurs. 7:00 a.m. – 6:00 p.m.

Fri. 7:00 – 2:00 p.m.

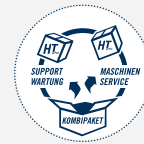


Professional maintenance and repair, knowledgeable technicians, high-quality parts

### Maintenance-Packages

Support maintenance

Machine service



Choose from modular maintenance packages, tailored to your requirements.

**HT HAPRO TECHNIK**  
Premium Technology for Waterjet Cutting.

**Hapro Technik Ges.m.b.H.**

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