HIGH-PRESSURE PUMP SERIES

HAPRO TECHNIK plus
We Make Your System Efficient.

# HT SERVO-JET
# HT SERVO-JET PURE

**THE HIGH-PRESSURE PUMP WITH THE WORLD'S BEST ENERGY SAVINGS.**




AUSTRIA

**THIS IS HOW WATERJET-CUTTING WORKS.**






# HIGH PRESSURE PUMP HT SERVO-JET4000

## A WELL-THOUGHT-OUT PRINCIPLE WITH A BIG IMPACT.

Unlike conventional high-pressure pumps, the **HT SERVO-JET4000** uses no ineffective hydraulics. A triplex plunger pump coupled with a highly efficient direct servo drive raises the overall level of efficiency to nearly 98%.

With maximum power consumption of 55 kW and output of 8.4 l/min, it supplies multiple cutting jets simultaneously and opens up a new class of efficiency.

Our patented drive technology supersedes the cost-intensive 6,000-bar technology.
Large water jets up to 0.5 mm allow top cutting speeds with low operating and energy costs.
The HT Servo-Jet4000 is universal and can be used for all brands of water jet cutting system.



plus

High-pressure pumps are the heart of every waterjet cutting system.
The more efficient the pump, the more efficient the entire system!



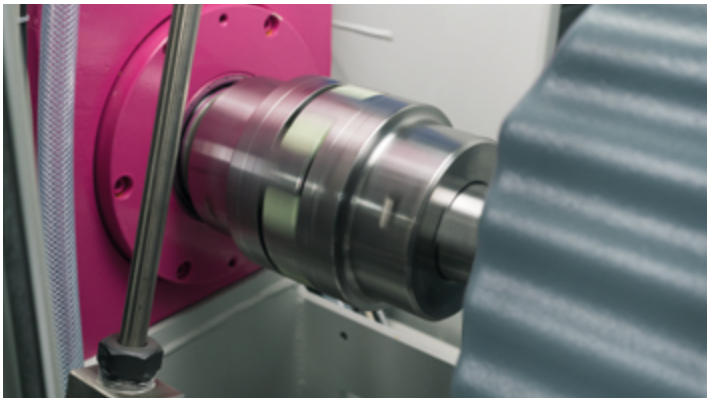
## ADVANTAGES OF THE HT SERVO-JET

+ Up to 40% energy saving compared with conventional systems
+ High energy efficiency from direct servo drive: no idle current and low, flexible power consumption
+ Low connected load: no energy consumption when the system is stopped, ideal if the energy supply is limited
+ Triplex plunger pump: high litre capacity, up to 98% efficiency, supersedes the 6,000-bar technology, low-maintenance, no hydraulic system, immediately ready for use
+ Continuous pressure regulation with integrated pulsation damping: constant cutting pressure with no fluctuations, higher cutting speed
+ Minimal noise level at 75dB with sound-insulated complete unit
+ Universal for all water jet cutting systems and brands

# HT SERVO-JET4000 PURE

**PURE PERFORMANCE. PURE SPEED. PUR PRECISION.**

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



Record-breaking operating cycles of under one second and high-precision pressure regulation with a pressure tank ensure a constant water jet and maximum cutting speeds.

High-quality components guarantee a long service life and durability of the high-pressure pumps.

**THIS IS PURE WATER JET CUTTING.**

## ADVANTAGES OF THE HT SERVO-JET4000 PURE

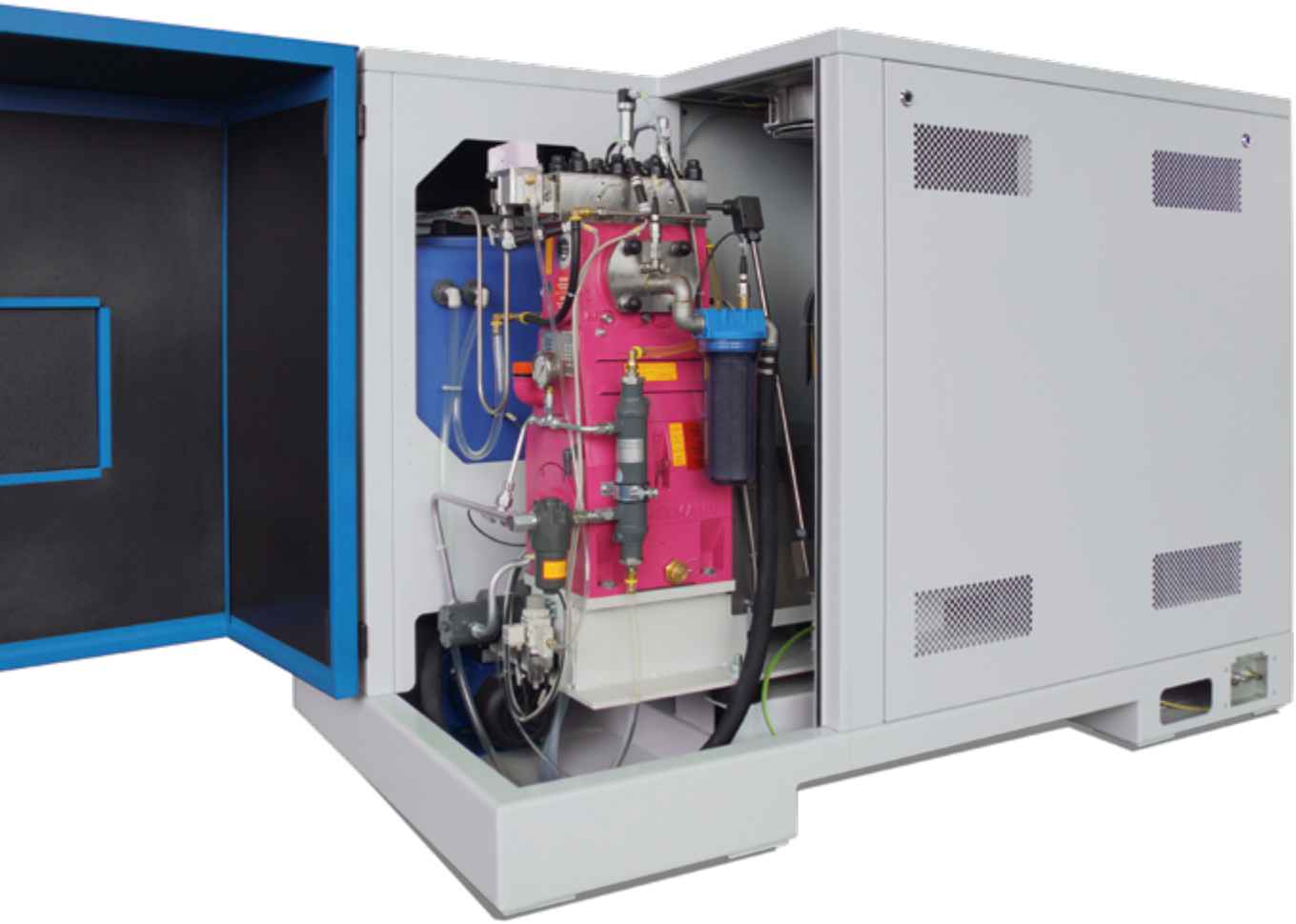
+ Developed for pure water cutting
+ Switch cycles of under one second
+ High-precision pressure control
+ Allows for unparalleled cutting speeds
+ Easy connection to all WJC systems
+ Quick shoots possible



**TECHNICAL INFORMATION:**

| **DATA** | **SJ 30** | **SJ30-PURE** | **SJ 55** | **SJ 55-PURE** | **SJ 18** |
|---|---|---|---|---|---|
| Power consumption, max (kW) | 37 | 37 | 55 | 55 | 25 |
| Flow rate, max (l/min) | **4.5** | **4.5** | **8.4** | **8.4** | **2.8** |
| Working pressure, max (MPa) | 380 | 380 | 380 | 380 | 380 |
| Accumulator volume (l) | 1 | 1 | 1 | 1 | 0,6 |
| Ambient temperature (°C) | 35 | 35 | 35 | 35 | 35 |
| Minimum break time (s)* | **5** | **1** | **5** | **1** | **1** |

| **SUPPLY LINES** | **SJ 30** | **SJ30-PURE** | **SJ 55** | **SJ 55-PURE** | **SJ 18** |
|---|---|---|---|---|---|
| Water supply (inch) | ½" | ½" | ½" | ½" | ½" |
| Water pre-pressure (bar) | 3 – 8 | 3 – 8 | 3 – 8 | 3 – 8 | 4 – 8 |
| Water pre-temperature, max (°C) | 15 | 15 | 15 | 15 | 15 |
| High-pressure connection | M30 x 2 | M30 x 2 | M30 x 2 | M30 x 2 | M30 x 2 |
| Compressed air, min/max (bar) | 6.0 – 10 | 6.0 – 10 | 6.0 – 10 | 6.0 – 10 | 6.0 – 10 |
| Compr. air connection (hose A.D., mm) | 8 | 8 | 8 | 8 | 8 |
| Supply voltage (V) | 400 | 400 | 400 | 400 | 400 |
| Frequency (Hz) | 50 | 50 | 50 | 50 | 50 |
| Current consumption, max (A) | 50 | 50 | 102 | 102 | 35 |
| Protection type cabinet | IP55 | IP55 | IP55 | IP55 | IP54 |



| **VARIOUS** | **SJ30** | **SJ30-PURE** | **SJ 55** | **SJ 55-PURE** | **SJ 18** |
|---|---|---|---|---|---|
| Width (mm) | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Depth (mm) | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| Height (mm) | 1,500 | 1,500 | 1,500 | 1,500 | 1,500 |
| Empty weight (kg) | 1,500 | 1,500 | 1,700 | 1,700 | 1,700 |
| Noise level, max | 75 | 75 | 75 | 75 | 75 |
| Colour | 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 is a reliable partner for all WJC users. With their experience and know-how, our service, advice, technology and support specialists help you to optimise your water jet cutting system.

**HT HIGH-PRESSURE TECHNOLOGY**
For all applications, from high-pressure pumps through premium technology to spare parts.

**HT POWER**
This technology is an effective way to optimise any waterjet cutter: higher cutting speed, lower operating costs.

**HT PLUS**
HT Plus products for greater efficiency and sustainability – longer service life, and lower consumption of energy and resources.

**HT SUPPORT**
Within 24 hours: competent support, as well as fast, reliable delivery of spare parts and consumables.



**HT SERVICE**
Reliable and precise. Spare parts and consumables are always included.




## HT SERVICE AND MAINTENANCE

We provide you with reliable support through sound, expert advice, professional maintenance and high-quality parts!

HT HAPRO TECHNIK
*Premium Technology for Waterjet Cutting.*

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