

Industrial Solutions

High Pressure Pumps
for
Waterjet Cutting



thyssenkrupp



High Pressure Technology for the Most Stringent Demands

Uhde High Pressure Technologies (Uhde HPT) is one of the leading companies in industrial high pressure technology with the clear claim to market leadership providing engineered solutions in high pressure.

Since the founding of the company, we have been developing and building high pressure systems for the most stringent demands. With innovative applications, processes and components, we are treading new paths in high pressure technology time and again.

Our customers appreciate the high quality of our products and services and their constant refinement – at both national and international levels.

Wide range of models

The HPS/HPD series offers a suitable pump for every customer - from 7,5 kW at 0,8 l/min to 75 kW at 7,6 l/min (4000 bar) and from 45 kW at 3 l/min to 90 kW at 6 l/min (6000 bar).

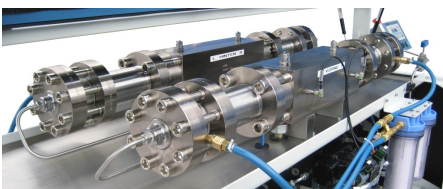
Thanks to the special Uhde Common-Rail system higher power and flow rates are possible.

Additional equipment versions BASIC and OEM

Exclusively for industrial system partners Uhde HPT has extended the HPS/HPD pump series range to include the customer-oriented and

Spare parts available all over the world

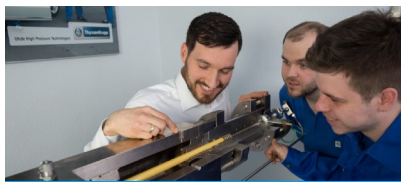
With the extensive ThyssenKrupp network and many Service Partners all around the world we can provide you with high quality spare parts in a very short time.



Competence through experience

For more than 40 years Uhde HPT is one of the leading companies for Waterjet applications. By using proven technology in the range of 4,000 bar and 6,000 bar, but also with continuous improvement we achieve :

- higher cutting depth
- lower operating costs
- maintenance-friendly machines
- higher machine availability



Customer Service

Waterjet Cutting Systems demand high quality Service and professional technical support.

Uhde High Pressure Technologies offers:

- installation, commissioning and training
- repair and/or complete overhaul
- customized solutions (e.g. piping)
- 24h customer support



Support over the complete lifecycle

We are there for you over the complete lifecycle of our machines with high quality spare parts and our know-how to continuously improve existing machines:

In cooperation with our partners we guarantee:

- lifelong availability of spare parts
- complete solutions out of one hand
- high quality accessories
- and much more...



Industrial Solutions
Process Technologies

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HP pulsation damper

The new pulsation damper developed by FEM-method is exclusively metallically sealed and completely maintenance-free. Tested by TÜV it fulfils all requirements of the Pressure Equipment Directive PED 97/23/EC.

Automatic HP relief system

A reliable, robust HP relief system allows very rapid pressure reduction during the cutting process (e.g. when drilling sensitive materials) or complete relief of the whole high-pressure system.

Safety

Uhde High Pressure Technologies designs high pressure pumps to the strictest international standards and best engineering knowledge. After the assembly all pumps are thoroughly tested and certified on-site by TÜV. Material certificates for the HP components will be handed out to the customer.

HP Pumps *Made in Germany*

The HP pumps are manufactured in our factory in Hagen according to ISO 9001: 2008. The new pump assembly line and a large parts warehouse allow smooth assembly and therefore short delivery times. Our know-how in high pressure technology in conjunction with well-proven brand hydraulic components (Bosch-Rexroth, Parker, Hydac, Olaer and others) ensure high-quality HP pumps with high availability.

Description	Unit	HPS 4008	HPS 4011	HPS 4022	HPS 4037 HPD 4037	HPD 4055	HPD 4075	HPS 6045	HPS 6090
MAIN DATA									
Main motor power (400V, 50 Hz)	kW	7,5	11	22	37	55	75	45	90
Max. flow rate	l/min	0,8	1,2	2,3	3,8	5,7	7,6	2,8	6
Operating pressure	bar	400 - 3,800	400 - 3,800	400 - 3,800	400 - 3,800	400 - 3,800	400 - 3,800	500-6000	500-6000
Max. operating pressure	bar	4,000	4,000	4,000	4,000	4,000	4,000	6000	6000
Number of HP-units		1	1	1	1*	2	2	1*	2
Double strokes, max.	1/min	8	12	24	39	2x30	2x39	28	2 x 32
Oil /air heat exchanger		o	o	o	o	o	o	o	o
Pulsation damper volume	l	0,6	0,6	2	2	2	2	2	2
Oil tank volume	l	100	100	100	200	200	200	200	200
Max. sound level	dB (A)								
Standard		≤ 75	≤ 75	≤ 75	≤ 75	≤ 75	≤ 75	≤ 75	≤ 75
OEM / Basic Version		≤ 90	≤ 90	≤ 90	≤ 90	≤ 90	≤ 90	≤ 90	≤ 90
Automatic HP relief system		•	•	•	•	•	•	•	•
Suction water pressure	bar	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7	4 - 7
DIMENSIONS									
Length	mm								
Standard		2,300	2,300	2,300	2,300	2,300	2,650	2,650	2,650
OEM / Basic Version		2,000	2,000	2,000	2,000	2,000	2,350	2,350	2,350
Width	mm	760	760	760	1,050	1,050	1,200	1,200	1,200
Height	mm								
Standard / OEM Version		1,410	1,410	1,410	1,470	1,470	1,470	1,470	1,470
Basic Version		1,280	1,280	1,280	1,360	1,360	1,360	1,410	1,410
Total weight **	kg								
Standard		920	990	1,055	1,520	2,025	2,195	1,840	2,625
OEM Version		865	935	1,000	1,445	1,925	2,095	1,765	2,525
Basic Version		760	830	895	1,345	1,825	1,995	1,665	2,425

* = Stand-By HP-unit possible ** = without oil and optional accessories • = standard o = optional