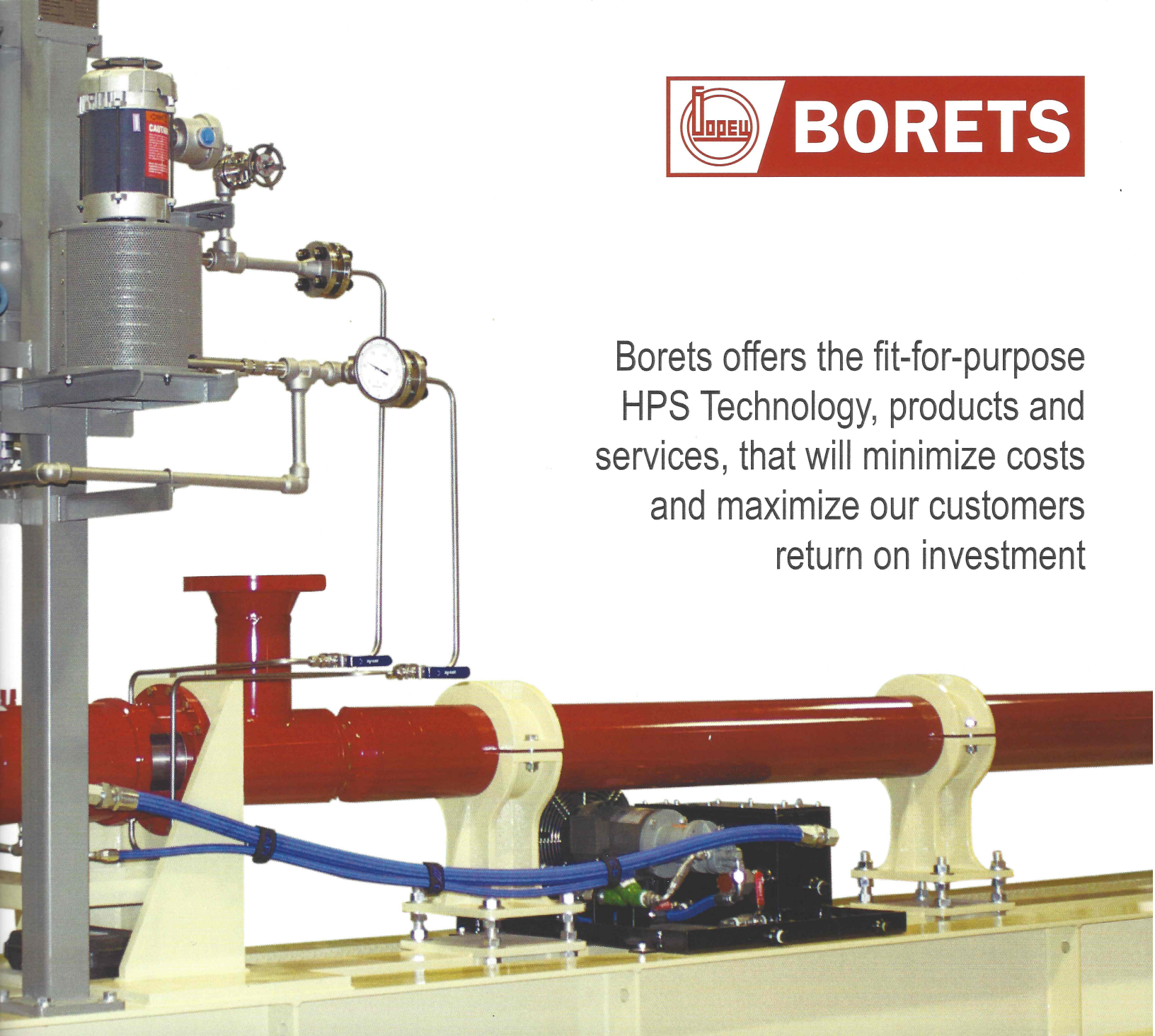




Borets offers the fit-for-purpose HPS Technology, products and services, that will minimize costs and maximize our customers return on investment



# Horizontal Pumping Systems



# Borets HPS Global Product Line

## The Industry Leader in Horizontal Pumping System (HPS)

Borets engineers, designs and fabricates innovative horizontal pumping systems (HPS) to provide specific solutions to a wide range of fluid movement applications. We offer greater flexibility for your pumping needs, we take added measures to provide the following:

**24 hour technical field service**

**Maintenance programs for all HPS units and components**

**Maximized use of surplus inventory**

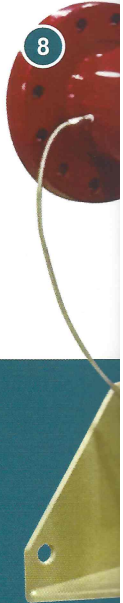
**Site-ready delivery of all units**

### HPS GPL Key Features

- Client focused designs
- Standard BPO (Back Pull Out) design
- Adaptable HPS bench
- Multistage pumps
- Flowrates to 1,350 gpm (46,250 bpd)
- Minimal system maintenance
- Minimal noise & vibration

### Applications

- Produced water injection/disposal
- Pipeline boosting
- Mine dewatering
- Process fluid transfer
- Water transfer
- Crude oil transfer/boosting
- Jet pumping
- Lean amine pumping
- NGLs





**1 Rigid Skid Structure**

Most rigid designed skid in the industry  
All skids are engineered and custom built as per application  
All lifting points are built into the skid

**2 Motor**

100-1,500 hp motors 2-pole electric 3600 rpm  
Options include: TEFC, WPII, sleeve or ball bearing  
Special features: bearing winding RTDs and space heaters

**3 Balanced Twin Disc Spacer Coupling**

Eliminates vibration  
Zero maintenance required  
Easy removal of spacer for service of equipment

**4 Thrust Chamber**

Modular load design  
Longest industry run lives  
Back pull out for quick seal changes  
Minimal maintenance required

**5 Mechanical Seal**

Standard single bellow seals type 2  
Available in single and dual cartridge seals  
Flush plans as per customer application/request

**6 Intake Flange**

Solid constructed machined intake - standard 316 SS - 150 - 900 ANSI RF  
Alternative materials and class sizes available for pressure up to 3,000 psi  
Accommodates all seal applications

**7 Pump**

Standard flow offering of 1,050-46,000 bpd (170-7,350 m<sup>3</sup>/d)  
Pump diameters range 4" - 9.50"  
Standard tungsten carbide bearing and sleeves for abrasion wear  
Material: standard Type 1 Ni-Resist  
Other: alternate materials available upon request

**8 Discharge Flange**

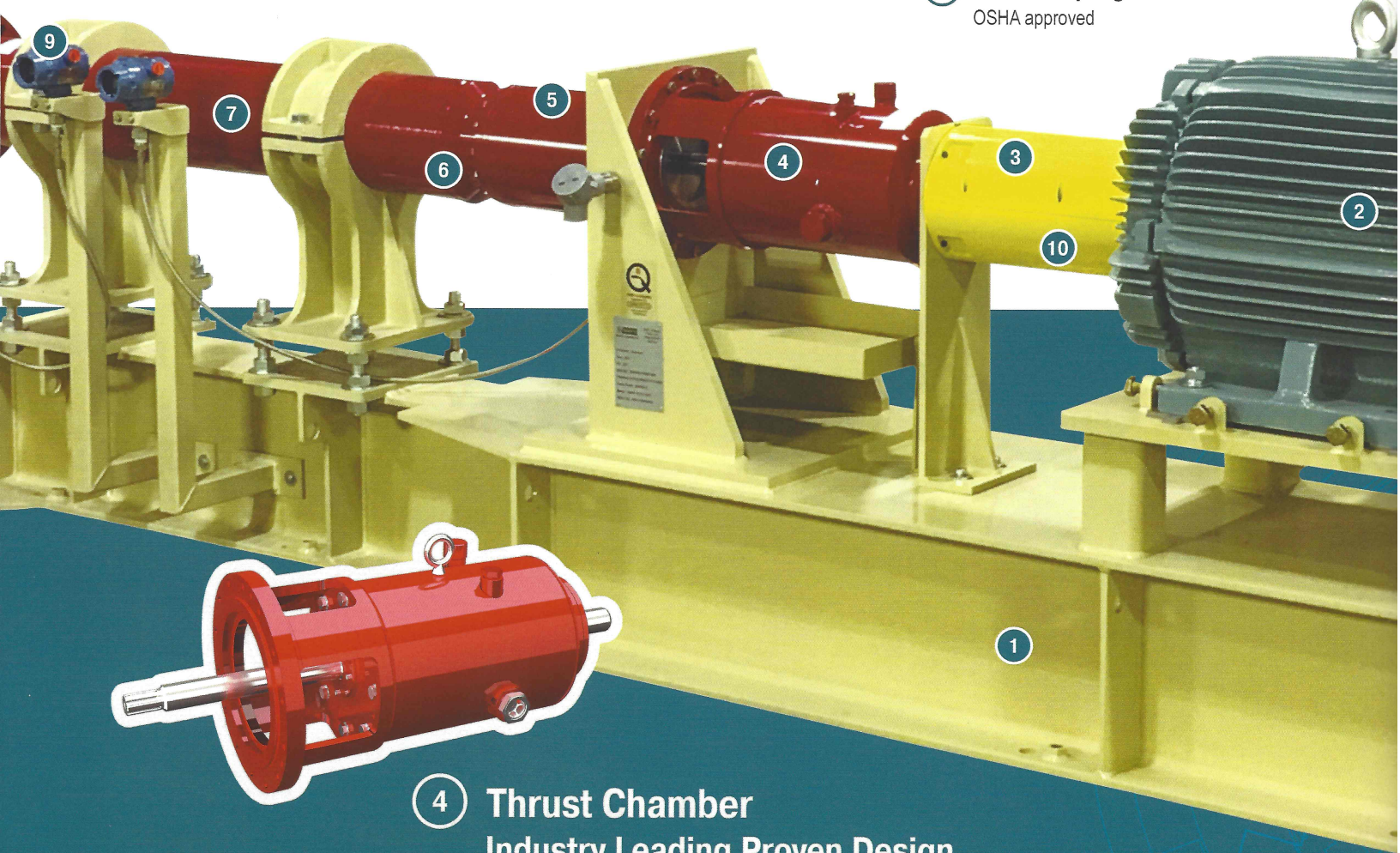
Standard 316 SS from 300-2500 ANSI RF or RTJ  
Other: alternate materials available upon request

**9 Instrumentation**

Standard offering is the intake & discharge pressure transmitters as well as vibration transmitters  
All units come with CSA/UL certification available in Class 1 Div 2 and explosion proof

**10 Motor Coupling Guard**

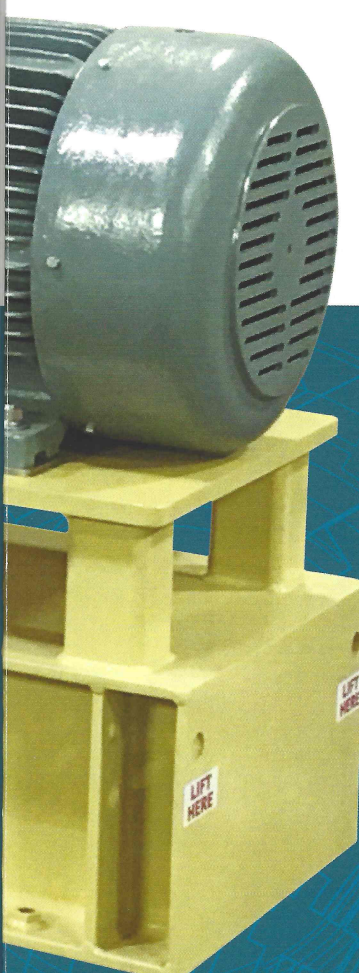
OSHA approved



**4 Thrust Chamber**  
Industry Leading Proven Design



# Specifications

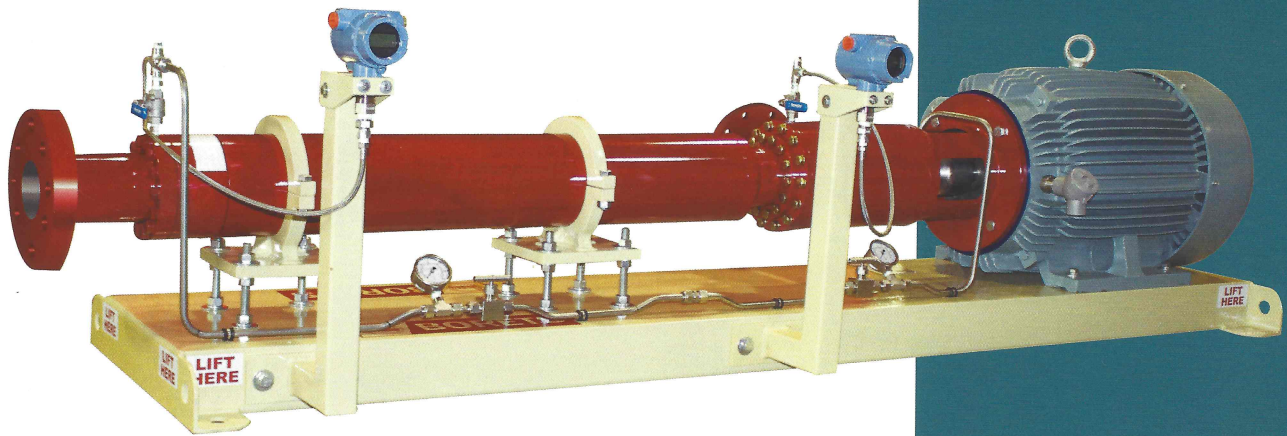


Housing OD in. (mm)	Pump	Shaft rating * standard hp (kW)	Shaft rating * high-strength hp (kW)	Recommended operating range			Maximum discharge pressure psi (bar / kPa)
				50 Hz - 2,917 rpm	60 Hz - 3,500 rpm		
				m <sup>3</sup> /d	bpd	gpm	
<b>400 Series</b>							
4.00 (101.6)	400-180	88 (55)	169 (105)	10 - 40	75 - 300	2 - 9	6,000 (414 / 41,368)
	400-350			27 - 56	203 - 320	6 - 9	
	400-500	122 (76)	230 (143)	43 - 83	325 - 625	9 - 18	
	400-700	88 (56)	169 (106)	66 - 119	500 - 900	15 - 26	
	400-950			86 - 159	650 - 1,200	19 - 35	
	400-1250	122 (76)	230 (143)	106 - 212	800 - 1,600	24 - 46	
	400-1750			159 - 272	1,200 - 2,050	35 - 59	
	400-2200			199 - 351	1,550 - 2,650	45 - 77	
	400-3000			278 - 516	2,100 - 3,900	62 - 113	
	400-4500	159 (122)	485 (301)	397 - 715	3,000 - 5,400	88 - 157	
400-5800	563 - 994			4,250 - 7,500	124 - 219		
<b>538 Series</b>							
5.38 (136.7)	538-1900	159 (122)	485 (301)	139 - 305	1,050 - 2,300	31 - 67	6,000 (414 / 41,368)
	538-2600			212 - 424	1,600 - 3,200	47 - 93	
	538-3600			318 - 609	2,400 - 4,600	70 - 134	
	538-5000	380 (236)	725 (451)	490 - 842	3,700 - 6,350	108 - 185	
	538-7000			660 - 1,325	5,000 - 10,000	146 - 291	
<b>675 Series</b>							
6.75 (171.5)	675-6500	380 (236)	725 (451)	530 - 1,060	4,000 - 8,000	117 - 233	3,600 (248 / 24,821)
	675-9000	645 (401)	1,230 (765)	662 - 1,722	5,000 - 13,000	146 - 379	
	675-12500			994 - 2,120	7,500 - 16,000	219 - 467	
	675-16000			1,458 - 2,253	11,000 - 17,000	321 - 495	
<b>862 Series</b>							
8.62 (218.9)	862-18000	985 (612)	1,885 (1,172)	1,590 - 3,114	12,000 - 23,500	350 - 685	3,600 (248 / 24,821)
	862-25000			2,518 - 4,305	19,000 - 32,500	555 - 947	
<b>950 Series</b>							
9.50 (241.3)	950-1050	1,275 (793)	2,400 (1,492)	3,640 - 6,128	27,500 - 46,250	350 - 685	2,400 (207 / 16,547)
<b>1050 Series</b>							
10.50 (266.7)	1050-1500	1,275 (793)	2,400 (1,492)	5,035 - 8,080	38,000 - 61,000	1,109 - 1,779	2,400 (207 / 16,547)

\*Shaft rating: kW @ 50 Hz; hp @ 60 Hz







## Patented Low Pro Mini HPS

The best solution for small applications with zero maintenance

### Features

- Motor is direct coupled to pump
- Up to 7,000 bpd and 1,000 psi discharge pressure
- 75 hp max power rating
- Pump thrust load is carried by the motor bearing
- Standard single or dual cartridge seals
- Standard Intake 3" or 4" 150 ANSI 316 SS
- Standard instrumentation mounted on the skid including: suction & discharge transmitters, vibration transmitter
- All CSA/UL and Class 1 Div 2 or Explosion Proof

### Benefits

- Thrust chamberless system
- Maintenance free
- Economical low profile solution
- Quick delivery





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