MAXUM OH1
Heavy-Duty, Horizontal End-Suction Pump
Designed as a foot-mounted version of our API centerline-mounted Maxum OH2, the Maxum OH1 is an industry workhorse. The Maxum OH1 can be motor, engine, or turbine-driven and is ideal for water, hydrocarbons, caustic and acid applications. With hydraulic performance to 11,000 GPM and 720 feet of head, this pump family is available in carbon steel, 12% chrome, 316L and duplex stainless steel, according to standard API material codes. In addition to these, higher alloys such as Alloy 20, Hastelloy B or C, Monel and titanium are also available.

As standard, these units come with oil-lubricated bearings with labyrinth isolators, and connections for temperature probes. Common options include various cartridge seals and API piping systems. Flanged or NPT auxiliary connections, cooling jackets, spacer couplings, and various levels of performance testing are also available, depending on users’ requirements. Available heavy-duty baseplates result in maximum flange loadings that meet or exceed the requirements of API 610. With some of the most efficient hydraulics in the industry, the Maxum offers the reliability, low lifetime cost, and lasting value that have made Carver one of the most trusted names in pumps.
1 CONNECTIONS
Class 300 ANSI flanges with centerline discharge assist in self-venting

2 WEAR RINGS
Replaceable casing and backhead wear rings maintain efficiency and balanced axial loads

3 CASING
Back pull-out design with registered fits and fully-confined gaskets assure sealing and alignment of critical fits. Casing drains included as standard. Centerline mount options available

4 IMPELLERS
Enclosed, high-efficiency impellers balanced to ISO 1940, Grade G2.5 for vibration-free operation. All impellers are keyed to shaft

5 API 610 SEAL CHAMBER
Provides an ideal seal environment for both single/dual, pressurized/unpressurized cartridge mechanical seals. A full range of API 682 piping plans is also available, to maximize seal life

6 BEARING FRAME
Heavy-duty bearing housing with cooling fins. Fan and labyrinth seals keep oil clean and cool, for greater bearing life

7 BEARING LUBRICATION
Oil-lubricated bearings with standard flooded or optional flinger lubrication. Conversion to purge oil mist or pure oil mist is possible without additional machining

8 COOLING FAN
Allows ambient temperatures to 100°F and fluid temperatures to 600°F in centerline mount configuration. The cooling fan also extends bearing life

9 SHAFTS
Minimal shaft deflection extends mechanical seal and wear ring life
**WHY A MAXUM OH1?**

- Combined bearing life exceeds 25,000 hours.
- Shaft design dramatically reduces deflection, thereby increasing seal life and reducing vibration when operating away from best efficiency point.
- Oil mist lubrication available as a pre-engineered option.
- Heavy-duty baseplate designed for operation without deflection, excessive vibration or resonance.

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**HYDRAULICS**

- Flows to 11,000 US GPM (2,498 m³/hr)
- Heads to 720 feet (220 m)
- Efficiencies to 88%
- Power to 900 HP (670 KW)
- Temperatures to 300° F (149° C)
- Speeds to 3,550 RPM

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**APPLICATIONS**

- Desalination/Municipal
- Industrial
- Minerals & Mining
- Oil & Gas
- Petrochemical
- Power Generation
- Acid Leaching Processes

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**MATERIALS OF CONSTRUCTION**

- Commonly Used Materials: WCB Carbon Steel, 12% Chrome, 316 SS and CD4MCuN Duplex
- API Material Codes: S1, S3, S4, SS, S6, S8, 99, A8, O6, D1 and D2
- Severe Duty Materials: Hastelloy B, Hastelloy C, 254 SMO, 654 SMO and Titanium

Other materials available, including castings and composites, to meet specific application requirements.

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**MECHANICAL DATA**

- Rotation: Clockwise from Fan End of Motor
- Maximum Input: Power Capable of 1,500 HP @ 1,750 RPM
- Connections: Class 300 ANSI Flanges
- Bearings: Oil Lubricated
80 years of experience

Since we built our first pumps, Carver Pump has become recognized as one of the leading centrifugal pump companies, building to the most demanding engineering specifications and military standards in the world.

We were one of the first American pump companies to attain ISO 9001 certification – the most recognized standard for quality in the world. This certification is your assurance that our commitment to quality includes not only our hardware, but also superior customer service, leading-edge R&D, and continuous improvement in everything we do.

So whether the job is refueling fighter jets on the deck of an aircraft carrier, supplying paint to an auto assembly line, or bringing water to the fountain in a city park, we put our reputation on the line everyday with every pump we build.

Contact us

2415 Park Avenue
Muscatine, Iowa 52761-5691
USA

(563) 263-3410
sales@carverpump.com
www.carverpump.com