

WARREN JAGUAR 2200 SERIES PUMPS

VERSATILE TWO-SCREW SPECIALTY PUMPS ACCOMMODATE VIRTUALLY ANY FLUID

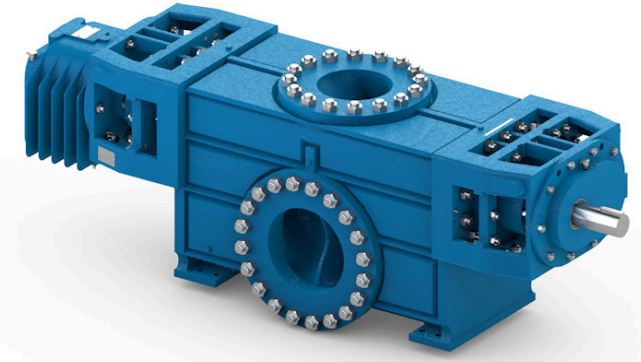
CUSTOM-ENGINEERED PUMPS OFFER MORE SUCTION INLET OPTIONS

The versatile Jaguar series of Warren brand positive displacement screw pumps offers flexible design and material options for nearly any flow, pressure and viscosity requirement.

Notable for their ability to provide very low NPSHr, Warren Jaguar pumps are ideal for tank unloading and high viscosity fluids, where NPSHa may be severely limited. Like all two-screw pumps, they are low shear, so fluids are safely moved in applications ranging from specialized niche processes to boosting.

Warren Jaguar's unique six-bearing design evolved from more than 50 years of experience in high-pressure applications. Inside of a highly durable solid cast body and coated surface, customers gain custom engineered solutions for capacities as low as 200 gpm or as high as 4,800 gpm, suction inlet pressures to 1650 psi, discharge pressures to 2,000 psi, and viscosities as low as 5 cSt or as high as 100,000 cSt.

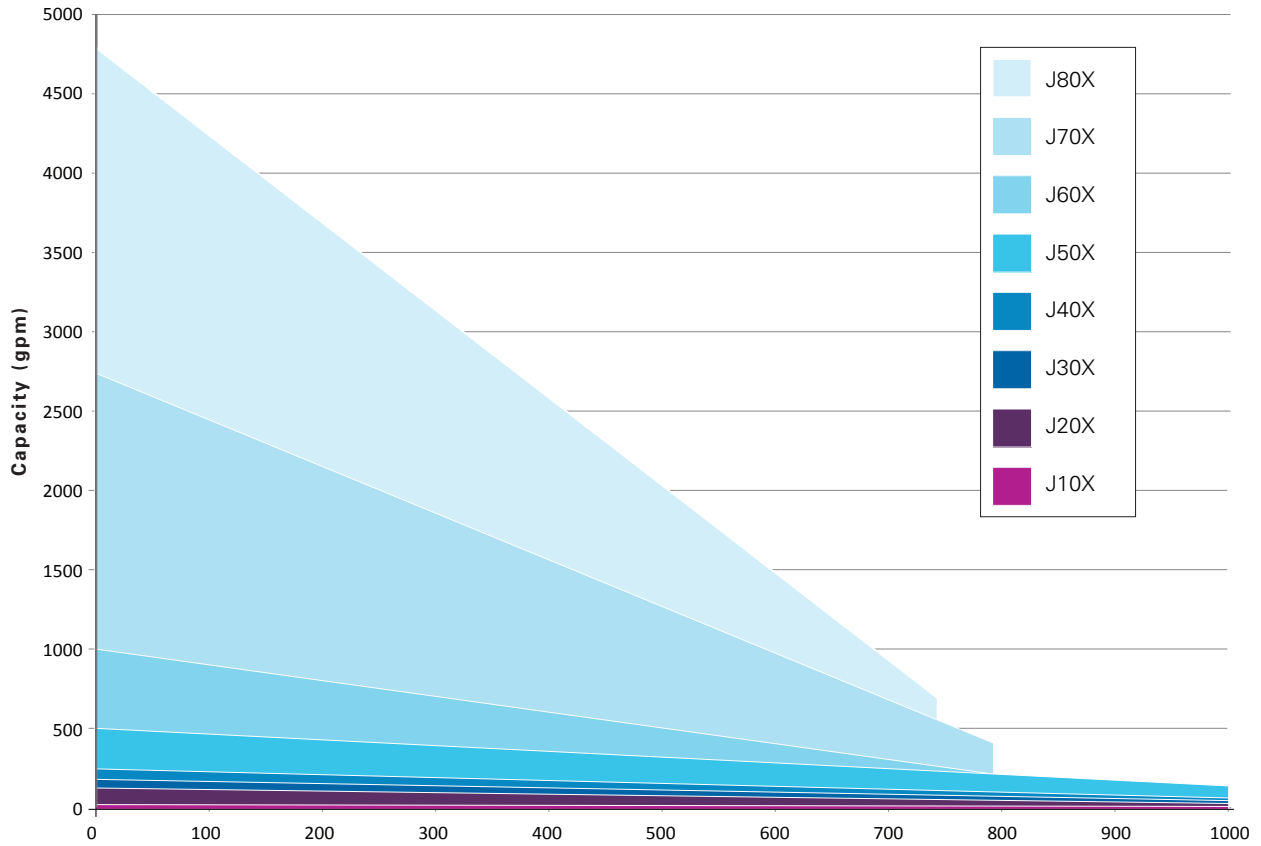
Jaguar's optional hopper suction design for very low NPSH combined with elevated temperature capability serves high-viscosity applications like polymers, adhesives, asphalt and foods – materials that would otherwise be difficult to get into the pump.



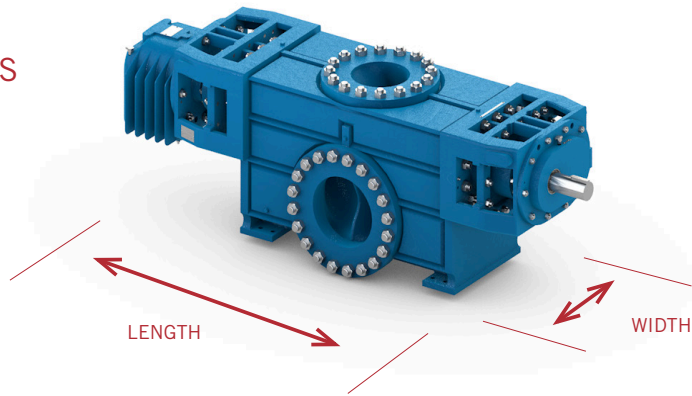
JAGUAR SERIES TWO-SCREW PUMP
Up to 4,800 GPM, 1,000 psi and viscosities from 5 cSt

PRODUCT SPECIFICATIONS AND FEATURES

Casing and bearing housing	Cast steel, stainless steel or iron, with chrome-plated bores for added lifetime
Rotors	Standard material - 4340 steel (ASTM A668 Class M) with optional hardening and plating available
O-rings	Viton (in contact with pumpage), nitrile (in contact with lube oil)
Seal	Single component seal at each shaft end
Flow rate range	10 gpm - 4,800 gpm (2 - 1,090 m ³ /h)
Differential pressure	Up to 1000 psi
Outlet pressure	2000 psig (139 bar)
Inlet pressure	Up to 1650 psig (114 bar)
Viscosity	5 - 100,000 cSt
Temperature	-20° F - 750° F
Speed	1780 rpms
Drive	Direct only
Rotation	Clockwise facing pump driveshaft
Mounting	Horizontal
Port Connections	Per ANSI B16.5, 300# inlet, 300# discharge
Accessories	Upon request, a temperature and vibration monitor is provided with 1/2" NPT connection
Timing gears	Herringbone, hardened
Bearings	Six-bearing design with a double-row thrust bearing locking driveshaft in position axially, sized to handle maximum loads



SERIES 2200



APPROXIMATE STANDARD DIMENSIONS

Pump Size	SUCTION 150# ASA Standard Body	DISCH. 300# ASA Standard Body	SUCTION 150# ASA Hopper Body	DISCH. 300# ASA Hopper Body	Motor			CP	HO	Y
					HP	RPM	FRAME			
J-10x	2 1/2"	1 1/2"	6"	2"	25	1750	284T	34 1/8"	13 3/4"	32 3/32"
J-20x	3"	2"	8"	2 1/2"	40	1750	324T	39 13/16"	18 3/8"	3 9/16"
J-30x	4"	3"	8"	3"	60	1750	364T	44 13/16"	17 1/2"	3 3/16"
J-40x	6"	4"	10"	4"	100	1750	405T	54 7/16"	19 3/4"	4 9/16"
J-50x	8"	6"	12"	6"	150	1750	445T	61 1/2"	22 3/8"	5 3/8"
J-60x	10"	8"	16"	8"	200	1150	8110	68 11/16"	28	6 1/2"
J-70x	12"	10"	18"	10"	400	1150	8288	89 3/8"	35 3/8"	7 1/2"
J-80x	16"	12"	20"	10"	500	870	8309SU	105 1/4"	39 1/2"	9 1/4"

* Dimensions not to be used for construction purposes

TYPICAL FLUIDS

- › Chemicals
- › Polymers
- › Adhesives
- › Asphalts
- › Oil
- › Lubricating Fluids
- › Foods

SAMPLE APPLICATIONS

- › Process Transfer
- › Vacuum Bottoms/
Waste Removal
- › Unloading
- › Fuel Forwarding/Injection
- › Pipeline Transport
- › Crude Oil Gathering
- › Wellhead Pressure Control

ADVANTAGES

- › **A Versatile Fluid Handling Solution:** Suitable choice for a wide range of flows, pressures and viscosities; capable of handling shear-sensitive fluids; and designed to work with most seal models and designs.
- › **Enclosed High Temperature Operation:** A jacketed pump body and stuffing box are available to protect seals or packing from circulation of steam or thermal fluids (>350 F) and prevent thermal shock from hot process fluids.
- › **Wear Protection:** Critical pumping surfaces such as timing gears can be nitrided or coated and, when combined with an electrolytically applied industrial hard chrome to the body bore, provide enduring wear protection in the toughest services.
- › **More Suction Inlet Options:** Center suction, hopper suction, high-pressure suction and extending the screws into the suction are options that accommodate a wide range of process variations such as low NPIPR and high suction pressure.
- › **Efficient Design:** Direct flow path from flange opening to entrance of pumping screws has a constant area and uniform velocity changes, producing the best NPSH capabilities of any similarly sized pump, along with higher suction lift performance; can be offered in a variety of screw pitches combined with the proprietary Warren Quimby Non-Slip (QNS) rotor profile.
- › **Integral Screw and Shaft:** The entire screw and shaft is machined from one piece of cast steel or stainless steel material, providing maximum stiffness and the minimum shaft deflection crucial for high-pressure pumps.
- › **Timesaving Maintenance:** Keyless timing gears and easy 'pop-out' rotor provide access for simple inspection and maintenance.

FOR ADDITIONAL INFORMATION VISIT:

circorpt.com/two-screw-pump



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IMO® ROSSCOR® WARREN®