

Ruthmann Pumpen

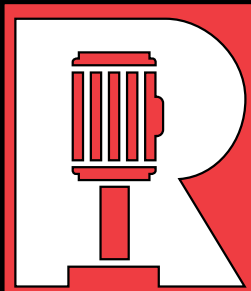
Pumping Solutions Since 1912

Screw Pumps for Cooling Lubricants



Ruthmann...Another Word for Innovation





Ruthmann Pumpen

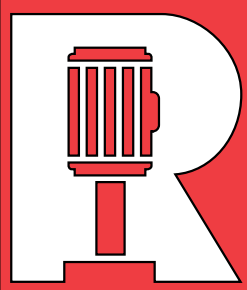
Screw Pumps for Cooling Lubricants

Technical Data and Dimensions

Technical Data		15-20	32-42	55-74-85	105-118	160-210	235-275
GPM	up to	7	16	32	48	89	122
Pressure	psig up to	1740	1740	1740	1740	1740	1740
Temperature	°F	140	140	140	140	140	140
Viscosity	cSt	from 1	from 1	from 1	from 1	from 1	from 1
Rotation speed	rpm	3500	3500	3500	3500	3500	3500
Positive inlet pressure	psig up to	145	145	145	145	145	145

Dimensions		15-20	32-42	55-74-85	105-118	160-210	235-275
Pressure side	inch	SAE 3/4"	SAE 1"	SAE 1 1/2"	SAE 1 1/2"	SAE 2"	SAE 2 1/2"
Suction side	inch	Thread 1"	Thread 1 1/4"	Thread 2"	Thread 2"	Thread 2 1/2"	SAE 3"
Shaft end	inch	0.75 x 1.38	0.75 x 1.38	1.10 x 1.97	1.10 x 1.97	1.5 x 2.76	1.5 x 2.76
Pilot Diameter	inch	4.92	4.92	6.30	6.30	7.09	7.09
Bracket flange diameter	inch	7.28	7.28	8.22	8.22	10.24	10.24
Total length	inch	15.51	17.64	21.93	23.82	29.45	30.83



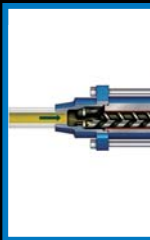


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Screw Pumps for Cooling Lubricants

Features

Even for high pressure cooling lubricants you can benefit from the advantages of a screw pump. Customer-specific design solutions are available.



Special requirements

Compared with other pump principles, screw pumps have a number of outstanding qualities. The pump delivers continuously with a low pulsation rate and low noise level. They achieve high flow rates even in small sizes. Cooling lubricants are difficult liquids with viscosities as low as 1 cSt. They must be delivered at high pressure, and contain abrasives, mostly metal residues.

Thanks to the innovative design, particularly in regards to the case coatings, the Ruthmann Pumpen screw pump offers many advantages when pumping water soluble coolant emulsions.

Cooling lubricants are abrasive and can cause damage to the surface. When precautions are not taken, the case, the spindles and the ball bearing are affected. Emulsions can damage the main spindle bearing in particular. The case is coated with a resistant polymer; this synthetic material can absorb particles. Depending on the liquid used, other materials can also be provided. Additionally, the pump is provided with a permanently lubricated outside bearing which has no contact with the medium.

Dry Ridge Training Facility

3565 Dixie Highway
Dry Ridge, KY 41035
Phone: 859.824.5001
Email: Info@Gusher.com

California Sales & Service

8226 Salt Lake Avenue

Working conditions and materials

Flow rates: 1 to 160 gpm.
Max. pressure: 1750 psig.
Supply pressure: 145 psig.

Ruthman Companies: A family-owned business supplying pumps



Ruthman Companies was co-founded in 1892 by Alois and Edward Ruthman as the "Ruthman Company." Based in Cincinnati, the company built steamboats that traveled the Ohio River.

In 1924, Alois conceived the first sealed screw pump, coining the term 'coolant pump.' The brand name of the new pump "Gusher," giving birth to what is now Ruthman Company brand, Gusher Pumps.

Alois' son Thomas R. Ruthman joined the family business in 1950 and expanded the business globally through organic growth and the acquisition of various pump technologies. In the early 1990's, Alois' grandson, Thomas G. Ruthman, became the third generation of Ruthmans in the pump business. Over the years, Ruthman Companies has expanded its product line from the original screw pumps to include valves, vertical turbine pumps, positive displacement pumps, and other specialized pump equipment, while upholding its reputation as a leader in the custom engineering of pumps for the most challenging applications.

The balance piston on the drive spindle is provided with grooves for the purpose of reducing the leakage rate and to insure high efficiency. The clearances of the spindle material and the case coatings are adjusted in such a way that media of low viscosity can be delivered.

Fulflo Hydraulic Valves
459 East Fancy Street
Blanchester, OH 45107
Phone: 937.783.2411
Fax: 937.783.4983
Email: Info@Fulflo.com
www.Fulflo.com

BSM Pump Corp.
10000 Road
Cincinnati, OH 45225
Phone: 513.779.6370
Fax: 513.779.6370
Email: Info@BSMPump.com
www.BSMPump.com

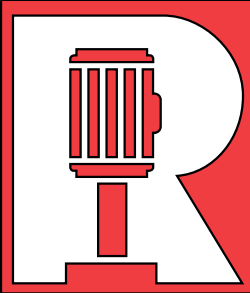
Nagle Pumps
1249 Center Avenue
Chicago Heights, IL 60411
Phone: 708.754.2940
Fax: 708.754.2944
www.NaglePumps.com

RAE Pumps
1212 Steng Street
Cincinnati, OH 45202
Phone: 513.779.6370
www.RuthmanCo.com

Ruthman Pump
1212 Steng Street
Cincinnati, OH 45202
Phone: 513.559.6370
www.RuthmanCo.com

RUTHMAN CO.
GLOBAL DIVISION

Ruthmann Pump
Thomas-Edison-Str.
D-52499 Baesweiler
Germany
Phone: +49 (0) 241 241-1
Fax: +49 (0) 241 241-241



Ruthmann Pumpen

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Availability



Global

Ruthmann Pumpen

Northberger Strabe 60
Eschweiler Germany D-52249
Phone: +49 (0) 2403 5595 0
Fax: +49 (0) 2403 5595 20
Web: www.ruthmannpumpen.de

Birmingham Pump

Unit 7 Network Park
Duddeston Mill Road
Saltley, Birmingham England B81AU
Phone: +44 (0) 121 503 3000
Fax: +44 (0) 121 503 3002
Web: www.birminghampumps.co.uk

Guan Shen Industrial Pumps (Shanghai) Company

广申工业泵(上海)有限公司

Gusher Pumps (Shanghai) Co., Ltd.

Building D, Room 416
No. 188 East Jiagwan Road
Shanghai, 200081
P.R. CHINA

上海市东江湾路 188 号 D 栋 416 室

Phone: 86-21-33872056

Phone: 86-21-33872058

Fax: 86-21-33872057

电话: 86-21-33872056

86-21-33872058

传真: 86-21-33872057

USA

Corporate Headquarters

7236 Tylers Corner Drive
West Chester, OH 45069
Phone: 513-559-1901
Fax: 513-559-0035
Web: www.gusher.com

Gusher Pumps of Dry Ridge

22 Ruthman Drive
Dry Ridge, KY 41035
Phone: 859-824-5001
Fax: 859-824-3011
Web: www.gusher.com

Gusher Pumps of Williamstown

115 Industrial Drive
Williamstown, KY 41097
Phone: 859-824-3100
Fax: 859-824-7248
Web: www.gusher.com

Gusher Pumps of New Castle

403 North Ninth Street
New Castle, IN 47362
Phone: 765-529-5624
Fax: 765-521-0008
Email: gusherpump@insightbb.com

BSM Pump Corp.

180 Frenchtown Road
North Kingstown, RI 02852
Phone: 401-471-6350
Fax: 401-471-6370
Web: www.bsmpump.com

Nagle Pumps

1249 Center Avenue
Chicago Heights, IL 60411
Phone: 708-754-2940
Fax: 708-754-2944
Web: www.naglepumps.com

Wagner Processing – Bay Area

23510 Bernhardt Street
Hayward, CA 94545
Phone: 510-786-3929
Fax: 510-786-3722
Web: www.wagnerprocess.com

Wagner Processing – Central Valley

3675 N. Wilcox Street #C
Stockton, CA 95215
Phone: 209-931-0100
Fax: 209-931-7910
Web: www.wagnerprocess.com

Great Lakes Pump & Supply Co.

1075 Naughton
Troy, MI 48083
Phone: 248-528-9100
Fax: 248-528-9015
Web: www.greatlakespump.com

