

# Ruthmann Pumpen

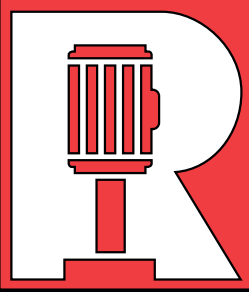
Pumping Solutions Since 1912

Screw Pumps for Cooling Lubricants



Ruthmann...Another Word for Innovation





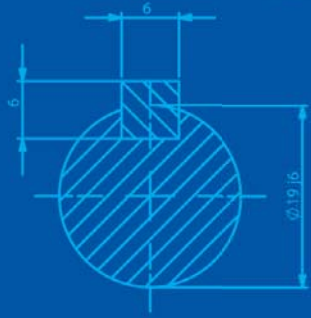
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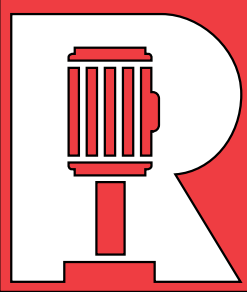
Screw Pumps for Cooling Lubricants

## Technical Data and Dimensions

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

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



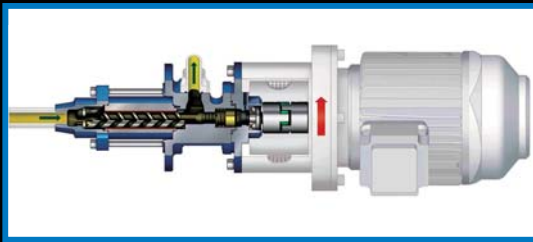


# Ruthmann Pumpen

## 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.



#### Working conditions and materials

Flow rates:	1 to 160 gpm.
Max. pressure:	1750 psig.
Supply pressure:	145 psig.
Viscosity:	From 1 cSt.
Temperature:	Up to 140° F.
Installation:	Dry or wet-well.
Case:	EN-GJS-400.
Coats:	EN-GJS-400, polymer coating, other materials or treatments.
Spindles:	Steel, nitrited.
Filtration:	Max. 70 µm.

#### 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

#### Contamination? No problem!

Metal residues in 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.

#### High pressure at low viscosity.

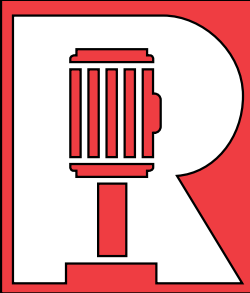
Cooling emulsions are delivered at pressures of up to 1750 psig. Only in this way can sufficient cooling and evacuation of tooling holes be insured.

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.

#### Installation options.

The Ruthmann Pumpen cooling lubricant pump can be designed for dry or wet-well installation.

For a vertical wet-well installation a mounting plate is provided.



# Ruthmann Pumpen

Screw Pumps for Cooling Lubricants

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.

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Shanghai, 200081  
P.R. CHINA

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**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 Cincinnati

1212 Steng Street  
Cincinnati, OH 45233  
**Phone:** 513-559-1901  
**Fax:** 513-559-0035  
**Web:** www.gusher.com

### Gusher Pumps of California

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Cudahy, CA 90201  
**Phone:** 323-773-0847  
**Fax:** 323-773-0958  
**Email:** www.gusherca@aol.com

### Gusher Pumps of New Castle

403 North Ninth Street  
New Castle, IN 47362  
**Phone:** 765-529-5624  
**Fax:** 765-521-0008  
**Email:** www.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

