



A RUTHMAN COMPANY

# DIN Series Pumps



**RUTHMAN**  
Engineering Pump Solutions™

# The Gusher DIN Series from Ruthmann Pumpen

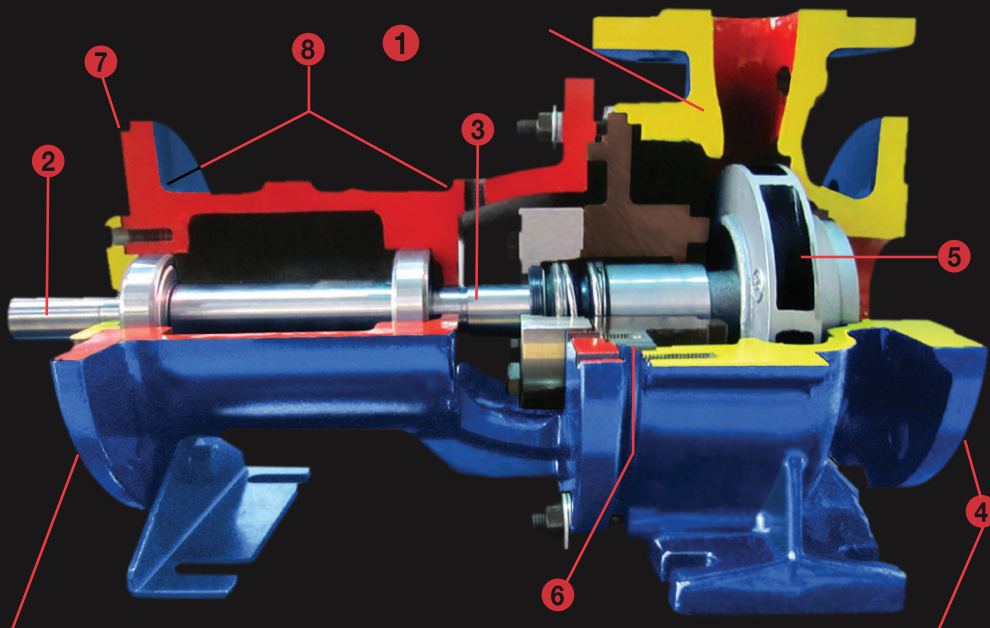
Quality, Performance,  
Economy, Safety,  
Reliability, Availability.

## The Innovative Solution for every Field of Application:

- Cooling Lubricants for Machine Tools
- Industrial Process and Cooling Water Circuits
- Industrial Heat Recovery Systems
- Spray Booths and Surface Painting Systems
- Industrial Washing and Cleaning Systems
- Filtration and Water Treatment Systems
- Breweries
- Bottle Rinsing and Crate Washing Systems
- Heat transfer Systems
- District Heating
- Sprinkler Systems
- Municipal Water Supply and Transport
- Irrigation
- Heating and Air Conditioning
- and Many More...







## Gusher DIN Features:

As Shown Above....

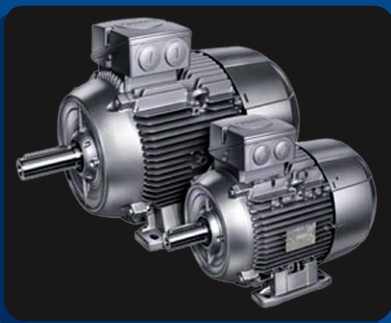
1. **Heavy Duty Casings** - increases life under corrosive and erosive conditions. All sizes are self venting with CL discharge. Drain plug is offered as an option.
2. **Heavy Duty Shaft** - Minimum deflection increases life for less maintenance.
3. **Renewable Shaft Sleeve** - sleeve is easily removed, and is relieved to allow for temperature changes.
4. **Rabbeted Fits** - Accurately machined rabbets ensure positive alignment, longer seal life, and easy replacement of spare rotating parts when maintenance is needed.
5. **Enclosed Trimmed Impeller** - trimmed to specified duty point using less system power.
6. **Stem Plate** - Designed to be interchangeable with Burgmann single type seals, Burgmann double type carter seals or packing.
7. **Bearing Housing** - Standard for use of an IEC type motor arrangement. May also be machined for use with NEMA C-Face motors.
8. **Bearing Housing** - RPE Bearing housings are also more concentric, with all bearing bores machined from a single end. This feature eliminates possible concentricity problems

## Additional Features:

- Standard ball bearing housing sizes that interchange with many pump models.
- Inlet and outlet flanges are of raised face design, allowing for more positive sealing of flanges.
- Internal pump hardware material is 316 stainless steel as standard.
- Shaft sleeve material is 316 stainless steel as standard.
- Side port volute drain featured for ease of pumpage removal during repair.
- Pump dimensions are designed to match the DIN 733 standard.
- Volute inlet and outlet flanges are to PN16 as a standard. Can be produced per customer specifications if required.
- With just a change of the shaft sleeve and seal gland, the size of the mechanical seal can be changed.
- Ball bearing housing castings are designed for use with oil, grease or greased for life ball bearings. This reduces the pump parts inventory and allows for quicker delivery to the customer.
- Carbon wear ring material is standard.

## Cost Savings through Energy Optimization

High Efficiency Rated Motors and the Right Pump Selection Make it Happen.



## Standard Top Rated Motors

The Low Voltage Motors used in the Gusher DIN Pump Systems exceed the requirements of the most up to date Energy Efficiency Standards.

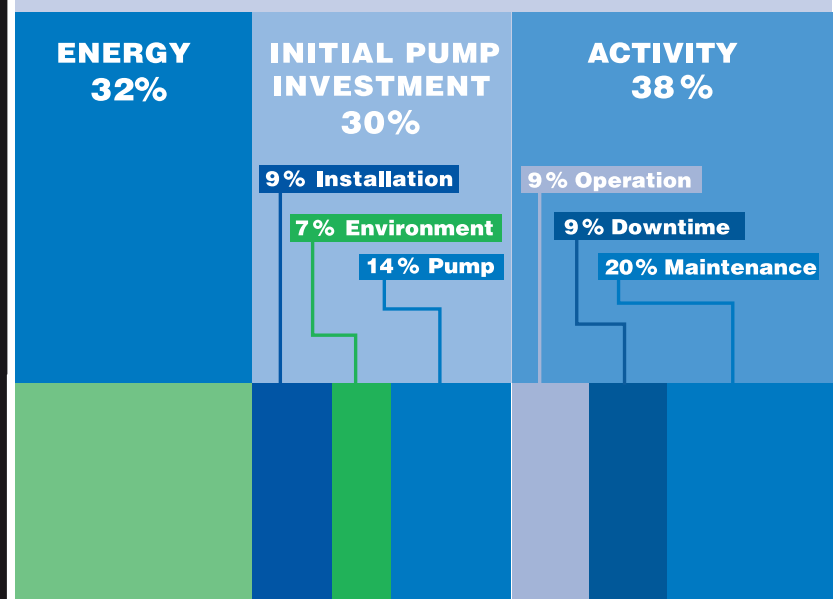
This assures the most energy savings possible out of your system when incorporating the Ruthman DIN Series Pumps.

Gusher DIN Systems are available with standard top rated IEC motors, and may be machined for C-Faced NEMA motors.

## Maximizing your energy potential by Minimizing your operation costs...

Gusher products are designed to manage the costs and energy consumption of your entire operation. Gusher will help choose the proper product for each application, offering practical solutions down to the efficiency of the smallest component of your Gusher Pump. Our goal is to place the product which best assures your total system's optimization, increasing your maximum efficiency.

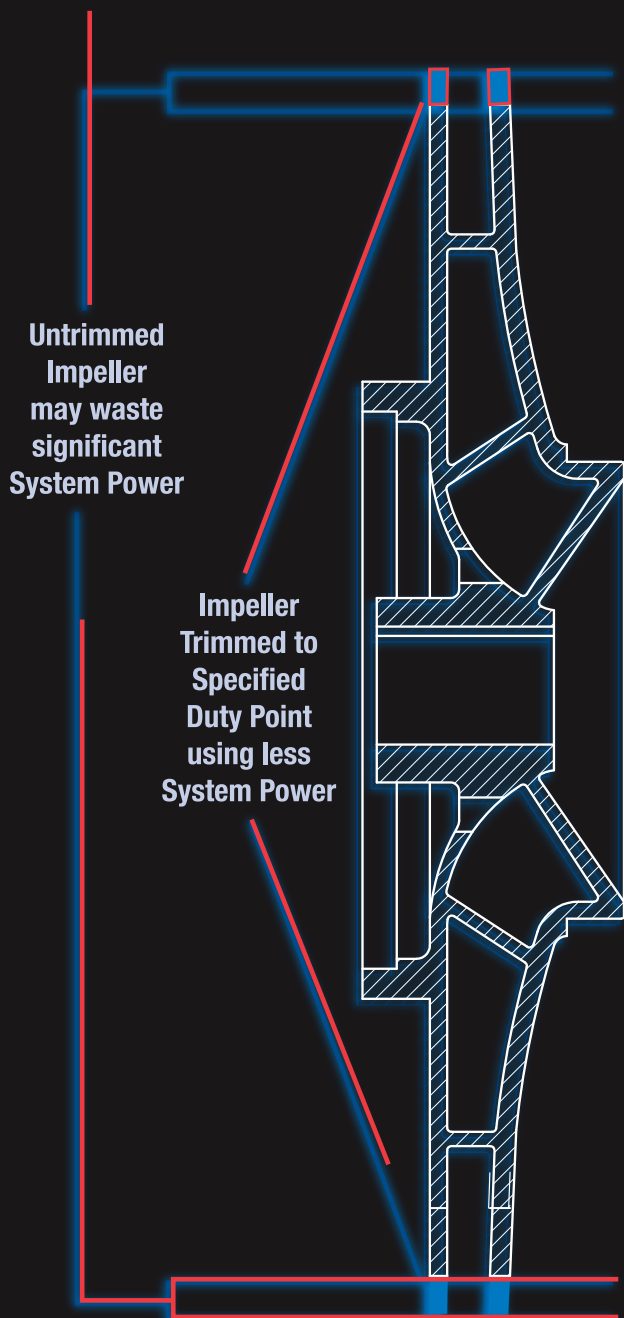
### Average Energy Cost Investments for Industrial Pumps



## Choose the Right Pump

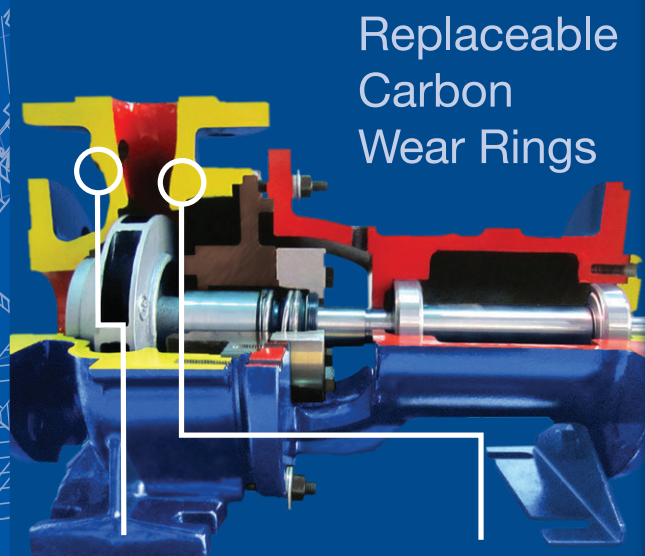
With the expertise of the Gusher Pumps support team, your pumping needs will be tailored to your particular system's requirements, either selecting our standard line, or custom built systems for unique situations.

Gusher representatives will provide a complete system analysis, helping choose the equipment for optimum performance and energy savings throughout your entire process.



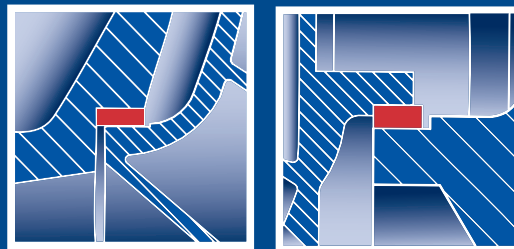
## Maximum Efficiency Built In...

...With the advantages of the Gusher Precision Trimmed Impellers and easily replaceable Wear Rings.



## Trimmed Impellers

Precision Trimmed Impellers insure the highest possible energy efficiency. This feature reduces the impeller's outside diameter to match exactly the required duty point based on the exact customer specifications.



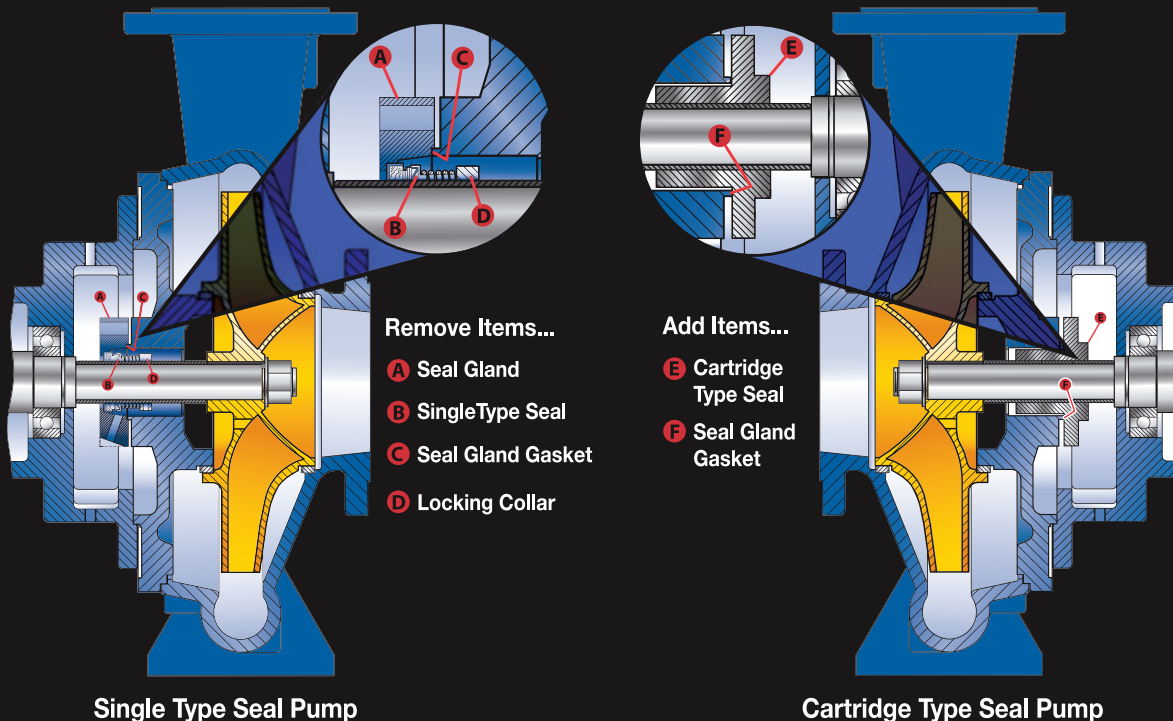
Pump efficiency is determined by the distance between the impeller and the casing. Replaceable wear rings make maintenance simple.

# Interchangeability

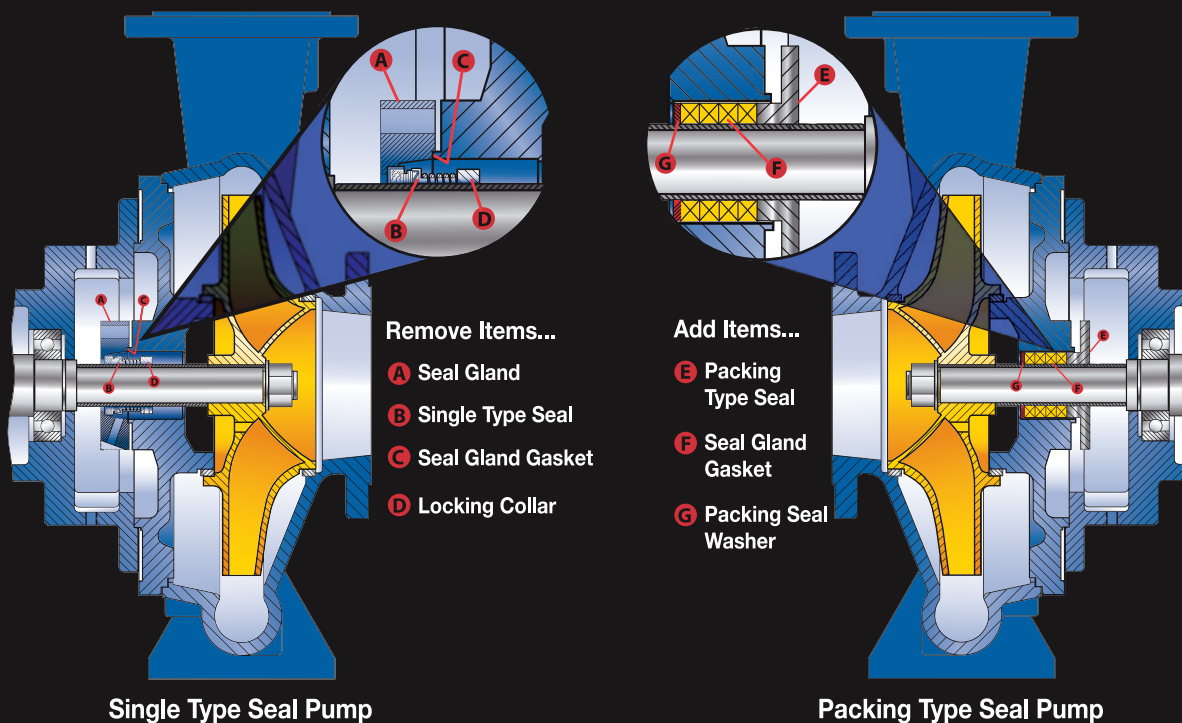
## Conversions Made Simple

Gusher DIN Pumps feature engineered parts interchangeability which insures you are easily and quickly able to convert to the pump assembly that matches your application.

### Conversion from Single type Seal to Cartridge type seal....



### Conversion from single Type Seal to Packing Type Seal





A



Cartridge Type Seal

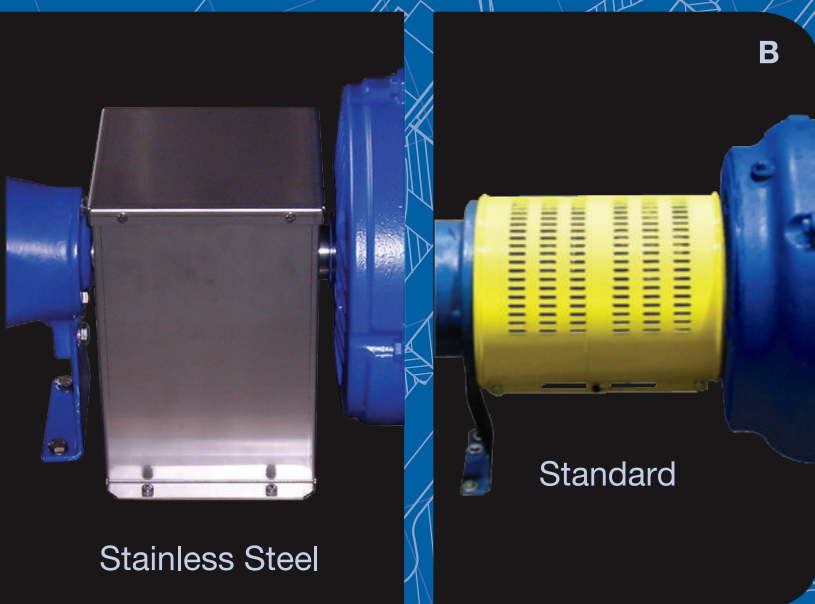


Single Spring Type Seal



Packing Type Seal

B



Stainless Steel

Standard

## Gusher-DIN Options

### A. Standard Bore Stuffing Box

Accommodates most seal sizes and types such as cartridges, single spring and packing.

### B. Coupling Guards

Guards, stainless steel or standard for use around rotating parts for safety requirements.

### C. Base Plates

Construction in fabricated steel.

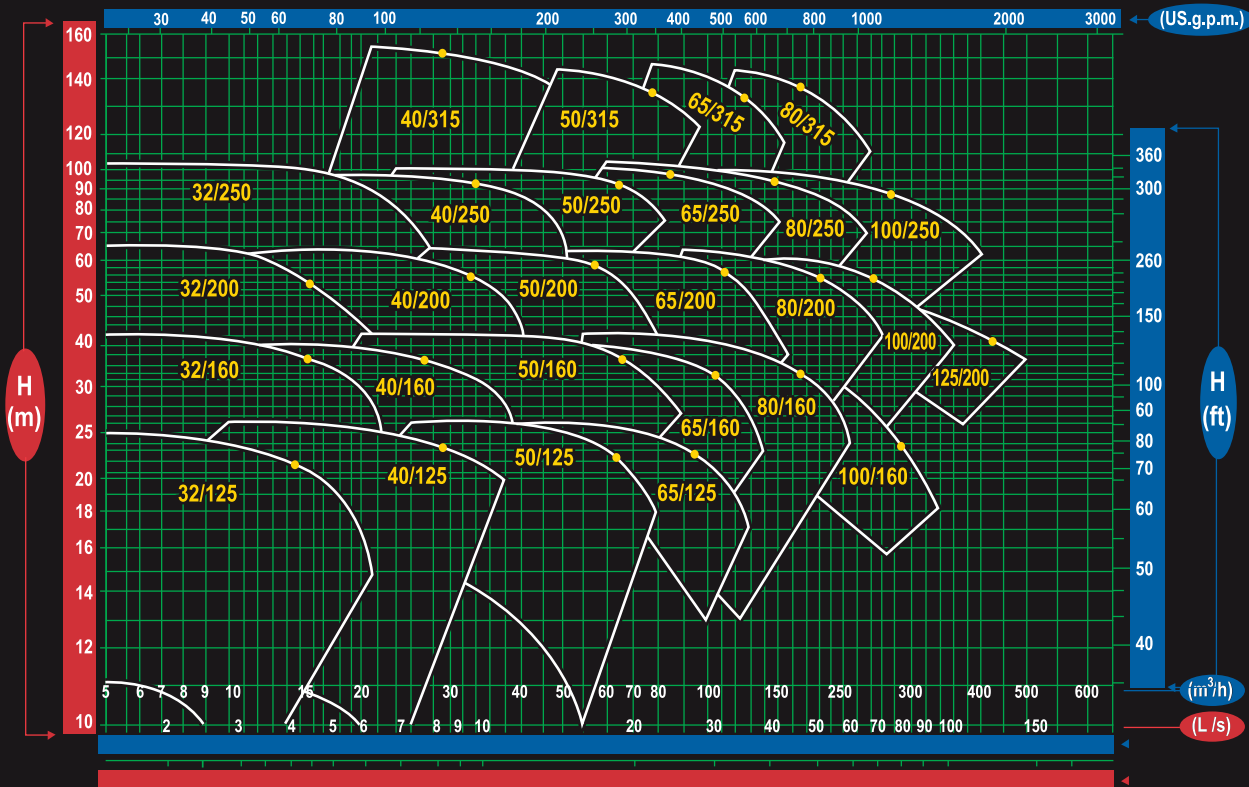
Base plates are also supplied with jack bolts to aid in alignment.

C

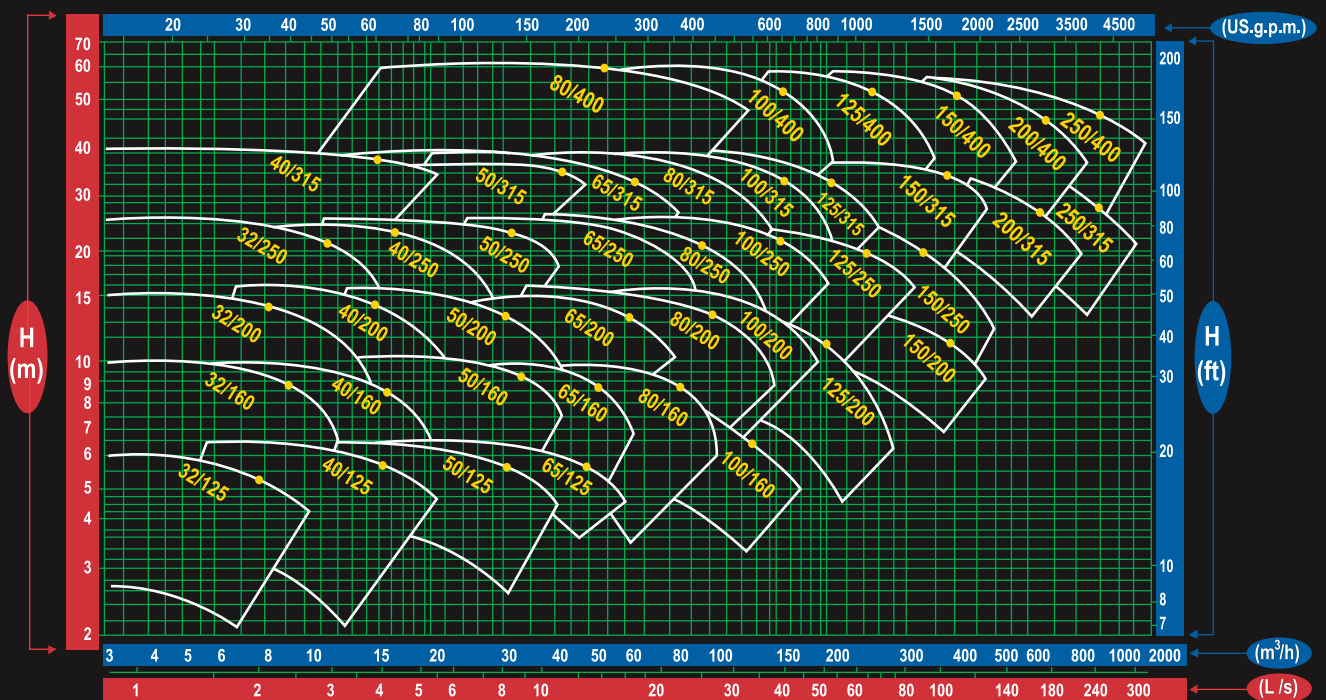


# DIN Performance Charts at 50hz

2850 r/min



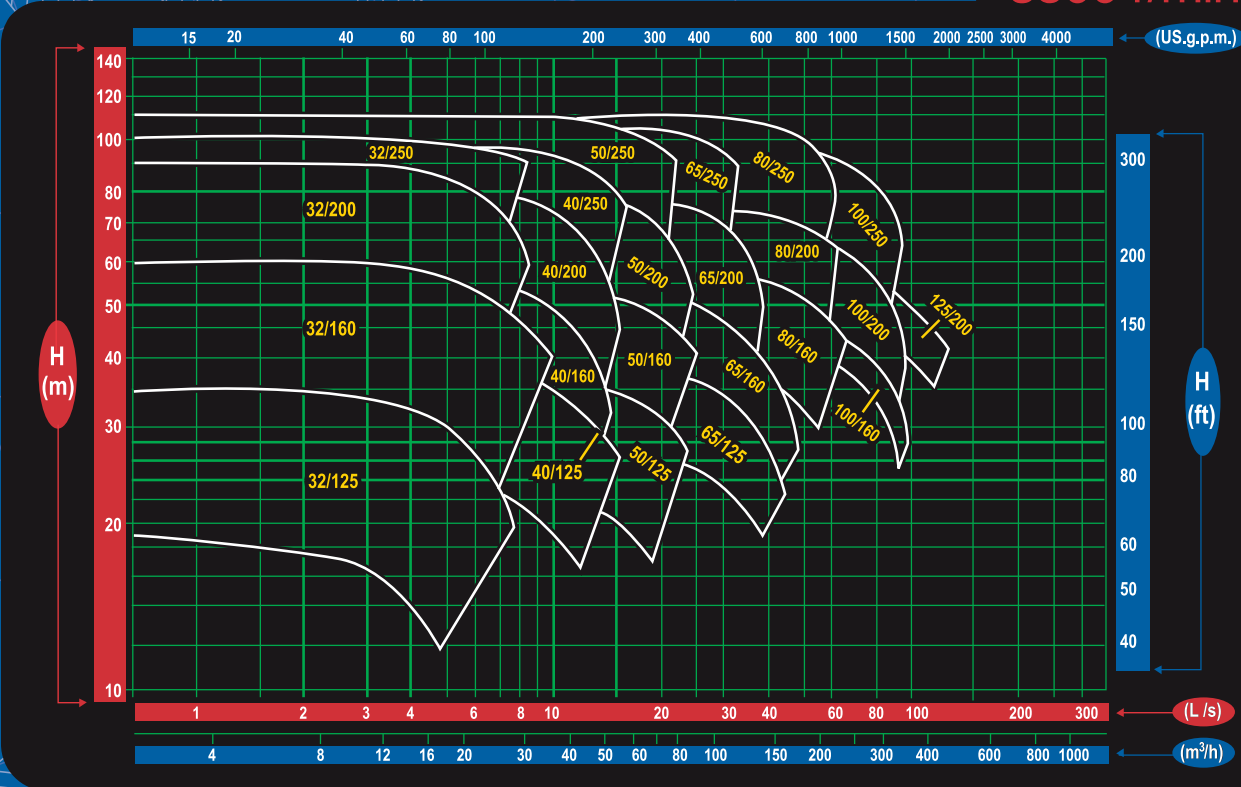
1450 r/min



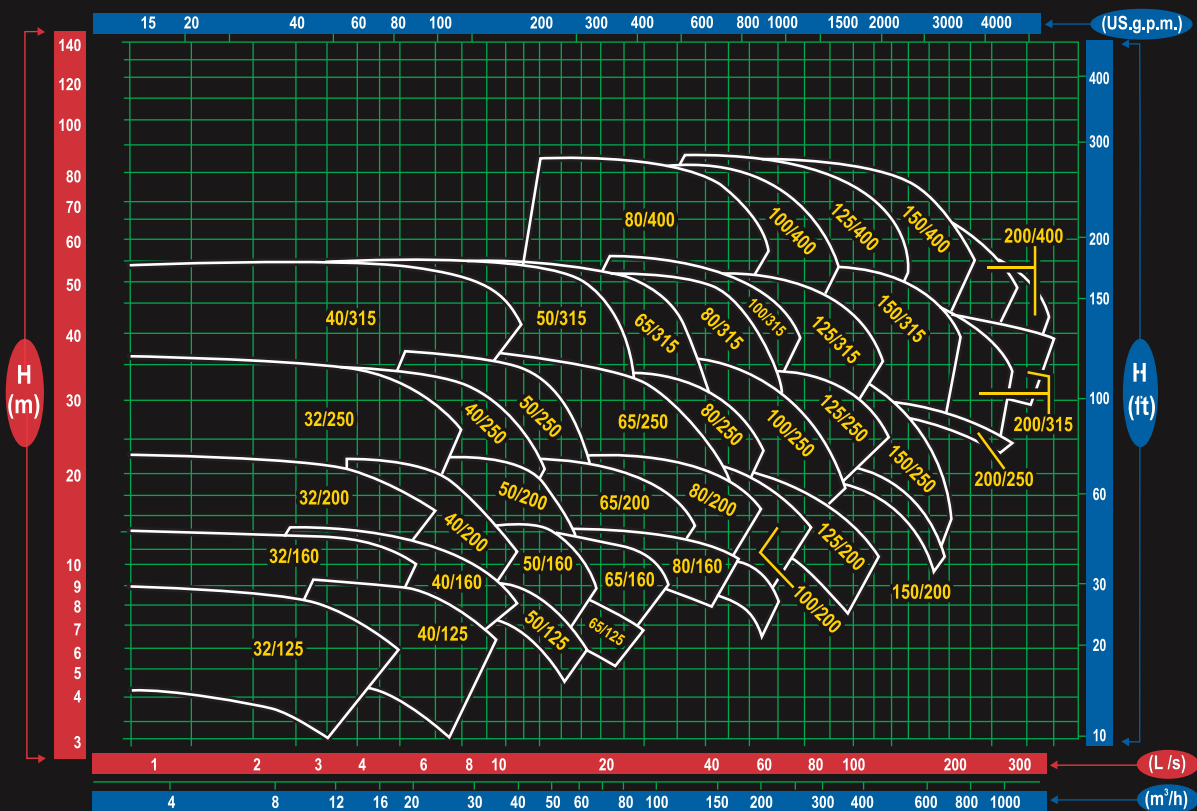


# DIN Performance Charts at 60hz

3500 r/min



1750 r/min

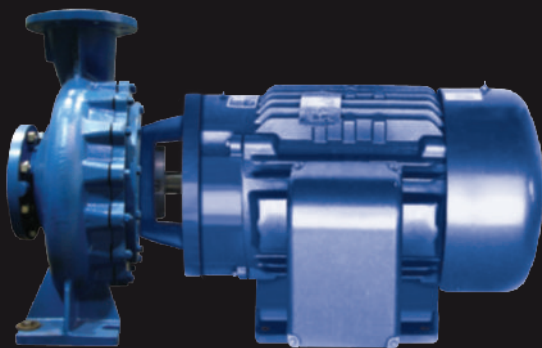
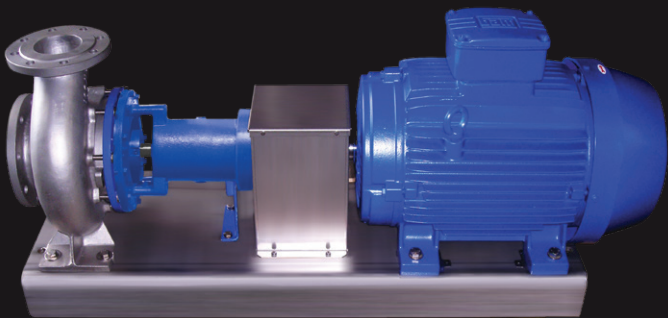
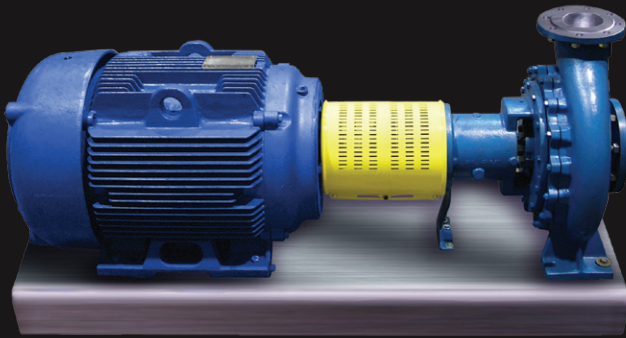


## All Inclusive Service and Maintenance...

...is guaranteed with your DIN Pump investment with Gusher Pumps. From the initial on-site installation process through maintenance, repair and rehabilitation issues, Gusher's technical staff is guaranteed to be accessible on an around the clock schedule. The Ruthman Companies repair team at our facility has the ability and 100 years of industry expertise to service virtually all makes and models of industrial pumps and accessories.







## Why DIN Standards?

For over a century, Ruthman Companies has understood that being the best demands being ahead of the curve on industry quality standards.

As a leading worldwide manufacturer of centrifugal pumps, Ruthman Companies embrace the DIN Standards because they promote rationalization, quality, safety, and environmental protection, as well as improving communication between industry, technology, science, government and the public domain. Most important, adherence to these standards, as well as our own is further assurance to our Ruthman Companies partners and customers of the commitment to excellence and service established and maintained for 100 years... and counting.





**RUTHMAN**  
Engineering Pump Solutions™

**RUTHMANCOMPANIES.COM**

Your Global Source for Ruthman Company DIN Series Pumps

**In North  
and South America**

**GUSHER PUMPS**

**Phone:** 859-824-3100  
**Web:** [www.gusher.com](http://www.gusher.com)



A RUTHMAN COMPANY

**In Europe**  
**RUTHMANN PUMPEN**

**Phone:** +49 (0) 2403 5595 0  
**Web:** [www.ruthmannpumpen.de](http://www.ruthmannpumpen.de)



**In China**  
**GUSHER PUMPS  
SHANGHAI**

**Phone:** 86-021-26616611  
**Web:** [www.gusher.com](http://www.gusher.com)



**SHANGHAI**  
A RUTHMAN COMPANY