



PROPELLER PUMPS

ELBOW AND BOTTOM FLANGE DESIGN FOR THE PROCESS INDUSTRY



ברלין טכנולוגיות בע"מ
שדרות גן רוזה 13, יבנה, 8122214
<http://www.berlintech.co.il/>
mail@berlintech.co.il
טלפון: 073-7597171
פקס: 08-6638120

COLFAX
Fluid Handling

www.colfaxcorp.com/industrial

COLFAX
Fluid Handling

REDEFINING WHAT'S POSSIBLE



YOUR SINGLE SOURCE GLOBAL PARTNER

Colfax Fluid Handling is redefining what’s possible in fluid handling and process engineering applications. You’re faced with demanding clients who are under increasing economic, competitive and regulatory pressures. We understand you need more than a pump. You need a partner who can help you design and deliver the most reliable, efficient and innovative solutions for both process and auxiliary applications. A partner who can provide project management and local support for global clients with facilities around the world. That’s why Colfax Fluid Handling surrounds you with the:

- People: a team of engineering and application experts, fluent in your language, who understand your business challenges and are knowledgeable about the industry
- Products: a portfolio of technologies, products and systems from brands you trust that increase the reliability and cost efficiency of plant operations
- Services: a commitment to responsive, expert levels of service that give you the support you need during design, commissioning, and throughout operations

As your single-source global supplier, we call this “Total Savings of Ownership.”

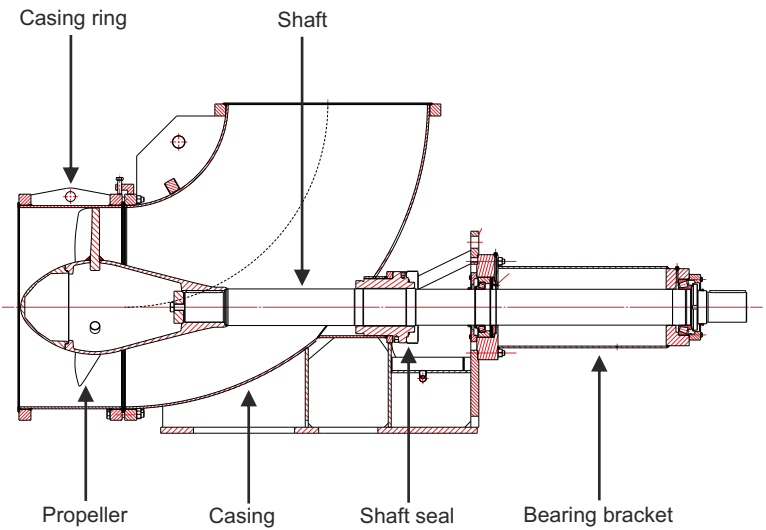
BEST FIT SOLUTIONS

TECHNOLOGY YOU CAN COUNT ON

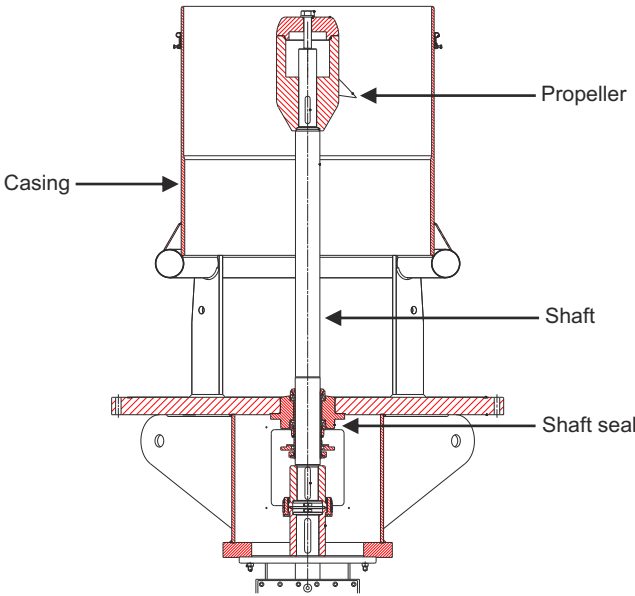
Propeller pumps are the optimal solution for moving large flow rates in industries such as chemical processing, saline and potassium mining, and food production. These pumps are available mounted horizontally on a base plate, suspended horizontally into a pipe, or mounted vertically bottom-up inside a tank.

All pumps are equipped with **state-of-the-art shaft sealings**.

ELBOW PROPELLER PUMP



BOTTOM FLANGE PROPELLER PUMP

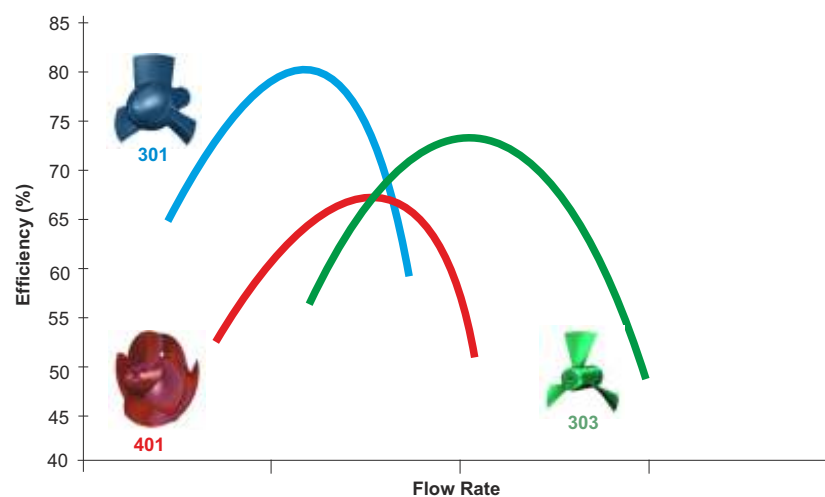
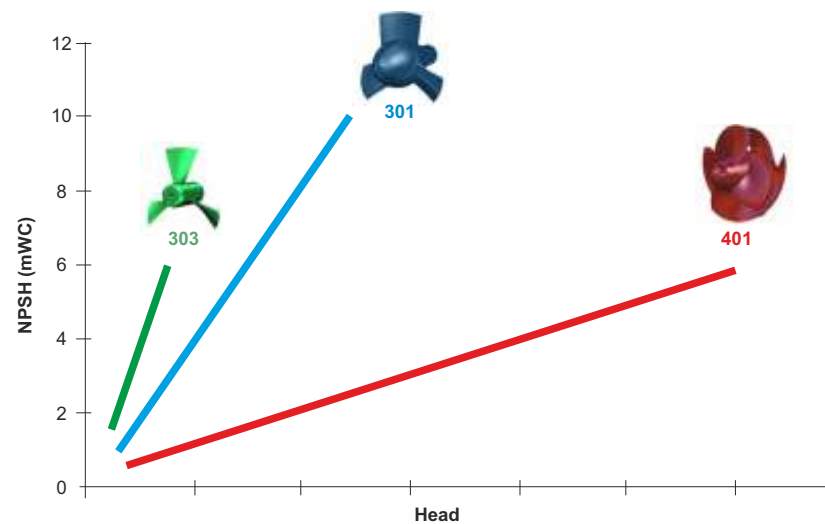
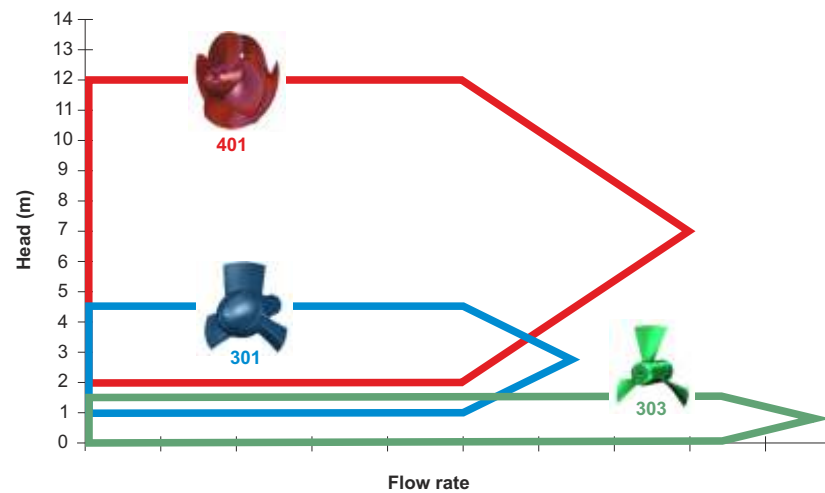


Technical Data	
Flow rate:	up to 50.000 m³/h
Delivery head:	up to 12 m
Discharge pressure:	up to 6 bar
Operating temperature:	up to 200 °C
Efficiency	up to 80 %
Solid content	up to 40 % by weight

Wetted Materials
1.4408 equivalent to AISI 316
1.4517 equivalent to ASTM A296 CD4MCu
1.4588 equivalent to Alloy 926
1.4404 equivalent to AISI 316L
1.4462 equivalent to UNS S31803
1.4529 equivalent to Alloy 926
1.4562 equivalent to Alloy 31
1.4571 equivalent to AISI 316Ti
Nickel-based alloys
Other materials on request

OPTIMIZED RELATED TO ... SOLVING CHALLENGING DEMANDS EXCELLENT

A variety of propeller designs give you options that are best suited to your operating conditions.



... HEAD

Large flow rate & head capabilities due to a range of propeller designs and to blades adjustable in angle

... NPSH

Optimized low NPSH requirements which minimize supply tank levels

... EFFICIENCY

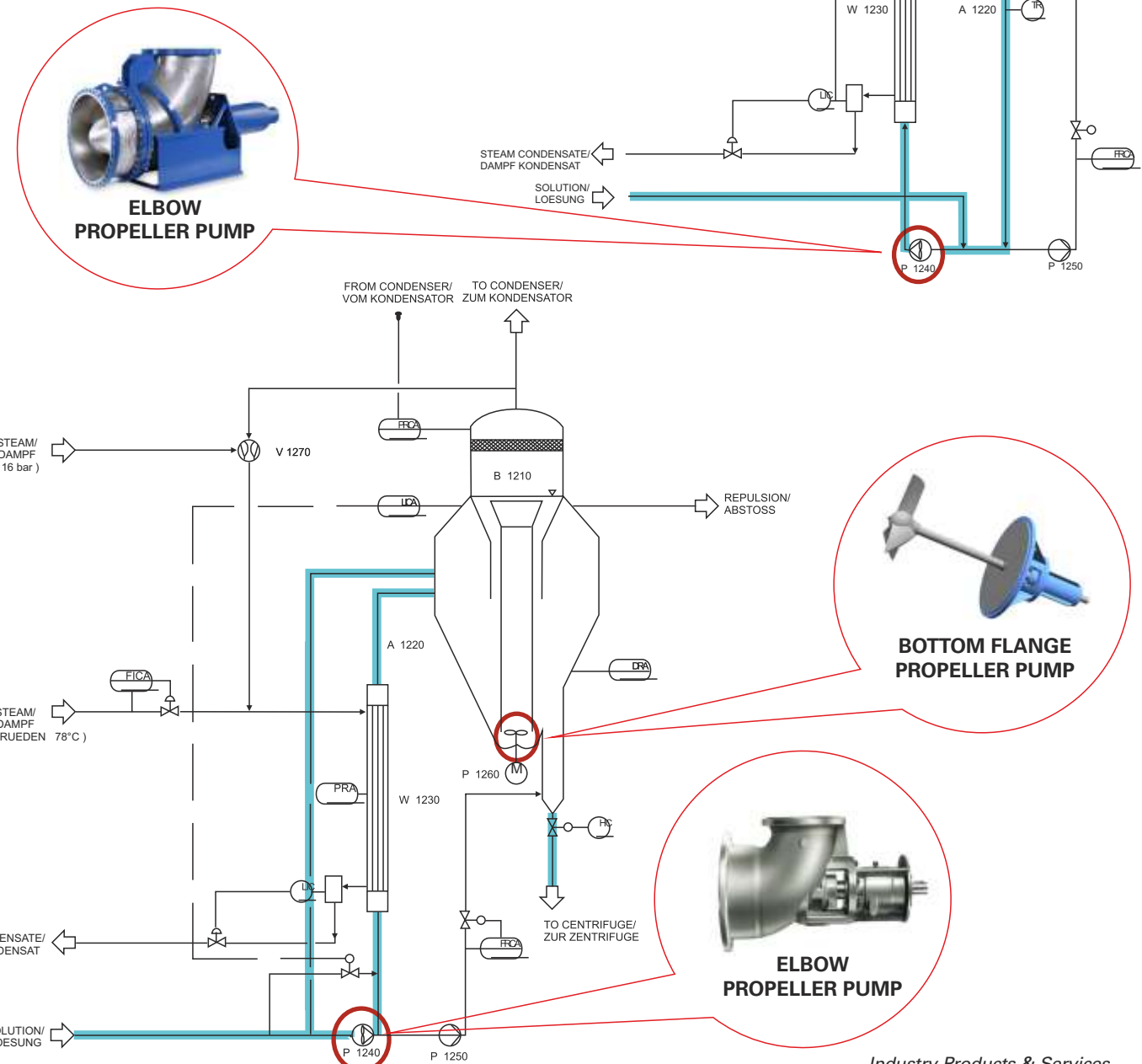
High overall efficiency with minimized input power requirements and driver size, achieved by minimizing gaps between blades and casing, optimizing propeller head shape and blade profile, and using a large radius elbow casing

THE EVAPORATION PROCESS IN THE SODIUM MINING INDUSTRY COLFAX FLUID HANDLING PROPELLER PUMPS PLAY AN ESSENTIAL ROLE

For decades propeller pumps from Colfax Fluid Handling have provided **reliable operation**. A free of play bearing mounting in combination with a highly rigid shaft provide high true running accuracy and thus ensure ideal operating conditions for the shaft seal, while a spring system compensates for thermal expansion of the shaft and bracket.

An optimized rigid elbow casing, designed using Finite Element Analysis, makes them **insensitive to deformation** caused by pipe forces.

When pumping abrasive liquids the exchangeable casing ring guarantees **low replacement costs**.



Industry Products & Services

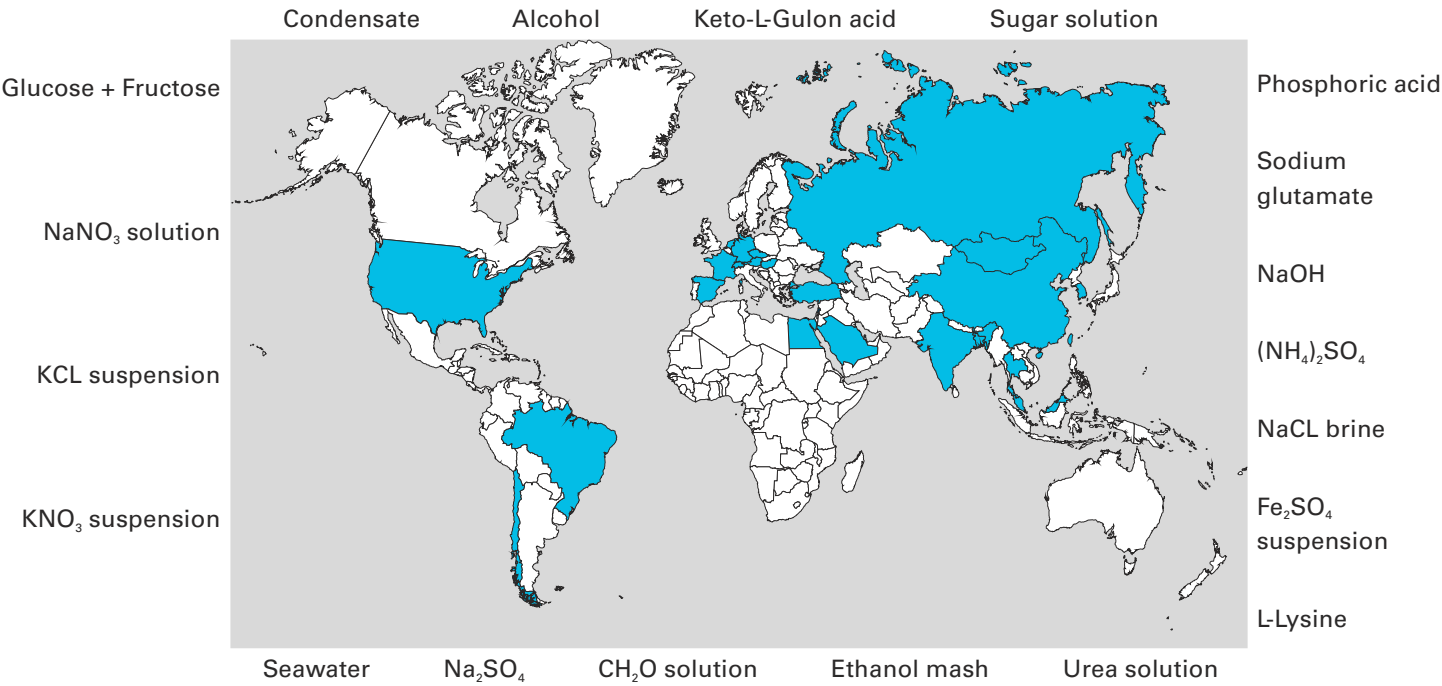
ALLWEILER® HOUTTUIN™ IMO® WARREN®



EXPERIENCE AROUND THE GLOBE

Around the globe, Colfax Fluid Handling has experience and expertise in designing and applying the right fluid handling components and systems for the process engineering industry.

With its extensive product portfolio from world class manufacturers such as Allweiler, Houttuin, Imo and Warren, Colfax Fluid Handling is able to draw upon 400 years of know-how in the pumping industry.



Countries where propeller pumps manufactured by Colfax Fluid Handling are in operation on a variety of fluids.

Colfax Fluid Handling

1710 Airport Road
Monroe, NC 28110
USA

Allweiler GmbH
Allweilerstraße 1
78315 Radolfzell
Germany

Unit 1803, 18/F
Clifford Centre
778 Cheung Sha Wan Road
Lai Chi Kok, Kowloon
Hong Kong

Suite 1701
Universal Mansion
168Yuyuan Road
Shanghai, 200040
China

Tel. +1 704 289 6511

Tel. +49 7732 860
Fax +49 7732 86436

Tel. +852 3473 2700
Fax +852 2148 3734

Tel. +86 21 62481395

www.colfaxcorp.com/industrial



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