SETTING A NEW INDUSTRY STANDARD IN PERFORMANCE EXCELLENCE

Changeable, quick, agile, and incredibly reliable . . . engineered to meet the challenges of industrial users in today's fast-paced environment. With the flexibility of a bolt-on integral relief valve, a broad choice of field-changeable shaft seals and elastomers, and the time-tested "gear within a gear" pumping principal, the new Haight Universal Series of pumps offer unparalleled flexibility and reduced maintenance expenses.

Discover the **HAIGHT ADVANTAGE** and put it to work for you.

HAIGHT® PUMPS
DIVISION OF: BAKER MANUFACTURING COMPANY

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Evansville, WI 53536
Phone: 800-871-9250
Fax: 608-882-3777
Email: haight pump@baker-mfg.com

THE HAIGHT ADVANTAGE

Your local Haight distributor is a pump professional with the products, knowledge, and experience to provide quality solutions to all your pumping needs.

HAIGHT® PUMPS
DIVISION OF: BAKER MANUFACTURING COMPANY

HAIGHT UNIVERSAL PUMPS

Step up to Quality . . .

Step up to Haight

www.haightpump.com

Pumps that fit . . . Pumps that perform

HAIGHT . . . BETTER BY DESIGN

Haight Pumps are engineered for performance and long life under the most rugged conditions.

TYPICAL COMPETITIVE GEAR DESIGN

The typical cantilevered gear design with the inner idler gear has several pronounced disadvantages that the Haight design eliminates, including:

- Single point of entry liquid feed to gears resulting in a “built-in” inlet restriction. This often requires speed reduction at fluid viscosities above 750 SSU.
- Hydraulic imbalance resulting in shaft deflection and premature wear.
- Increased idler speeds resulting in higher gear tip speeds and accelerated wear.
- Thrust bearing field adjustment needed to keep driver gear properly positioned.

THE HAIGHT ADVANTAGE

Haight pumps feature an inner driving gear coupled to a hydraulically balanced free floating outer gear on a dramatically shortened shaft arrangement.

- Thrust bearing adjustment is eliminated since the gears are precisely positioned without the need for field adjustment.
- Gears rotate on a shaft that is fully supported at both ends by lubricated and vented bearings eliminating deflection which causes wear.
- Pinion and rotor gears are hydraulically balanced by the pumped fluid eliminating pistoning into the casing and cover.
- Dual paths of fluid entry to the gears (rather than one) allows Haight pumps to generate full rated displacement while close-coupled at standard motor speeds, without gear reducers at viscosities up to 10,000 SSU. This eliminates misalignment and significantly reduces cost.
- All rotating components are accessible beneath the front cover making routine cleaning and service faster, and simpler.
- Lower rotor tip speeds result in reduced noise levels.

HAIGHT PUMPS LAST LONGER

- **1-8 GPM**
  Typical top gear speed cantilevered design (RPM) 2,333
  Top gear speed Haight Universal (RPM) 1,750 (Motor Speed)
  Difference 583
- **10-20 GPM**
  Typical top gear speed cantilevered design (RPM) 2,846
  Top gear speed haight Universal (RPM) 1,750 (Motor Speed)
  Difference *1,096*
- **30-80 GPM**
  Typical top gear speed cantilevered design (RPM) 2,407
  Top gear speed Haight Universal (RPM) 1,750 (Motor Speed)
  Difference 657

- A typical cantilevered gear design pumps as shown here must increase the top rotating speed of the gear set by an average of 33% in the 1-8 GPM range, 63% in the 10-20 GPM range, and 38% in the 30-80 GPM range for any given volume of displacement.
- A Haight universal pump requires, on average, 46,720 fewer revolutions **per operating hour** for a given volume of displacement.

THE HAIGHT ADVANTAGE