



# The pumps that set the standard

GODWIN DRI-PRIME® AND HEIDRA® PUMPS – THE BENCHMARK FOR RELIABILITY

godwin   
a xylem brand

# When downtime is not an option

When there's fluid to move – and downtime is not an option – you want pumps you can trust. Whether it's a question of water, wastewater, or industrial fluids, Godwin pumps have earned a world-wide reputation for reliability. Here's why:

## **Automatic self-priming from dry**

Godwin pumps prime and re-prime automatically from dry. In fact, they are so dependable, you can just turn them on and forget about them. This leads to significantly reduced costs for manually priming and repeated re-priming.

## **Robust design for rough handling**

Godwin pumps are made from the bottom up to withstand the wear and tear of rental. That's why the pump-end has a close-coupled design and runs dry without damage. And that's also why the castings are 4 mm thicker compared to a permanently installed process pump.

## **Correct pump sizing**

Reliable pumping is also a question of using the right size pump for the job. With the market's widest range of surface-mounted pumps, we make sure that the right Godwin pump is supplied to every application. This, together with the local and international expertise of TotalCare, ensure efficient pumping solutions.

## **System engineering excellence**

Accurately predicting flows is key to designing reliable pumping systems. The system engineering competence built up by Godwin – the result of over 100 years of experience – is now rooted in Xylem.

## **Close by and available**

And finally, reliability is about availability. You will find that Xylem is always close by, ready with pumps for rental or purchase, ready with service technicians to help you, and spares to keep your pumps pumping. We call it TotalCare services.

Where Godwin pumps are used:



### **Municipal**

- Sewer bypass
- Digester cleaning and sludge removal
- Emergency drainage of floodwaters



### **Mining and quarrying**

- Open pit and underground drainage
- Process water supply and transfer



### **Industrial**

- Wastewater bypass
- Temporary fire pumps
- Temporary raw water supply



### **Construction and tunneling**

- Site drainage
- Stream diversions
- Drill rig water supply



### **Oil and gas**

- Tank cleaning
- Water supply for hydraulic fracturing
- Product transfer
- Pipeline pigging

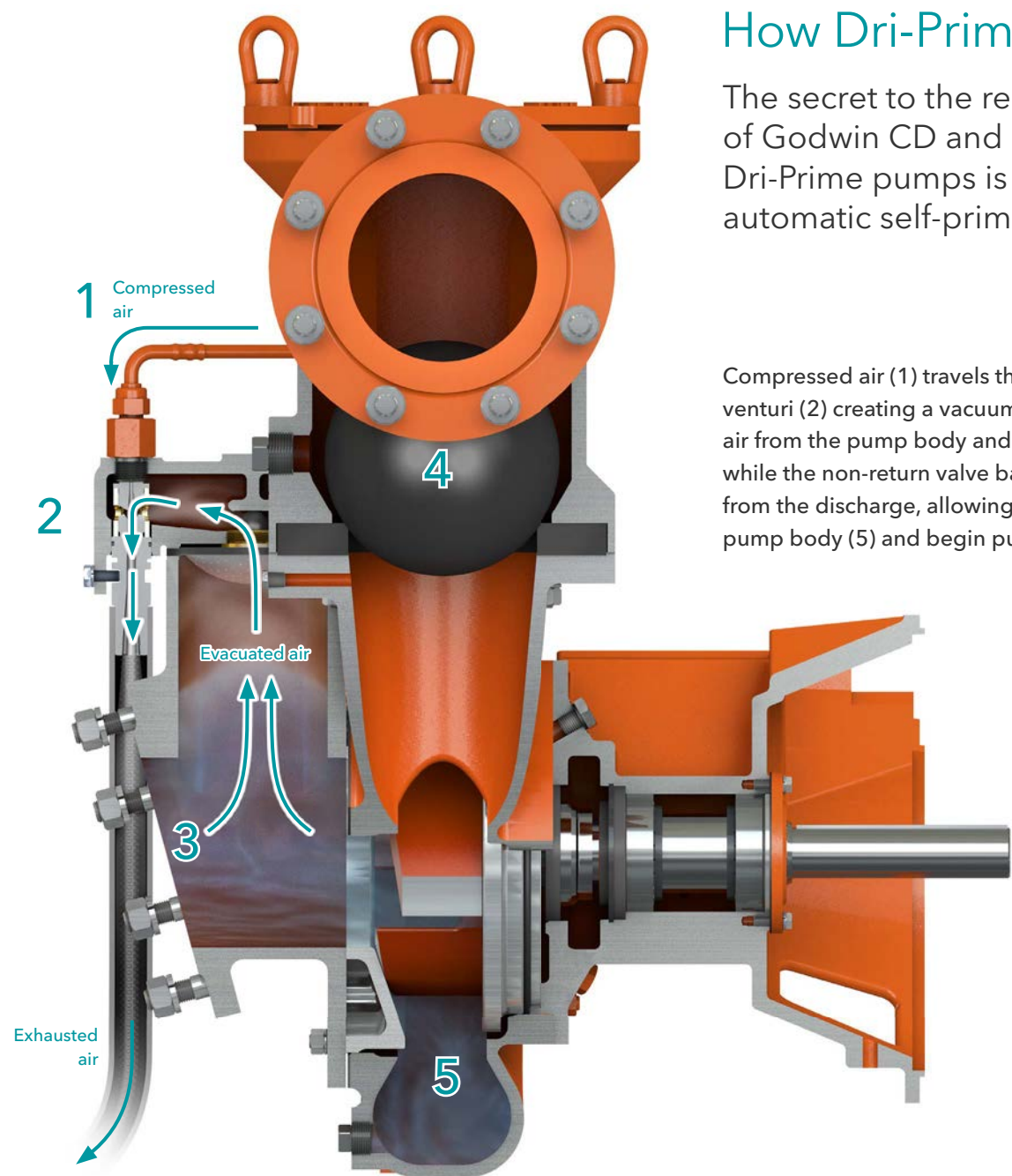


### **Marine**

- Barge ballasting
- Jetting

# How Dri-Prime® works

The secret to the reliability of Godwin CD and HL series Dri-Prime pumps is the automatic self-priming system.



Compressed air (1) travels through the Godwin venturi (2) creating a vacuum by evacuating air from the pump body and suction hose (3), while the non-return valve ball (4) seals out air from the discharge, allowing fluid to enter the pump body (5) and begin pumping.



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# Dri-Prime – the features that set the standard

Godwin Dri-Prime pumps transport raw sewage, sludges and fluids with solids up to 125 mm in diameter. The pumps prime automatically from dry to 8.5 m of suction lift, and can run dry. Choose between the high volume, medium-head CD series and the medium volume, high head HL series.



## **Diesel powered**

Equipped with a diesel engine for stand-alone operation, these pumps will work on any site, no matter how remote. All diesel engines meet the latest emissions regulations.



## **Electric powered**

All CD and HL series Dri-Prime pumps are available with electric motors, for both temporary and permanent installation. Electric-powered pumps do not need refueling, the motor requires less servicing, and they reduce the carbon footprint of any project.

## **Dri-Prime = reduced labor costs and reliable operation**

Automatic priming from dry up to 8.5 m without an operator or foot valve. With no moving mechanical parts in the priming device, Godwin Dri-Prime CD and HL series pumps will prime and re-prime from dry day after day.

## **Liquid bath mechanical seal = dry-running and reduced maintenance costs**

Seals in pumps that often run dry can overheat and fail. Godwin mechanical shaft seals run in a liquid bath, which dissipates heat through the pump casing and allows the pump to run dry. This provides more reliable operation, frees operators from closely monitoring the pumps, while reducing maintenance costs.

## **Abrasion-resistant silicon carbide seal faces = trouble-free performance**

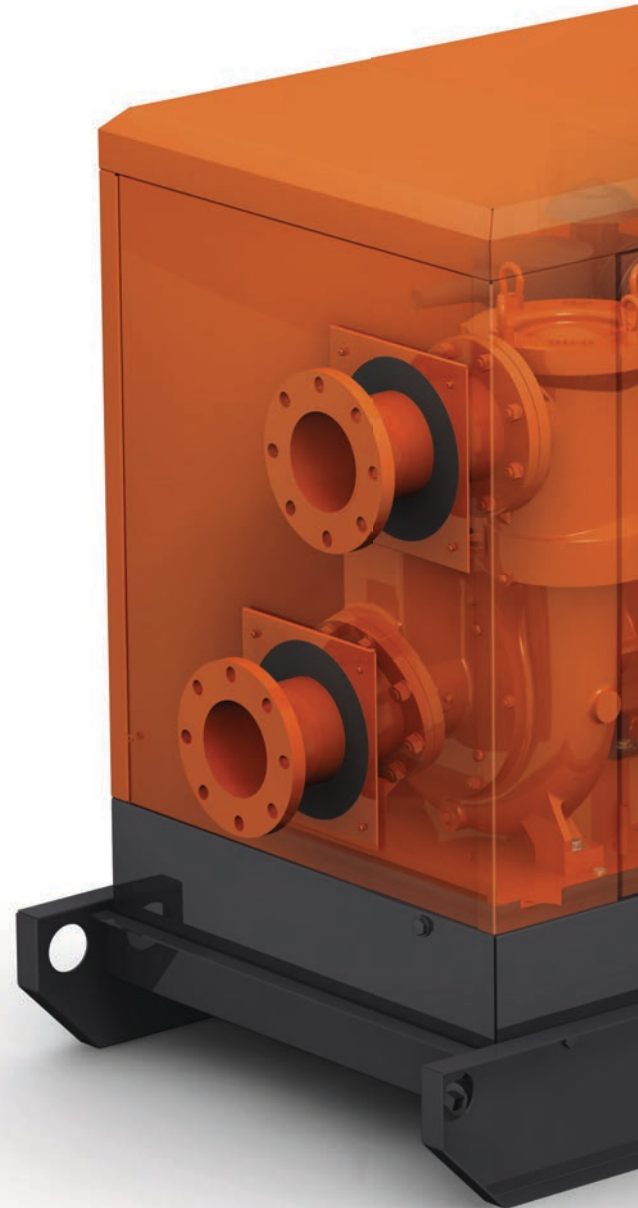
Godwin standard mechanical seals feature silicon carbide faces. They are highly resistant to abrasion and give you a long, trouble-free service lifetime.

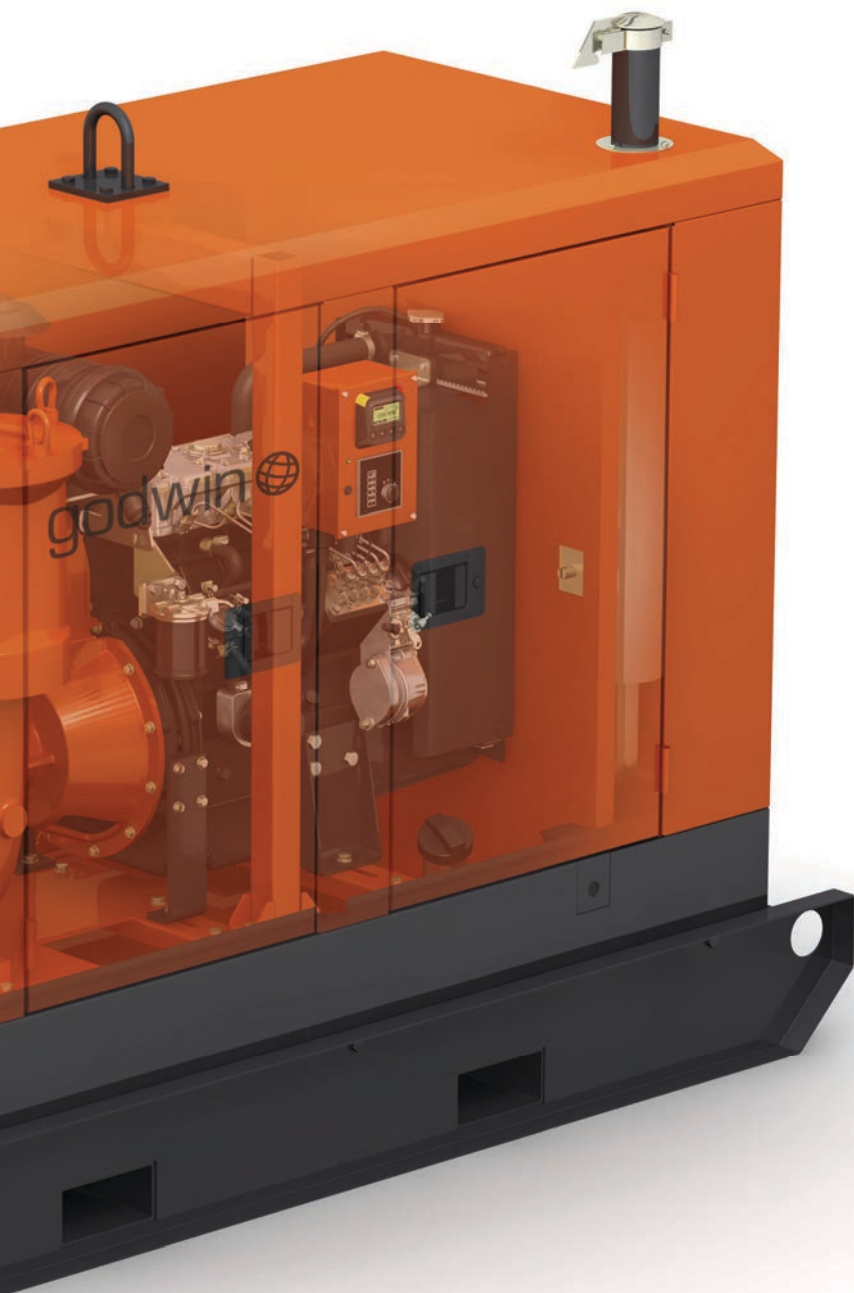
## **Open impeller = versatility and fewer stoppages**

With their open impeller design, Godwin Dri-Prime pumps handle solids of up to 125 mm in diameter, reducing the risk of stoppages. The open impeller also means you can use Godwin pumps in a wide range of applications from water and wastewater, to drilling muds and industrial fluids.

## **Durable pump-end = long lifetime**

Cast iron, the standard build, offers excellent durability. But different applications require greater resistance to abrasion, erosion or corrosion. That's why we offer a variety of other metals such as stainless steel, cast steel, hard iron and high chrome.





**Stainless steel options = superior resistance to abrasion and erosion-corrosion**

The pump-end is available with wetted parts in 316 or CD4MCu stainless steel for pumping liquids with pH values between 2 and 12. For pumping abrasive liquids, hardened wear plates are available as an option.

**Balanced lifting = easy onsite installation**

With a single lifting point and forklift pockets, it is easy to move Dri-Prime pumps around sites with standard construction equipment. Larger pumps weighing over 4,000 kg are equipped with four lifting points. Simple to install, regardless of the environment, you can have your pumps up and running quickly.

**Overnight fuel tank = reduced labor costs**

Diesel driven Dri-Prime pumps can run overnight without the need to refuel – a real saving in labor costs.

**Quiet enclosure = ideal for any environment**

Pumps are available with a sound attenuated enclosure that reduces operating noise – ideal for use in residential and densely populated areas where operating noise is an issue.

**Skid- or trailer-mounted = high mobility**

The skid-mounted pumps are designed for convenient maneuvering with a forklift, while the trailer-mounted pumps are built for road and highway transportation using standard construction vehicles.



**Variable speed operation = flexibility of use and energy savings**

The pumps can operate at various duty points, enabling you to use the same pump for different tasks. By matching the engine or motor speed to each job results in substantial fuel/energy savings.

**Intelligent control panel = automatic operation**

The intelligent control panel enables automatic operation, minimizing the need for manual monitoring. This, together with level control floats, provides increased fuel efficiency, reduced operating costs, plus greater peace of mind.

**Close-coupled design = easy to service pump-end**

The close-coupled design of the pump makes alignments unnecessary, which means that you benefit from simple pump-end changeover in the field.

**Compact design = longer seal and bearing lifetime**

The close-coupling of the impeller and engine/motor reduces shaft deflection at the seals. This results in lower vibration, quieter operation, as well as longer seal and bearing lifetime.

**Double-walled and bunded fuel tanks = environmental protection**

Fuel tanks for pumps fitted with quiet enclosures are double-walled for environmental protection. Open set pumps feature a bunded fuel tank to catch any spillage associated with fueling the diesel engine. This makes Godwin Dri-Prime pumps safe and easy to transport and store.

# Godwin Dri-Prime CD series

High volume, medium head,  
large solids-handling

The CD series at a glance:

- Flow: 80 to 3,500 m³/h
- Solids handling: 125 mm
- Head: 32 to 60 meters
- Elevated head pumps:  
three models with heads  
up to 85 meters



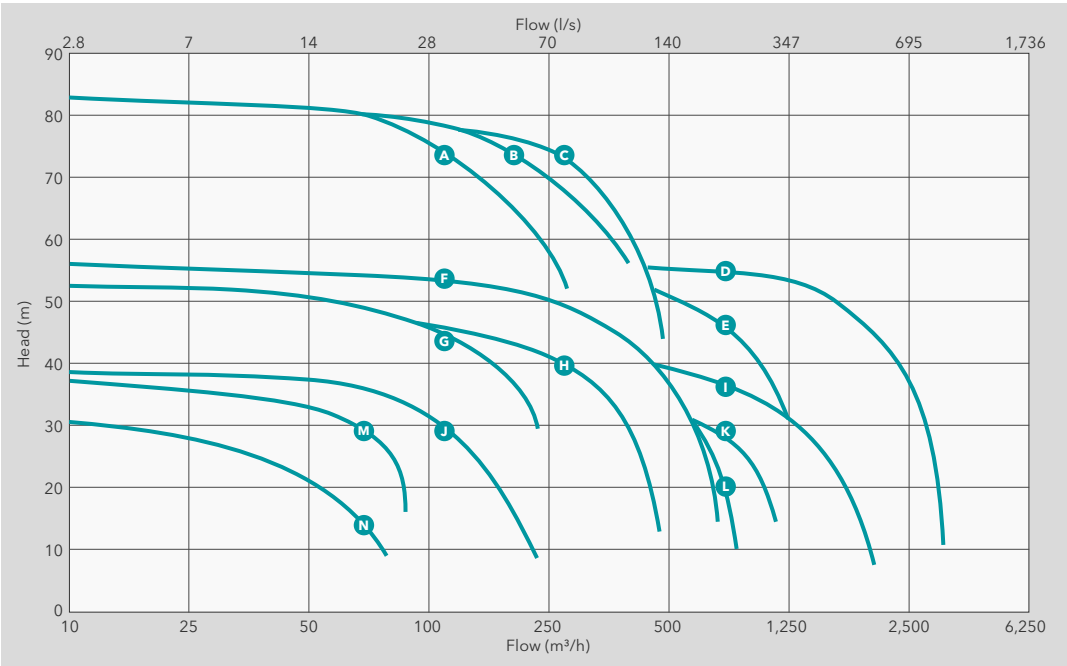
## Specifications

|                   |                          | CD75           | CD80D         | CD100M         | CD103M           | CD150M            | CD225M              |
|-------------------|--------------------------|----------------|---------------|----------------|------------------|-------------------|---------------------|
| Diesel standard   | Suction [mm]             | 50             | 80            | 100            | 100              | 150               | 200                 |
|                   | Discharge [mm]           | 50             | 80            | 100            | 100              | 150               | 200                 |
|                   | Solids handling [mm]     | 40             | 40            | 45             | 75               | 65                | 75                  |
|                   | Diesel engine*           | Yanmar L100 AE | Kubota Z482   | Perkins 403D   | Perkins 404D-22T | Perkins 1104-44TA | Perkins 1106D-E66TA |
|                   | Fuel capacity [l]        | 5              | 72            | 72             | 170              | 390               | 475                 |
|                   | Operating speed [rpm]    | 1500 to 2500   | 1400 to 2000  | 1200 to 2000   | 1200 to 2000     | 1200 to 2100      | 1200 to 2200        |
|                   | Consumed power [kW]      | 2 to 4         | 2 to 3.5      | 3 to 14        | 5 to 30          | 7 to 50           | 10 to 100           |
|                   | Standard mount           | Trolley        | Skid          | Skid           | Skid             | Skid              | Skid                |
|                   | Dimension L x W x H [mm] | 1077x652x800   | 1300x784x1510 | 1300x680x1900  | 1800x1000x1900   | 2500x1300x1900    | 2950x1300x1900      |
|                   | Weight with fuel [kg]    | 150            | 569           | 1050           | 1139             | 2131              | 3100                |
| Quiet enclosure   | dB(A) at 7 m             | N/A            | 54            | 64             | 65               | 66                | 68                  |
|                   | Standard mount           | N/A            | Skid          | Skid           | Skid             | Skid              | Skid                |
|                   | Dimension L x W x H [mm] | N/A            | 1621x853x1333 | 1940x1050x1500 | 2190x1050x1500   | 2890x1300x1800    | 3300x1300x1887      |
|                   | Weight with fuel [kg]    | N/A            | 725           | 1168           | 1400             | 2300              | 3100                |
| Electric standard | Rating [kW]              | 15             | 15            | 7,5            | 15               | 22                | 30                  |
|                   | Voltage [V/phase]        | 400/3~         | 400/3~        | 400/3~         | 400/3~           | 400/3~            | 400/3~              |
|                   | Rated current [A]        | 29             | 29            | 15             | 29               | 41                | 54                  |
|                   | Operating speed [rpm]    | 1450 or 2900   | 1450 or 2900  | 1450           | 1450             | 1450              | 1450                |
|                   | Dimension L x W x H [mm] | 1300x480x900   | 1350x564x1025 | 1200x740x1260  | 1600x740x1260    | 1500x900x1100     | 1750x1140x1300      |
|                   | Weight [kg]              | 306            | 390           | 500            | 590              | 625               | 910                 |

\* Engines from John Deere, Cummins and other manufacturers are available on request.

Performance curves

- A CD140M
- B CD160M
- C CD180M
- D CD500M
- E CD300M
- F CD225M
- G CD103M
- H CD150M
- I CD400M
- J CD100M
- K DPC300
- L CD250M
- M CD80D
- N CD75



Composite curves for comparison purposes only. Consult engineering data for exact flow and head capabilities.

|   |                     |                     |                |                | ELEVATED HEAD   |                     |                           |                           |
|---|---------------------|---------------------|----------------|----------------|-----------------|---------------------|---------------------------|---------------------------|
|   | CD250M              | DPC300              | CD300M         | CD400M         | CD500M          | CD140M              | CD160M                    | CD180M                    |
|   | 250                 | 300                 | 300            | 450            | 500 / 600       | 100                 | 150                       | 200                       |
|   | 250                 | 300                 | 300            | 400            | 450             | 100                 | 150                       | 150                       |
|   | 75                  | 95                  | 95             | 125            | 80              | 75                  | 75                        | 75                        |
|   | Perkins 1106D-E66TA | Perkins 1106D-E66TA | Caterpillar C9 | Caterpillar C9 | Caterpillar C18 | Perkins 1104D-E44TA | Perkins 1106D-E66TA (129) | Perkins 1106D-E66TA (129) |
|   | 475                 | 850                 | 850            | 550            | 1130            | 390                 | 475                       | 475                       |
|   | 1200 to 2200        | 800 to 1200         | 1300 to 1800   | 900 to 1200    | 800 to 1100     | 1200 to 2000        | 1200 to 2000              | 1200 to 2000              |
|   | 15 to 95            | 27 to 120           | 65 to 180      | 80 to 180      | 120 to 460      | 10 to 78            | 17 - 105                  | 20 - 110                  |
|   | Skid                | Skid                | Skid           | Skid           | Skid            | Skid                | Skid                      | Skid                      |
| 0 | 2950×1300×1900      | 3700×1700×2200      | 3700×1700×2200 | 5000×2205×2405 | 5400×2670×2500  | 2500×1300×1900      | 2950×1300×1900            | 2950×1300×1900            |
|   | 3195                | 4314                | 5 531          | 7 750          | 11 750          | 2 060               | 2 780                     | 2 758                     |
|   | 68                  | N/A                 | 70             | N/A            | N/A             | 66                  | 68                        | 68                        |
|   | Skid                | N/A                 | Skid           | N/A            | N/A             | Skid                | Skid                      | Skid                      |
| 7 | 3350×1300×1887      | N/A                 | 4580×2065×2545 | N/A            | N/A             | 2890×1300×1800      | 3350×1300×1887            | 3350×1300×1887            |
|   | 3350                | N/A                 | 6620           | N/A            | N/A             | 2500                | 3455                      | 3400                      |
|   | 30                  | 75                  | 90             | 90             | 350             | 30                  | 45                        | 45                        |
|   | 400/3~              | 400/3~              | 400/3~         | 400/3~         | 400/3~          | 400/3~              | 400/3~                    | 400/3~                    |
|   | 54                  | 131                 | 157            | 157            | 588             | 54                  | 80                        | 80                        |
|   | 1450                | 960                 | 1450           | 960            | 960             | 1450                | 1450                      | 1450                      |
| 0 | 1750×1200×1300      | 2500×1300×1500      | 3250×1550×1900 | 4160×2100×2100 | 5200×2450×3000  | 1700×1140×1250      | 1850×1140×1250            | 1850×1140×1250            |
|   | 945                 | 2750                | 3100           | 6200           | 9525            | 1210                | 1560                      | 1600                      |

With reservation for changes. For additional specifications, see product technical documentation.

# Godwin Dri-Prime HL series

Medium volume, high head,  
solids-handling

The HL series at a glance:

- Flow: 107 to 1,200 m³/h
- Solids handling: 65 mm
- Head: 100 to 160 meters
- Extreme high head pumps: three models with heads up to 193 meters with a single-stage impeller



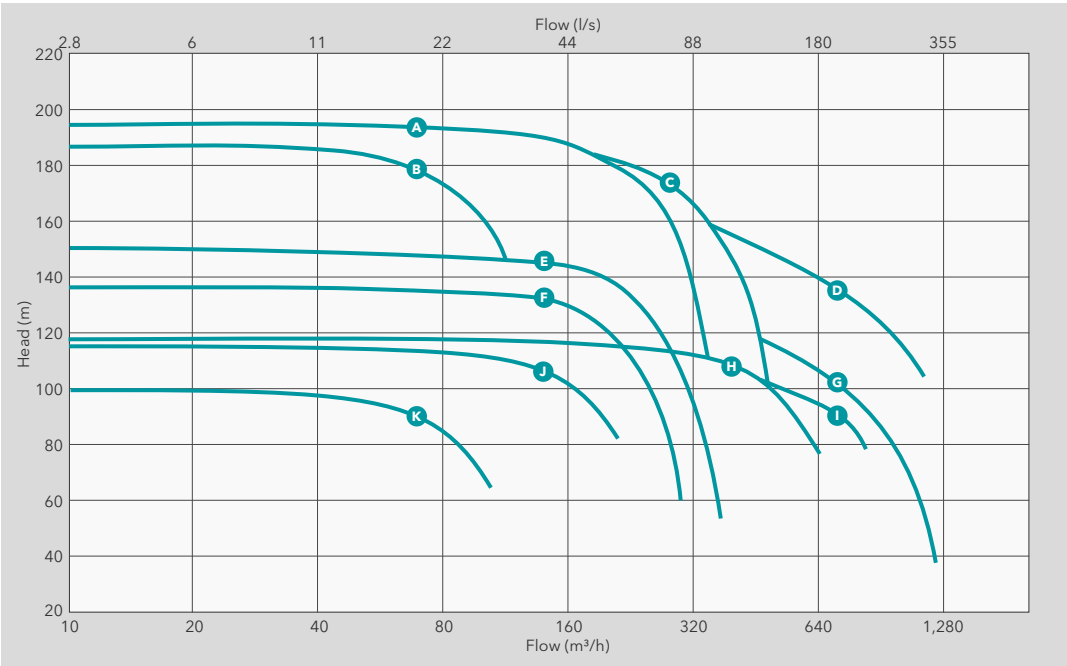
## Specifications

|                   |                          | HL80M            | HL100M              | HL125M                    | HL150M                   |
|-------------------|--------------------------|------------------|---------------------|---------------------------|--------------------------|
| Diesel standard   | Suction [mm]             | 100              | 100                 | 150                       | 150                      |
|                   | Discharge [mm]           | 80               | 100                 | 100                       | 150                      |
|                   | Solids handling [mm]     | 25               | 35                  | 35                        | 35                       |
|                   | Diesel engine*           | Perkins 1104-44T | Perkins 1104D-E44TA | Perkins 1106D-E66TA (129) | Perkins 1106-E66TA (168) |
|                   | Fuel capacity [l]        | 390              | 390                 | 475                       | 475                      |
|                   | Operating speed [rpm]    | 1400 to 2100     | 1400 to 2000        | 1400 to 2200              | 1400 to 2200             |
|                   | Consumed power [kW]      | 8 to 55          | 12 to 72            | 10 to 135                 | 15 to 180                |
|                   | Standard mount           | Skid             | Skid                | Skid                      | Skid                     |
|                   | Dimension L x W x H [mm] | 2500×1300×1900   | 2500×1300×1900      | 2950×1300×1900            | 2950×1300×1900           |
|                   | Weight with fuel [kg]    | 2030             | 2200                | 2600                      | 3012                     |
| Quiet enclosure   | db(A) at 7 m             | 65               | 66                  | 68                        | 71                       |
|                   | Standard mount           | Skid             | Skid                | Skid                      | Skid                     |
|                   | Dimension L x W x H [mm] | 2890×1300×1800   | 2890×1300×1800      | 3350×1300×1887            | 3350×1300×1887           |
|                   | Weight with fuel [kg]    | 2200             | 2450                | 3200                      | 3400                     |
| Electric standard | Rating [kW]              | 15               | 30                  | 30                        | 45                       |
|                   | Voltage [V/phase]        | 400/3~           | 400/3~              | 400/3~                    | 400/3~                   |
|                   | Rated current [A]        | 28,1             | 54                  | 54                        | 80                       |
|                   | Operating speed [rpm]    | 1450             | 1450                | 1450                      | 1450                     |
|                   | Dimension L x W x H [mm] | 1500×800×1200    | 1800×980×1295       | 1825×980×1295             | 2005×1150×1450           |
|                   | Weight [kg]              | 685              | 1200                | 1225                      | 1685                     |

\* Engines from John Deere, Cummins and other manufacturers are available on request.

Performance curves

- A HL130M
- B HL110M
- C HL160M
- D HL260M
- E HL150M
- F HL125M
- G HL250M
- H HL200M
- I HL225M
- J HL100M
- K HL80M



Composite curves for comparison purposes only. Consult engineering data for exact flow and head capabilities.

|    |                |                 |                 | EXTREME HIGH HEAD         |                |                 |                 |
|----|----------------|-----------------|-----------------|---------------------------|----------------|-----------------|-----------------|
|    | HL200M         | HL225M          | HL250M          | HL110M                    | HL130M         | HL160M          | HL260M          |
|    | 200            | 250             | 300             | 100                       | 150            | 200             | 250             |
|    | 150            | 200             | 250             | 80                        | 100            | 150             | 200             |
|    | 38             | 65              | 65              | 20                        | 22             | 35              | 50              |
| 8) | Caterpillar C9 | Caterpillar C15 | Caterpillar C15 | Perkins 1106D-E66TA (129) | Caterpillar C9 | Caterpillar C15 | Volvo TAD1643VE |
|    | 850            | 850             | 685             | 390                       | 850            | 685             | 685             |
|    | 1200 to 2100   | 1200 to 2000    | 1200 to 2000    | 1400 to 2200              | 1200 to 2000   | 1200 to 2000    | 1200 to 1800    |
|    | 25 to 220      | 30 to 275       | 40 to 305       | 20 to 105                 | 30 to 240      | 30 to 300       | 60 to 560       |
|    | Skid           | Skid            | Skid            | Skid                      | Skid           | Skid            | Skid            |
|    | 3700×1700×2200 | 3700×1700×2200  | 4000×1950×2220  | 2500×1300×1900            | 3700×1700×2200 | 5000×2205×2210  | 4300×1980×2525  |
|    | 4750           | 6236            | 6330            | 3000                      | 5331           | 6440            | 6900            |
|    | 70             | 64              | 64              | 68                        | 70             | 64              | N/A             |
|    | Skid           | Skid            | Skid            | Skid                      | Skid           | Skid            | N/A             |
|    | 4580×2065×2545 | 5500×2700×2500  | 5500×2700×2500  | 3350×1300×1887            | 4580×2065×2545 | 5500×2700×2500  | N/A             |
|    | 5968           | 9050            | 9200            | 3600                      | 6550           | 9200            | N/A             |
|    | 75             | 110             | 132             | 37                        | 75             | 132             | 280             |
|    | 400/3~         | 400/3~          | 400/3~          | 400/3~                    | 400/3~         | 400/3~          | 400/3~          |
|    | 131            | 191             | 229             | 66                        | 131            | 229             | 470             |
|    | 1450           | 1450            | 1450            | 1450                      | 1450           | 1450            | 1450            |
|    | 2550×1450×1750 | 2800×1510×1800  | 3000×1510×1800  | 2015×1150×1450            | 2680×1450×1750 | 3000×1510×1800  | 4000×1750×1900  |
|    | 2400           | 2950            | 3100            | 1700                      | 2500           | 3125            | 4750            |

With reservation for changes. For additional specifications, see product technical documentation.

# Electric and efficient

More and more pump operators, site managers and engineers are selecting electric-powered Dri-Prime pumps.

Designed for long lasting durability, electric drive pumps are ideally suited for both temporary pumping and permanent installations where electric power is readily available.

All Godwin CD and HL series Dri-Prime pumps can be supplied with electric motors. The flow and head performance of electric-powered pumps can be matched to meet the performance of all diesel-powered versions.

## Reduced operating costs

Electric-powered pumps require no engine-oil maintenance or battery service. With extended service intervals, they reduce both operating and maintenance costs. A permanently installed electric drive Godwin

### Electric drive benefits:

- » Less maintenance
- » Quiet operation
- » Reduced carbon footprint
- » Automated controls

Dri-Prime pump is perfect for industrial and municipal applications, providing efficient, long life operation.

## Customize for special applications

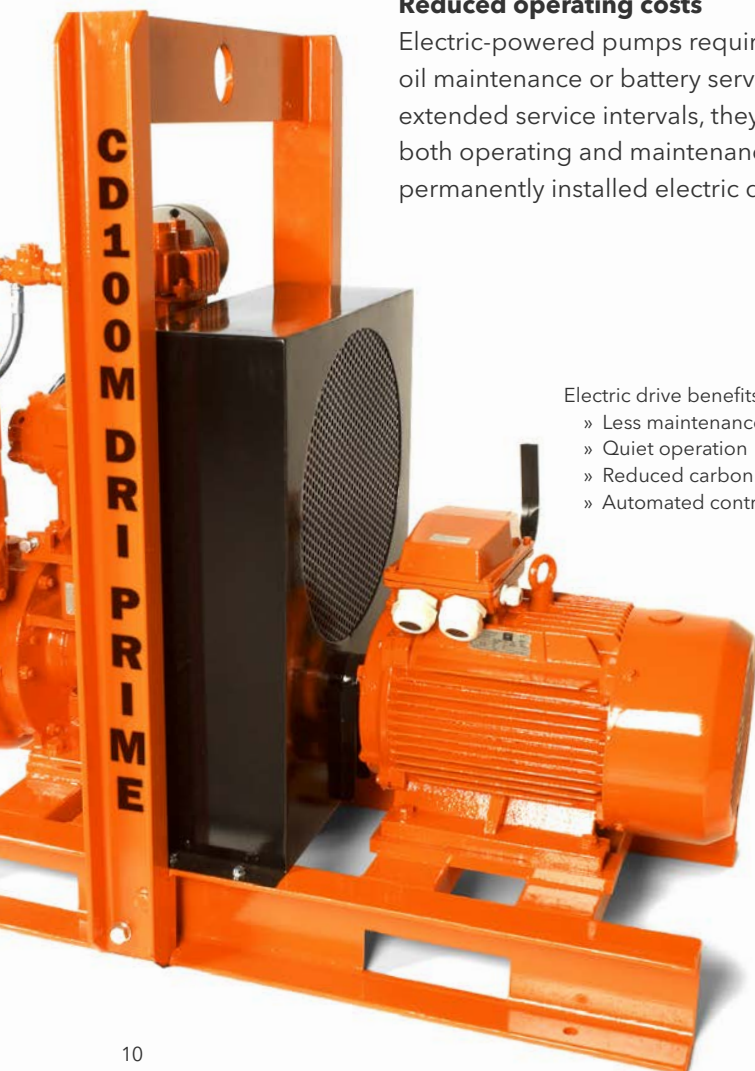
Electric-powered pumps can be customized using a wide range of speed settings and impeller trims.

## More control

Automated controls are easily installed and reduce labor costs by automatically starting and stopping the pump. Using a Variable Frequency Drive (VFD) you can control motor speeds to reach the required duty point, and then decelerate pump speeds on shutdown to prolong the lifetime of the pump and motor.

## Options

- Soft starters
- VFDs - Variable Frequency Drives
- Manual control panels
- Automatic control panels



Permanently installed electric drive Dri-Prime pumps moving effluent from a secondary trickling filter to a chlorination chamber and then discharge.

# Quiet and protected

When you need to operate pumps in residential or densely populated areas, noise levels can be a concern.

Godwin Hush-Pac enclosures are effective. For example, a CD225M open set pump generates 90 dB(A), but just 65 dB (A) at 7 m with an enclosure. That's so quiet, you can hold a conversation standing beside it.

## The quality is in the build

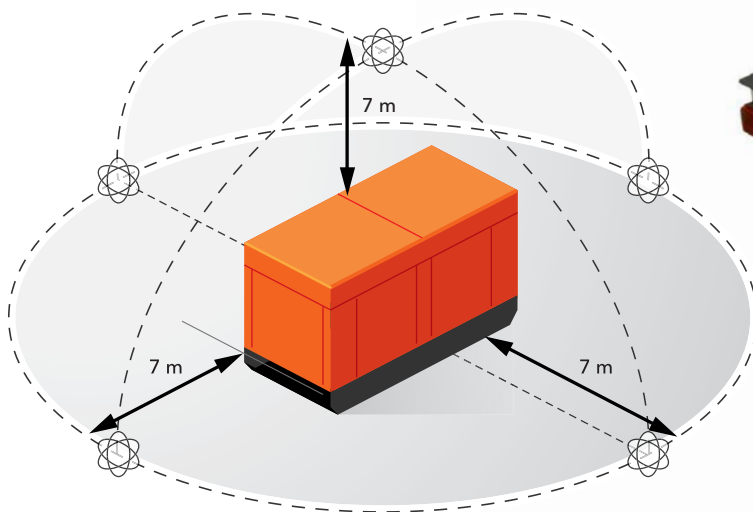
Godwin quiet enclosures consist of sheet metal lined with 25 mm and 50 mm layers of polydamp acoustical sound-deadening material. To further reduce operating noise, the engine features a critical-grade engine silencer, isolated engine vibration and silenced priming exhaust.

## Protective enclosure

The enclosure provides protection against weather. Lockable doors add security against theft or jobsite vandalism.

## Double-walled fuel tanks

Fuel tanks for pumps fitted with quiet enclosures are double-walled for environmental protection.



Graphic showing sound pressure reading location.



Hush-Pac quiet enclosures are available for most diesel- and electric-powered Dri-Prime and Heidra pumps.

# Heidra – the hydraulic submersible

When the suction lift is greater 8.5 m, Heidra pumps take over where Dri-Prime pumps leave off. Heidra hydraulic submersibles are basically Dri-Prime pumps that have been engineered to work submerged in the liquid they pump. Tough and reliable, Heidra pumps are designed for general pumping of light slurries and municipal sludges.

## **Liquid bath mechanical seal = dry-running and reduced maintenance costs**

Seals in pumps that often run dry can overheat and fail. Godwin mechanical shaft seals run in a liquid bath, which dissipates heat through the pump casing and allows the pump to run dry. This provides more reliable operation, frees operators from closely monitoring the pumps, while reducing maintenance costs.

## **Durable pump-end = long lifetime**

Cast iron, the standard build, offers excellent durability. But different applications require greater resistance to abrasion, erosion or corrosion. That's why we offer a variety of other metals such as stainless steel, cast steel, hard iron and high chrome.

## **Open impeller = versatility and fewer stoppages**

With their open impeller design, Godwin Heidra pumps handle solids of up to 125 mm in diameter, reducing the risk of stoppages. The open impeller also means you can use Godwin pumps in a wide range of applications from water and wastewater, to drilling muds and industrial fluids.

## **Double seals = trouble-free operation**

The double mechanical face seals - with the upper seal in carbon and lower seal in silicon carbide - are specified for reliable and trouble-free performance.

## **Vortex impeller = excellent solids handling**

A vortex impeller is available on Heidra 150V and 150VSG models. With its semi-recessed design, a vortex impeller can handle solids of up to 125 mm in diameter.

## **Independent bearings = maximum performance**

The pump bearings are independent from the hydraulic motor. This means that stress associated with pump loads will not affect the performance of the hydraulic motor.

## **Stainless steel options = superior resistance to abrasion and erosion-corrosion**

The pump-end is available with wetted parts in 316 or CD4MCu stainless steel for pumping liquids with pH values between 2 and 12. For pumping abrasive liquids, hardened wear plates are available as an option.

## **Slurry gate = built-in mixer for heavy sludges**

With a built-in slurry gate, the pump can first agitate solids into suspension before pumping them away. This is ideal in applications such as solids-laden sludges found in wastewater treatment plant digesters, environmental clean-ups and oil refinery applications. The remotely-operated slurry gate is available on Heidra 100SG, 150SG, 150MRSG, 150VSG and 200SG.





#### **Intelligent control panel = automatic operation**

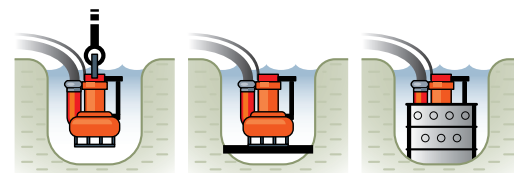
The intelligent control panel enables automatic operation, minimizing the need for manual monitoring. This, together with level control floats, provides increased fuel efficiency, reduced operating costs, plus greater peace of mind.

#### **Hydraulic drive = spark-free operation for hazardous environments**

The hydraulic powerpacks can be positioned up to 40 m away from the submersible pumps. This means that Heidra pumps can be used in oil and gas production, petrochemical, and nuclear plant applications where spark-free tools are required.

## **Temporary installation**

Just position it right and start pumping.



**1. Suspended**

(Not by hydraulic hose)

**2. Supported**

**3. Surrounded**

#### **Overnight fuel tank = reduced labor costs**

The diesel-driven hydraulic powerpacks can run overnight without the need to refuel – a real saving in labor costs.

#### **Diesel-powered = remote operation**

Equipped with a diesel engine for stand-alone operation, these pumps will work on any site, no matter how remote. All diesel engines meet the latest emissions regulations.

#### **Electric-powered = reduced costs**

All Heidra pumps can be powered by electric motor powerpacks. Electric powerpacks do not need refueling, the motor requires less servicing, and they reduce the carbon footprint of any project. Available with soft starts and VFDs for variable speed control.

#### **Variable speed operation = flexibility of use and energy savings**

The pumps can operate at various duty points, enabling you to use the same pump for different tasks. By matching the engine or motor speed to each job results in substantial fuel/energy savings.

#### **Balanced lifting = easy onsite installation**

With a single lifting point and forklift pockets, it is easy to move Heidra pumps around sites with standard construction equipment. Simple to install, regardless of the environment, the pumps will be up and running quickly.

#### **Skid- or trailer-mounted = high mobility**

The skid-mounted pumps are designed for convenient maneuvering with a forklift, while the trailer-mounted powerpacks are built for road and highway transportation using standard construction vehicles.

#### **Quiet enclosure = ideal for any environment**

All pumps are available with a sound attenuated enclosure that reduces operating noise – ideal for use in residential and densely populated areas where operating noise is an issue.

# Heidra submersible pumps

High volume, vortex, high head and slurry gate versions

The Heidra series at a glance:

- Flow: 80 to 1,368 m³/h
- Solids handling: 125 mm
- Head: 25 to 140 meters



## Specifications

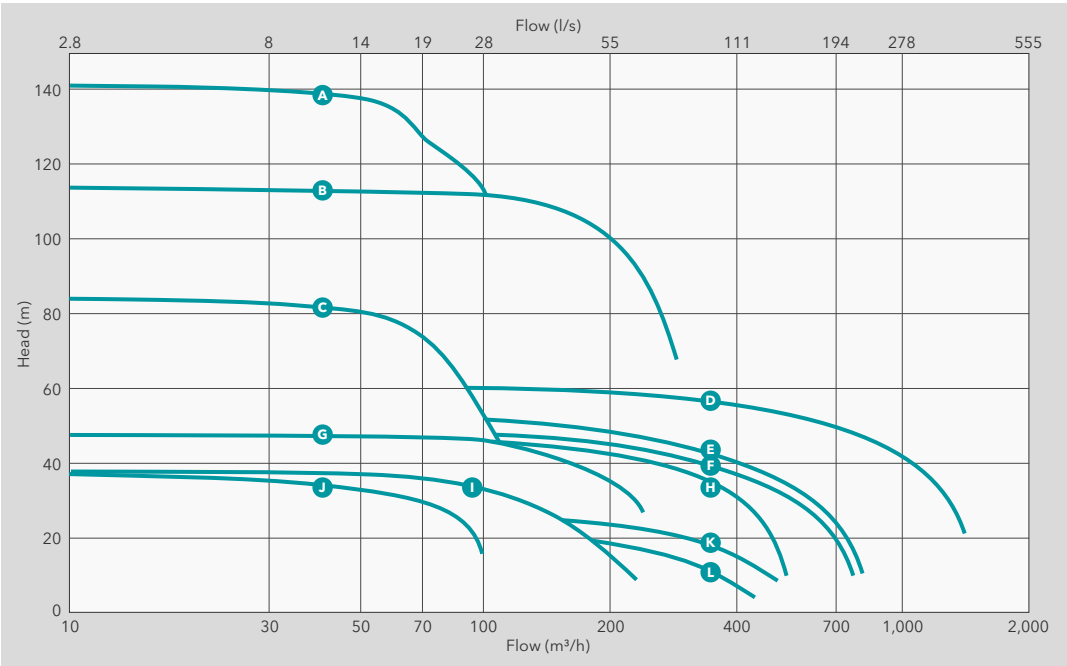
|                    |                       | Heidra 80     | Heidra 100TD    | Heidra 103       | Heidra 150      | Heidra 150MR      | Heidra 150V       | Heidra 200          |
|--------------------|-----------------------|---------------|-----------------|------------------|-----------------|-------------------|-------------------|---------------------|
| Pumpend            | Discharge [Size]      | 3" BSP        | 4" BSP          | 4" BSP           | 6" BSP          | 6" BSP            | 6" BSP            | 200                 |
|                    | Solids handling [mm]  | 40            | 45              | 75               | 65              | 65                | 125               | 75                  |
|                    | Hydraulic motor       | Gear          | Gear            | Gear             | Gear            | Gear              | Gear              | Piston              |
|                    | Drive pressure [bar]  | 250           | 250             | 250              | 250             | 250               | 250               | 250                 |
|                    | Operating speed [rpm] | 1600 to 2200  | 1600 to 2200    | 1600 to 2200     | 1600 to 2200    | 1600 to 2200      | 1500 to 2200      | 1600 to 2200        |
|                    | Consumed power [kW]   | 1 to 5.5      | 4 to 20         | 20 to 25         | 15 to 25        | 30 to 65          | 30 to 65          | 35 to 95            |
|                    | Dimension L×W×H [mm]  | 400×354×558   | 485×420×581     | 500×514×647      | 680×520×570     | 680×520×570       | 577×514×816       | 755×721×1250        |
|                    | Weight [kg]           | 70            | 75              | 130              | 152             | 142               | 161               | 354                 |
| Diesel powerpack   | Power pack model      | GHPU10        | GHPU10          | GHPU30           | GHPU15          | GHPU30            | GHPU30            | GHPU50              |
|                    | Diesel engine*        | Kubota Z482   | Perkins 403D-15 | Perkins 404D-22T | Perkins 404D-22 | Perkins 1104D-44T | Perkins 1104D-44T | Perkins 1104D-E44TA |
|                    | Fuel capacity [l]     | 72            | 158             | 170              | 170             | 390               | 390               | 390                 |
|                    | Standard mount        | Skid          | Skid            | Skid             | Skid            | Skid              | Skid              | Skid                |
|                    | Dimension L×W×H [mm]  | 1300×680×1900 | 1300×680×1900   | 1800×1000×1900   | 1800×520×570    | 2500×1300×1900    | 2500×1300×1900    | 2500×1300×1900      |
|                    | Weight with fuel [kg] | 810           | 945             | 1136             | 1052            | 2250              | 2250              | 2250                |
| Quiet enclosure    | dB(A) at 7 m          | 54            | 64              | 65               | 64              | 65                | 65                | 68                  |
|                    | Standard mount        | Skid          | Skid            | Skid             | Skid            | Skid              | Skid              | Skid                |
|                    | Dimension L×W×H [mm]  | 1300×680×1900 | 2330×1205×2111  | 2190×1050×1500   | 2190×1050×1800  | 2890×1300×1800    | 2890×1300×1800    | 2890×1300×1800      |
|                    | Weight with fuel [kg] | 900           | 1050            | 1300             | 1200            | 2500              | 2300              | 2400                |
| Electric powerpack | Rating [kW]           | 7,5           | 22              | 45               | 22              | 75                | 75                | 110                 |
|                    | Voltage [V/phase]     | 400/3~        | 400/3~          | 400/3~           | 400/3~          | 400/3~            | 400/3~            | 400/3~              |
|                    | Rated current [A]     | 21            | 41              | 80               | 41              | 131               | 131               | 191                 |
|                    | Operating speed [rpm] | 1450          | 1450            | 1450             | 1450            | 1450              | 1450              | 1450                |
|                    | Dimension L×W×H [mm]  | 1245×564×1025 | 1500×900×1100   | 2000×650×1050    | 1500×900×1100   | 2450×1050×1750    | 2450×1050×1750    | 2600×1110×1800      |
|                    | Weight [kg]           | 580           | 700             | 780              | 700             | 2100              | 2100              | 2650                |

\* Engines from John Deere, Cummins and other manufacturers are available on request.

Performance curves

- A Heidra 110HH
- B Heidra 150HH
- C Heidra 80HH
- D Heidra 300
- E Heidra 250
- F Heidra 200 / SG\*\*
- G Heidra 103
- H Heidra 150MR /150MRSG\*\*
- I Heidra 100TD /100SG\*\*
- J Heidra 80
- K Heidra 150V /150VSG\*\*
- L Heidra 150 /150SG\*\*

\*\* Performance curves for slurry gate (SG) versions are the same as standard Heidra pumps.



Composite curves for comparison purposes only. Consult engineering data for exact flow and head capabilities.

|   |                     | SLURRY GATE     |                 |                 |                   |                   | HIGH HEAD           |                   |                     |                     |
|---|---------------------|-----------------|-----------------|-----------------|-------------------|-------------------|---------------------|-------------------|---------------------|---------------------|
|   | Heidra 250          | Heidra 300      | Heidra 100SG    | Heidra 150SG    | Heidra 150MRSG    | Heidra 150VSG     | Heidra 200SG        | Heidra 80HH       | Heidra 150HH        | Heidra 110HH        |
|   | 250                 | 300             | 100             | 150             | 150               | 150               | 200                 | 75                | 150                 | 80                  |
|   | 75                  | 95              | 45              | 65              | 65                | 125               | 75                  | 25                | 35                  | 20                  |
|   | Piston              | Variable Piston | Gear            | Gear            | Gear              | Gear              | Gear                | Gear              | Variable Piston     | Piston              |
|   | 250                 | 310             | 250             | 250             | 250               | 250               | 250                 | 250               | 250                 | 250                 |
| D | 1600 to 2200        | 1200 to 1800    | 1600 to 2200    | 1600 to 2200    | 1600 to 2200      | 1500 to 2400      | 1600 to 2200        | 1400 to 2000      | 1600 to 2200        | 1600 to 2000        |
|   | 35 to 95            | 60 to 190       | 4 to 20         | 15 to 105       | 14 to 65          | 15 to 105         | 20 to 95            | 10 to 60          | 20 to 133           | 40 to 120           |
|   | 755×721×1250        | 1401×1052×1830  | 480×580×700     | 700×650×800     | 700×650×800       | 577×514×816       | 755×721×1250        | 451×506×715       | 664×770×1275        | 730×680×1290        |
|   | 362                 | 945             | 145             | 170             | 172               | 161               | 354                 | 160               | 190                 | 430                 |
|   | GHPU50              | GHPU90          | GHPU10          | GHPU15          | GHPU30            | GHPU15            | GHPU50              | GHPU30            | GHPU50              | GHPU50              |
| A | Perkins 1106D-E66TA | Caterpillar C9  | Perkins 403D-15 | Perkins 404D-22 | Perkins 1104D-44T | Perkins 1104D-44T | Perkins 1104D-E44TA | Perkins 1104D-44T | Perkins 1106D-E66TA | Perkins 1106D-E66TA |
|   | 850                 | 685             | 158             | 170             | 390               | 390               | 390                 | 390               | 850                 | 850                 |
|   | Skid                | Skid            | Skid            | Skid            | Skid              | Skid              | Skid                | Skid              | Skid                | Skid                |
| x | 2950×1300×1900      | 3700×1700×2200  | 1300×680×1900   | 1800×520×570    | 2500×1300×1900    | 2500×1300×1900    | 2500×1300×1900      | 2500×1300×1900    | 2950×1300×1900      | 2950×1300×1900      |
|   | 2598                | 5325            | 1050            | 1052            | 2250              | 2250              | 2250                | 2250              | 2598                | 2598                |
|   | 68                  | 70              | 64              | 64              | 65                | 65                | 68                  | 65                | 68                  | 68                  |
|   | Skid                | Skid            | Skid            | Skid            | Skid              | Skid              | Skid                | Skid              | Skid                | Skid                |
| x | 3350×1300×1887      | 4580×2065×2545  | 1940×1050×1500  | 2190×1050×1800  | 2890×1300×1800    | 2890×1300×1800    | 2890×1300×1800      | 2890×1300×1800    | 3350×1300×1887      | 3350×1300×1887      |
|   | 3350                | 6920            | 1180            | 1200            | 2500              | 2500              | 2400                | 2500              | 3350                | 3350                |
|   | 110                 | 200             | 22              | 22              | 75                | 75                | 110                 | 75                | 110                 | 110                 |
|   | 400/3~              | 400/3~          | 400/3~          | 400/3~          | 400/3~            | 400/3~            | 400/3~              | 400/3~            | 400/3~              | 400/3~              |
|   | 191                 | 360             | 41              | 41              | 131               | 131               | 191                 | 131               | 191                 | 191                 |
|   | 1450                | 1450            | 1450            | 1450            | 1450              | 1450              | 1450                | 1450              | 1450                | 1450                |
| x | 2600×1110×1800      | 3500×16500×2000 | 1500×900×1100   | 1500×900×1100   | 2450×1050×1750    | 2450×1050×1750    | 2600×1110×1800      | 2450×1050×1750    | 2600×1110×1800      | 2600×1110×1800      |
|   | 2650                | 5100            | 700             | 700             | 2100              | 2100              | 2650                | 2100              | 2650                | 2650                |

With reservation for changes. For additional specifications, see product technical documentation.

# More intelligence – less operator supervision

Intelligent controllers minimize the need for onsite supervision while providing operators with valuable data to monitor how the pumps are performing.

## PrimeGuard™

PrimeGuard is a fully programmable microprocessor control system. Its many features include service alerts and SCADA integration. With PrimeGuard your Godwin Dri-Prime pump can start and stop automatically with no operator intervention required. This is made possible by registering input from level, flow or pressure transducers or floats.

- Automatic start/stop without operator intervention
- Remote start/stop capabilities
- Maintains oil and filter schedule, alerting operator when service is required
- Stores history of all warning alarms
- Digital controls
- Password protected security levels
- 8 programmable relays (sensors)
- 66 selectable features, incl. pump running, pump failure, etc
- Communication ports for SCADA integration and alarm agents
- Warm-up and cool-down cycles



PrimeGuard is available as an option on all CD and HL series Dri-Prime pumps with diesel engine ratings greater than 140 kW.



Powerview

## Powerview

Powerview is our standard digital control panel

- Digital display shows engine speed, oil pressure, fuel rate, warnings and operating hours providing easy access to all operating data
- Automatic operation mode with start/stop triggered from floats eliminates operator assistance and reduces labor costs
- Throttle control allows operator to manually control pump speed according to flow
- Zintec steel casing and weather-resistant electrical connections for reliable performance

## Control options for electric-driven Dri-Prime and Heidra pumps

- Soft starters
- VFD – Variable Frequency Drive
- Manual control panels
- Automatic control panels

# Faster installation and smoother operation

Simplify installation and everyday operations  
with our extensive range of accessories.

Suction hoses



Discharge hoses



Suction hoses with  
fitted strainers

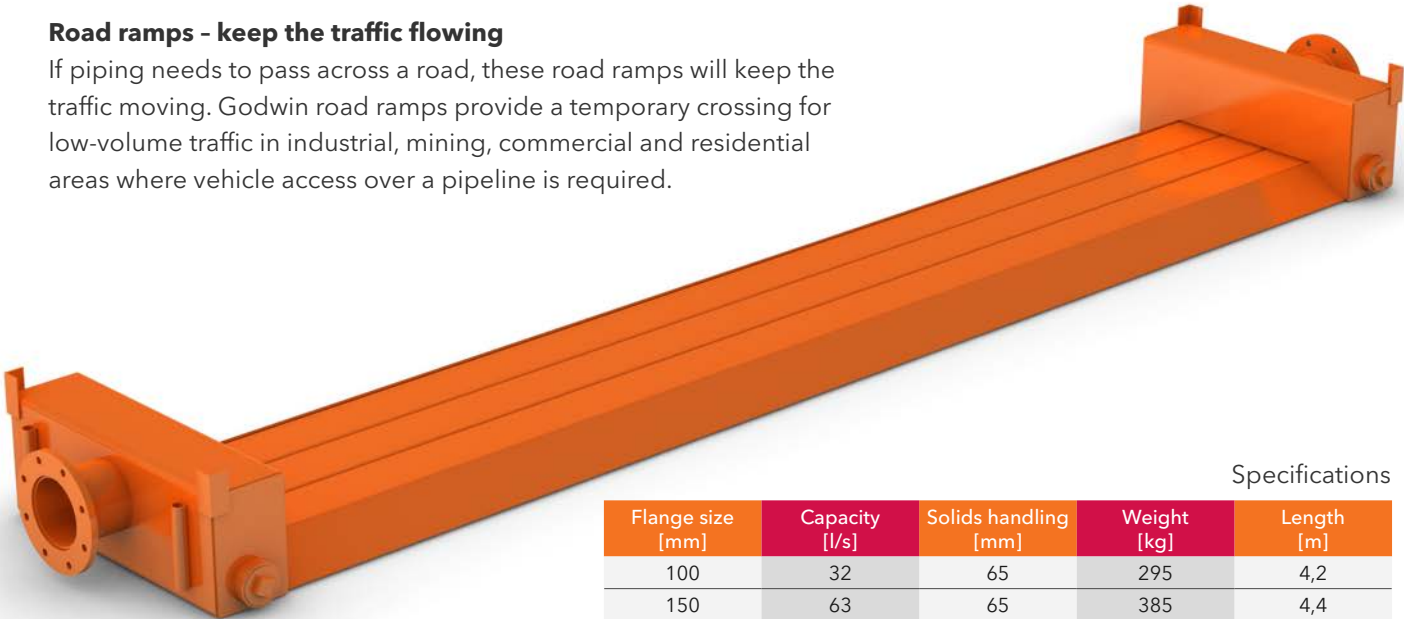


Quick release pipes  
and adapters



## Road ramps - keep the traffic flowing

If piping needs to pass across a road, these road ramps will keep the traffic moving. Godwin road ramps provide a temporary crossing for low-volume traffic in industrial, mining, commercial and residential areas where vehicle access over a pipeline is required.



Specifications

| Flange size<br>[mm] | Capacity<br>[l/s] | Solids handling<br>[mm] | Weight<br>[kg] | Length<br>[m] |
|---------------------|-------------------|-------------------------|----------------|---------------|
| 100                 | 32                | 65                      | 295            | 4,2           |
| 150                 | 63                | 65                      | 385            | 4,4           |
| 200                 | 126               | 65                      | 860            | 4,5           |
| 300                 | 252               | 65                      | 1045           | 4,6           |
| 450                 | 441               | 90                      | 2265           | 4,9           |
| 600                 | 758               | 90                      | 3250           | 5,6           |

(Maximum load capacity of 10,000 kg per axle. Maximum crossing speed of 8 km/h.)

# Making the most reliable pumps even more reliable



When you work with Xylem TotalCare services, you get secure, optimal operations that come only with broad engineering expertise in water and wastewater.

Xylem TotalCare is a comprehensive, integrated portfolio of services that keeps your business running at its best. TotalCare services are built upon Xylem's deep systems knowledge and expertise in water and wastewater applications, which ensure your operational security and give you more time to focus on your core business.



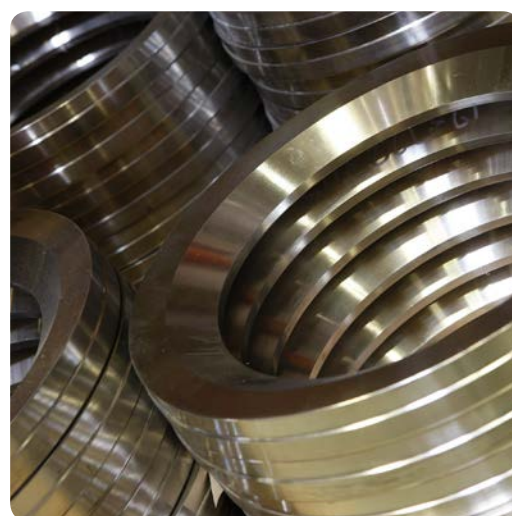
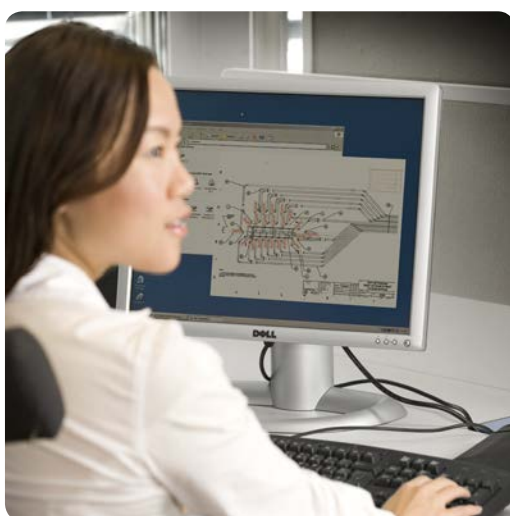
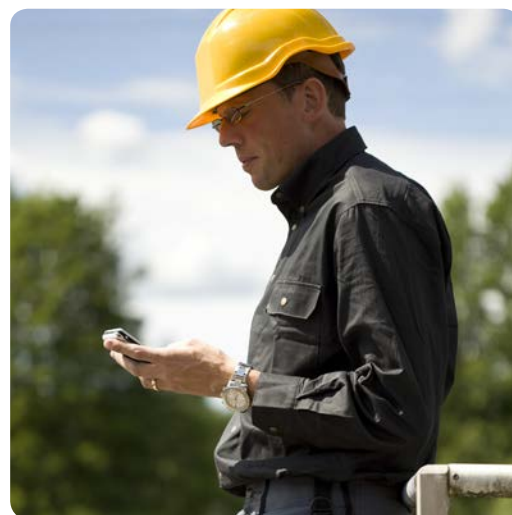
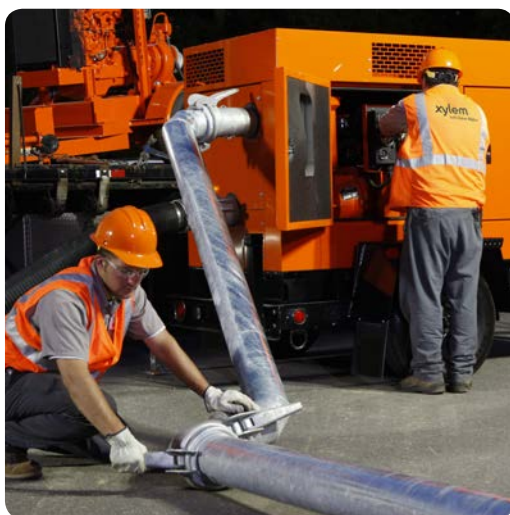
#### **Parts & Logistics**

Enjoy the peace of mind that comes with knowing the equipment and spares you need are always on hand and readily available - whether for regularly scheduled maintenance or emergency callouts.



#### **Rental & Onsite services**

Rent best-in-class dewatering or bypass pumping equipment on your terms, without the capital expenditure costs. Choose from short-term, long-term, try-before-you-buy and everything in between.



### Repair & Maintenance

Use cost-effective service agreements to enhance operational reliability through preventative maintenance. We offer a wide range of repair and maintenance services conducted either onsite and or at one of our workshops.



### Installation & Commissioning

Take advantage of our broad installation and commissioning services - from project management and supervision of installation through to start-up and commissioning.

All services may not be available in all countries. We are constantly adding services so please check availability with your sales representative.



### Design & Consultancy

Get the right size pump for the job. Xylem offers comprehensive engineering consultancy services, including feasibility studies and design services for new installations or remodeling, expanding or upgrading existing ones.



### Asset Refurbishments

Protect the value of your ageing assets and minimize capital expenditures. Upgrade a single piece of equipment or renovate your entire plant by conducting a site audit and redesigning from the beginning.

# Xylem ['zīləm]

- 1) The tissue in plants that brings water upward from the roots
- 2) A leading global water technology company

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to [xyleminc.com](http://xyleminc.com)



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**[www.godwinpumps.com](http://www.godwinpumps.com)**

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