



# PRODUCT DATA SHEET

---

## RIGSAFE 3 | 8BHP HT-400 PUMP

**REGOMS Engineering (M) Sdn. Bhd.**

No. 10-1, Jalan 13/48A, The Boulevard Shop Office Sentul Raya, Sentul Selatan, 51000 KL. WP. Malaysia

Tel : +603 2858 2600 Email : sales1@regoms.com

**RIGSAFE 318BHP HT-400 PUMP****GENERAL DESCRIPTION AND MAJOR COMPONENTS**

The **HT-400 PUMP MODULE** is a skid mounted single pump unit powered by Detroit Diesel GM 8V71N diesel engine rated for 318 BHP @ 2100 RPM through Allison Model HT 750 DRD five (5) speed automatic transmission. The unit is complete with a safety shutdown system ie engine overspeed and overpressure shutdowns

Diesel engine controls and instrumentation are located in centrally located control console fitted to the base of the skid to allow simultaneous control and monitor of all aspects of the pumping job. The equipment is mounted on a single custom-built heavy-duty skid constructed with I-beam structural steel runners with protective heavy duty offshore frame and four (4) top lifting points for use with the certified sling

**DIESEL ENGINE**

MAKE	: <b>Detroit Diesel GM 8V71N</b>
Nominal HP	: 318 BHP @ 2100 RPM
Radiator	: Rated for 55 deg C (+ 130 deg. F)
Starter	: Pneumatic starter complete with lubricator and manual starting valve
Exhaust	: Spark arresting mufflers
Engine Fan	: 36 inch, 8 blade, blower type,
Air Compressor	: Tu-Flo 400 (12 cu ft) direct mount w/air receiver integral of skid
Air Cleaner	: Dry Type
Fuel Tank	: 100 gallon

### TRANSMISSION

MAKE : **Detroit Diesel Allison HT 750 DRD** Automatic five (5) speed transmission.

<u>Gear</u>	<u>Ratio</u>
First	7.97 : 1
Second	3.19 : 1
Third	2.07 : 1
Fourth	1.40 : 1
Fifth	1.00 : 1

The HT-750 gear selection ranges are N (neutral), 1st (first gear only), 2nd (second gear only), 2nd-3rd (automatic shifting between second and third), 2nd-4th (automatic shifting between second, third & fourth) and 2nd-5th (automatic shifting between second, third, fourth & fifth). No converter lock-up.

### TRIPLEX PUMP

MAKE : **Halliburton HT-400**

Type : Single Acting Plunger Type

Arrangement : Horizontal

Stroke Length : 8" (202.6 mm)

Plunger Size : 4-1/2" (114 mm)

Maximum Pressure : 11,200 psi (77.2 MPa)

Maximum Volume : 9.6 bbl/min (1.53 m cu/min)

Ram Oil : Air over oil

Manifold : 5" rear suction, 2" bleed and 2" rear discharge

Gauge : Martin Decker Style – Wika panel mount, 0 - 15,000 PSI (Operators console)

Relief Valve : SPM set at 10200 psi and adjustable

The pump has a worm reduction gear drive ratio of 8.6:1 totally enclosed in a all steel power case and is equipped with roller bearings throughout. The pump is also equipped with acid resistant steel plungers and is recommended for pumping acid, water, drilling fluids and other fluids as well as cement slurries.

The pump power end is of a heavy-duty design for 500hp input horsepower capability on **intermittent services**.

The triplex pump is equipped with a six inch (6"), 15,000 psi discharge pressure gauge mounted on the unit operators console and connected by a 1502 gauge protector and hose.

### CONTROLS & INSTRUMENTATION

Controls and instrumentation are located in an centrally located control console for ease access and visibility.

#### Controls

Engine throttle  
 Engine starter  
 Engine shutoff  
 Transmission shift  
 Ram oiler valve

#### Operations

Pneumatic  
 Pneumatic  
 Pneumatic  
 Manual  
 Pneumatic

**Instrumentation**

Flowmeter / Totaliser in Barrels  
Engine oil pressure gauge  
Engine water temperature gauge  
Engine tachometer  
Transmission pressure gauge  
Transmission temperature gauge  
Triplex pump pressure gauge  
Triplex pump temperature gauge  
Discharge pressure gauge  
Amot engine overspeed shutdown system  
Adjustable pump overpressure shutdown

**Operations**

Electronic  
Hydraulic  
Mechanical  
Mechanical  
Hydraulic  
Mechanical  
Hydraulic  
Mechanical  
Hydraulic  
Mechanical /Pneumatic  
Mechanical/Pneumatic

----- \*\* -----

For a quotation and detailed pricing, please contact our sales team:

**REGOMS Engineering (M) Sdn.**

**Bhd.** No. 10-1, Jalan 13/48A, The  
Boulevard Shop Office Sentul Raya,  
Sentul Selatan, 51000 KL. WP.  
Malaysia  
Tel : +603 2858 2600  
Email : [sales1@regoms.com](mailto:sales1@regoms.com)

**REGOMS Australia Pty Ltd.**

Level 1, 16, McDougall Street,  
PO Box 1279, MILTON QLD 4064  
Australia  
M: +614 0008 4977  
F: +617 3198 2401  
E :[sri@regoms.com](mailto:sri@regoms.com)  
<https://www.regoms.com>

*Any modification of the content, duplication or reprinting of this datasheet, as well as any distribution to third parties - even in parts - shall require the express written approval of REGOMS.*