



ATEX-approved hydraulic starting systems



Safe starting without compromise

Starting critical engines for oil and gas

- Pre-engaged mechanism reduces spark risk
- Cast-iron casing prevents dangerous thermite reaction
- Approved to ATEX, BS EN 1834 and BS EN 13463 standards
- Optional beryllium copper non-spark pinions for ultimate safety

Call IPU's Engine Starting Division on 0121 511 0400



IPU's pre-engaged hydraulic starters: flexible ▶ powerful ▶ reliable

IPU's M22 and M28 pre-engaged hydraulic starters are bursting with features that make them perfect for the oil and gas industry.

Safety is never optional

The ATEX-approved M22 and M28 use a pre-engaged starting sequence: the high-speed cranking process does not begin until the starter's pinion has engaged with the engine's ring gear.

IPU's starters are fully cast iron and contain no aluminium that could cause a catastrophic thermite reaction, which may lead to an ignition source in hazardous areas.

Non-spark beryllium-copper pinions can be specified to resist even the slightest chance of sparking.

Low-cost installation and maintenance

The M22 and M28 can be oriented to fit any engine with the standard adjustable flanges or a custom flange. Low maintenance in harsh conditions make them ideal for arctic and equatorial platforms and everything in-between.

IPU starters can be supplied as kits, bare motors, selfcontained mini-packs or custom packages.

Specifications

Maximum working pressure

Fluid media

Viscosity range

Temperature range

Speed range

Duty cycle

Overall volumetric efficiency

Displacement

12kg

Cast-iron

21 MPa (3000 PSI)

Mineral oil

ISO 32 to 46 (SUS 140-230)

-30°C to +100°C (-22°F to +212°F)

0-4000 rpm

Clockwise (Counter-Clockwise option)

Intermittent

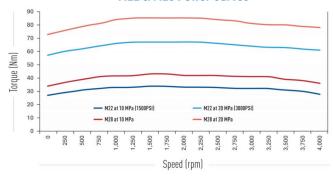
92% (Minimum)

M22: 22.1 cc; M28: 28 cc

M22: 66 Nm (49 lbf.ft.); M28: 84Nm

M22: 24 kW (32 HP); M28: 31kW

M22 & M28 Power Curves



IPU Group Engine Starting

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