

Probot™

High-Performance Probe Pusher System



Benefits and Features

- Light, compact, small footprint
- Sealed to IP65
- Robust and resistant to harsh environments
- Fully integrated — power supply and controls (no external boxes)
- No compressed air supply necessary (electric belt tensioner)
- Designed for two-person and one-person operation
- Seamlessly integrated with Magnifi® for automated and fully manual modes

Strong, compact, and light in the same package.

Probot is a powerful, highly advanced, compact, and light probe pusher system. It is easy to transport and set up, has a small footprint, and offers the robustness required by the industry.

The system is designed with versatility in mind, exceeding the requirements of BoP inspections, while offering the oil and gas and other industries an extraordinary productivity-enhancing tool. By automating probe motion during heat exchanger inspection, the system always yields accurate and reliable data at speeds optimized for the technique.

Probot makes one-person inspection a reality — users can benefit from a significant competitive edge with this production-oriented probe pusher. **Probot** can dramatically and safely increase inspection speed, while maintaining high quality.

Probot is compatible with industry-standard probes and is fully integrated into Eddyfi's product lineup. The probe pusher system is designed to enhance the operation of our most innovative tubing probes. Configure and control the system with **Magnifi**, the most advanced multi-technology software for tube inspections. Adding the **Ectane** test instrument to the mix creates the most powerful heat exchanger inspection system on the market.

Specifications

| Item | Description |
|---------------------------|---|
| Weight | Drive w/o belts or protective covers: 22.3 kg (49 lb) Drive: 23.6 kg (52 lb) Take-up reel: 6.4 kg (14 lb) |
| Dimensions (W×H×D) | Drive: 307×277×554 mm (12.1×10.9×21.8 in) Drive and take-up reel: 361×521×940 mm (14.2×20.5×37.0 in) |
| Operating temperature | 0–45 °C (32–113 °F) |
| IP rating | Designed for IP65 |
| Speed range | 0–2.5 m/s (0–100 in/s) Wide range of speeds to accommodate various inspection techniques |
| Push force | Peak: 445 N (100 lbf) Continuous: 245 N (55 lbf) |
| Supported poly sizes | 9.53 mm (3/8 in) 7.94 mm (5/16 in) 6.35 mm (1/4 in) — optional belt required |
| Supported probe diameters | 7–23 mm (0.276–0.906 in) |
| Spool outer diameter | 406.4 mm (16 in) |
| Spool capacity | 33.5 m (9.53 mm tubing) [110 ft (3/8 in tubing)] |
| Encoder resolution | 18.796 counts/mm (477.406 counts/in) |
| AC input voltage | 110–120V/220–240V 50–60Hz |



Probe gun



Remote emergency stop button

Accessories

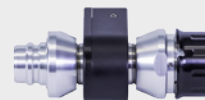
| Item | Description |
|-----------------------|--|
| Slip ring models | 4 pins 19 pins 36 pins |
| Conduits | 0.6 m, 1.2 m, 1.8 m (2 ft, 4 ft, 6 ft) |
| Conduit adapters (OD) | 19.1 mm and 23.8 mm (3/4 in and 15/16 in) |
| Spool | 406.4 mm (16 in) [OD] |
| Probe gun (optional) | Ergonomic, robust, four programmable buttons (e.g., jog, sequence launch, next tube) Emergency stop button Designed for left-handed and right-handed use |
| Probe gun cable | 6.1 m (20 ft) |
| Sensing coil | For fail-safe operation near the drive and to enhance some automated modes |



Take-up reel



Slip ring (4-pin model shown)



Sensing coil



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