



VPT3 POSITION TRANSDUCER FOR CONTINUAL AND RELIABLE POSITION MEASUREMENT

The key ability of the VPT3 Position Transducer is to provide continual, accurate and reliable linear position measurements in a hostile rolling mill environment.

Typically used for rolling mill position control measurement in both the steel and aluminium industries. Suitable for all mill types, from hot mills through to aluminium foil mills.

Electrical connection is via a stainless steel braided PTFE signal cable hose to a quick disconnect mill duty electrical connector (for alternatives see optional extras).

The VPT3 Position Transducer is designed for mounting to the outside of roll load cylinders via its quick release, anti-backlash, self-aligning attachment system (for which no tools are required for attachment or removal).

Available in a range of stroke lengths, to suit specific mill requirements. Construction is of stainless steel, with large bearing surface areas to ensure a reliable and long operating life.

Low friction seals prevent contamination. Bellow-less design for ultimate in mill reliability. Designed for new installations, but easily incorporated into existing rolling mills as an upgrade for enhanced performance and increased reliability.

Anti-backlash feature allows for safe removal. No compression spring, therefore no stored energy or the need for special maintenance tools or procedures.

MAIN BENEFITS

- Accurate position feedback.
- Incremental position signal.
- High reliability.
- Robust construction.
- Small installation envelope.
- Easily installed and maintained.
- Universal for all mill types.
- No stored energy from compressed springs

REFERENCES

- Over 400 VPT3's installed worldwide

OPTIONAL EXTRAS

- Signal cable hose directly wired to junction box.
- Junction box with mating connector.
- Signal cable hose 6m or 9m long.
- Alternative mounting brackets.



Quick release anti-backlash self-aligning mounting brackets



Junction box for direct wiring

TECHNICAL SPECIFICATIONS

- Measuring strokes; 25, 50, 75, 100, 150, 200, 250 and 300 (mm).
- Accuracy < ± 5 microns
- Resolution $0.5 < 10$ microns, dependant on amplifier interpolator settings
- Low voltage d.c. output to interface with a proprietary amplifier interpolater unit.
- Electrical connection with 4.5m hose and quick disconnect mill duty connector (direct wiring junction box as an optional extra)
- Standard mounting brackets for direct mounting with quick release feature (custom brackets available as an optional extra)
- Self-aligning intergrated mountings at each end of position transducer, incorporating anti-backlash feature
- EC machinery directive 2006/42/EC (partly completed machinery, not listed in annex IV)

OPERATING PRINCIPLES

- Utilising a non contact magnetic measurement principle, providing an incremental linear position signal
- Direct mounting to the outside of the roll load cylinder, enabling easy maintenance
- Two VPT3's are normally fitted to each roll load cylinder to compensate for cylinder tilt

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