



ENCAPSULATED HOSE LOOMS

DRILL RIG APPLICATIONS | TECHNICAL DETAILS

ENGINEERED PROTECTION



Overview

Heavy-duty polyurethane encapsulated hose looms designed for demanding mining and industrial environments. Manufactured to deliver maximum hose protection, improved hose lifespan, full traceability, and a fully customisable solution, these looms provide a reliable way to manage multiple hydraulic and service lines in high-wear applications.

INCREASES

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- Service life
- Equipment reliability
- Hose management
- Safety in harsh environments
- Impact and abrasion resistance

DECREASES

-

- Hose failures
- Downtime
- Hose Mechanical Stresses
- Hose-to-hose contact
- Maintenance cost

SPECIFICATION

DETAILS

AT A GLANCE

FRAS SAFETY RATING

FRAS-rated components ensure compliance for use in hazardous mining environments:

- Reduced ignition risk in explosive atmospheres
- Prevention of static charge buildup
- Improved fire resistance from external ignition
- Compliance with AS2660, AS1180, TRG41 & RS23

OPTIMISED HOSE LAYOUT & POSITIONING

Each hose is individually tensioned during encapsulation to ensure:

- Accurate alignment
- Uniform positioning
- Reduce mechanical hose stresses
- Consistent loom geometry

ENHANCED PROTECTION

Designed to maximise protection

- Critical hoses (percussion / high-duty) positioned centrally
- Maximum polyurethane coverage and external protection
- Superior abrasion and impact resistance

PIRTEK MULTI-SPIRAL HYDRAULIC HOSES

Designed for high-pressure mining and heavy-duties hydraulic applications:

- High pressure up to ~6000 psi (»420 bar)
- Multiple high-strength steel spiral reinforcements
- High impulse resistance & pressure-cycle durability
- High flow capacity for large-bore applications

ENGINEERED INTERNAL SPACING

Precision spacers maintain hose separation and positioning

- Controlled polyurethane distribution
- Stable hose positioning
- Prevention of hose-to-hose contact
- Maintained structural integrity

FULL TRACEABILITY

Each loom includes comprehensive identification:

- Individual and unique hose identification number
- Unique 5-digit loom identification number
- QA documentation, stored in a cloud-based system

QUALITY ASSURANCE PROCESS

1

Assembly details recorded

2

Complete visual inspection

3

Cleaning & finishing

4

Dimensional verification

5

Final acceptance

FRAS

Fire Resistant Anti-Static

HOSE TYPE

Pirtek Multi-Spiral

PRESSURE

Up to ~6,000 psi (420 bar)

LOOM LENGTH

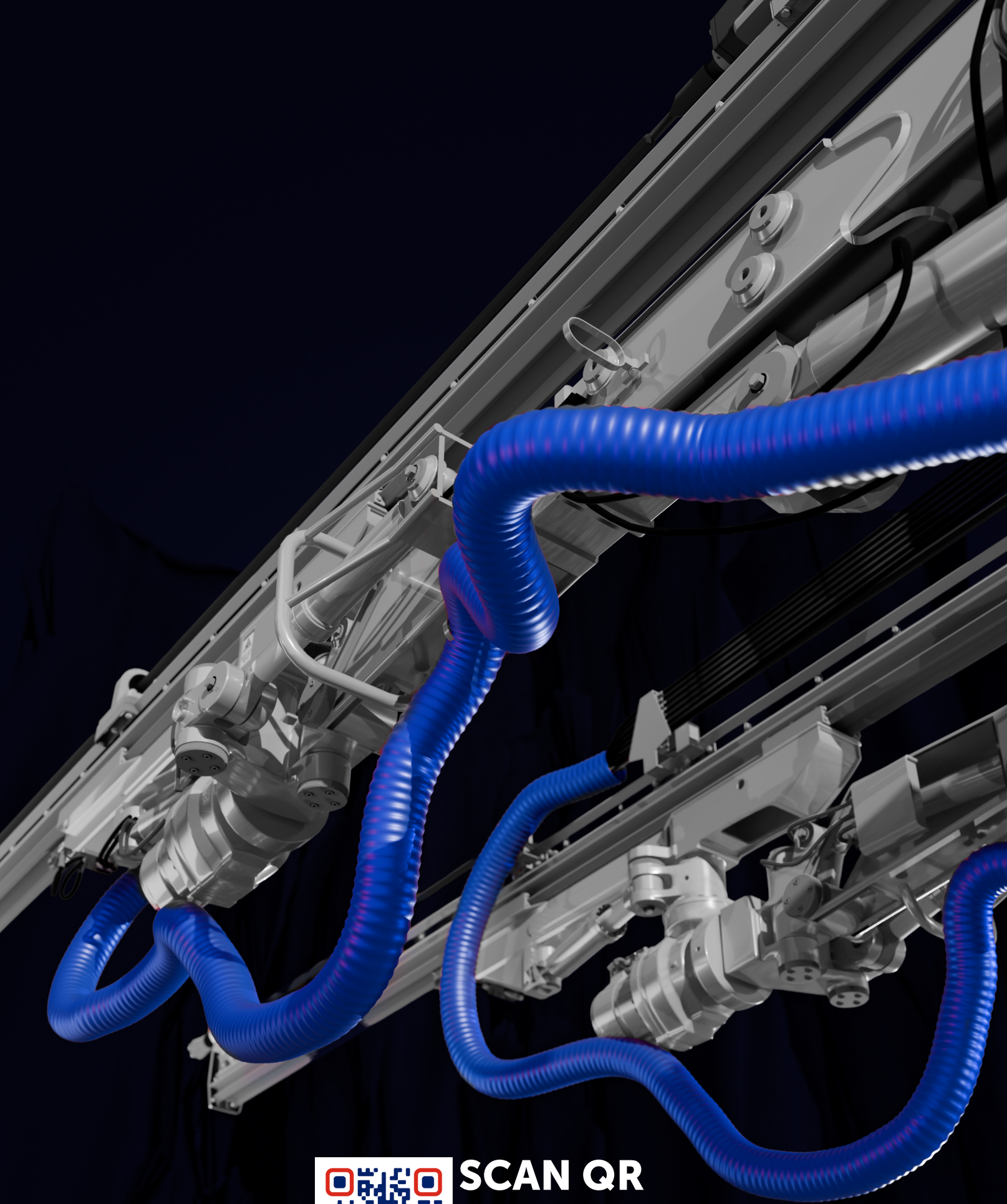
Up to 9.5m

HOSE QTY

Custom assemblies

TRACEABILITY

Hose ID + 5-digit loom ID



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