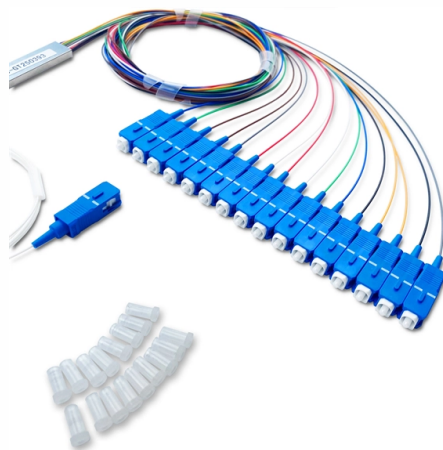


Disassembly of the Optical Cable Pulling Machine



Overview

Ensure safe and efficient cable installation for your needs with cable hauling and cable handling equipment hire from Coates.

Key Takeaways

Disassembling an optical cable pulling machine requires careful attention to safety, hydraulic and electronic components, and proper handling of mechanical parts. Safety Precautions

Before starting disassembly, ensure the machine is powered off and disconnected from all electrical and hydraulic sources. Relieve any residual hydraulic pressure to prevent fluid injection injuries, and wear protective gloves and eye protection. Keep the work area clear of cables under tension and avoid standing behind the puller during any adjustments or component removal .

Step-by-Step Disassembly

- Remove the Fiber Optic Cable
- Detach the cable from the pulling capstan or drum.
- If a fiber pulling eye or basket is attached, carefully cut the hook, remove heat shrink tubing, electrical tape, mesh basket, Kevlar reinforcement, and protective plastic wrap without damaging the fiber .
- Disconnect Hydraulic Lines
- Slowly release pressure from the hydraulic system.

- Disconnect hoses carefully, ensuring no fluid remains under pressure to avoid injury .
- Detach the Electronic Control Box
- Remove any covers and disconnect wiring harnesses.
- Handle the electronic components gently to prevent damage to sensors or the load cell system .
- Remove Mechanical Components
- Detach the capstan, drum, or pulling grips according to the manufacturer's instructions.
- For indoor tight-buffered cables, ensure proper removal of grips and friction tape to avoid damage to the cable path .
- Disassemble Frame and Supports
- If the machine has a modular frame, remove bolts and supports sequentially.
- Keep track of all fasteners and small parts for reassembly.
- Clean and Store Components
- Wipe down hydraulic and mechanical parts to remove dust and debris.
- Store electronic components in anti-static bags and mechanical parts in a dry, secure location.

Additional Tips

- Label all disconnected parts to simplify reassembly.
- Follow manufacturer manuals for torque specifications and component orientation.
- Inspect components for wear or damage during disassembly to plan maintenance or replacement . By following these steps, the optical cable pulling machine can be safely disassembled for maintenance, transport, or storage while minimizing the risk of injury or equipment damage.

Article Content

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