

ALTRA3D

TECHNOLOGIES



THE MOST RESILIENT SOLUTIONS
FOR **THE MINING INDUSTRY.**

ACHIEVE THE HIGHEST PERFORMANCE WITH FLEXIBILITY

The unique properties of ALTRA 3D makes them the best performing solutions for transporting minerals, water, slurry, chemicals and other fluids in mining environments.

Significant investments are made every year in the maintenance and replacement of damaged pipelines. In general, the life time of conventional (steel) pipes are relatively short due to abrasion and corrosion, and often cannot cope with the challenging environment in which they are installed. With a strong focus on reliability, resiliency and sustainability, the ALTRA 3D technologies can resist extreme loads and adhere to ridged safety standards typically found in mining operations. The ALTRA 3D solutions are designed for difficult operating conditions and does not suffer from corrosion, resulting in an extremely reliable and safe solution.

Due to the flexibility of ALTRA 3D, our woven lay flat hose can easily cope with the drastic environmental and climatic challenges and changes typically found in mining applications. The ALTRA 3D solutions are engineered to resist abrasion from solids as well as corrosion from fluids that are transported in mining applications. This means that the ALTRA 3D solutions last much longer than alternatives. In fact, when operating within the specs of the hose, no extra maintenance work is needed during the hose's lifetime, preventing down time and saving considerable time and investment.

The ALTRA 3D solutions can be installed quickly and easily. Add the short delivery time and smart investment, and you'll understand why an increasing amount of mining operators choose the complete ALTRA 3D line as their go-to fluid transfer solution.

THE SAFEST AND MOST RELIABLE FLUID TRANSFER SOLUTION, ALTRA 3D WILL NEVER FAIL YOU.

Higher pressure.

ALTRA 3D (any diameter) offers a burst pressure 200 psi higher than any other flexible hose.

Deep dewatering.

ALTRA 3D can go up to 1,000 feet* deep of continuous length in the ground.

Increased resiliency.

Our flexible hose is so resistant that the pumping is still possible, with minimal pressure loss.

Highly safe hose.

ALTRA 3D will not separate in two upon bursting.

Corrosion and maintenance free

Short lead-times and quick to install

Flexible and light weight

Protect your people outside the drilled well.

Accidental cuts and punctures won't affect the hose's integrity thus increasing the safety of using the product outside the drilled well.

Built to the highest standards.

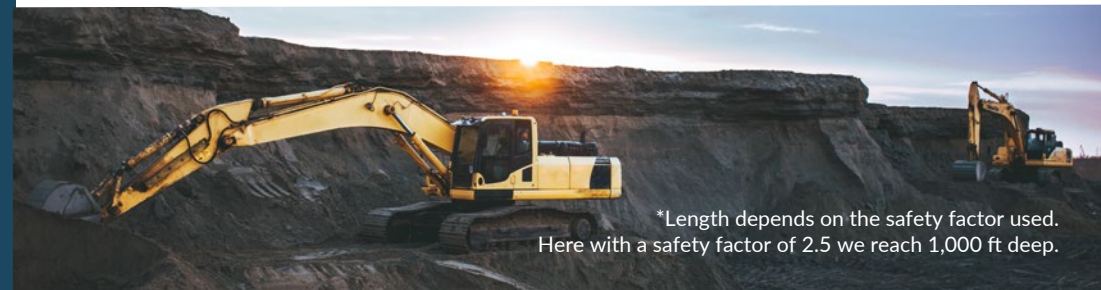
With over 122 years in the fire fighting industry, we have always used the highest standard for design: NFPA:1961.

Used API-15LF: the layflat hose assemblies for the transport of water in the oilfield applications

Cable attachment system

The cable attachment system is part of a protective sheath that can be replaced upon wearing. The cable attachment system resists to a pull strength 15x higher than the competition.

Reusable



*Length depends on the safety factor used. Here with a safety factor of 2.5 we reach 1,000 ft deep.

TECH SPECS

- Flexible hose
- Hose of 4-8in/100-200mm
- 3D technology for a single layer 2 in 1 hose
- High operational/burst pressure
- High abrasion resistance
- Low expansion (linear and radial)
- Relative light weight
- Also available in long length (>1,200 ft)
- Potable water contact
- -65°F to 150°F/-53°C to 65°C
- Remains flexible below freezing point
- Flow rate up to 5,000 gpm
- Weight of the pump max 5000 lbs
- High operating up to 480 psi **
- Theoretical tensile strength of the hose up to 300 000 lbs

CERTIFICATIONS



** 4 inches hose with a safety factor of 2.5

Learn more at

logistec.com/transfer-solutions

Contact:

Mark Patrick Tame

Director of Business Development

+1-819-345-9882

mtame@niedner.com

ALTRA3D