

HYDRAULIC SYSTEM COMPONENTS



iLOK™ COUPLING



REDUCE TIME, COST, AND RISK OF HIGH PRESSURE APPLICATIONS

WHAT IF... YOU COULD CONNECT A HIGH PRESSURE COUPLING WITHOUT WRENCHES OR TOOLS?

- SIMPLE TO UNDERSTAND AND USE
- EASY TO CONNECT AND DISCONNECT BY HAND
- WITHSTAND HIGH IMPULSE APPLICATIONS
- SECURE, VISIBLE LOCKING SYSTEM
- LOW PROFILE TO FIT IN TIGHT QUARTERS

Introducing The iLok™ Coupling

The global hydraulic industry's first hand-torqued 35.0 MPa hydraulic hose connector.



In the Longwall mine, conditions play havoc with traditional staple lock and super-stecko couplings. After months in this environment the staples used to secure the couplings become **corroded and fused** in the couplings.

SIMPLE. SAFE.

The new iLok™ hand tightened coupling easily connects and disconnects, saving valuable time and labor costs.

NO WRENCHING
HAMMERING
TORQUEING
GUESSING

SIMPLER. FASTER. SAFER.

Speedy Connect and Disconnect

Gates iLok™ coupling is a threaded design with coarse, flattened threads to allow hand-tightening. It can be connected in seconds, and disengaging the connection is quick and easy as well. Simply cut and remove the cable lock and turn the swivel nut counterclockwise 2½ turns by hand. Slots on the swivel nut accommodate a spanner wrench in case extra force is needed to loosen the connection.

Positive, Secure Connection

When fully connected, openings in the iLok™ nut align with a groove in the female fitting to accommodate a cable lock. The cable won't pass through the grooves unless the nut is completely tightened, providing positive proof of a secure connection. The protruding cable lock "flags" workers that a connection has been made.

Safety and Performance

The iLok™ coupling nut contacts the entire surface of the mating groove. This spreads the load evenly, preventing deformation of the fitting and providing greater resistance to de-coupling forces. Prior to full disconnection, residual pressure in the line is released from the sides of the coupling, away from workers' faces.

Durable

Gates TuffCoat® Xtreme™ plating provides red rust protection that exceeds the 72-hour SAE standard by 1,000 percent.

Damage Resistant

The iLok™ seal fits inside the female end, less subject to accidental damage. The sealing surface on the male end is protected within the swivel nut. The open thread design resists damage caused by debris and corrosion.

Compact and Smooth

The iLok™ coupling takes up less space in the tight working quarters on longwall machines. Its smooth surface prevents abrading or snagging hoses or other equipment while being moved.

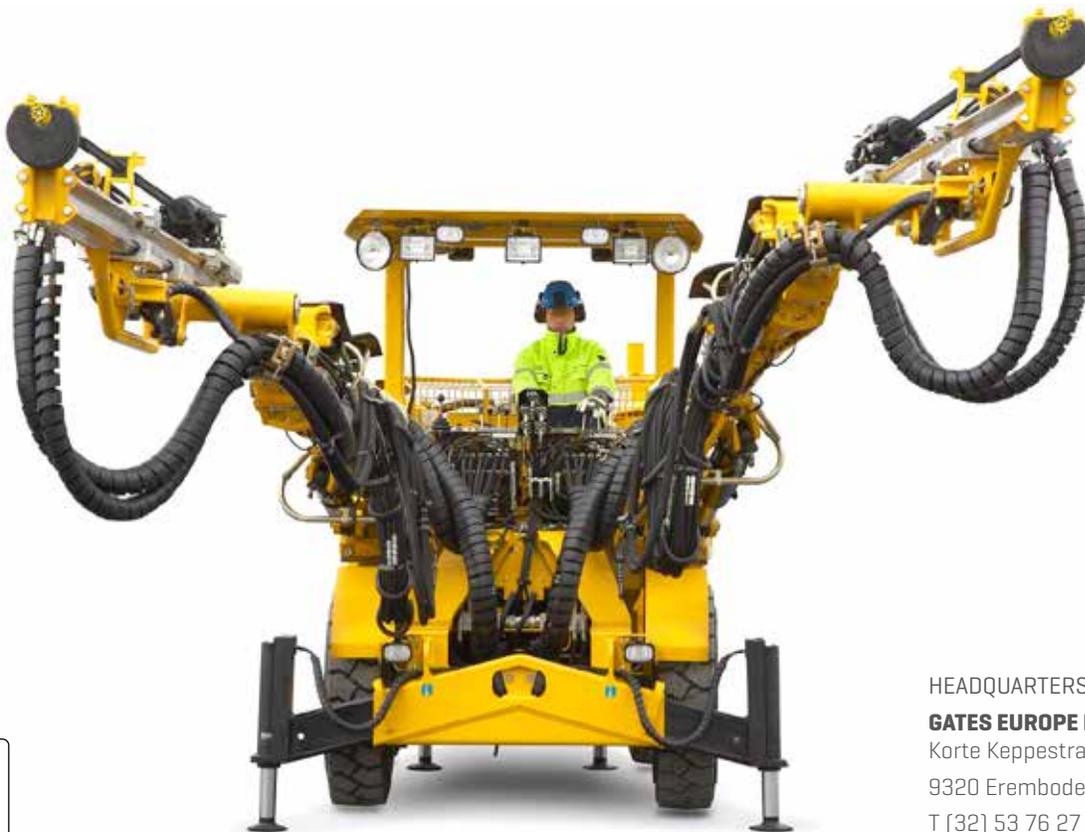


APPLICATION RATINGS

The iLok™ termination is characterized with a dual rating system depending on application: mining or hydraulic.

The **Mining** application rating is used for direct comparisons to standard mining terminations such as Stecko, Super Stecko, SSKV where qualification is 4:1 burst & 300,000 impulse cycles at a working pressure of 42.0 MPa [burst pressure is 168.0 MPa & 300,000 impulse cycles at 42.0 MPa impulse pressure].

The **Hydraulic** application is for a typical SAE/ISO termination rating/qualification where it is 4:1 burst and 1 million impulse cycles at 133% of 35.0 MPa working pressure [burst pressure is 140.0 MPa & 1,000,000 impulse cycles at 35.0 MPa x 1.33 or 46.8 MPa impulse pressure].



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The manufacturers reserve the right to amend details when necessary.

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