



INTERNATIONAL
DRILLING
EQUIPMENT, INC.



Rotary
Drilling
Tools





KELLY BARS

Kelly bars are key components in the execution of boreholes by hydraulic rotary drilling rigs.

They transfer the torque of the rotary drive and the crowd pressure of the crowd system concurrently to the drilling tool.

A kelly bar consists of 2 – 5 telescopic tubular sections with a system of drive keys and lock recesses, welded onto their outer surfaces.

Standard kelly bars are fabricated with a total of 6 drive keys on each section. The tubular kelly sections are manufactured from high-tensile steel to ensure minimum weight and adequate strength.

Standard kelly bars are delivered as full system with locking mechanisms between each element and between outer bar and rotary drive.

As an option, Kelly bars can also be supplied as 4-element non-locking friction kellys.

- IDE can supply Kelly bars compatible with all rig brands
- Compatibility of kelly drive adapter at the rotary drive has to be observed.
- All kelly bars are available in fully lockable, partially lockable or non-lockable version. (standard version is fully lockable)
 - fully lockable: locking mechanism between each bar and between outer bar and rotary drive.
 - partially lockable: locking mechanism between each bar but not between outer section and rotary drive.
 - non-lockable (friction): no locking mechanism between bars and outer section to rotary drive.
- Weight tolerance $\pm 8\%$
- Other lengths or other kelly stub dimensions on request.
- Maximum length of kelly bar and drilling depth is subject to type of drilling rig, capacity of winch and type of drilling tool.
- All kelly bars can optionally be supplied with a sound damping system. It consists of sound absorbing pads which are glued into the recesses between the drive keys on the outer surface of the outer kelly section. The pads are protected against mechanical damage by metal sheeting. The system mainly reduces disturbing high-frequency sound emissions that are generated by kelly movements and amplified by the hollow kelly sections. The sound damping system also can be fitted to existing kelly bars.



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