

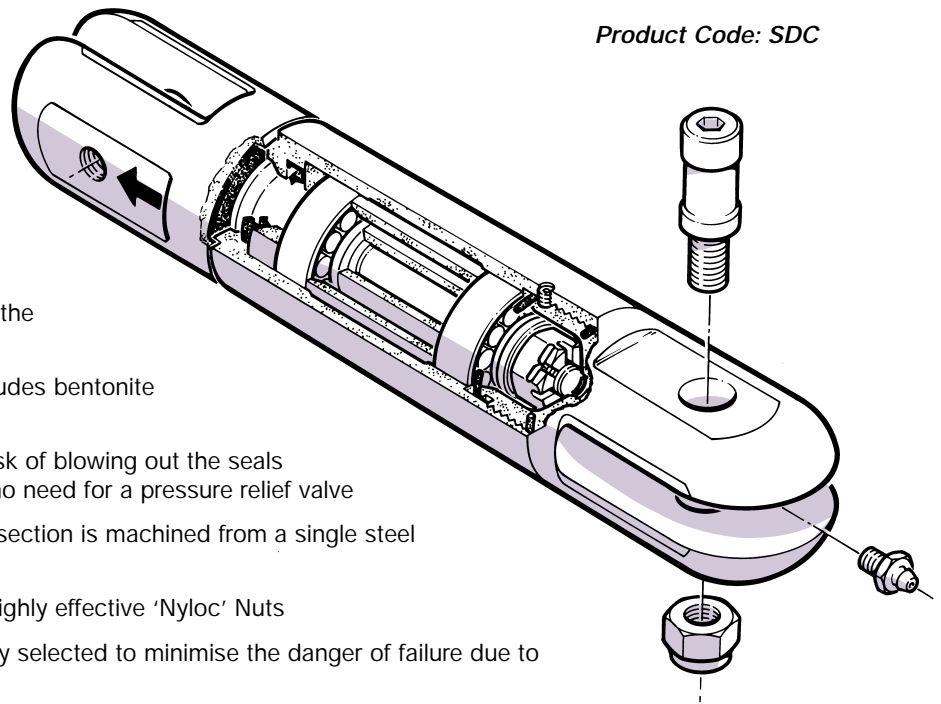


## The IDS HDD Swivel

'Specifically designed for security and reliability in directional drilling'

### Features:

- Specifically designed for use in HDD applications
- Available in a range of sizes from 6 tonnes to 50 tonnes (larger sizes are available upon request)
- Manufactured throughout from high-tensile 4145 steel
- Taper roller bearings, mounted in pairs, provide an operating capacity greater than the stated S.W.L.
- An advanced labyrinth sealing system excludes bentonite and debris from the bearing chamber
- The Swivel is 'self-bleeding' - there is no risk of blowing out the seals through over-greasing and, consequently, no need for a pressure relief valve
- One-piece Rotating Clevis and Main Shaft section is machined from a single steel billet for maximum strength
- Clevis pins are retained using simple and highly effective 'Nyloc' Nuts
- All threads are of a coarse design - carefully selected to minimise the danger of failure due to stripped threads
- Genuine built-in minimum safety factor
- Low Maintenance - regular greasing and damage inspection is the only servicing required



## The IDS Integral Swivel

'The high-strength Integral Swivel that is interchangeable between IDS Reamers'

### Features:

- Specifically designed for use in HDD applications
- Compatible with IDS H1F and H2F Compaction Reamers
- Available in standard sizes 15 and 30 tonnes
- Fully interchangeable between reamers - one swivel may be used across a range of IDS H-Series reamer sizes
- Manufactured throughout from high-tensile 4145 steel
- Heavy duty, four point angular contact ball bearing permits thrust in both directions, and an operating capacity greater than the stated S.W.L.
- An advanced labyrinth sealing system excludes bentonite and debris from the bearing chamber
- The Swivel is 'self-bleeding' - there is no risk of blowing out the seals through over-greasing and, consequently, no need for a pressure relief valve
- One-piece Rotating Clevis and Main Shaft section is machined from a single steel billet for maximum strength
- Fully self-contained design for long life and ease of storage
- Clevis pins are retained using simple and highly effective 'Nyloc' Nut
- Genuine built-in minimum safety factor
- Low Maintenance - regular greasing and damage inspection is the only servicing required

