

## DRILL COLLARS

ACT provides three kinds of Drill Collars. These are:

1. Slick. 30 to 31 feet length.
2. Spiral. 30 to 31 feet length.
3. Short Drill Collars upto 20' length.

Following special Drill Collars features are also available on request:

- |  |                                     |
|--|-------------------------------------|
| 1. API stress relief grooves in pin & box. | 5. Drill collar hard banding.       |
| 2. API bore back box.                      | 6. Phosphatising end connections.   |
| 3. API slip & elevator recesses.           | 7. Thread protectors for box & pin. |
| 4. Cold rolled thread roots.               |                                     |

### A. STRESS RELIEF GROOVES

Stress relief Grooves at pin and box end reduce fatigue failure.

### BORE BACK BOX

Bore back box is nothing but gradual reduction of internal dia by gradually increasing material cross sectional area at critical section. This will ultimately reduce drastically stress concentration during Static / Dynamic loading and prevents box connections from failure.

### B. COLD ROLLED THREAD ROOTS

The cold working on thread roots of the Drill Collars thru inducing compressive stresses with the help of externally loaded roller will increase life of Drill Collar by protecting against bending stress in fatigue.

### C. DRILL COLLAR HARD BANDING

Hard banding a Drill collar increases the life of Drill Collar while drilling in an abrasive medium. In hard banding, granular tungsten carbide is deposited upto 1/32" (0.8 mm) above Drill Collar O.D. by metal arc, inert gas shielded welding with controlled preheating & post heating.

NOTE: Hard Banding at other locations are also catered upon request

### SHORT DRILL COLLARS

Short Drill Collars are made to suit material, sizes, properties & features as specified above except the length is smaller. Short Drill Collars in various lengths are available in slick or spiral. Standard Short Drill collar lengths are 10, 12, 15. 1/2 & 20 ft. long. For Dimensions, please refer to main Drill Collar section.

