

IDS HORIZONTAL/DIRECTIONAL DRILLING EQUIPMENT

# Product Catalogue

Second edition

ids



# IDS Pilot Boring Systems



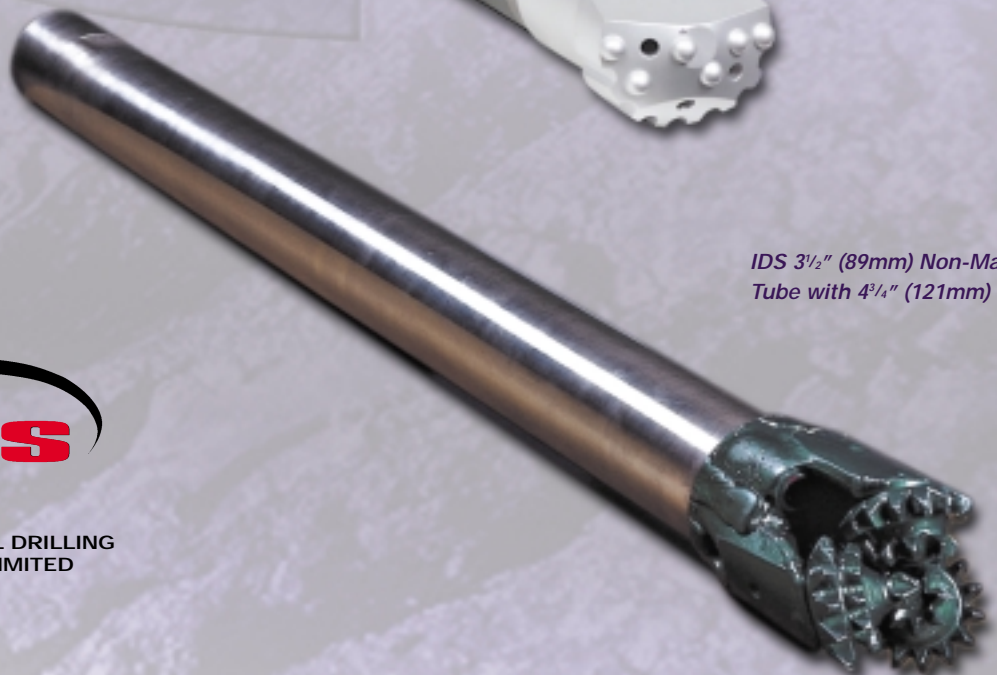
*IDS 3 1/2" (89mm) 'Universal' Sonde Housing Module and Angled Drill Head with 'Viper' Hard Ground Bit*

*IDS 3 1/4" (82.5mm) V-Series Sonde Housing Module and Angled Drill Head with 'Viper' Hard Ground Bit.*



*IDS 3 1/2" (89mm) Directional Hammer System with 4 3/4" (121mm) Directional Bit*

*IDS 4 3/4" (121mm) Universal Sonde Housing Module with Indexing Sub*



*IDS 3 1/2" (89mm) Non-Magnetic Jet Tube with 4 3/4" (121mm) Rock Bit*



INTERNATIONAL DRILLING  
SERVICES LIMITED



INTERNATIONAL DRILLING  
SERVICES LIMITED

## Industry leaders for specialised down-hole directional drilling systems

International Drilling Services Ltd. was founded in 1981 as a specialist manufacturer and supplier of down-hole drilling equipment. In recent years, the company has applied its considerable expertise to the development of a complete range of down-hole systems for horizontal / directional drilling.

The new and improved IDS range presented here has been produced with one aim in mind – to help our customers get the most out of their rigs. IDS can offer the most suitable, cost-effective solution for the job – whatever the size of rig and application, thereby contributing to the maximisation of rig performance and profit.

IDS is totally committed to continuous improvement in the quality of our products and levels of customer service. This is reflected in our introduction of a number of new items in this latest catalogue, as well as upgrades to established products.

Technical support from some of the industry's most experienced personnel combined with this exciting product range confirms our established reputation as an industry leader in the field of specialised directional drilling systems.

### Using this Catalogue and the 'Technical Specifications' booklet

Each IDS product shown in this catalogue is accompanied by a 'Product Code'. This code may be used to find the full range of sizes or variants in which a product is available in our separate 'Technical Specifications' booklet. The full list of product codes is shown in the Index on this page and on Page 1 of the booklet. (Note that the 'Product Code' is also the first part of every standard IDS product's part number).

### Ordering Procedure

IDS endeavours to maintain stocks of popular items and produce custom items such as adaptors in the shortest possible time. To order, use the form provided in the Technical Specifications booklet, or contact us on:

Tel: +44 (0) 1246 269911  
Fax: +44 (0) 1246 269922  
E-mail: [cjs@idsuk.com](mailto:cjs@idsuk.com)  
Web: [www.idsuk.com](http://www.idsuk.com)

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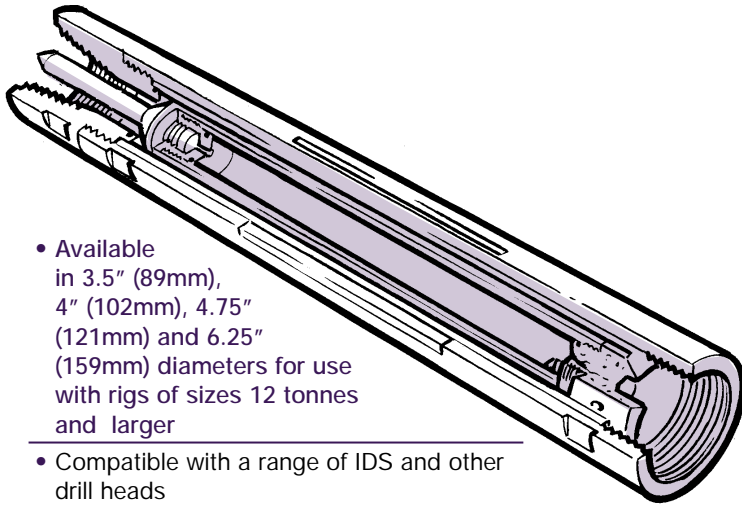


# The IDS 'Universal' Pilot Boring System

'A uniquely versatile solution for all-ground drilling with walk-over detection systems'

## IDS Universal Sonde Housing Module

Product Code: SHU



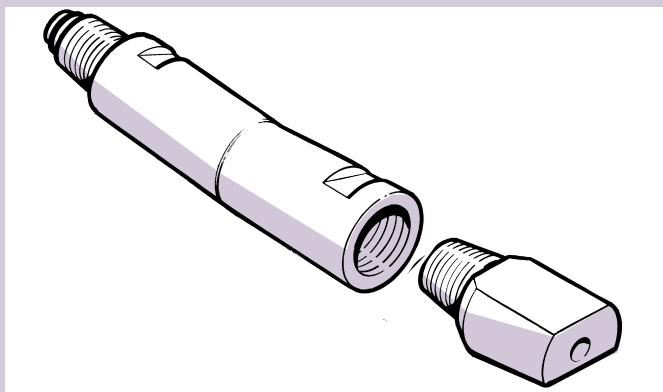
- Available in 3.5" (89mm), 4" (102mm), 4.75" (121mm) and 6.25" (159mm) diameters for use with rigs of sizes 12 tonnes and larger
- Compatible with a range of IDS and other drill heads
- Compatible with Mud Motors for cost-effective rock drilling
- Compatible with an unrivalled range of sondes, including:
  - Digitrak 2 x C-Cell: DT (Yellow), DX (Red), DXP (Magenta)
  - Digitrak 4 x C-Cell: D4X (Red), D4XP (Magenta)
  - Digitrak Cable: DC (Green), DCP (Magenta)
  - Radiodetection 2 x C-Cell: RD385 Standard and Long-Range
  - Subsite: compatibility available upon request
- Fully-sealing Sonde Capsule provides total sonde protection during operation
- High-flow design permits unrivalled rates of fluid delivery
- Fluid flow around the sonde provides continuous sonde cooling while drilling
- Adaptors available to a wide range of drill rod connections

## Bent Jet Tube and Detachable Jet Head

Product Codes:

Jet Tube: JTU

Angled Jet Head: JHAU

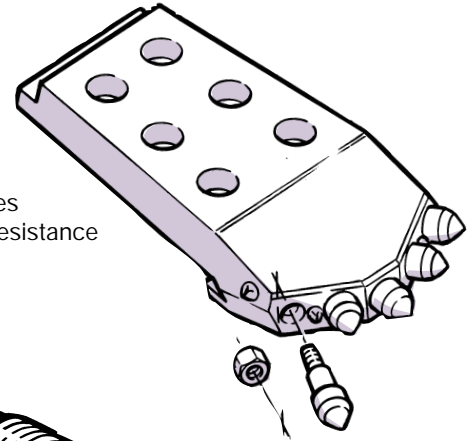


- 2° bent Jet Tube
- Jet Tube compatible with Detachable Jet Head or aligned Rock Bit (for mixed-formation drilling)
- Detachable Jet Head features replaceable IDS TC Jet Nozzle

## 'Viper' Hard Ground Bit (Patent applied for)

Product Code: VBU

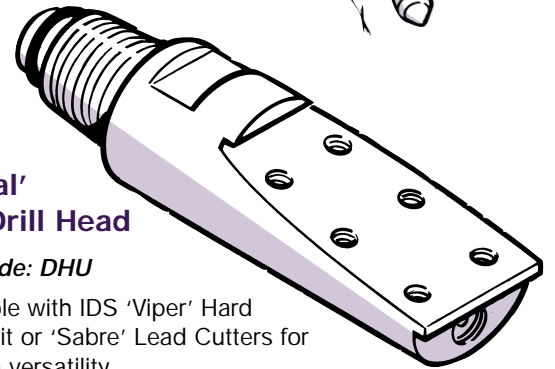
- Provides superb penetration and steering in tough ground conditions
- Features easily replaceable TC Pick Teeth
- Heat-treated body with protective TC Inserts ensures maximum wear resistance



## 'Universal' Angled Drill Head

Product Code: DHU

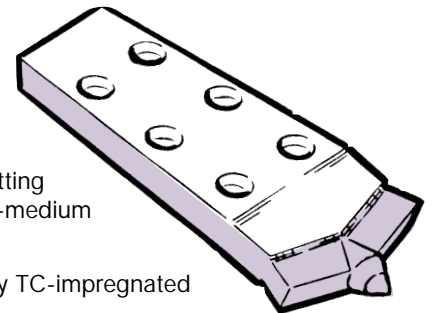
- Compatible with IDS 'Viper' Hard Ground Bit or 'Sabre' Lead Cutters for maximum versatility
- Features replaceable IDS TC Jet Nozzles



## 'Sabre' Lead Cutter

Product Code: LCU

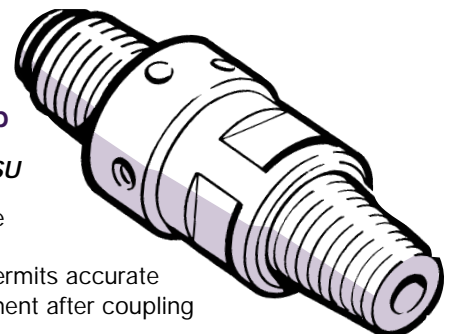
- Provides superb cutting and steering in soft-medium ground conditions
- Features heavy-duty TC-impregnated cutting blade



## Indexing Sub

Product Code: ISU

- Integral 'Sonde Alignment Mechanism' permits accurate sonde realignment after coupling
- Required for use of Universal Sonde Housing Module with Mud Motors or non-dedicated Drill Heads



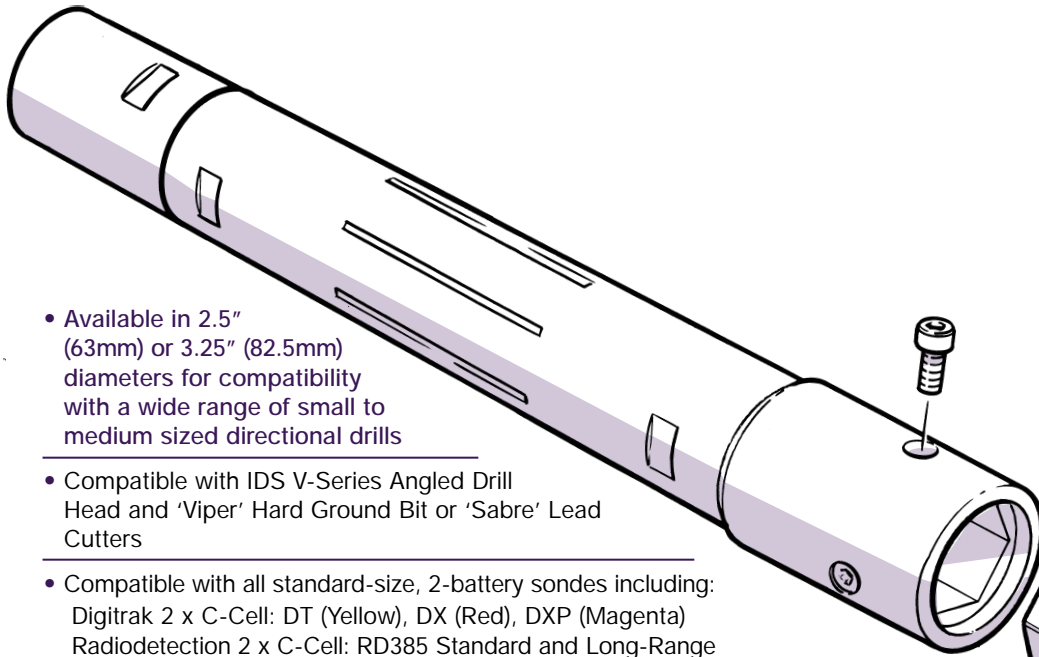


# The IDS V-Series Pilot Boring System

'The ultimate pilot boring system for utility drilling applications'

## IDS V-Series Sonde Housing Module (Patent applied for)

Product Code: SHV

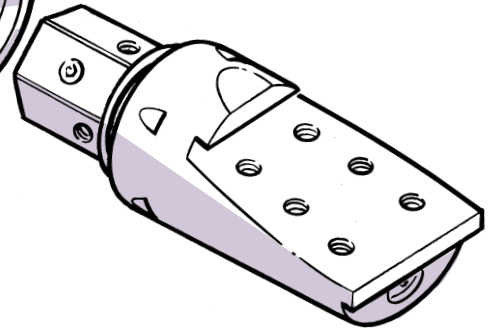


- Available in 2.5" (63mm) or 3.25" (82.5mm) diameters for compatibility with a wide range of small to medium sized directional drills
- Compatible with IDS V-Series Angled Drill Head and 'Viper' Hard Ground Bit or 'Sabre' Lead Cutters
- Compatible with all standard-size, 2-battery sondes including: Digitrak 2 x C-Cell: DT (Yellow), DX (Red), DXP (Magenta) Radiodetection 2 x C-Cell: RD385 Standard and Long-Range
- Compatible with 'Subsite' sondes (3 1/4" only)
- Hex Quick-Release drill head connection provides fast, easy access to the sonde
- Multi-port, high-flow design permits unrivalled rates of fluid delivery
- Fluid ports around the sonde ensure continuous sonde cooling while drilling
- Adaptors available to a wide range of drill rod connections

## V-Series Angled Drill Head (Patent applied for)

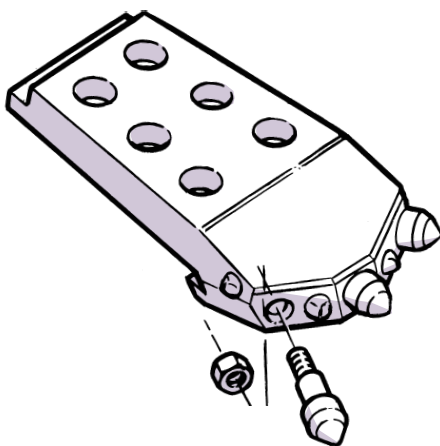
Product Code: DHV

- Features Hex Quick-Release connection for fast, easy detachment and access to the sonde
- Compatible with IDS 'Viper' Hard Ground Bit or 'Sabre' Lead Cutters for maximum versatility
- Features replaceable IDS TC Jet Nozzle



## 'Viper' Hard Ground Bit (Patent applied for)

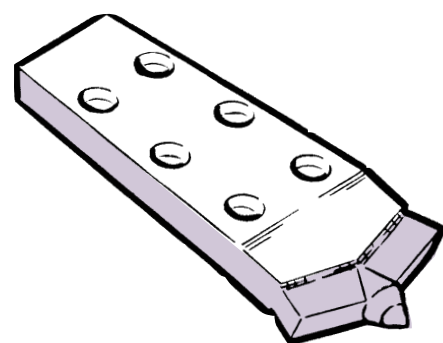
Product Code: VBV



- Provides superb penetration and steering in tough ground conditions
- Features easily replaceable TC Pick Teeth
- Heat-treated body with protective TC Inserts ensures maximum wear resistance

## 'Sabre' Lead Cutter (Patent applied for)

Product Code: LCV

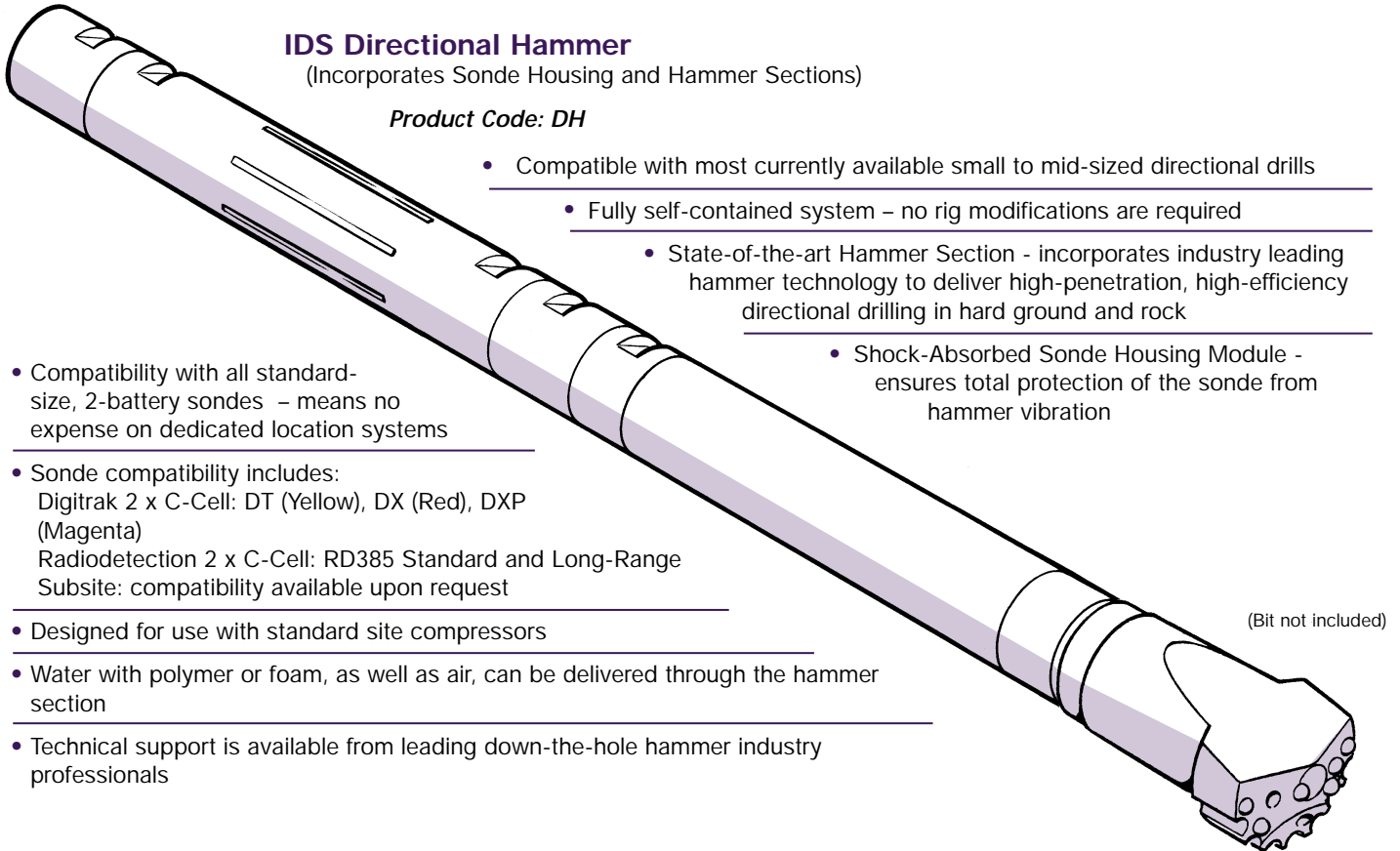


- Provides superb cutting and steering in soft-medium ground conditions
- Features heavy-duty TC-impregnated cutting blade



# IDS Directional Hammer System

'For cost effective, high-penetration directional drilling across a range of hard ground and rock formations



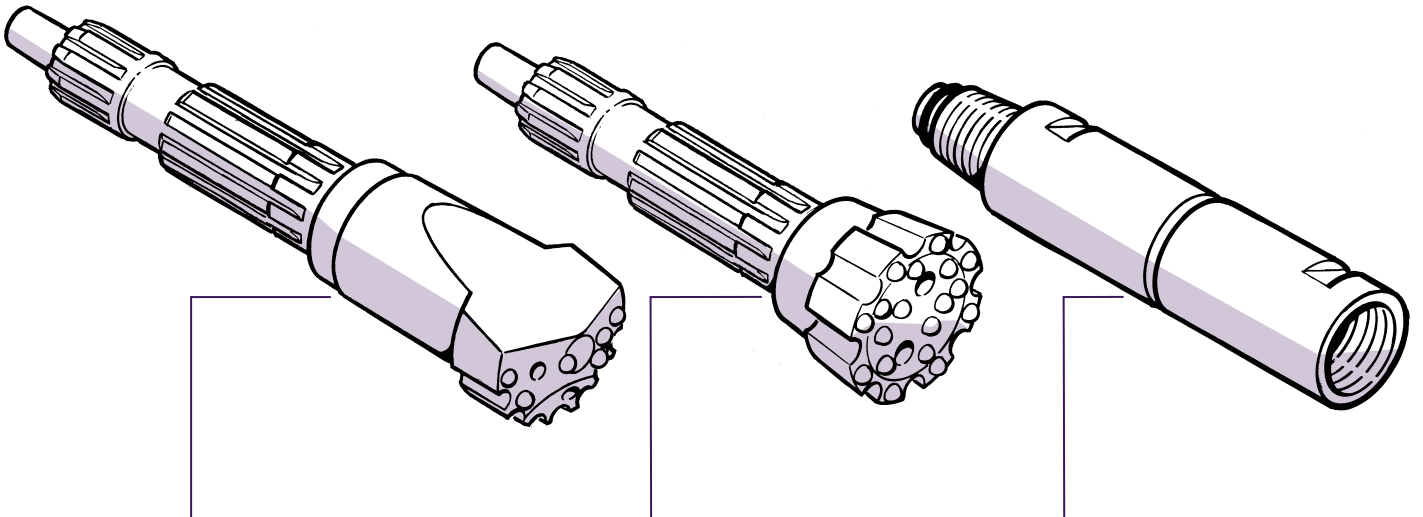
## IDS Directional Hammer

(Incorporates Sonde Housing and Hammer Sections)

**Product Code: DH**

- Compatible with most currently available small to mid-sized directional drills
- Fully self-contained system – no rig modifications are required
- State-of-the-art Hammer Section - incorporates industry leading hammer technology to deliver high-penetration, high-efficiency directional drilling in hard ground and rock
- Shock-Absorbed Sonde Housing Module - ensures total protection of the sonde from hammer vibration
- Compatibility with all standard-size, 2-battery sondes – means no expense on dedicated location systems
- Sonde compatibility includes:  
Digitrak 2 x C-Cell: DT (Yellow), DX (Red), DXP (Magenta)  
Radiodetection 2 x C-Cell: RD385 Standard and Long-Range  
Subsite: compatibility available upon request
- Designed for use with standard site compressors
- Water with polymer or foam, as well as air, can be delivered through the hammer section
- Technical support is available from leading down-the-hole hammer industry professionals

(Bit not included)



### Directional Hammer Bit

**Product Code: DB**

- Excellent penetration in tough formations
- Rock drilling capabilities
- Impressive steering performance
- Unbeaten durability

### Hard Rock Hammer Bit (Non-Directional)

**Product Code: HRB**

- High-penetration in the toughest rock formations
- Ideal for use where non-directional rock drilling is required
- Unbeaten durability

### In-Line Shock Absorber (Optional)

**Product Code: SA**

- Provides the machine with extra protection from hammer vibration where required



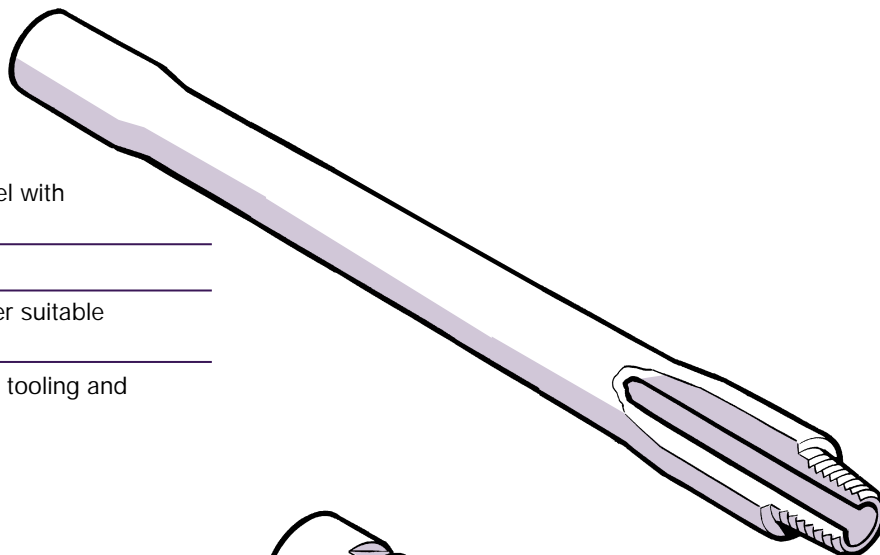
# IDS Non-Magnetic Pilot Boring System

'Premium quality tooling for use with magnetic wireline steering tools'

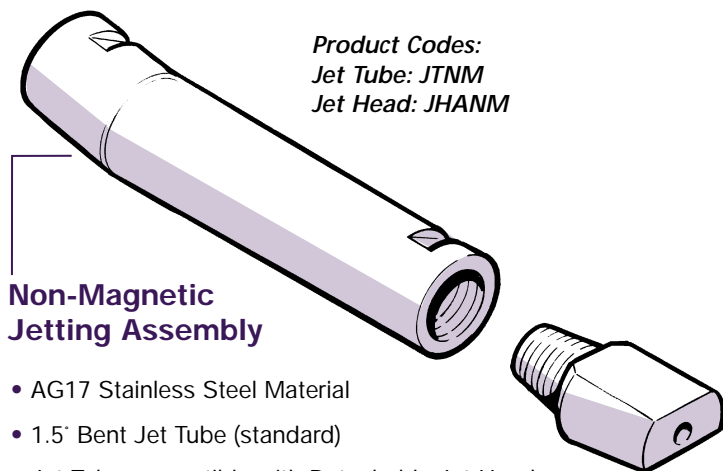
## IDS Non-Magnetic Drill Pipe

Product Code: *DRNM*

- Produced from one-piece AG17 Stainless Steel with high Yield and Tensile strengths
- Available with Slick or Upset Tool Joints
- Internally flush throughout with 'API IF' or other suitable connections
- API connections produced utilizing official API tooling and gauges

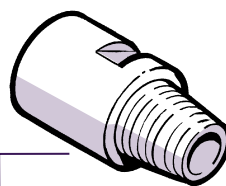


Product Codes:  
Jet Tube: *JTNM*  
Jet Head: *JHANM*



### Non-Magnetic Jetting Assembly

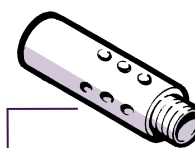
- AG17 Stainless Steel Material
- 1.5' Bent Jet Tube (standard)
- Jet Tube compatible with Detachable Jet Head or aligned Rock Bit
- Detachable Jet Head features replaceable IDS TC Jet Nozzle



### Non-Magnetic Orienting Sub

Product Code: *OSNM*

- AG17 Stainless Steel material
- Features internal top connection to receive Flow Tube



### Non-Magnetic Flow Tube

Product Code: *FTNM*

- Marine Brass or AG17 material
- Compatible with IDS Jet Tubes and Orienting Subs



## Rock Bits

'An extensive range of Rock Bits for all formations and applications'



### Milled Tooth Rock Bits

- For use in soft to medium formations
- Sealed Journal or Standard Bearing designs available
- Expert consultation provided for bit selection

Product Codes:

Milled Tooth Sealed Bearing Rock Bits: *RBMTSB*

Milled Tooth Standard Bearing Rock Bits: *RBMTOB*



### TCI Rock Bits






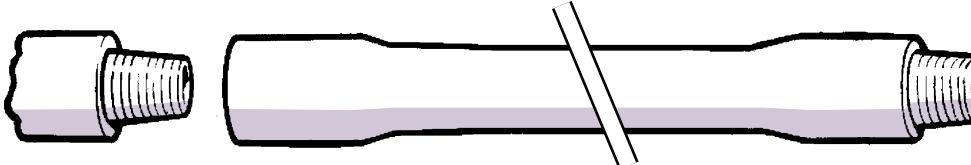
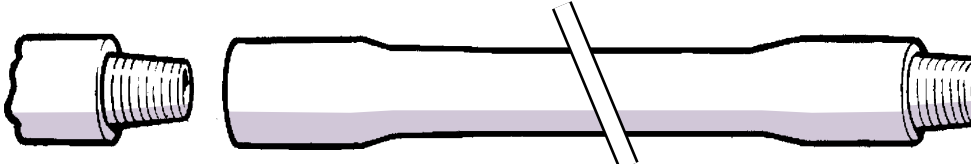
- For use in medium to hard rock
- Sealed Journal or Standard Bearing designs available
- Expert consultation provided for bit selection

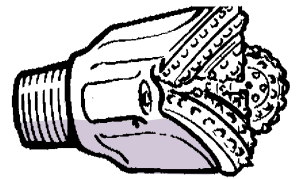
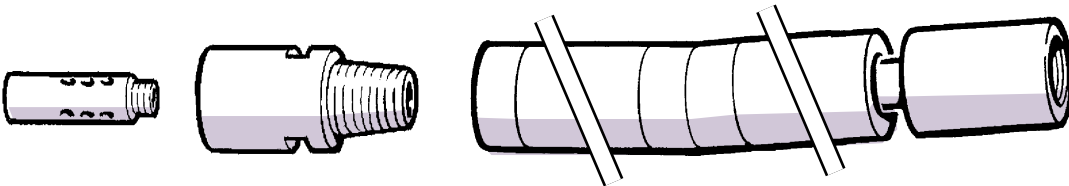
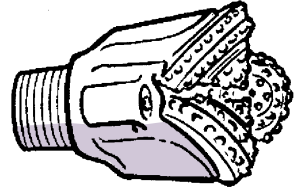
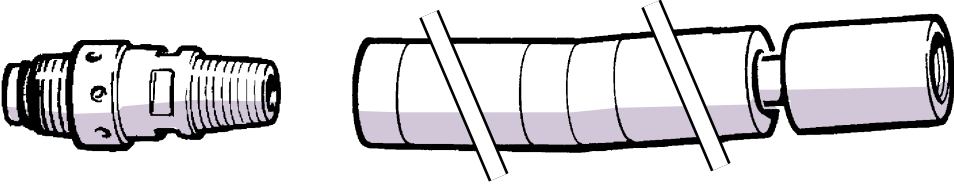
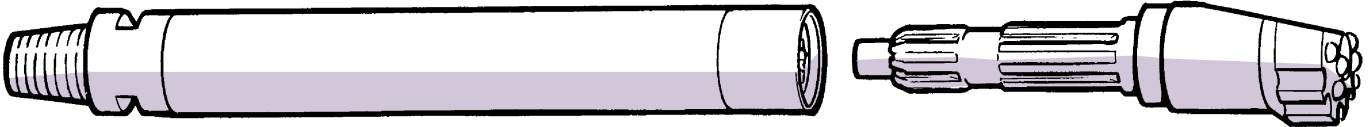
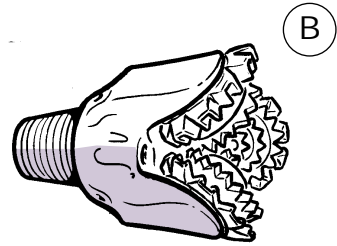
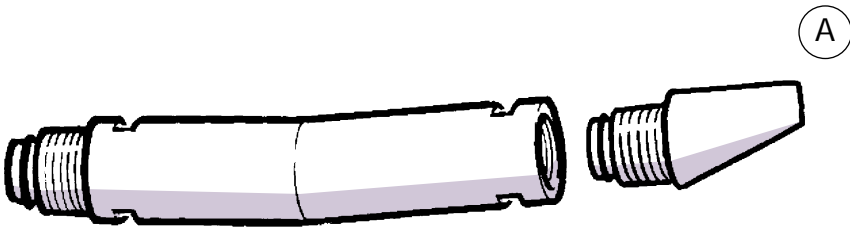
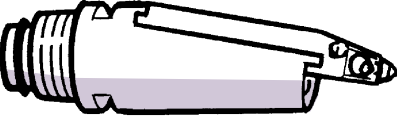
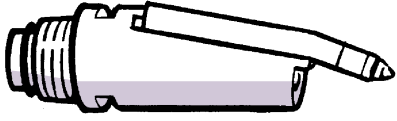
Product Codes:

TCI Sealed Bearing Rock Bits: *RBTCSEB*

TCI Standard Bearing Rock Bits: *RBTCSEB*

Assembly  
Number    Description

- |                 |  |  |
|-----------------|--|--|
| <p><b>1</b></p> | <p>Sonde Housing Module ('SHU' shown) with Angled Drill Head ('DHU' shown) and 'Sabre' Lead Cutter ('LCU' shown).<br/><i>Recommended use:</i> For general purpose use across a range of conditions including soft medium clays and aggregates.</p>   |    |
| <p><b>2</b></p> | <p>Sonde Housing Module ('SHU' shown) with Angled Drill Head ('DHU' shown) and 'Viper' Hard Ground bit ('VBU' shown).<br/><i>Recommended use:</i> For tough ground including stiff clays, rocky soils, gravel and soft rock formations.</p>  |    |
| <p><b>3</b></p> | <p>Universal Sonde Housing Module (SHU) with Bent Jet Tube (JTU) and:<br/>(a) Detachable Jet Head (JHAU)<br/>(b) Rock Bit<br/><i>Recommended use:</i><br/>(a) For controlled-grade jetting in soft formations.<br/>(b) For mixed-formation drilling (rock bit permits rotational drilling in harder sections).</p>   |    |
| <p><b>4</b></p> | <p>Directional Hammer (DH) with Directional Hammer Bit (DB)<br/><i>Recommended use:</i> For high-penetration drilling and steering in hard ground and soft rock formations.</p>  |  |
| <p><b>5</b></p> | <p>Universal Sonde Housing Module (SHU) with Indexing Sub (ISU), Mud Motor (not available from IDS) and Rock Bit.<br/><i>Recommended use:</i> For rock drilling with walk-over detection systems.</p>  |  |
| <p><b>6</b></p> | <p>Non-Mag. Drill Pipe (DRNM) with Non-Mag. Flow Tube (FTNM), Bent Jet Tube (JTNM) and (a) Detachable Jet Head (JHANM)<br/>(b) Rock Bit<br/><i>Recommended use:</i><br/>(a) For controlled grade jetting in soft formations.<br/>(b) For mixed-formation drilling (rock bit permits rotational drilling in harder sections) (Used in conjunction with magnetic wire-line steering tool).</p> |  |
| <p><b>7</b></p> | <p>Non-Mag. Drill Pipe (DRNM) with Non-Mag. Flow Tube (FTNM), Non-Mag. Orienting Sub (OSNM), Mud Motor (not available from IDS) and Rock Bit<br/><i>Recommended use:</i> For Rock Drilling. Used in conjunction with magnetic wire-line steering tool.</p>   |  |





## IDS H-Series Fluted Reamers

For Small to Mid-Sized Rigs

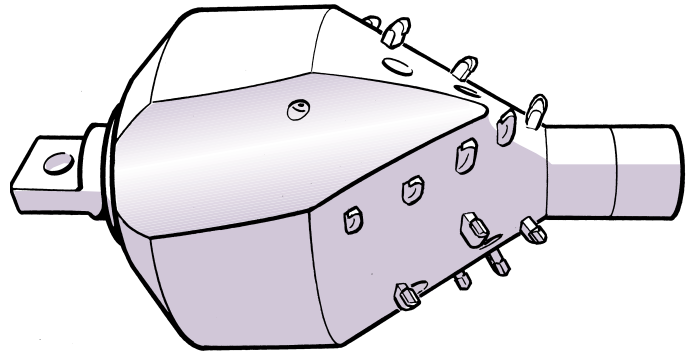
### IDS 'H1F' Fluted Compaction Reamer

#### Features:

- 30° tapered body for highly effective cutting and compaction
- Available with a range of threads and back-end connections (see below)
- Forward and rear facing jets with replaceable Jet Nozzles
- TC rock-cutting teeth
- Fluted body for effective displacement of cuttings
- Available in standard sizes 8" (200mm) – 20" (500mm) diameter

**Recommended Use:** For general-purpose use across a range of conditions.

The H1F delivers high-performance in medium density clay, boulder clay, aggregates and rocky soils.



Product Code: H1F

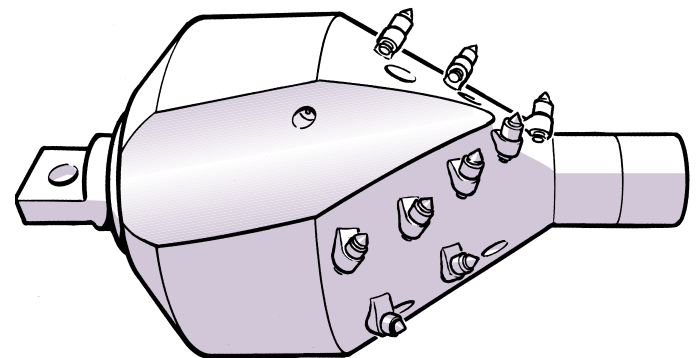
### IDS 'H2F' Fluted Compaction Reamer

#### Features:

- 30° tapered body for highly effective cutting and compaction
- Available with a range of threads and back-end connections (see below)
- Forward and rear facing jets with replaceable Jet Nozzles
- Replaceable TC rock-cutting pick teeth for aggressive cutting action
- Fluted body for effective displacement of cuttings
- Available in standard sizes 8" (200mm) – 20" (500mm) diameter

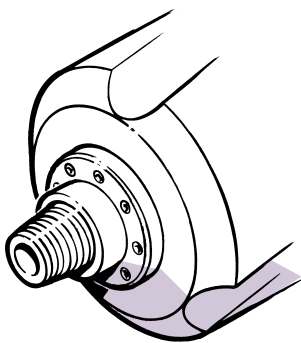
**Recommended Use:** For general-purpose use in medium-hard ground.

The H2F performs excellently in conditions such as stiff clays and rocky soils where an aggressive reaming action is desirable.



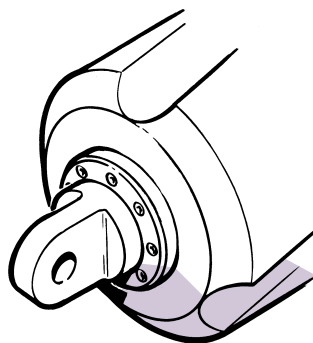
Product Code: H2F

### Threaded Connection



- API, IDS or 'OEM' (HDD rig) connections available
- Pin (male) or box (female) threads as required

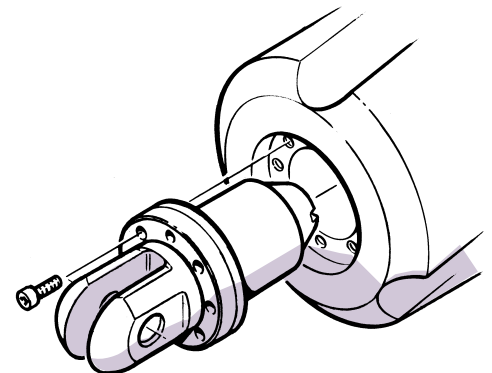
### Pulling Eye



- For compatibility with IDS Swivels or to custom specifications

Code: PE

### Integral Swivel Socket



- To receive IDS Integral Swivel (Integral Swivel not included)

Code: ISS



## IDS Fly Cutters and Barrel Reamers

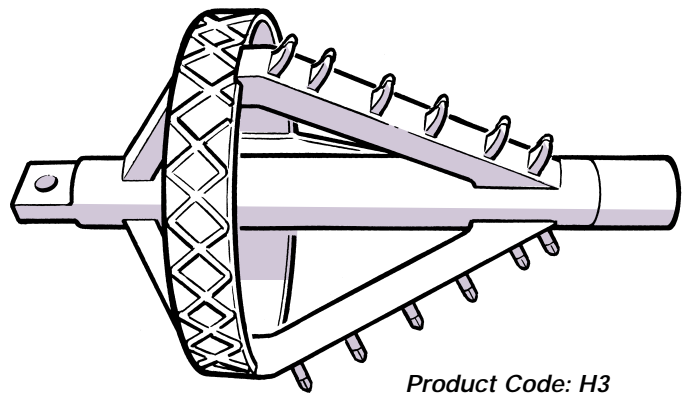
### IDS 'H3' Displacement Reamer

For Small to Mid-Sized Rigs

#### Features:

- Open-body design with 30° tapered cutting arms for displacement (rather than compaction) of cuttings and superb mixing action
- Available with a range of threads and back-end connection including pulling eyes or threads
- Forward and rear-facing jets with replaceable Jet Nozzles
- TC rock-cutting teeth
- Available in standard sizes 8" (200mm) – 20" (500mm) diameter

**Recommended Use:** A uniquely versatile reamer, the H3 delivers superb performance in sand, soft clays, clays and aggregates; ideal wherever displacement of cuttings and a powerful mixing action is desirable.



Product Code: H3

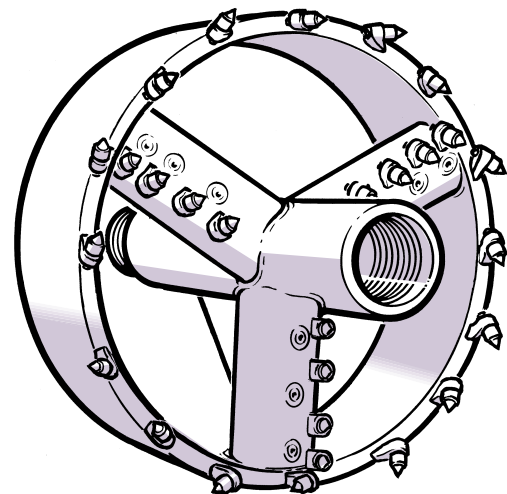
### IDS Fly Cutter

For Medium to Large-Sized Rigs

#### Features:

- Open-bodied, three-armed design for highly effective cutting and displacement
- Available with a range of API or other connections (API connections produced utilising official tooling and gauges)
- Replaceable TC rock-cutting pick teeth
- Forward and rear facing jets with replaceable IDS TC Jet Nozzles
- Available in standard sizes from 12" (300mm) diameter
- One-piece central mandrels produced to API drill collar specifications
- Welded in compliance with API Recommended Practice 5C6 (First Edition Dec. 1996)

**Recommended Use:** Generally used to break up clay-type soils prior to compaction, the IDS Fly Cutter displays excellent cutting and displacement characteristics. Frequently used in conjunction with (in front of) the IDS Barrel Reamer



Product Code: FC

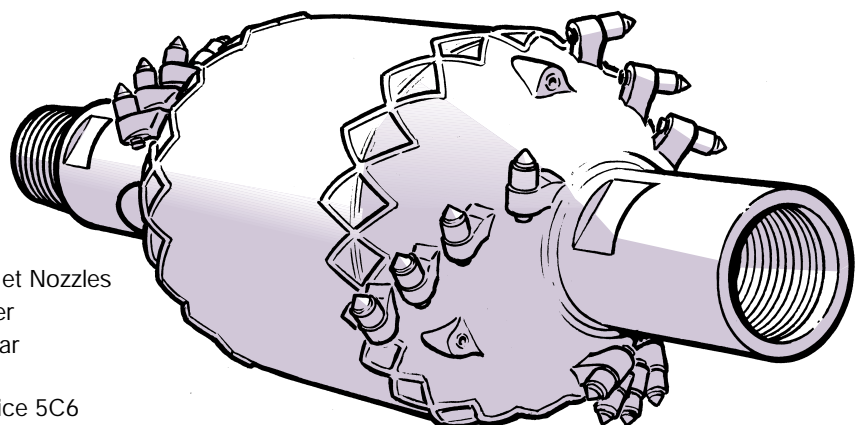
### IDS Barrel Reamer

For Medium to Large-Sized Rigs

#### Features:

- 30° tapered body (forward and rear)
- Available with a range of API or other connections (API connections produced utilising official tooling and gauges)
- Replaceable TC rock-cutting pick teeth
- Forward and rear facing jets with replaceable IDS TC Jet Nozzles
- Available in standard sizes from 12" (300mm) diameter
- One-piece central mandrels produced to API drill collar specifications
- Welded in compliance with API Recommended Practice 5C6 (First Edition Dec. 1996)

**Recommended Use:** For general-purpose use across a range of conditions. The IDS Barrel Reamer displays superb cutting and compaction characteristics in clay, boulder clay, aggregates and rocky soils. Meanwhile, the extended compaction section provides highly effective drill string centralisation.



Product Code: BR

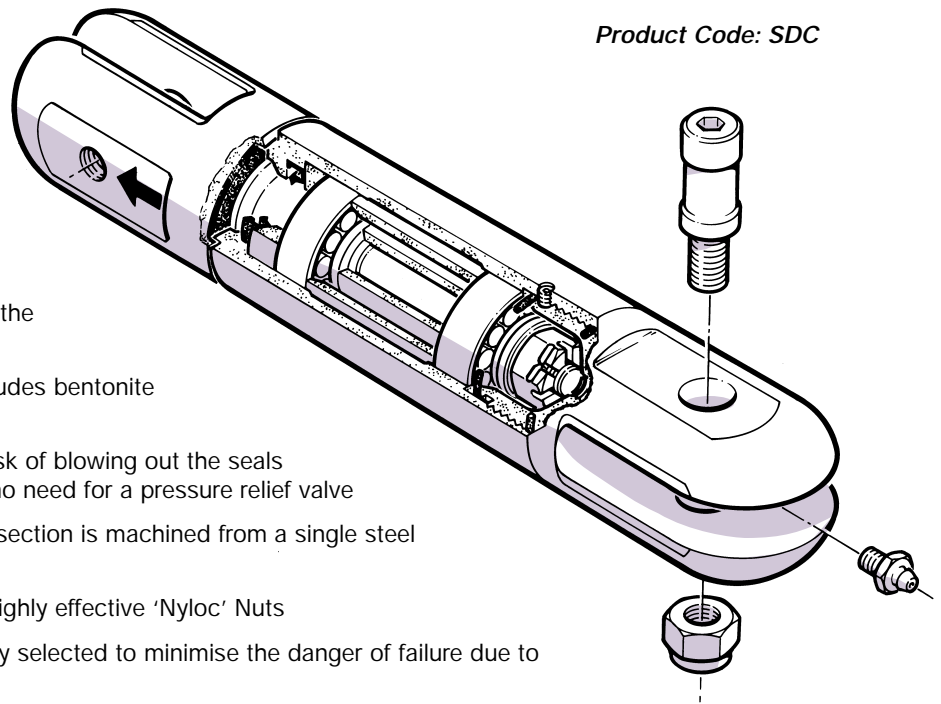


## The IDS HDD Swivel

'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

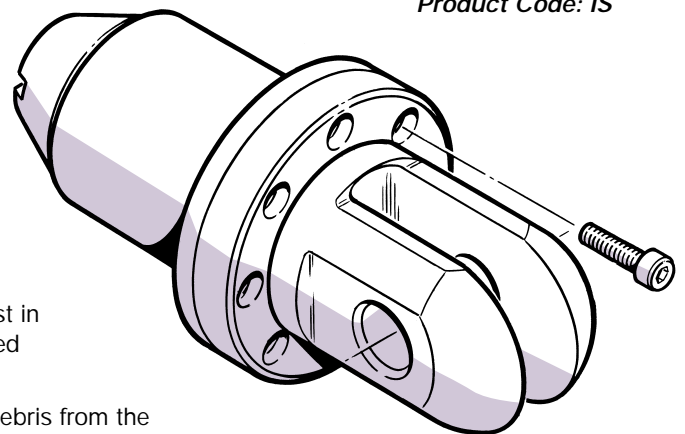


## The IDS Integral Swivel

'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

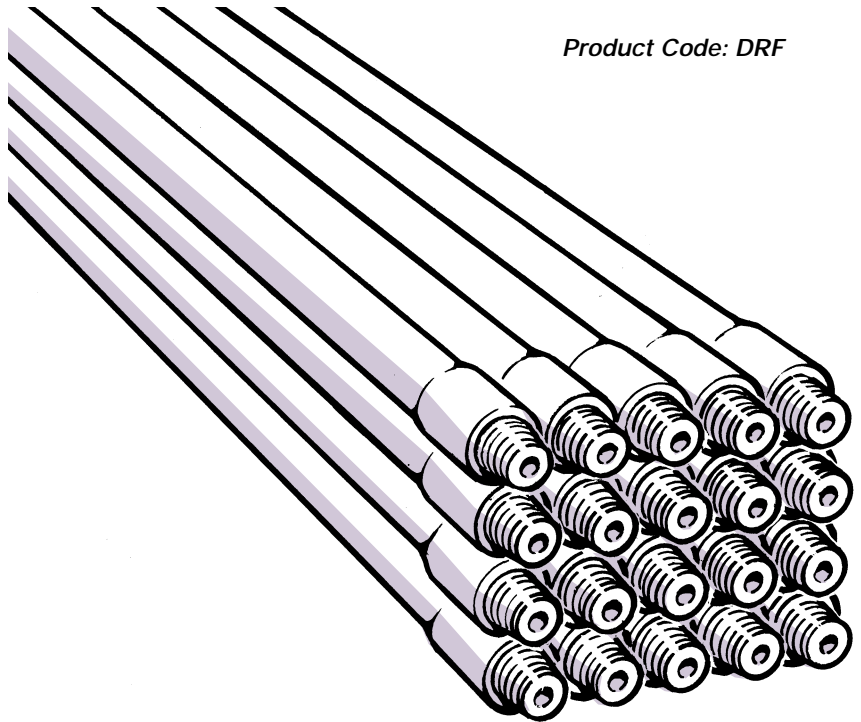




IDS TITAN Drill Pipe has an established an unbeaten reputation for strength, high-performance and long life, at a price you can afford.

That's because, at IDS, we have decades of experience in the production of Drill Pipe. And we are committed to the best, certified materials and the most rigorous standards of quality control throughout the production process.

IDS TITAN Drill Pipe is available in a wide range of lengths and diameters with connections to suit most currently available small and mid sized directional drills.



Product Code: DRF

## Features:

- Three-piece construction imparts ideal properties in each section of the drill pipe
- All materials used are test certified. Material test certificates are available to customers for their specific batches of drill pipe
- Tool joint material is selected with the ideal combination of strength and hardness for the maximisation of thread life
- Tube material is selected with ideal properties for strength, flexibility and the capacity to restore to straightness after bending
- The tube - tool joint connection is by Friction Welding, a process that provides a connection stronger than the tube itself
- All threads are CNC-machined by IDS and gauged for correct stand-off
- Threads are phosphate coated for maximum protection

## The complete drill pipe supply service...

IDS also supplies Forged Drill Pipe (Product Code DRT) and API Drill Pipe with a wide a range of specifications and sizes.

Contact IDS or your IDS distributor for more details.

## The Friction Welding Process

Friction Welding is a process used in the construction of drill pipe for oilfield and 'maxi rig' HDD applications.

The friction welding process for IDS TITAN Drill Pipe is undertaken by world-leading specialists, and according to the strictest quality control procedures.

### These procedures include:

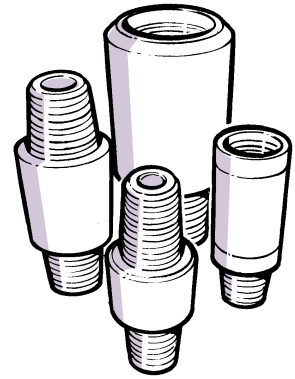
- ISO9002 Quality Assurance System
- Destructive 'Bend-tests' on the first weld in each batch, in compliance with standard BS EN ISO 15620:2000
- Friction welding equipment is fitted with state of the art computer monitoring and data logging systems, to ensure that all critical weld parameters are repeated within predetermined values for each weld
- On-site metallurgical services and a qualified in-house metallurgist are available for technical support throughout the process
- Quality control reports are available to customers upon request, in printed or disk form

**IDS X-Overs and Saver Subs**

*'Helping our customers make the connection'*

- An unrivalled range of drilling connections available including API, 'OEM' (HDD Rig) and IDS
- API threads produced utilising official tooling and gauges
- Expertly machined and gauged for proper stand-off
- Available at short notice to customers' specific requirements to ensure minimisation of downtime.

**Product Code: A**

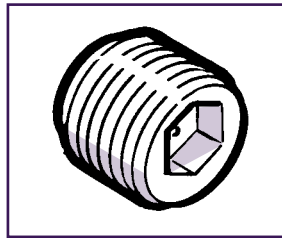


**IDS TC Jet Nozzles**

*'Custom designed for high wear resistance and easy replacement at a competitive price'*

- Compatible with IDS Drill Heads and Large Diameter Back Reamers
- Incorporate TC Inserts for maximum wear resistance
- Available in a range of jet sizes: 2, 4, 6, 8 and 10mm

**Product Code: JN**



**IDS Zinc 50 Thread Dope**

*'A premium-quality compound for maximum thread protection'*

- Designed to provide the maximum protection for threads and shoulders over a wide variety of drilling conditions.
- Manufactured with a unique grease compounded from custom refined low sulphur oil
- The grease base ensures tenacious adherence to all surfaces and prevention of rust and corrosion
- Unmatched in its ability to displace moisture and adhere to wet thread surfaces
- Prevents galling and wear

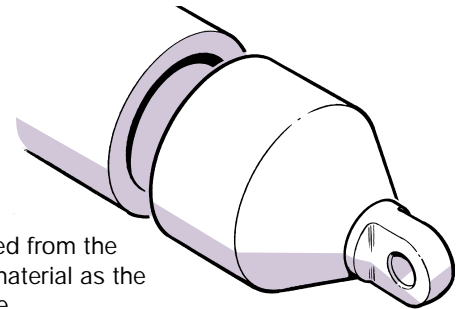
**Product Code: Z50**

**IDS 'PE' Towing Heads**

*'A uniquely effective, simple and affordable pipe-pulling solution.'*

**Features:**

- Manufactured from the same 'PE' material as the product pipe
- Butt-fusion welds onto the product pipe for a fail-safe connection
- Extensive range of sizes available
- Compatible with all SDRs at any given size
- Fully-sealing Butt-Fusion Welded connection is stronger than the pipe itself
- No risk of fluid ingress into the product pipe
- Fully Sealing Central Shaft
- Extremely hard wearing
- Fully reusable
- Easy to maintain
- Uniquely cost effective



**Product Code: TH**

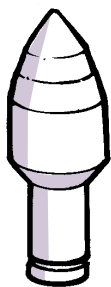
**IDS Replacement Cutters**

*'A comprehensive range of cutters for on-site repair of IDS tooling'*

IDS offers Replacement Cutters to suit all IDS Back Reamers and IDS 'Viper' Hard Ground Bits. Our cutter range comprises:

**Product Code: RC**

**'Pick Tooth' Cutter**  
Part No. RC-CMM-4



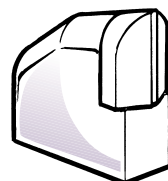
**Reamer compatibility:**  
IDS H2F, IDS Fly Cutters and Barrel Reamers

**Housing for RC-CMM-4**  
Part No. RC-CMMB2



**Reamer compatibility:**  
IDS H2F, IDS Fly Cutters and Barrel Reamers

**'Shark's Tooth' Cutter**  
Part No. RC-RT1



**Reamer compatibility:**  
IDS H1F, IDS H3

**Threaded 'Pick Tooth' Cutter**  
Part No. RC-CMM-4THD

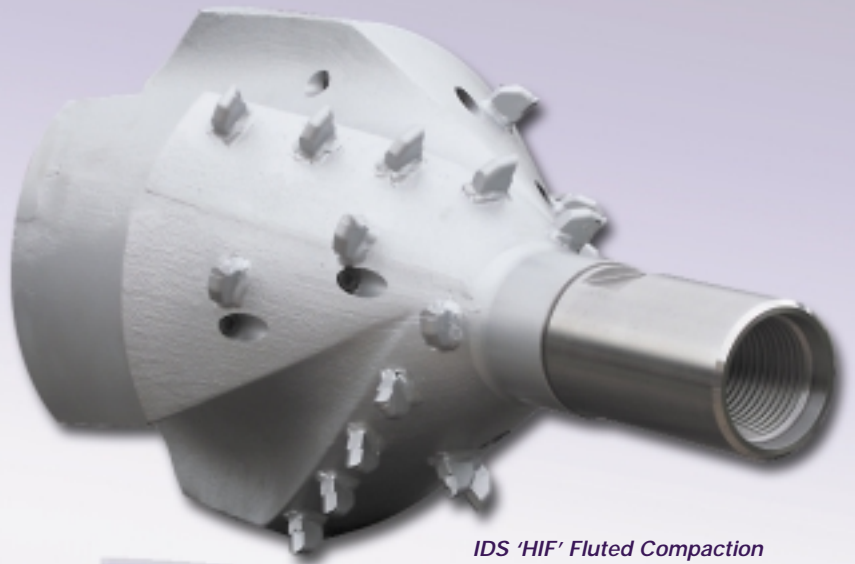


**Bit compatibility:**  
IDS 'Viper' Hard Ground Bits

# IDS TITAN Drill Pipe & IDS Back Reaming Systems



*IDS TITAN Drill Pipe.*



*IDS 'HIF' Fluted Compaction Reamer. 16" (400mm) shown*



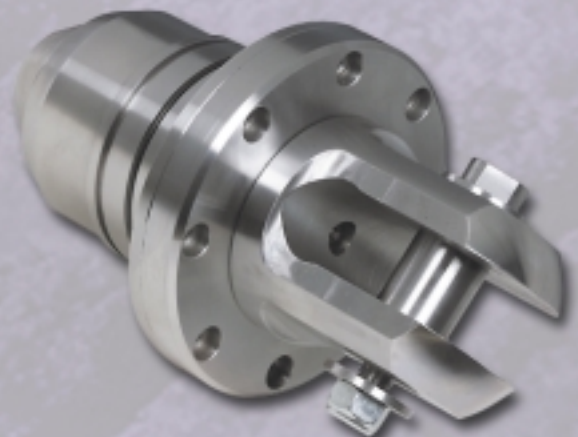
*IDS Barrel Reamer  
14" (350mm) shown*



*IDS Fly Cutter  
30" (750mm) shown*



*IDS HDD Swivel  
11 Tonne shown*



*IDS Integral Swivel  
30 Tonne shown*

*Authorised IDS Distributor:*



**INTERNATIONAL DRILLING SERVICES LIMITED**

Directional Drilling Division

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Sheepbridge, Chesterfield S41 9QB, UK

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