

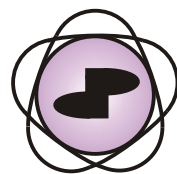
PEN-O-TRATORTM SIZES

| Item | Pipe Size | Hole Size | O.D.Size | Weight range LB/FT |
|-------------------|-----------|-----------|----------|-----------------------|
| 2.7/8" x 3.3/4" | 2 7/8" | 3 3/4" | 3.65" | 9.8 |
| 2.7/8" x 6" | 2 7/8" | 6" | 5.7" | 9.8 |
| 4" x 5.7/8" | 4" | 5 7/8" | 5.687" | 13.2 - 16.5 |
| 4.1/2" x 5.7/8" | 4 1/2" | 5 7/8" | 5.687" | 10.5 - 13.6 |
| 4.1/2" x 6" | 4 1/2" | 6" | 5.8" | 10.5 - 13.6 |
| 5" x 5.7/8" | 5" | 5 7/8" | 5.687" | 18 - 23.2 |
| 5" x 6" | 5" | 6" | 5.8" | 18 - 23.2 |
| 5" x 8.1/2" | 5" | 8 1/2" | 8.3" | 18 - 23.2 |
| 5.1/2" x 8.1/2" | 5 1/2" | 8 1/2" | 8.3" | 17 - 26 |
| 6.5/8" x 8.1/2" | 6 5/8" | 8 1/2" | 8.3" | 24 - 35 |
| 7" x 8.3/8" | 7" | 8 3/8" | 8.2" | 23 - 29 |
| 7" x 8.1/2" | 7" | 8 1/2" | 8.3" | 23 - 29 |
| 7" x 8.1/2" | 7" | 8 1/2" | 8.3" | 32 - 38 |
| 7.5/8" x 8.1/2" | 7 5/8" | 8 1/2" | 8.3" | 33.7 - 42.8 |
| 9.5/8" x 12.1/4" | 9 5/8" | 12 1/4" | 12" | 43.5 - 68 |
| 9.7/8" x 12.1/4" | 9 7/8" | 12 1/4" | 12" | 62.8 |
| 13.3/8" x 17.1/2" | 13 3/8" | 17 1/2" | 17" | 54.5 - 103.1 |

Other sizes and special applications available on request:
For your nearest Distributor/Agent and Stockist, please contact:

Davis
DAVIS-LYNCH, INC.

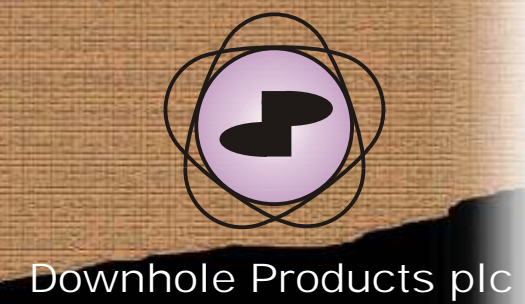
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website: www.downhole.co.uk



Certificate Number : 7175



REAM TO THE EXTREME

THE ULTIMATE PATHFINDING GUIDE SHOE

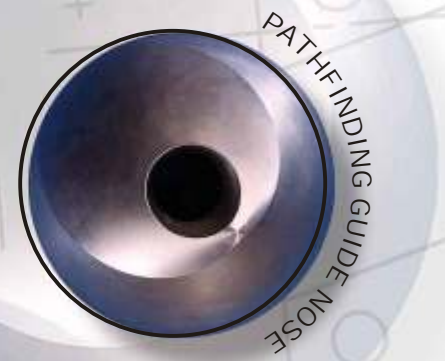
PEN-O-TRATORTM

Pen-o-tratorTM
Featuring "Reamer Technology"TM

Patent Pending

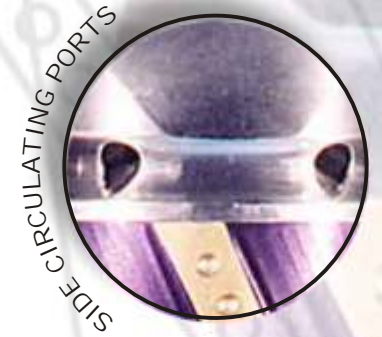
PEN-O-TRATOR

- **NEW WELL-BORE SEEKING GUIDE NOSE NEGOTIATES TROUBLESOME FORMATIONS**
Equipped with a profiled nose that has the ability to freely orientate off obstructions



- **ANTI AGGRESSIVE LEFT HAND BLADES MINIMISE TORQUE**
Non aggressive reaming action with passive angled left-hand blades, eliminates stalling and minimises torque build up on thread connections

- **NEW DYNAMICALLY POSITIONED CIRCULATING PORTS FOR EFFECTIVE HOLE CLEANING**
A single diverging circulating port on the nose is utilised to maximise and maintain circulation. Recessed up-jet angled ports assist cuttings removal and hole cleaning and gives 360 degree cement placement



- **RUN WITH TORQUE AND DRAG REDUCING ZINC ALLOY SPIR-O-LIZERS TO OPTIMISE PERFORMANCE**
The ultra low friction Spir-o-lizer will minimise drag and maximise the rotational ability of the Pen-o-trator and tubular string that follows

- **NEW INNOVATIVE SELF CLEANING CUTTING STRUCTURE**
Superior innovative tapered cutting structure of Tungsten Carbide Button Inserts. Solids will not stick and there are no sharp extrusions to damage wellhead seals and tubulars



- **EASY DRILL-THRU CAPABILITY - PDC, OR ROLLER CONE BIT**
The high strength profiled alloy nose will anchor even in uncured cement to facilitate ease of drill out

- **PENETRATES BY REAMING PAST OBSTRUCTIONS WITH OR WITHOUT ROTATION**
Due to the unique design of the tool Rotation is not necessary. Equipped with a reaming structure that re-establishes the hole size to the gauge of the tool, allowing easy passage of all casing, liner and screen assemblies

- **INTEGRAL FLOAT VALVE - OPTIONAL**
Positive seal PDC drillable spring operated non-return poppet valve. The phenolic material valve is Designed to withstand high temperature, large volumes of fluids pumped at high flow rates. Suitable for both high and low pressure conditions

- **NEW SLICK BODY ELIMINATES SOLIDS BUILD UP**
The slick body design has eliminated potential areas which can trap solids and cuttings

- **NEW INTEGRAL LOW TORQUE CENTRALISER**
A free rotating centraliser bearing supports the tool and reduces torque and drag during running operations



- **INTERCHANGEABLE COMPONENT TECHNOLOGY**
This tool can be readily factory assembled to suit variable configurations and dimensions

