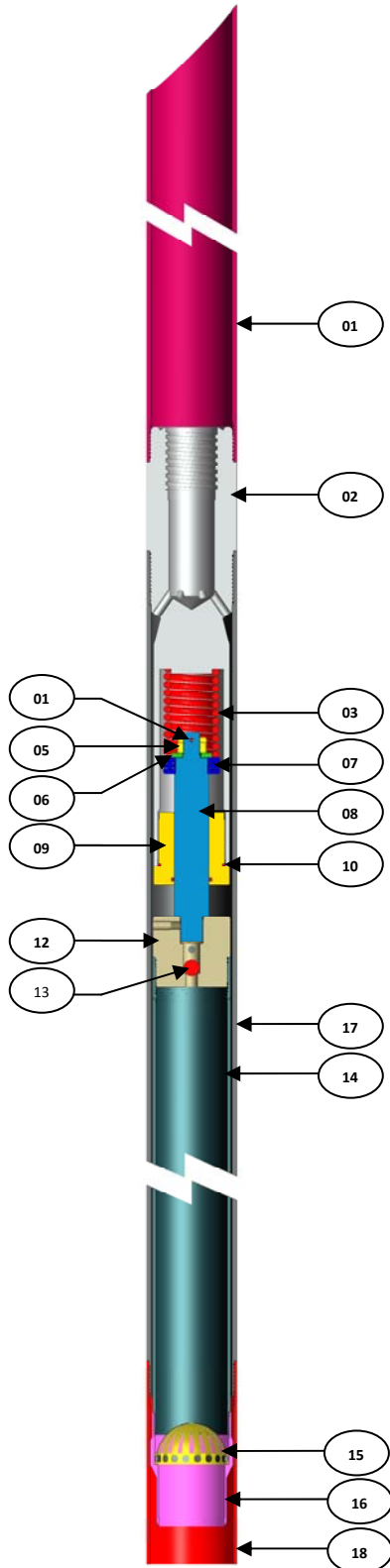


MAZIER CORE BARREL



| | ITEM DESCRIPTION | PART NUMBERS |
|---------------|-----------------------------|------------------|
| 1 - 18 | MAZIER CORE BARREL | 86-00-100 |
| 01 | SEDIMENTARY TUBE | 86-01-001 |
| 02 | HEAD | 86-01-002 |
| 03 | COMPRESSION SPRING | 86-01-003 |
| 04 | COTTER PIN | 86-01-004 |
| 05 | CASTLE NUT | 86-01-005 |
| 06 | WASHER | 86-01-006 |
| 07 | THRUST BEARING | 86-01-007 |
| 08 | SPINDLE | 86-01-008 |
| 09 | BRASS HOUSING | 86-01-009 |
| 10 | O - RING | 86-01-010 |
| 11 | O - RING | 86-01-011 |
| 12 | INNER TUBE CAP | 86-01-012 |
| 13 | SATINLESS STEEL BALL | 86-01-013 |
| 14 | INNER TUBE | 86-03-001 |
| 15 | CORE LIFTER | 86-03-002 |
| 16 | CORE LIFTER CASE | 86-03-003 |
| 17 | OUTER TUBE | 86-02-001 |
| 18 | THREAD PROTECTOR | 86-02-002 |

THE AUTOMATIC IMAZ CORE BARREL ALLOWS TO TAKE AN UNDISTURBED SAMPLE OF SOIL BY APPLYING PRESSURE.

THE ROTATION INCLUDES A FRICTIONLESS DESIGN TO HAVE A WALL COEFFICIENT CLOSE TO ZERO.

THE AXIAL MOVEMENT OF THE SHOE FROM THE BIT ALLOWS AN ADAPTATION TO THE ENCOUNTERED FORMATION WHICH MIGHT BE OF DIFFERENT HARDNESS AND THIS WITHOUT AFFECTING THE QUALITY OF THE SAMPLING. THE SHOE BEING AHEAD OF THE BIT STOPS THE WATER FROM ERODING THE CORE AND THEREFORE DISTURBING IT.

THIS CORE BARREL CAN BE EQUIPPED WITH A DIAMOND BIT AND A CONICAL CORE LIFTER TO SAMPLE ROCK.

SAMPLED ROCK:

SOFT FORMATION 0.1 MPa TO HARD ROCK 5 MPa.