

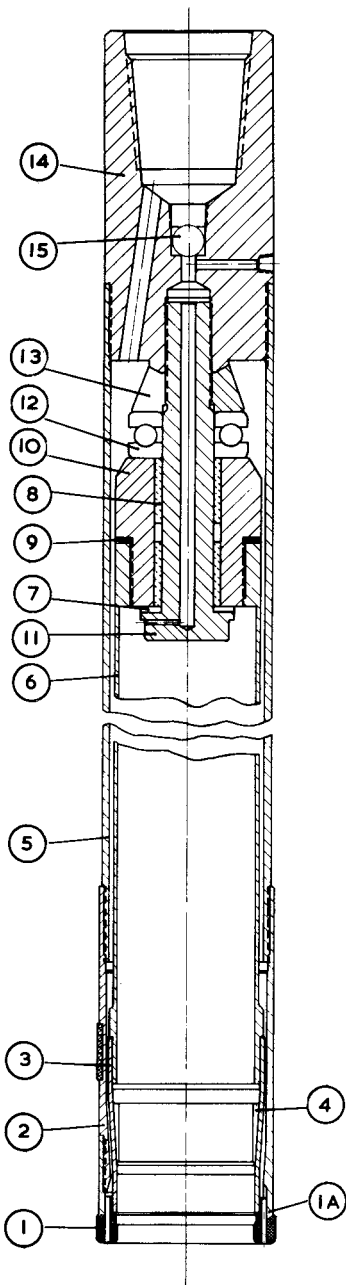
# DTRT & ST Core Barrels

## Face Ejection, Double Tube Swivel Type Core Barrels Air Flush

**These core barrels are specifically designed for use with Air Flush.**

It is often difficult to obtain good core recovery in badly shattered, soft, weathered or partially unconsolidated formations. For these difficult drilling conditions, Face Ejection Core Barrels and Bits are ideal.

In Face Ejection, Swivel Type Core Barrels, two features help produce good core recovery under difficult conditions. First, the inner core tube, mounted on a swivel bearing, remains stationary while the outer tube rotates. The core can thus slip into the inner tube without being disturbed or jammed by contact with the rotating metal. Since the stationary knock-on type core lifter case is directly behind the diamond face of the bit, the twisting effect on the core is limited to the length of the inner cutting face of the bit. Secondly, the Air Flush passes through the core barrel between the inner and outer tube assemblies and then through the ejection holes directly to the face of the bit, eliminating the washing or eroding effect of the high velocity air on the core. These core barrels can also be used with either water or mud fluids.



### CORE BARRELS

Bit-Set Gauge		HWA		412F	
		O.D.	3.906in	99.2mm	4.125in
Outer Tube	O.D.	3.687	93.6	3.875	98.4
	I.D.	2.875	73.0	3.125	79.4

Item	Description	No. Req'd	Part No.	Part No.
	Core Barrel Assembly	10ft	1713412	8171605
		5ft	1713414	8171606
7-18	Core Barrel Head Assembly		1713412	8171605
1*	Bit - Diamond Set - Long	One	8-170-184	8-170-100
	Bit - Carbide Set - Long	to suit	8-170-183	8-170-101
3	Core Lifter Case	1	1743307	8174301
4*	Core Lifter	1	1702319	8170200
5	Outer Tube	One	1705342	8170500
		to suit	1705344	8170501
6	Inner Tube	One	1706346	8170605
		to suit	1706348	8170606
7	Thrust Washer	1	1727300	1727300
8	Bushing	2	5020030	5020030
9	Shim Set	1	1722302	-
10	Bearing Plug (C/W Item 8)	1	1725304	8172500
11	Core Barrel Spindle	1	1742304	1742304
12	Ball Thrust Bearing	1	5000120	5000120
13	Core Barrel Spindle Nut	1	1739303	1739303
14	Core Barrel Head	1	1707318	8170715
15	Steel Ball	1	5200019	5200029
16	Pipe Plug (not shown)	1	5520056	5520058
17	Vent Plug (not shown)	1	1740400	-
18	Shim Retaining Nut (incl. Item 6) (not shown)	1	1723300	-

\*Parts are not included with the assembly and must be ordered separately.  
Long shank bit set to reaming shell O.D.