



Secoroc Rock Drilling Tools

# ***IN-THE-HOLE CORE DRILLING TOOLS***

Product catalogue

*Atlas Copco*







# ***SECOROC ROCK DRILLING TOOLS***

Atlas Copco Geotechnical Drilling and Exploration can offer the equipment needed for all underground and surface exploration applications. This includes Core drilling rigs and a full range of high technical and high quality products; In-The-Hole equipment such as wireline, drill rods and conventional Core barrels as well as casing and diamond tools - all designed to maximize our customers profitability.

All of our products are designed to help minimize down-time and maximize productivity. Be assured that we are ISO certified. However, if a problem should occur, we will quickly be at your site thanks to the worldwide Atlas Copco Service organization.

Just contact your local Atlas Copco representative. Visit us at [www.atlascopco.com](http://www.atlascopco.com)



# CONTENTS

<b>About our products</b>	<b>7</b>
<b>Efficient Core recovery</b>	<b>8</b>
<b>Get familiar with our catalogue</b>	<b>9</b>
<b>Coring system information</b>	<b>10</b>
Core sample sizes	10
Outer tube configurations	11
Wireline drill rod weights and dimensions	11
<b>Core barrel selection criteria</b>	<b>12</b>
Core barrel systems overview	12
Standard wireline Core barrel main components	12
<b>Core barrel selection criteria</b>	<b>13</b>
<b>ExCore safety overshoot</b>	<b>14</b>
Features and benefits	14

<b>A OTW – Core barrel system</b>	<b>16</b>
Core barrel spare parts kit	17
Overshot spare parts kit	17
Head assembly	18
Overshot assembly	20
<b>A OTW-U – Core barrel system</b>	<b>22</b>
Core barrel spare parts kit	23
Overshot spare parts kit	23
Head assembly	24
Overshot assembly	26

<b>B EX – Compact Core barrel system</b>	<b>28</b>
Core barrel spare parts kit	29
EX Safety overshoot spare parts kit	29
Compact Head assembly	30

<b>B OTW – Core barrel system</b>	<b>32</b>
Core barrel spare parts kit	33
EX II Safety overshoot spare parts kit	33
Head assembly	34

<b>B O-Series – Core barrel system</b>	<b>36</b>
Core barrel spare parts kit	37
EX II Safety overshoot spare parts kit	37
Head assembly	38
EX Safety overshoot assembly	40

<b>B U-EX – Core barrel system</b>	<b>42</b>
Spare parts kit	43
EX Safety overshoot spare parts kit	43
Head assembly	44
EX Safety overshoot assembly	46

<b>B OTW-U – Core barrel system</b>	<b>48</b>
Core barrel spare parts kit	49
Overshot spare parts kit	49
Head assembly	50
Overshot assembly	52

<b>N EX – Compact Core barrel system</b>	<b>54</b>
Core barrel spare parts kit	55
Safety overshoot spare parts kit	55
Compact Head assembly	56

<b>N2 EX – Compact Core barrel system</b>	<b>58</b>
Core barrel spare parts kit	59
Safety overshoot spare parts kit	59
Compact Head assembly	60

<b>NTW EX – Compact Core barrel system</b>	<b>62</b>
Core barrel spare parts kit	63
Safety overshoot spare parts kit	63
Compact Head assembly	64

<b>N3 EX – Compact Core barrel system</b>	<b>66</b>
NO-EX to N03-EX Conversion kits	67
Core barrel spare parts kit	67
Safety overshoot spare parts kit	67

<b>N O-Series – Core barrel system</b>	<b>68</b>
Core barrel spare parts kit	69
Safety overshoot spare parts kit	69
Head assembly	70

<b>N3 O-Series – Core barrel system</b>	<b>72</b>
Core barrel spare parts kit	73
Safety overshoot spare parts kit	73

<b>N – EX II Safety overshoot assembly</b>	<b>74</b>
--	-----------

<b>N U-EX – Core barrel system</b>	<b>76</b>
Core barrel spare parts kit	77
EXII-U Safety overshoot spare parts kit	77
Head assembly	78

<b>N2 U-EX – Core barrel system</b>	<b>80</b>
Core barrel spare parts kit	81
EXII-U Safety overshoot spare parts kit	81
Head assembly	82

<b>NTW UE-X – Core barrel system</b>	<b>84</b>
Core barrel spare parts kit	85
EX II Safety overshoot spare parts kit	85
Head assembly	86

<b>N U-EX EX II Safety overshoot assembly</b>	<b>88</b>
---	-----------

<b>H EX – Compact Core barrel system</b>	<b>90</b>
Spare parts kit	91
Safety overshoot spare parts kit	91
Compact Head assembly	92

<b>H3 EX – Compact Core barrel system</b>	<b>93</b>
H-EX to H3-EX Conversion kits	94
Core barrel spare parts kit	94
Safety overshoot spare parts kit	94

<b>H O-Series – Core barrel system</b>	<b>96</b>
Core barrel spare parts kit	97
Safety overshoot spare parts kit	97

<b>H O-Series – Head assembly</b>	<b>98</b>
-----------------------------------	-----------

<b>H3 O-Series – Core barrel system</b>	<b>100</b>
Core barrel spare parts kit	101
Safety overshoot spare parts kit	101
EX II Safety overshoot assembly	102

<b>H U-EX – Core barrel system</b>	<b>104</b>
Core barrel spare parts kit	105
EXII-U Safety overshoot spare parts kit	105
Head assembly	106

<b>H – EX II Safety overshoot assembly</b>	<b>108</b>
--	------------

<b>P EX – Compact Core barrel system</b>	<b>110</b>
Core barrel spare parts kit	111
EX II Safety overshoot spare parts kit	111
Compact Head assembly	112

<b>P3 EX – Compact Core barrel system</b>	<b>114</b>
Core barrel spare parts kit	115
EX II Safety overshoot spare parts kit	115
EXII Safety Overshoot assembly	116

<b>46 TTG – Conventional Core barrel system</b>	<b>118</b>
Head assembly	119
Consumable kit	119
Spare parts kit	119

<b>48 TT – Conventional Core barrel system</b>	<b>120</b>
Head assembly	121
Consumable kit	121
Spare parts kit	121

<b>60 TT – Conventional Core barrel system</b>	<b>122</b>
Head assembly	123
Consumable kit	123
Spare parts kit	123

# CONTENTS

<b>Wireline drill rods and casings .....</b>	<b>124</b>
<b>T-Series – Wireline drill rods .....</b>	<b>125</b>
Overview technical specifications .....	125
<b>MO-Series – Wireline drill rods .....</b>	<b>126</b>
Parallel wall - MO Series Heat Treated .....	126
Overview technical specifications .....	126
<b>CMO-Series – Wireline drill rods .....</b>	<b>127</b>
Internally upset - CMO series .....	127
Overview technical specifications .....	127
Weight comparison .....	127
<b>O-Series – Wireline drill rods .....</b>	<b>128</b>
Overview technical specifications .....	128
<b>TT-Series – Wireline drill rods .....</b>	<b>129</b>
TT-Series - Tuff rod - Thin wall .....	129
Thin wall drill rod - TW / GM Series .....	129
<b>Casing and Tricones – Casing .....</b>	<b>130</b>
Flush joint casings - W-Series .....	130
Overview technical specifications .....	130
<b>Shipment information – Wireline drill rods .....</b>	<b>131</b>
Shipping information .....	131
Pieces per bundle .....	131
<b>5000 T.C – Water swivel .....</b>	<b>132</b>
Drill rod pin to drill rod pin adapters .....	132
<b>25000 T.C – Water swivel .....</b>	<b>133</b>
Drill rod pin to drill rod pin adapters .....	133
<b>AWJ T.C – Water swivels .....</b>	<b>134</b>
<b>18/0 – Water swivels .....</b>	<b>135</b>
<b>Repair kits .....</b>	<b>136</b>
5000 Water swivel repair kit .....	136
25000 Water swivel repair kits .....	136
18/0 Water swivel repair kit .....	136
<b>Hoisting plugs .....</b>	<b>137</b>
Hoisting plug BNH .....	137
Drill rod pin to drill rod pin adapters .....	137
Hoisting plug 55K .....	138
Drill rod pin to drill rod pin .....	138
<b>Stuffing box .....</b>	<b>139</b>
Seal kit .....	139
Dimensions kit .....	139
<b>Casing Advancer – Assembly .....</b>	<b>140</b>
<b>Casing cutter – Casing and rod cutter assembly .....</b>	<b>142</b>
BW Casing cutter assembly .....	142
NW Casing cutter assembly .....	142
HW Casing cutter assembly .....	142
<b>Outer tubes .....</b>	<b>144</b>
Standard outer tubes .....	144
Chrome plated outer tubes .....	145
Full hole outer tubes .....	145
<b>Inner tubes .....</b>	<b>146</b>
Inner tubes - Standard .....	146
Inner tubes - Chrome plated .....	147
Inner tubes - Extended .....	147
Inner tubes - Extensions and couplings .....	148
Inner tubes - Extension - Double Reaming shell 10" .....	148
Inner tubes- Extension - Triple Reaming shell 18 3/8 .....	148
Inner tubes - Couplings .....	148
<b>Core barrel – BO/NO/HO .....</b>	<b>149</b>
Extended Core barrel configuration .....	149
<b>Subs – Pin to pin .....</b>	<b>150</b>
NW thread pin to drill rod pin .....	150
Specialty adapters .....	150

<b>Subs – Casing / Tricone adapters and bits .....</b>	<b>151</b>
Casing pin to casing pin .....	151
Casing and rod cutter adapters .....	151
Tricones - For non-Core drilling and casing installation .....	151
Tricone - Drill rod adapters .....	151
<b>Subs – Casing adapters .....</b>	<b>152</b>
Drill rod box to casing pin .....	152
<b>Subs – Stage drilling &amp; Telescoping .....</b>	<b>153</b>
Stage drilling & telescoping connections adapters subs .....	153
Tubular cross over adapters .....	153
<b>Subs – Recovery taps .....</b>	<b>154</b>
Wireline combination rod, Core barrel, bit and shell recovery tap .....	154
Casing recovery taps .....	154
<b>Tools .....</b>	<b>155</b>
Tools - Rigid wrenches steel handles .....	155
Tools - Full grip wrenches .....	156
Tools - Nicopress .....	157
<b>Adapter couplings – Full hole adapter .....</b>	<b>157</b>
Full hole Adapter coupling - Surface .....	157
Full hole Adapter coupling - Underground .....	157
<b>Core lifters .....</b>	<b>158</b>
Core lifter - Slotted .....	158
Core lifter - Fluteds .....	158
Core lifter - Basket ring Core lifters .....	158
<b>Fluid control – Shut-off valves .....</b>	<b>159</b>
Standard Shut-off valve (Black) .....	159
Optional Shut-off valve (Yellow/Green) .....	159
Fluid retention kit - Sizes B/N/H .....	159
Landing indicator kit - Sizes B/N/H .....	159
<b>Warranty / Aftermarket .....</b>	<b>160</b>
<b>Conversion factors .....</b>	<b>161</b>





# ABOUT OUR PRODUCTS

## Exploration drilling products

In partnership with our valued customers and business partners, and with more than 140 years of experience, Atlas Copco continues to innovate always keeping in mind our strong commitment to sustainable productivity.

Atlas Copcos customers are located almost everywhere on the globe. Our pledge to provide local support to our clients and our assurance that we will be there, makes Atlas Copco a partner our customers can count on, wherever they are in the world. Atlas Copco group is a global enterprise with worldwide resources. We are present in over 130 countries. Our exploration products include diamond tools, Premium Core drilling In the Hole tools, Wire line

and conventional drill rods and casings. We manufacture and supply state of the art exploration drilling machines designed with customers and operators productivity and safety in mind.

We believe in continuous innovation and our design and development teams around the world are pursuing research and constantly improving our Exploration drilling products and equipments performance in order to maximize productivity and safety. Atlas Copco In the hole tools are constantly being upgraded to exceed the extreme requirements of todays exploration drilling projects and surpass the expectations of todays diamond drilling contractors and mining companies around the globe.

### Diamond products

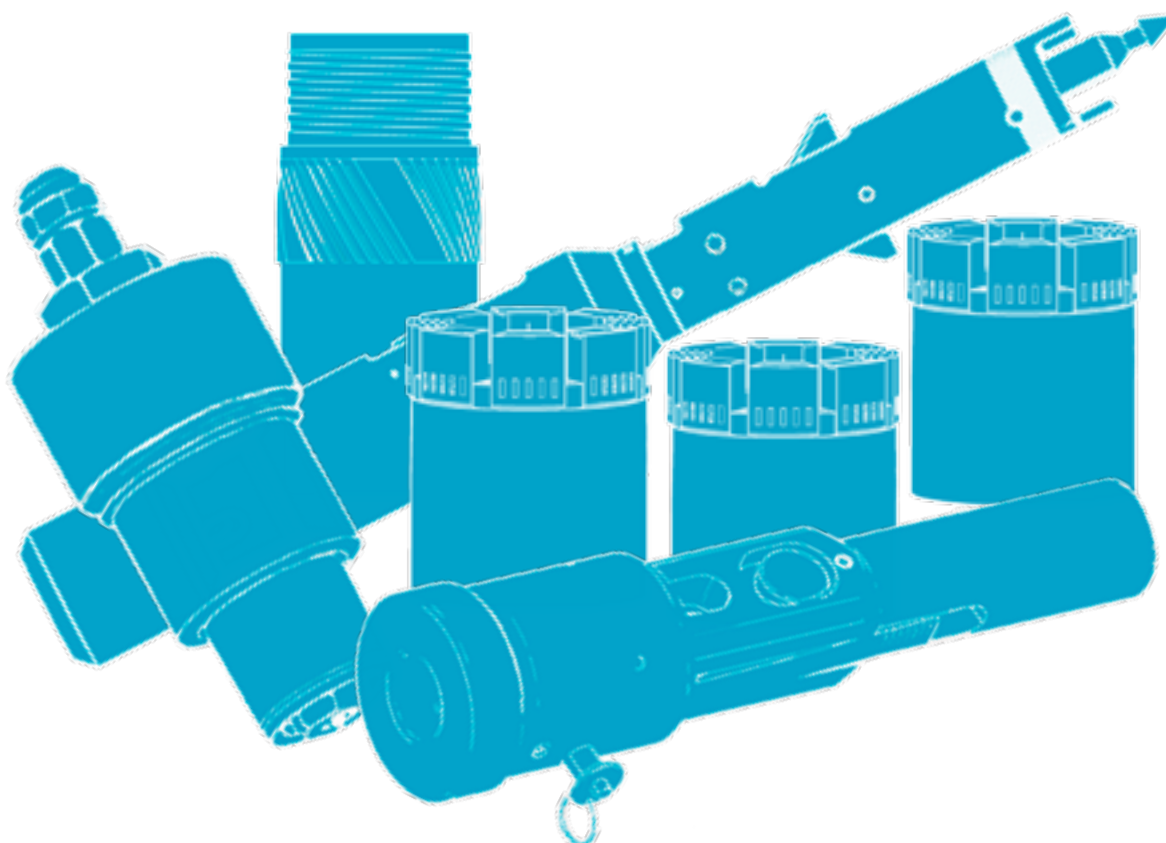
- Coring bits
- Reaming shells
- Casing shoes and Rod shoes
- Impregnated Locking couplings and adapters

### Rods, In-the-Hole Tools and Casing

- MO, O, T, TT, GM and WJ series threads
- Drill rods; parallel or internally upset rods
- Complete line of wireline and conventional Core drilling tools
- Casing

### Exploration drilling rigs

- Surface
- Underground



# ***EFFICIENT CORE RECOVERY***

## **Core in the box**

The end users of exploration Core drilling products are generally in the business of, providing representative and quality Core samples to their customers.

Recovered Core samples are used to extract vital information where chips or other data gathering techniques do not provide the level of confidence required to make decisions.

The quality of recovered Core samples is of greatest importance, and is influenced by the personnel, capital and support equipment, diamond products, tools and accessories used in given ground conditions.

In The Hole tools, (ITH), represents only a small component of total project cost, but its selection and use have great significance.

Understanding the end user then, his goals and in particular his application, influences how efficient coring and commercial solutions are developed and implemented.

## **Core drilling basics**

Core can be generally defined as a volumetric cylinder of material, created by the advancement of a rotating hollow centered diamond Drill bit through a given in-situ formation and subsequently removed.

Core recovery is a quantifiable measurement defined as the total linear amount of physical Core sample extracted over the total linear advancement in a given borehole, expressed as a percentage.

Recovery is often measured against a section of advance, typically in the target zone and/or for the entire borehole.

Mechanically speaking, the Core being created is encapsulated

within and extracted by a retrievable sampling device, called a Core barrel. It is connected to a consumable coring Drill bit,

typically made with synthetic diamonds, which is the Core cutting tool. As the Drill bit penetrates through the material, it creates a Core in its wake, entering the Core barrel until its recipient tube is

full, or the Cores entry is impeded, at which time the sample recipient tube is removed, emptied of its Core, replaced and drilling can resume.

Core sampling will consist of the borehole starting point or collar, the target and the path in between. Boreholes ranging from 48-146 mm diameter, and depths of 3-3000 m share the following:

- ✱ The diamond Core drill
- ✱ The flushing circuit
- ✱ The drill rod string
- ✱ The Core barrel
- ✱ The diamond tools

$$CR (\%) = \frac{\text{Length of Core}}{\text{Length of advance}} \times 100$$

*As a general rule: the larger the Core diameter the better the Core recovery.*





# GET FAMILIAR WITH THE CATALOGUE

This catalogue will assist you in choosing the most beneficial Core barrel, Head assembly, overshot, and accessories for your given application. Each section begins with a basic introduction consisting of helpful information to point you towards the best possible prod-

uct for the application in question. The main part of each section consists of detailed parts information, alongside a spare parts kit for the assembly featured on a given page.

## Core barrel selection

For Core barrels, first determine the orientation of the borehole. If the borehole will be drilled between vertical down to 45 degrees from vertical down (-90 degrees to -45 degrees), choose one of the three surface style systems, for flatter or up holes choose within the two underground ranges of Core barrel systems.

For surface style selections, determine if the application requires a double tube or a triple tube design. If a double tube design is preferred then choose if a standard wall or thin wall design is favored. Likewise, for underground style selections, determine if a standard wall or thin wall design is favored.

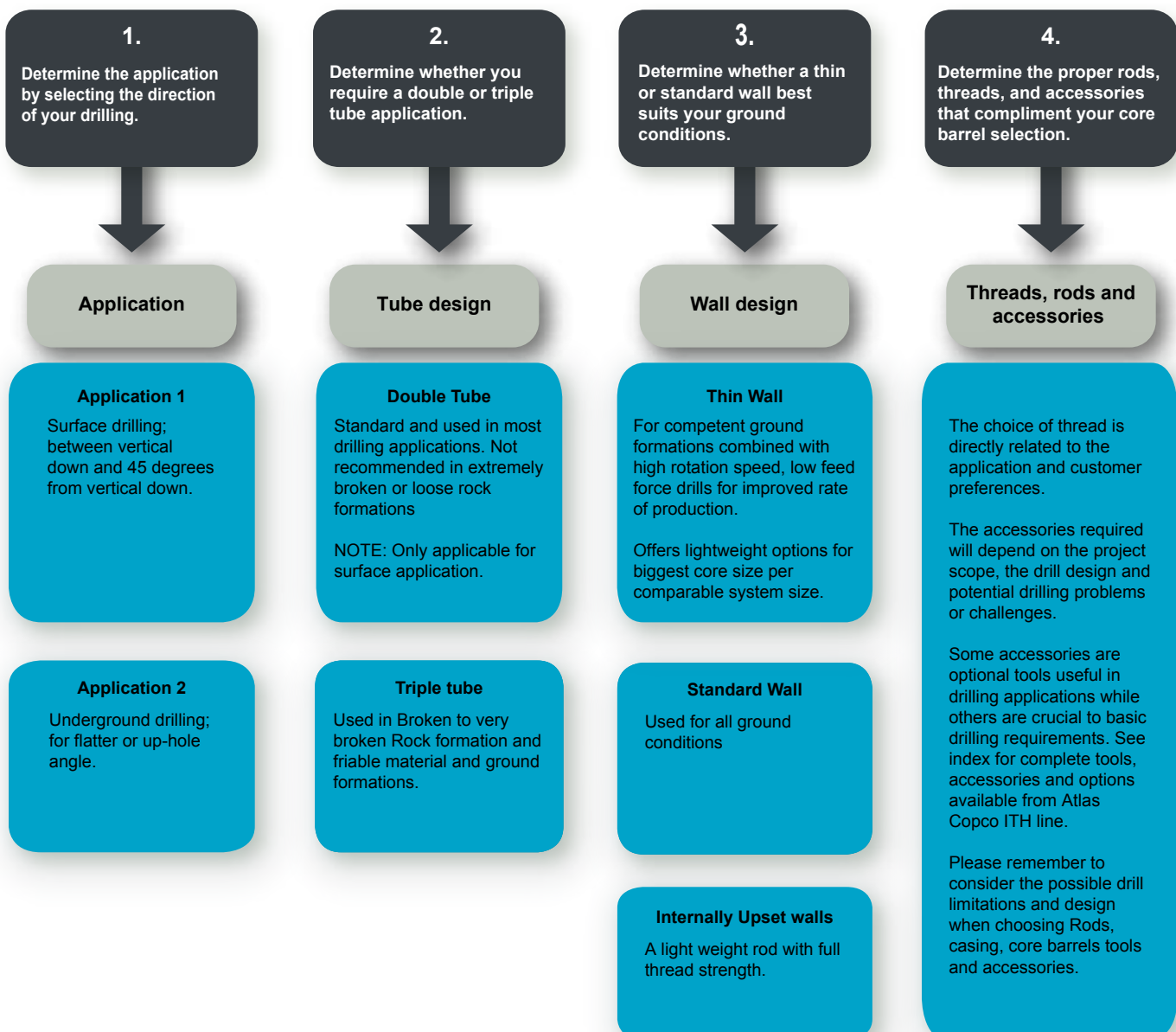
## Drill rod selection

Choosing a drill rod is based on the preferred thread connection and the overall length that can be handled efficiently. Dont forget to consider the limitations of the drill design and the envelope within which the drill will be operating.

## Accessories selection

Finally, choose the accessories that you require to complement the Core barrel and drill rod selections. Consider the threaded connections required.

As a general rule, use these determining factors to focus on the correct sections to select products for the given applications.

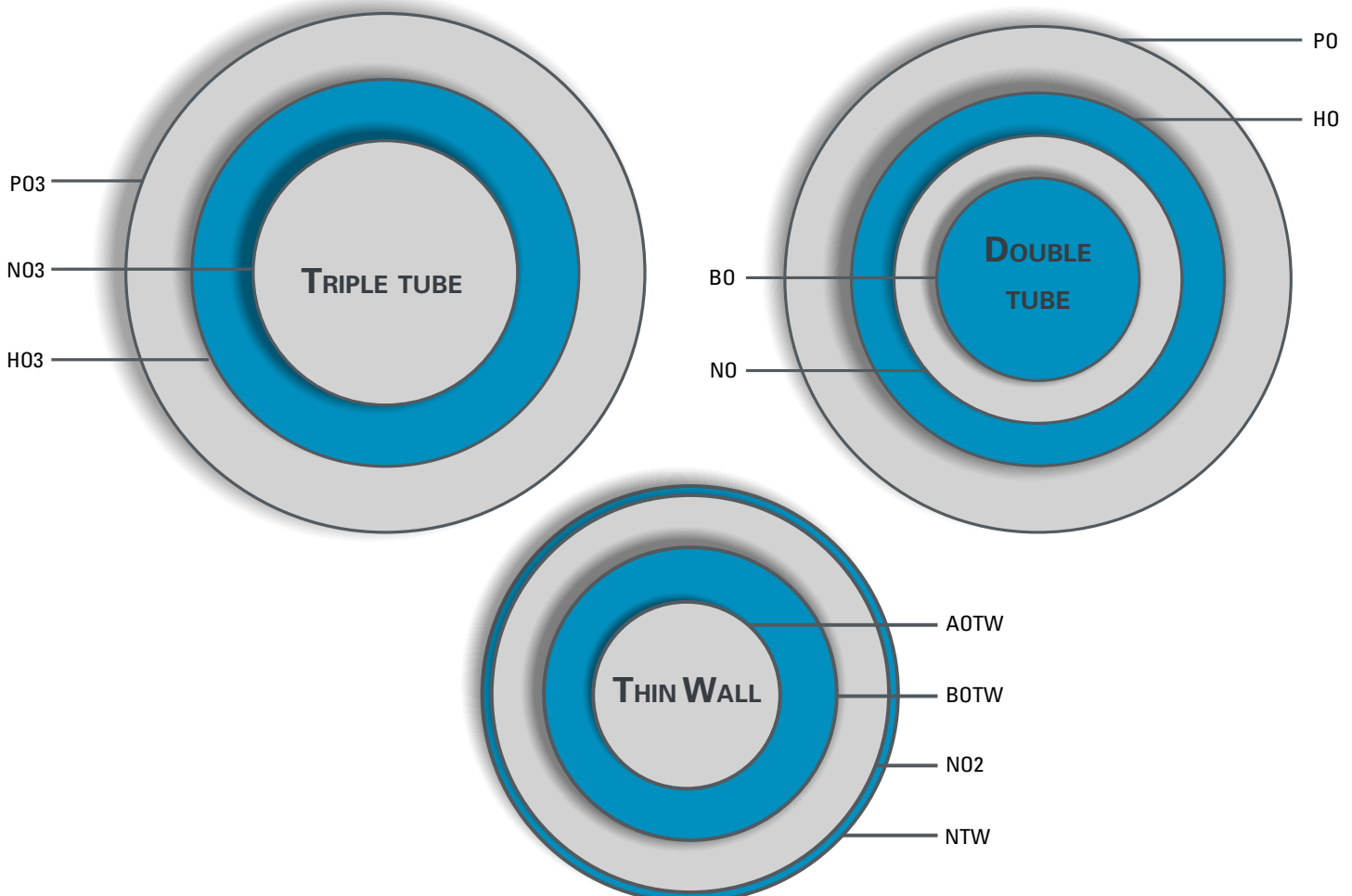


# CORING SYSTEM INFORMATION

## Core sample sizes

Below is a chart to evaluate Core sample sizes and to locate the corresponding Core barrel systems.

Size	Metric system (mm)		Imperial system (in)	
	Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
<b>Double tube</b>				
B0	60.0	36.4	2.36	1.43
N0	75.6	47.6	2.98	1.88
H0	96.1	63.5	3.78	2.50
P0	122.7	85.0	4.81	3.34
<b>Triple tube</b>				
N03	75.6	45.1	2.98	1.77
H03	96.1	61.1	3.78	2.41
P03	122.7	83.0	4.81	3.26
<b>Double tube thin wall</b>				
A0TW	48.0	30.3	1.89	1.19
B0TW	60.0	42.0	2.36	1.65
N02	75.6	50.7	2.96	2.0
NTW	75.6	56.1	2.96	2.21
<b>Conventional</b>				
46TTG	46.3	35.1	1.81	1.38
48TT	48.0	35.3	1.89	1.39
60TT	60.0	44.0	2.36	1.73

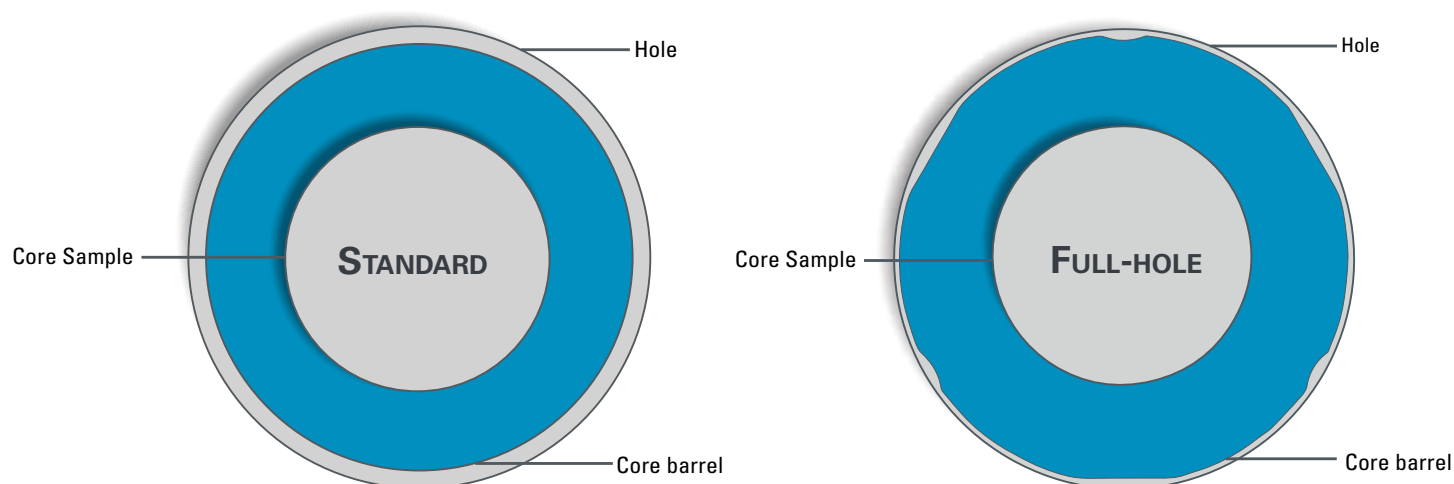




## Outer tube configurations

Atlas Copco manufactures Wireline Outer tubes in both standard and Full Hole configurations. When accuracy of the drill hole is critical, the use of our Full Hole Outer tubes will assist in achieving the minimum possible deviation. The Full Hole design is slightly smaller than standard Reaming shell set size, which reduces the space between the Outer tube and the bore hole, thereby maximiz-

ing stabilization and minimizing deviation. Although you may see slightly higher drilling pressures when using the Full Hole Core barrel system, there are water ways along the entire length of the Full Hole Outer tube that help to facilitate water flow and cuttings evacuation. No special adapters are required when using these Full Hole components.



## Wireline drill rod weights and dimensions

Length and dimensions								
Size Rods	Metric system				Imperial System			
	Diameter		Weight (kg)		Diameter		Weight (lbs)	
	Outer	Inner	1.5 m	3.0 m	Outer	Inner	5 ft	10 ft
<b>Rods</b>								
A0/AT	44.5	34.9	6.8	13.9	1.75	1.38	15.7	31.4
AGM/ATT	44.5	36.8	5.9	11.8	1.75	1.45	13.0	26.0
B0/BT	55.6	46.0	8.9	17.9	2.19	1.81	20.1	40.2
BGM/BTT	56.5	48.8	7.6	15.3	2.23	1.92	16.8	33.8
N/NMO/NT	69.9	60.3	11.4	22.9	2.75	2.38	25.7	51.4
NTW	73.0	64.3	11.12	22.19	2.874	2.531	24.90	49.67
H/HMO/HT	88.9	77.8	17.1	34.2	3.50	3.06	38.0	76.7
PT/PMO	114.3	101.6	25.4	56.0	4.50	4.00	56.9	123.5
<b>Casing</b>								
AW	57.1	48.4	8.3	16.9	2.25	1.91	18.4	37.4
BW	73.0	60.3	15.3	31.2	2.88	2.38	33.8	68.8
NW	88.9	76.2	19.1	38.8	3.50	3.00	42.1	85.6
HW/HWT	114.3	101.6	25.0	50.8	4.50	4.00	55.1	112.1
PW/PWT	139.7	125.5	34.9	69.7	5.50	4.94	76.7	153.3

# CORE BARREL SELECTION CRITERIA

## Core barrel systems overview

Atlas Copco offers a full range of surface application Core barrels. The ExCore Core barrel design is available in standard double tube designs in B, N, H and P with the option for easy conversion to triple tube configurations in broken ground. We also offer thin wall Core barrels, used when ground conditions and drill rig selection are appropriate, these thin kurf Core barrels offer the end user an opportunity to increase sample size within a nominal bore-hole size and a lighter rod string.

Pump-in, or underground style Core barrels are available in double

tube, triple tube and thin wall. These pump in style wire line Core barrels are designed to work in flatter and up-hole applications where gravity does not permit unassisted movement of the inner wire line components. The ExCore premium line of ITH tools provide high performance you can count on when you need to push the inner tube and overshot assemblies through the drill rod string using the drilling fluid. In addition, our ExCore underground style Core barrels are designed with the operators safety in mind, to provide a secure landing and latching that drillers can count on.

## Standard wireline Core barrel main components

### Overshot

An overshot is used to retrieve the inner tube assembly. The surface version is for use in holes within the vertical to -45 degree range. It is lowered down the hole with the use of a wireline winch. In underground applications, the overshot is pumped through the drill rod allowing inner tube retrieval from holes that are lay flat as well as in both up or down holes.

### Locking coupling

A Locking coupling is used to connect the Core barrel to the drill rod string. In addition, it provides directional control and wear resistance and locks the inner tube in place.

### Adapter couplings

The Adapter coupling provides the connection between the Locking coupling and the outer tube. It provides the location for the latches of the Head assembly to lock into

### Head assembly

The Head assembly is the mechanism that latches the inner tube in place. Internal bearings allow the inner tube to remain stationary while the drill string and outer tube are rotated. Head assemblies have water shut-off valves which indicate to the drill operator when the inner tube is full and must be retrieved.

### Landing ring

The Landing ring is located the connection between the outer tube and the Adapter coupling. It provides a surface for the Head assembly landing shoulder to land on positioning the inner tube in the correct location.

### Outer tube

The outer tube is the link between the Adapter coupling and the Reaming shell and Drill bit. The stationary inner tube is contained inside the rotating outer tube. The outer tube is constructed in heavier steel and assists in the directional control of the hole. They are offered in standard or full hole which adds even more directional stability to the hole.

### Inner tube

The inner tube stabilizer acts as a bearing between the stationary inner tube and the rotating outer tube. It positions the inner tube centrally in the outer tube for maximum Core recovery.

### Core lifter case

The Core lifter case attaches to the inner tube and provides the location for the Core lifter to be placed in. Once the inner tube is filled, the drill operator lifts the drill string to break the Core from the parent rock at the face. In this action, the Core lifter case bottoms against the Drill bit allowing for the Core sample to break.

### Core lifter

A Core lifter is used to grab and secure the Core sample in the inner tube.

### Stop ring

The stop ring is snap ring that locks the Core lifter in the Core lifter case.

### Reaming shell

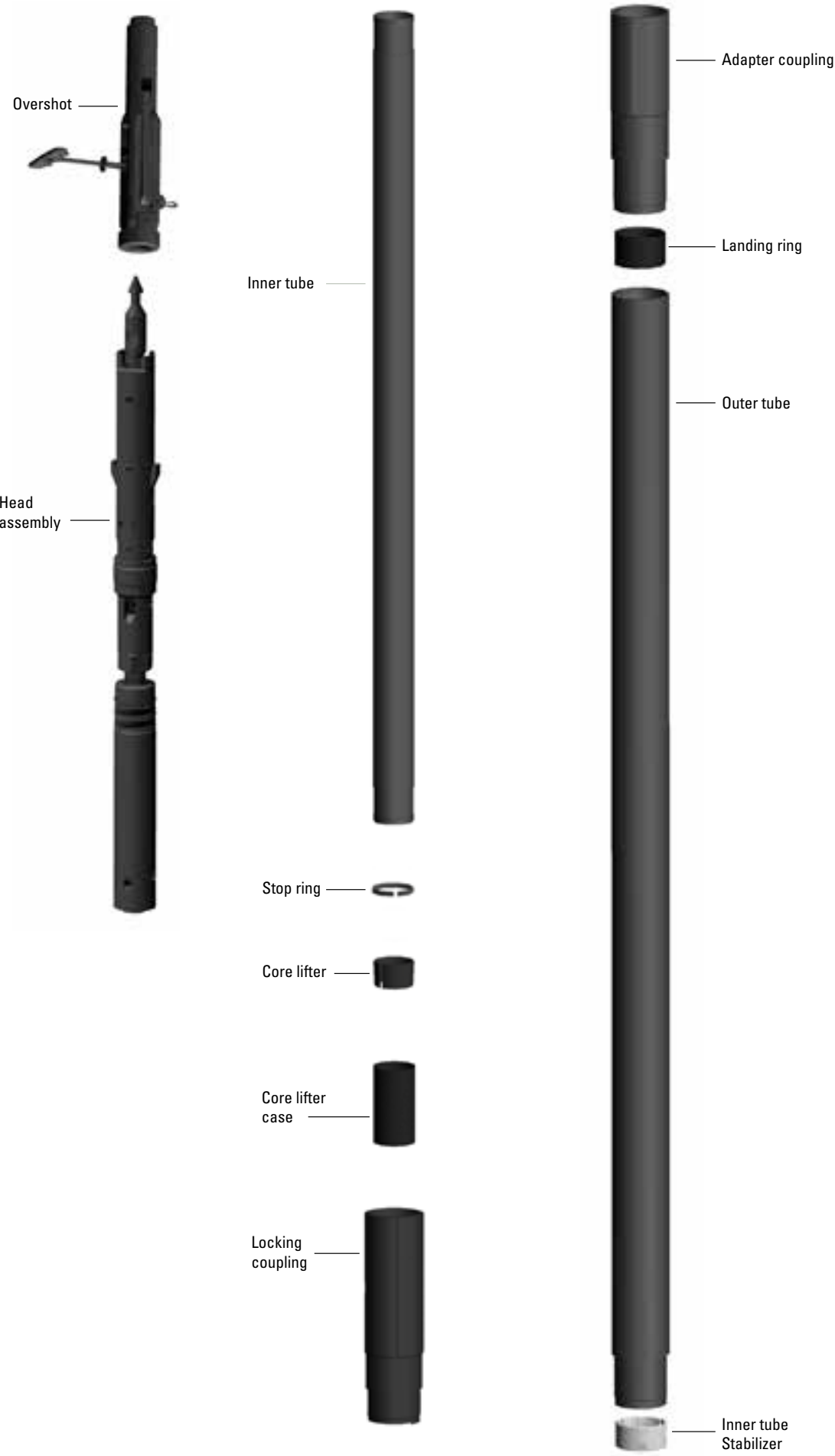
The Reaming shell, located between the outer tube and the Drill bit sets and maintains the correct hole diameter and assists in the directional stability of the hole.

### Drill bit

The Drill bit provides the cutting action required to create the Core sample. They are available in many design variations and are tailored to the various rock types and conditions.



# CORE BARREL SELECTION CRITERIA



# EXCORE SAFETY OVERSHOT

## Features and benefits

Atlas Copco responded to the industry request for safer manipulation of the inner tube assembly.

The mining and exploration industry demanded a safer inner tube retrieval system. Atlas Copco responded with the innovative, patented EX safety overshoot. The EX overshoot will take the drilling crew safety to a higher level with improved productivity. For today critical importance on safety records of drilling company, the clear choice is the EX Safety Overshoot.

### Safety

Our patented Safety mechanism is automatically engaged without drilling crew intervention to protect against accidental release of the inner tube assembly.

With the EX Safety overshoot, the automatic safety feature take away the possibility that drilling crew may, with potentially disastrous result, forget to lock or be unaware of the safety feature of other locking overshoot

There no time lost in stopping to manually lock the overshoot head.

With an independent secondary locking pin, the risk is reduced even further by providing another means to lock the inner tube using the Core barrel assembly spearhead. This becomes even more important in the event that the spearhead or the lifting dogs are worn out and are in need of replacement.

Our strong and durable threaded jar staff provides strength and increased lifting capacity.

Our independently tested lifting capacity is put on every EX overshoot.

### Durability of components

The EX Overshoot was developed with maximizing the life of the component and lowering cost of ownership of our Premium tool line. When they do require maintenance, the EX Overshoot is easily repaired. The worn out parts are easy to remove and replace.

### Ease of use

The release mechanism of the inner tube assembly is intuitive. Its easy to train the crew on its operation and maintenance. The releasing of the inner tube assembly is similar to that of standard, not locking overshoot when the inner tube assembly is on the floor. Once the inner tube is back into the rods string, a special release tool provided with each overshoot makes the releasing of the inner tube assembly a safe and effortless task.

In order to best support our customers, Atlas Copco has made available operators manuals and repair and maintenance instructions for our EX overshoot.

### Sizes

ECORE EX Safety overshoot is Available in B to P size in above ground and in pump in system.

### Optional tools and accessories

- ✳ EX Safety Roller overshoot
- ✳ Dry Hole lowering kit
- ✳ Upgrade adapters for O-series
- ✳ Surface overshoot length reducer adapter
- ✳ Up hole EX pumping overshoot water column draining adapter





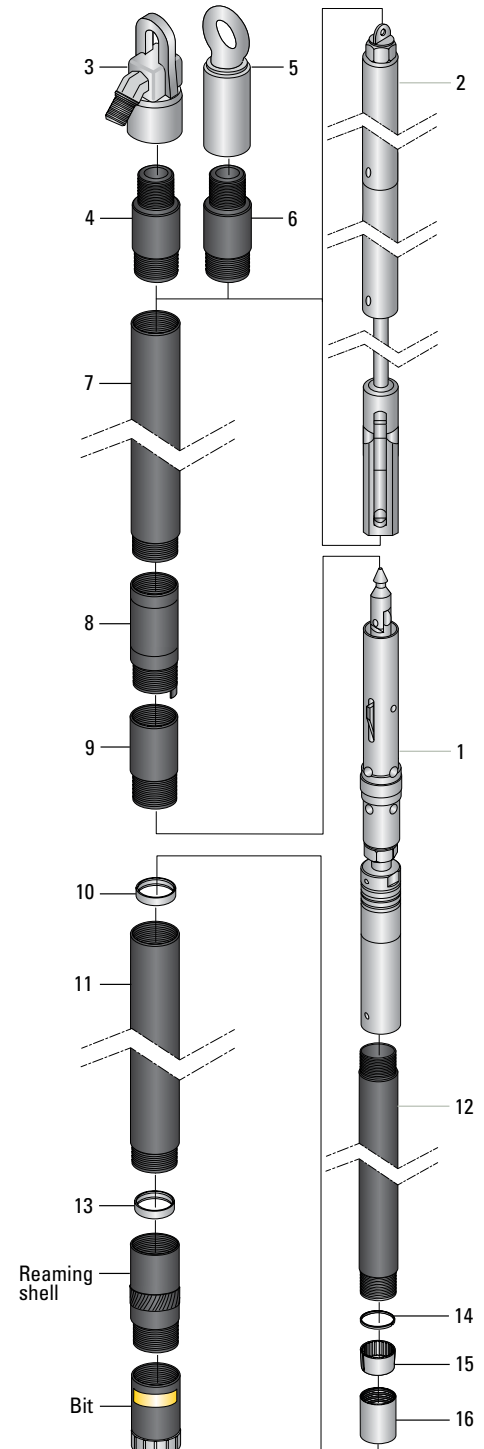


## Double tube thin wall Core barrel

Surface

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number
		<i>ATW (AGM)</i>
	AOTW 1.5 m / 5 ft Core barrel assembly complete	3760 0042 10
	AOTW 3.0 m / 10 ft Core barrel assembly complete	3760 0042 11
	AOTW 1.5 m / 5 ft inner tube assembly complete	3760 0042 48
	AOTW 3.0 m / 10 ft inner tube assembly complete	3760 0042 49
1	AOTW Head assembly complete	3760 0042 14
Overshot		
2	AOTW Overshot assembly complete	3760 0060 89
Water swivel		
3	5000 TC Water swivel, AW rod box*	3760 0036 27
4	Drill rod adapter AW rod pin to W/L rod pin	3760 0060 90
Hoisting plug		
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10
6	Hoisting plug adapter	3760 0060 92
Drill rods		
7	1.5 m drill rod	3760 0060 94
7	3.0 m drill rod	3760 0060 95
7	5 ft drill rod	3760 0060 96
7	10 ft drill rod	3760 0060 97
Consumables/Accessories		
8	Locking coupling	3760 0060 98
9	Adapter coupling	3760 0061 00
10	Landing ring	3760 0063 21
11	AOTW 1.5 m / 5 ft outer tube	3760 0061 01
11	AOTW 3.0 m / 10 ft outer tube	3760 0061 02
12	AOTW 1.5 m / 5 m inner tube	3760 0061 03
12	AOTW 3.0 m / 10 ft inner tube	3760 0042 09
13	Inner tube stabilizer	3742 0011 81
14	Stop ring	3760 0003 93
15	Core lifter	3760 0063 19
16	Core lifter case	3760 0003 92
Full grip wrenches		
	Inner tube wrench	3760 0061 07
	Outer tube wrench	3760 0061 08
<b>Spare parts kit 760 0061 05</b>		

\* See optional Swivels and Adapters in Accessories starting on page 132.



## Double tube thin wall Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
48.0	30.3	1.89	1.19

## Spare parts kit - 1000 meters/ 3300'

3760 0061 05

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0063 24	1	Spindle bearing	3760 0063 16
2	Spring pin 5/16 x 1 1/4 LG	5530 8641 00	2	Hanger bearing	3760 0064 69
4	Latch Spring	3760 0063 10	1	Lock nut 1/2 - 13UNC	0292 1308 00
4	Latch	3760 0063 11	2	Grease fitting	0544 1100 23
4	Spring pin 5/16 x 3/4 LG	0108 1691 37	1	Ball 1/2 DIA SS	0517 1420 00
4	Spring pin 1/4 x 3/4 LG	0108 1691 86	4	Stop ring	3760 0003 93
1	Landing shoulder	3760 0063 08	20	Core lifter	3760 0063 19
1	Retaining ring	3760 0063 09	4	Core lifter case	3760 0003 92
1	Lock nut	3760 0077 50	2	Landing ring	3760 0063 21
4	Shut-off valve	3760 0063 14	2	Inner tube stabilizer	3742 0011 81
2	Thrust bearing	3760 0064 68	1		

## Overshot spare parts kit - 1000 meters/3300'

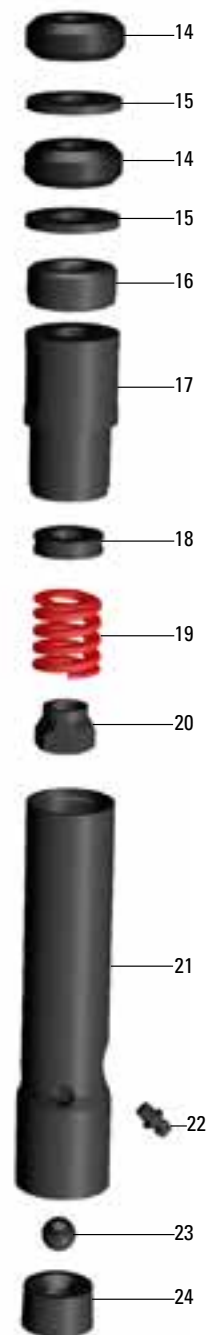
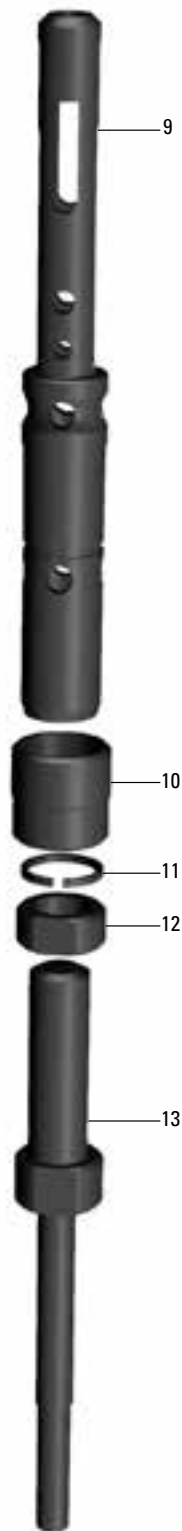
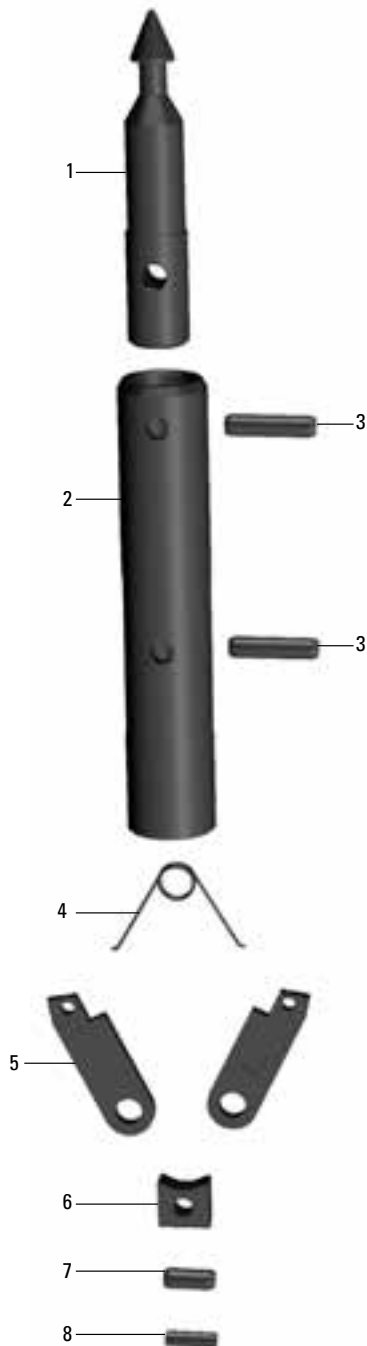
3760 0061 06

Qty	Description	Part number	Qty	Description	Part number
1	Cable clamp	3760 0064 65	4	Spring pin 3/16 x 1LG	5530 7750 00
1	Wireline thimble	3760 0064 66			
1	Bearing	3760 0064 67	4	Dog spring	3760 0064 00
1	Lock nut 1/2 20 UNF	0292 1408 00	2	Lifting dog	3760 0064 01
2	Grease fitting 1/4	0544 1100 23	1	Pivot pin 3/8 x 1 1/8	3760 0064 07
1	Lock nut 3/8- 16UNC	0292 1306 00			



Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0042 14	1	2.160	4.761
1	Spearhead	3760 0063 24	1	0.230	0.507
2	Latch retracting case	3760 0063 06	1	0.490	1.080
3	Spring pin 5/16 x 1 1/4	5530 8641 00	2	0.002	0.004
4	Latch spring	3760 0063 10	1	0.002	0.004
5	Latch	3760 0063 11	2	0.310	0.683
6	Latch support	3760 0063 12	1	0.020	0.044
7	Spring pin 5/16 x 3/4	0108 1691 37	1	0.110	0.242
8	Spring pin 1/4 x 3/4	0108 1691 86	1	0.015	0.033
9	Latch body	3760 0063 07	1	0.453	0.998
10	Landing shoulder	3760 0063 08	1	0.085	0.187
11	Retaining ring	3760 0063 09	1	0.003	0.006
12	Lock nut	3760 0077 50	1	0.045	0.099
13	Spindle	3760 0063 13	1	0.016	0.035
14	Shut-off valve	3760 0063 14	2	0.009	0.019
15	Valve adjusting washer	3760 0063 15	2	0.016	0.035
16	Ball thrust bearing	3760 0064 68	1	0.056	0.123
17	Spindle bearing	3760 0063 16	1	0.222	0.489
18	Hanger bearing	3760 0064 69	1	0.018	0.039
19	Compression spring	3760 0064 73	1	0.032	0.070
20	Lock nut nylon 1/2 - 13UNC	0292 1308 00	1	0.020	0.044
21	Inner tube cap assembly	3760 0003 89	1	0.335	0.738
22	Grease fitting 1/4	0544 1100 23	1	0.010	0.022
23	Ball 1/2 DIA SS	0517 1420 00	1	0.008	0.017
24	Check valve body	3760 0072 23	1	0.037	0.081

# HEAD ASSEMBLY



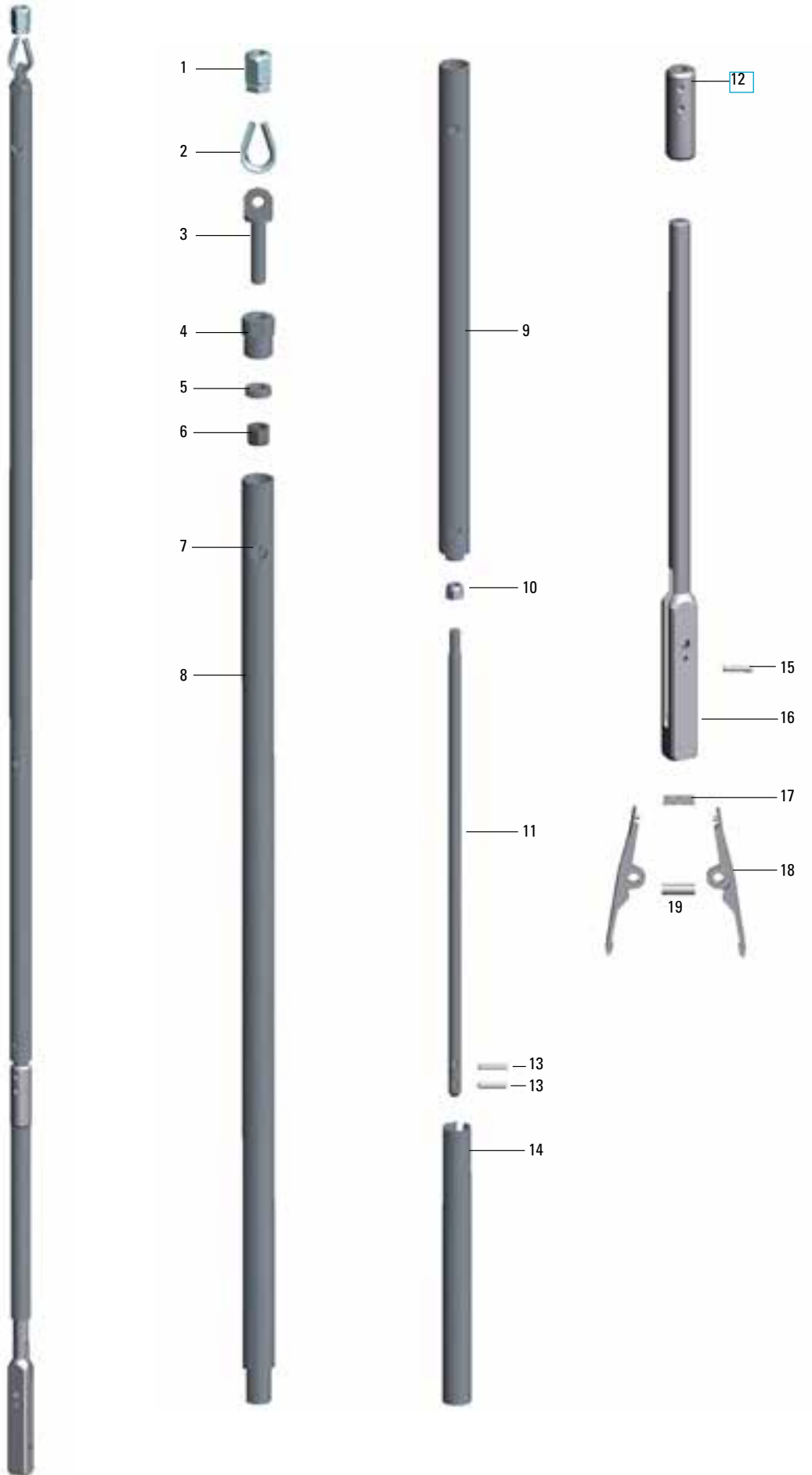
Item	Description	Part number	Qty	Kg	Lbs
	Overshot assembly complete	3760 0060 89	1	8.578	18.911
1-6	Cable swivel assembly complete	3760 0063 75	1	0.340	0.749
1	Cable clamp	3760 0064 65	1	0.090	0.198
2	Wireline thimble	3760 0064 66	1	0.010	0.022
3	Eye bolt	3760 0072 15	1	0.100	0.220
4	Cable swivel collar	3760 0072 16	1	0.110	0.242
5	Bearing	3760 0064 67	1	0.020	0.044
6	Lock nut nylon 1/2 20UNF	0292 1408 00	1	0.020	0.044
7	Grease fitting 1/4	0544 1100 23	1	0.010	0.022
8	Sinking bar body	3760 0064 02	1	4.082	8.999
9	Jar tube	3760 0064 03	1	1.217	2.683
10	Nylon Lock nut 3/8 - 16UNC	0292 1306 00	1	0.002	0.004
11	Jar staff	3760 0064 04	1	0.328	0.723
12	Jar head bottom	3760 0064 05	1	0.240	0.529
13	Roll pin 3/16 x 1 LG	5530 7750 00	2	0.003	0.006
14	Locking sleeve	3760 0063 99	1	0.393	0.866
15	Roll pin 3/16 x 1 LG	5530 7750 00	1	0.003	0.006
16	Overshot head	3760 0064 06	1	1.815	4.001
17	Lifting dog spring	3760 0064 00	1	0.002	0.004
18	Lifting dog	3760 0064 01	2	0.068	0.149
19	Pivot pin 3/8 x 1 1/8	3760 0064 07	1	0.015	0.033



# OVERSHOT ASSEMBLY



O Series

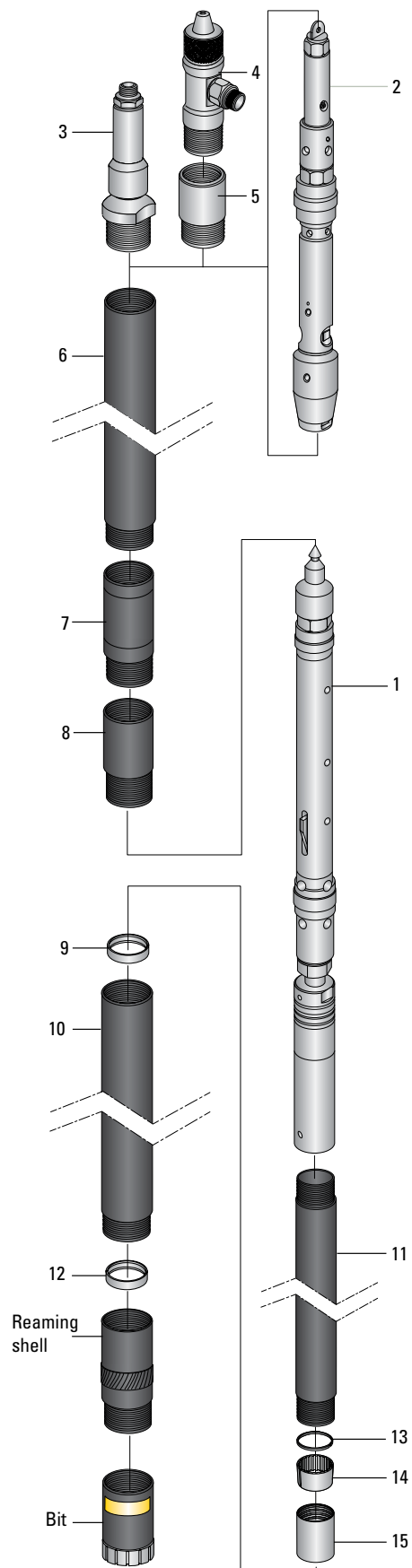


## Double tube thin wall Core barrel

Underground

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number ATW
	1.5 m / 5 ft Core barrel assembly complete	3760 0042 12
	3.0 m / 10 ft Core barrel assembly complete	3760 0042 13
	1.5 m / 5 ft inner tube assembly complete	3760 0042 50
	3.0 m / 10 ft inner tube assembly complete	3760 0042 51
1	Head assembly complete (p.24)	3760 0003 90
Overshot		
2	Overshot assembly complete (p.26)	3760 0061 92
Water swivel*		
3	18/0 Water swivel complete	3760 0044 61
Stuffing box		
4	Stuffing box	8393 0819 65
5	Drill rod adapter/Dimension	8393 0819 66
Drill rods		
6	1.5 m drill rod	3760 0060 94
6	3.0 m drill rod	3760 0060 95
6	5 ft drill rod	3760 0060 96
6	10 ft drill rod	3760 0060 97
Consumables/Accessories		
7	Locking coupling - Full hole	3760 0061 94
8	Adapter coupling	3760 0061 96
9	Landing ring	3760 0063 21
10	1.5 m / 5 ft outer tube	3760 0061 01
10	3.0 m / 10 ft outer tube	3760 0061 02
11	1.5 m / 5 m inner tube	3760 0061 03
11	3.0 m / 10 ft inner tube	3760 0042 09
12	Inner tube stabilizer	3742 0011 81
13	Stop ring	3760 0003 93
14	Core lifter	3760 0063 19
15	Core lifter case	3760 0003 92
Full grip wrenches		
	Inner tube wrench	3760 0061 07
	Outer tube wrench	3760 0061 08
<b>Spare parts kit 760 0061 97</b>		

\* See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube thin wall Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
48.0	30.3	1.89	1.19

## Spare parts kit - 1000 meters/3300'

3760 0061 97

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0063 63	2	Ball check spring	3760 0077 61
4	Packing cup	3760 0063 65	1	Lock nut	3760 0077 50
4	O-Ring	0663 9098 01	4	Shut-off valve	3760 0063 14
1	Washer	3760 0077 89	2	Thrust bearing	3760 0064 68
1	Spring guide	3760 0063 68	1	Spindle bearing	3760 0063 16
2	Compression spring	3760 0077 56	2	Hanger bearing	3760 0064 69
2	Spring pin 5/16 x 1 1/4 LG	5530 8641 00	1	Nylon Lock nut 1/2 - 13UNC	0292 1308 00
2	Square pin	3760 0063 69	1	Steel ball 1/2 DIA SS	0517 1420 00
4	Latch spring	3760 0063 10	2	Grease fitting 1/4	0544 1100 23
4	Latch	3760 0063 62	4	Stop ring	3760 0003 93
4	Spring pin	0108 1691 37	20	Core lifter	3760 0063 19
4	Spring pin 1/4 x 3/4 LG	0108 1691 86	4	Core lifter case	3760 0003 92
1	Landing shoulder	3760 0063 08	2	Landing ring	3760 0063 21
1	Steel ball 3/4 DIA SS	0517 1428 00	2	Inner tube stabilizer	3742 0011 81
1	AOTW Retaining ring	3760 0063 09			

## Overshot spare parts kit - 1000 meters/3300'

3760 0061 98

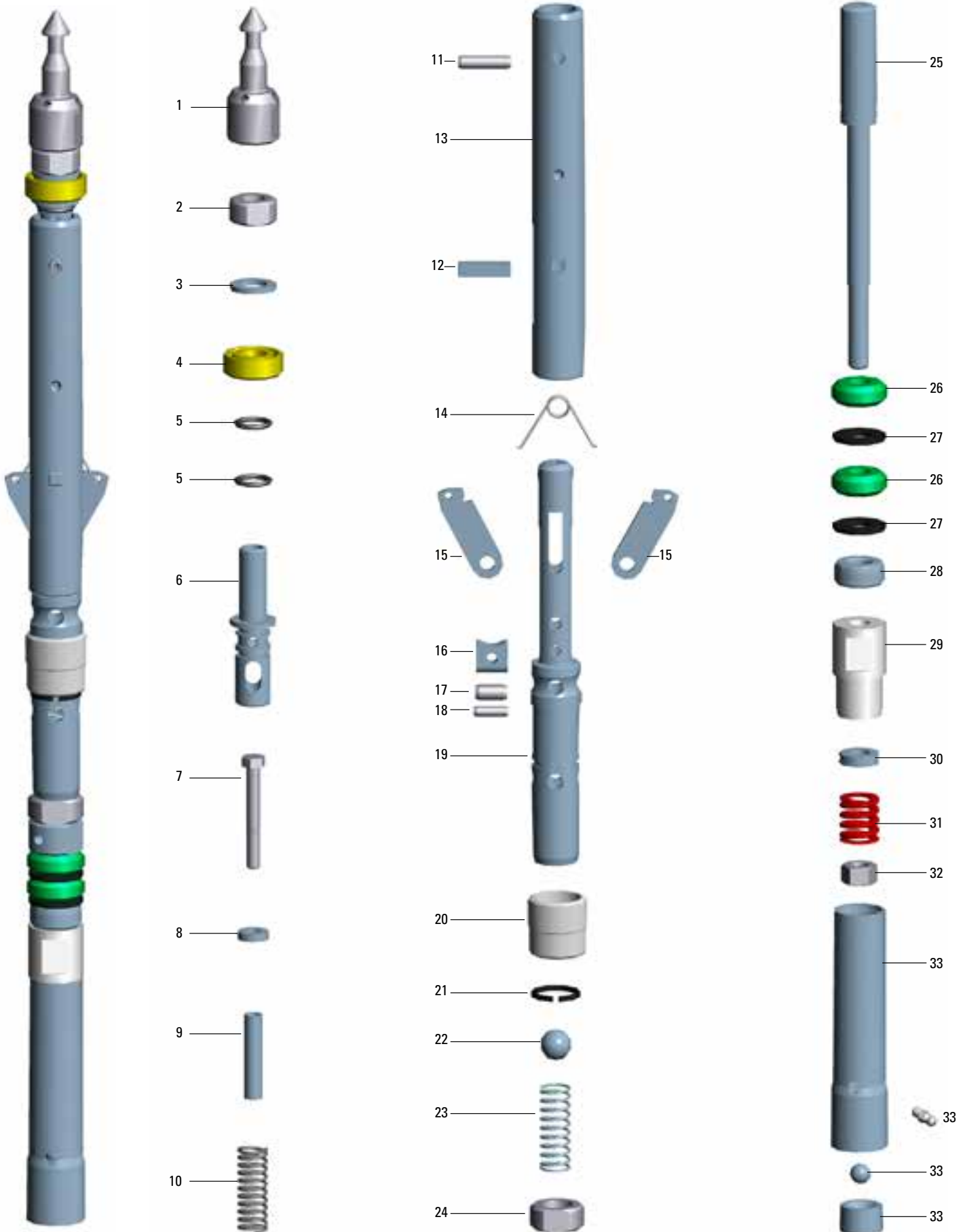
Qty	Description	Part number	Qty	Description	Part number
4	O-ring	0663 2103 96	1	Lock nut clamping	3760 0063 64
1	Spring pin 3/8 x 1 1/4 LG	0108 1691 39	2	Spring 5/32 x 1 1/4 LG	0108 1691 82
2	AOU Lifting dog	3760 0064 37	2	Spring pin 1/4 x 1 1/4 LG	0108 1691 34
1	Cable clamp AOTWU BOTWU	3760 0064 65	1	Lock nut nylon 1/2 20 UNF	0292 1408 00
4	AO Lifting dog spring	3760 0064 00	2	1/4 Grease fitting	0544 1100 23
2	Spring AOU AOTWU	3760 0064 74	4	AOTWU Piston packing cup	3760 0063 65
4	O-ring	0663 9096 00	2	AOU Shear pin	3760 0064 35
1	Wire rope thimble AOTWU BOTWU	3760 0064 66	4	O-ring 25,07 x 2,62	0663 9110 00
2	Spring pin 3/16 x 3/4 LG	0108 1691 84	1	Bearing	3760 0064 67



Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0003 90	1	3.080	6.790
1	Spearhead	3760 0063 63	1	0.174	0.383
2	Clamping lock nut	3760 0063 64	1	0.041	0.090
3	Back-up washer	3760 0063 66	4	0.009	0.019
4	Piston packing cup	3760 0063 65	1	0.009	0.019
5	O-ring	0663 9098 01	2	0.002	0.004
6	Spearhead body	3760 0063 67	1	0.137	0.302
7	Cap screw 5/16 x 2 1/2	0144 3256 00	1	0.004	0.008
8	Washer 1/2	3760 0077 89	1	0.007	0.015
9	Spring guide	3760 0063 68	1	0.016	0.035
10	Compression spring	3760 0077 56	1	0.016	0.035
11	Spring pin 5/16 x 2 1/2	5530 8641 00	1	0.002	0.004
12	Square pin	3760 0063 69	1	0.015	0.033
13	Latch retracting case	3760 0063 61	1	0.680	1.499
14	Latch spring	3760 0063 10	1	0.002	0.004
15	Latch	3760 0063 62	2	0.035	0.077
16	Latch support	3760 0063 12	1	0.020	0.044
17	Spring pin 5/16 x 2 1/2	0108 1691 37	1	0.011	0.024
18	Spring pin 1/4 x 3/4 LG	0108 1691 86	1	0.015	0.033
19	Latch body	3760 0063 07	1	0.453	0.998
20	Landing shoulder	3760 0063 08	1	0.085	0.187
21	Retaining ring	3760 0063 09	1	0.003	0.006
22	Ball 3/4 DIA SS	0517 1428 00	1	0.028	0.061
23	Ball check spring	3760 0077 61	1	0.007	0.015
24	Lock nut	3760 0077 50	1	0.045	0.099
25	Spindle	3760 0063 13	1	0.016	0.035
26	Shut-off valve	3760 0063 14	2	0.009	0.019
27	Valve adjusting washer	3760 0063 15	2	0.016	0.035
28	Thrust bearing	3760 0064 68	1	0.056	0.123
29	Spindle bearing	3760 0063 16	1	0.222	0.489
30	Hanger bearing	3760 0064 69	1	0.018	0.039
31	Compression spring	3760 0064 73	1	0.032	0.070
32	Lock nut 1/2 - 13 UNC nylon	0292 1308 00	1	0.020	0.044
33	Inner tube cap assembly	3760 0003 89	1	0.335	0.738

# HEAD ASSEMBLY

**A**  
OTW-U



O Series

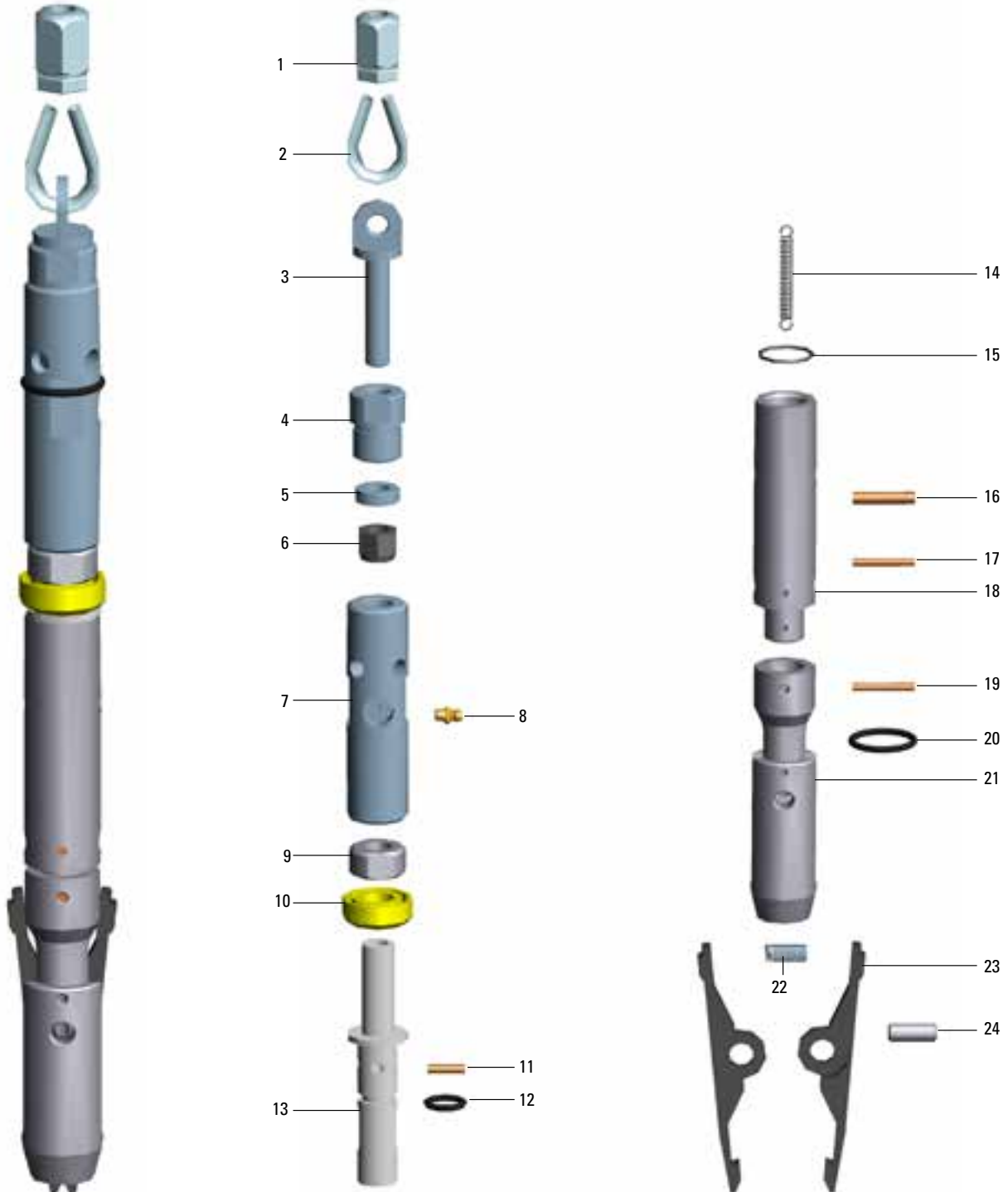
Item	Description	Part number	Qty	Kg	Lbs
	Overshot assembly complete	3760 0061 92	1	2.080	4.585
1-6	Cable swivel assembly complete	3760 0063 75	1	0.340	0.749
1	Cable clamp	3760 0064 65	1	0.090	0.198
2	Wireline thimble	3760 0064 66	1	0.010	0.022
3	Eye bolt	3760 0072 15	1	0.100	0.220
4	Cable swivel collar	3760 0072 16	1	0.110	0.242
5	Bearing	3760 0064 67	1	0.020	0.044
6	Lock nut nylon 1/2 20UNF	0292 1408 00	1	0.020	0.044
7	Swivel valve cap	3760 0064 27	1	0.428	0.943
8	Grease fitting 1/4	0544 1100 23	1	0.010	0.022
9	Lock nut clamping	3760 0063 64	1	0.047	0.103
10	Piston packing	3760 0063 65	1	0.009	0.019
11	Spring pin 3/16 x 3/4 LG	0108 1691 84	1	0.002	0.004
12	O-ring	0663 9096 00	1	0.002	0.004
13	Bypass valve	3760 0064 28	1	0.179	0.394
14	Spring	3760 0064 74	1	0.003	0.006
15	O-ring	0663 9110 00	1	0.002	0.004
16	Spring pin 1/4 x 1 1/4	0108 1691 34	1	0.001	0.002
17	Spring pin 5/32 x 1 1/4	0108 1691 82	1	0.005	0.011
18	Valve body	3760 0064 34	1	0.453	0.998
19	Shear pin	3760 0064 35	1	0.003	0.006
20	O-ring	0663 2103 96	1	0.001	0.002
21	Overshot head	3760 0064 36	1	0.548	1.208
22	Lifting dog spring	3760 0064 00	1	0.002	0.004
23	Lifting dog	3760 0064 37	2	0.068	0.149
24	Spring pin 3/8 x 1 1/4 LG	0108 1691 39	1	0.010	0.022



# OVERSHOT ASSEMBLY



O Series

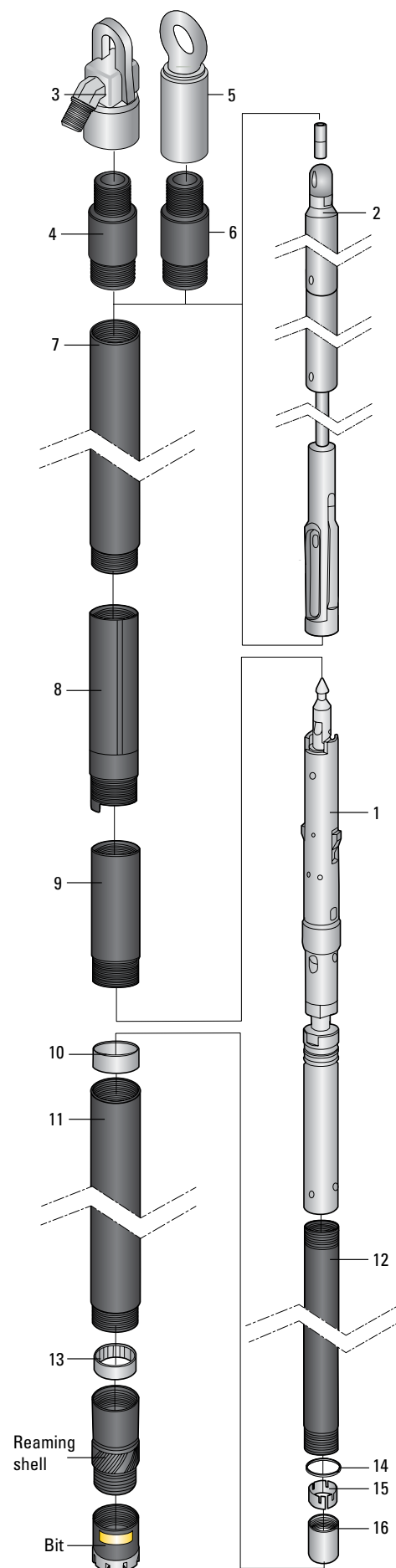


## Double tube Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		BO-EX	BT-EX	BMO-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0155 70	3760 0155 68	3760 0155 69
	3.0 m / 10 ft Core barrel assembly complete	3760 0155 73	3760 0155 71	3760 0155 72
	1.5 m / 5 ft inner tube assembly complete		3760 0155 75	
	3.0 m / 10 ft inner tube assembly complete		3760 0155 78	
1	Head assembly complete (p.30)		3760 0134 50	
Overshot				
2	Overshot assembly complete (p.40)		3760 0162 76	
Water swivel*				
3	5000 TC Water swivel, AW rod box (p.132)		3760 0036 27	
4	Drill rod adapter AW rod pin to W/L rod pin	3760 0060 08	3760 0060 09	3760 0157 43
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread		3760 0060 10	
6	Hoisting plug adapter	3760 0158 08	3760 0158 04	3760 0152 51
Drill rods				
7	1.5 m drill rod	3760 0012 50	3760 0012 24	3760 0155 53
7	3.0 m drill rod	3760 0012 51	3760 0012 25	3760 0134 25
7	5 ft drill rod	3760 0012 48	3760 0012 21	3760 0152 13
7	10 ft drill rod	3760 0012 49	3760 0012 22	3760 0134 27
Consumables/Accessories				
8	Locking coupling	3760 0060 12	3760 0060 13	3760 0156 46
9	Adapter coupling		3760 0060 14	
10	Landing ring		3760 0062 28	
11	1.5 m / 5 ft outer tube		3760 0048 31	
11	3.0 m / 10 ft outer tube		3760 0048 32	
12	1.5 m / 5 m inner tube		3760 0048 30	
12	3.0 m / 10 ft inner tube		3760 0048 29	
13	Inner tube stabilizer		3760 0062 29	
14	Stop ring		3760 0062 25	
15	Core lifter		3760 0062 26	
16	Core lifter case		3760 0062 27	
Full grip wrenches				
Inner tube wrenches			3760 0060 17	
Outer tube wrenches			3760 0060 18	
Spare parts kit 760 0156 07				

\*See optional Swivels and Adapters in Accessories section starting on page 132.



# COMPACT CORE BARREL SYSTEM



## Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
60.0	.36.4	2.36	1.43

## Spare parts kit - 1000 meters/3300'

3760 0156 07

Qty	Description	Part number	Qty	Description	Part number
2	BO Landing ring	3760 0062 28	2	Landing indicator bushing	3760 0121 00
4	BO Core lifter case	3760 0062 27	1	BO Landing shoulder 3 PLB	3760 0057 96
2	BO Inner tube stabilizer	3760 0062 29	1	22 mm Stainless steel ball	3760 0120 99
20	BO Core lifter - Slotted	3760 0062 26	1	Hex nut 7/8 9 UNC	0268 3112 00
4	BO Stop ring	3760 0062 25	4	BO Shut off valve	3760 0062 21
1	BO/NO/HO EX Spearhead	3760 0153 93	4	Thrust Bearing	3760 0064 70
2	Spiral pin 7/16 x 1	3760 0043 48	1	BO Spindle bearing	3760 0062 23
1	EX Detent Compression spring	3760 0153 94	1	BO Compression spring	3760 0064 75
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	Lock nut 5/8 11 UNC Stover	3760 0130 02
2	BOU EX Compression spring	3760 0134 60	2	Spring pin 3/8 x 1 5/8	0108 1691 90
1	BO/BOU EX Latch piston	3760 0134 61	1	B/N/H EX Bolt hexagon 3/8 - 16	3760 0134 77
2	BO/BOU EX Latch	3760 0134 57	4	Spring pin - 1/4 x 3/4 LG	0108 1691 86
2	Spring pin 1/4 x 1 5/8	3760 0151 19	1	Grease fitting	0544 1100 23

## EX Safety overshot spare parts kit - 1000 meters/3300'

3760 0162 70

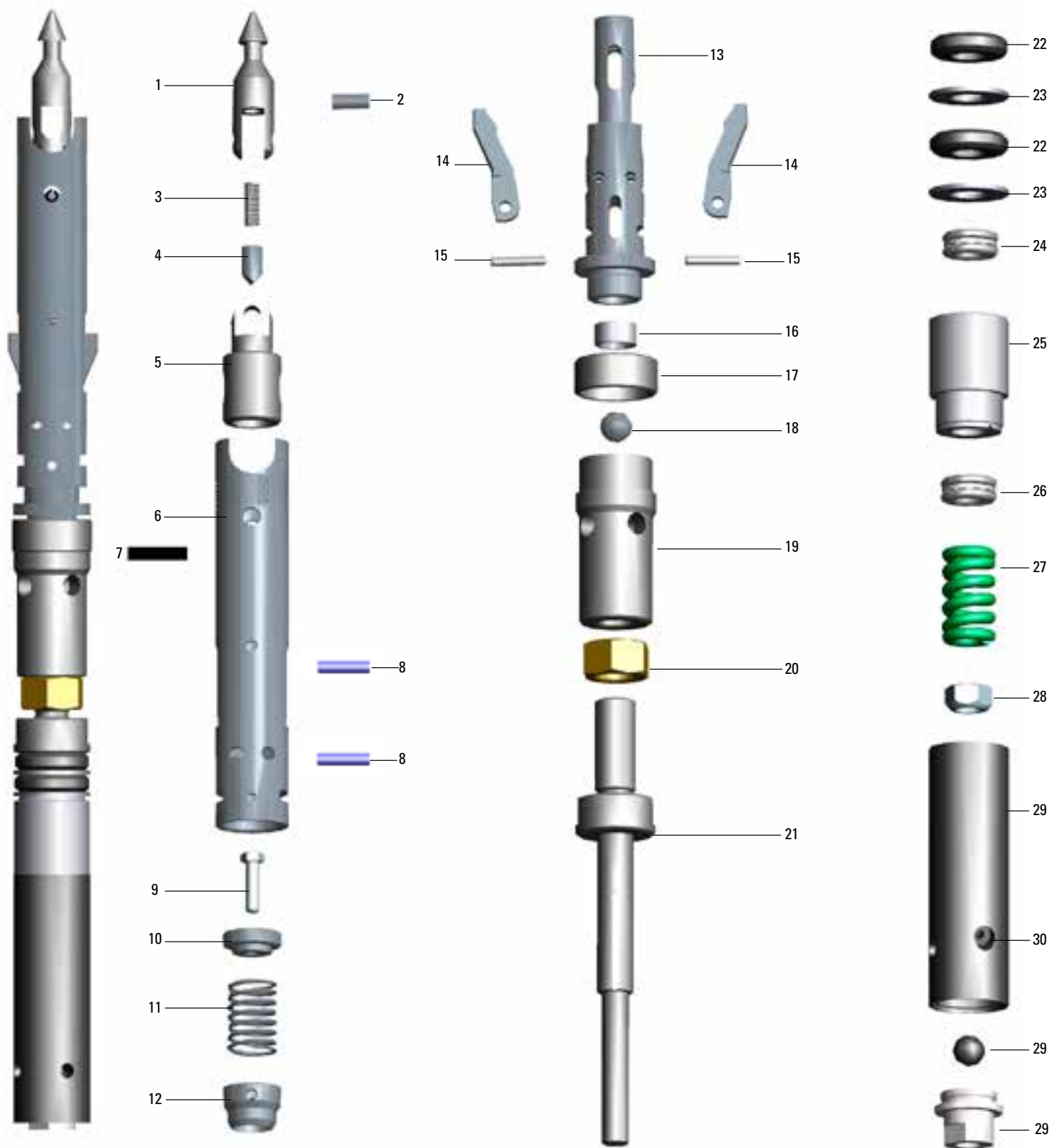
Qty	Description	Part number	Qty	Description	Part number
4	BO NO HO Lifting dog spring	3760 0063 73	2	1/4 Grease fitting	0544 1100 23
2	BO Pivot pin 1/2 x 1 1/2	3760 0063 80	2	BO EX Safety overshot lifting dogs	3760 0161 27
2	3/16 Nicopress sleeve oval	3760 0082 44	2	BO EX Safety overshot release bars	376 00161 29
1	BO EX Safety overshot protection sleeve	3760 0161 28	1	Bearing	3760 0064 67
2	Nut Hex 1/2 - 20	3760 0123 31	1	Spring pin 1/4 x 1.375	3760 0161 30

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0134 50	1	6.000	13.227
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.005	0.011
4	Detent plunger	3760 0153 95	1	0.010	0.022
5	Spearhead base	3760 0138 79	1	0.440	0.970
6	Latch retracting case	3760 0134 56	1	0.816	1.798
7	Spring pin 3/8 x 1 5/8	0108 1691 90	1	0.023	0.050
8	Spring pin 1/4 x 1 5/8	3760 0151 19	2	0.010	0.022
9	HHCS 3/8 - 16 UNC x 1 1/4	3760 0134 77	1	0.050	0.110
10	Guide spring	3760 0134 62	1	0.045	0.099
11	Compression spring	3760 0134 60	1	0.023	0.050
12	Latch piston	3760 0134 61	1	0.090	0.198
13	Upper latch body	3760 0134 58	1	0.522	1.150
14	Latch	3760 0134 57	2	0.220	0.485
15	Spring pin 1/4 x 3/4	0108 1691 86	2	0.010	0.022
16	Landing indicator bushing	3760 0121 00	1	0.023	0.050
17	Landing shoulder	3760 0057 96	1	0.057	0.125
18	SS Ball 22 mm	3760 0120 99	1	0.045	0.099
19	Lower latch body	3760 0134 59	1	0.500	1.102
20	Lock nut 7/8 - 9 UNC	0268 3112 00	1	0.090	0.198
21	Spindle	3760 0062 20	1	0.570	1.256
22	Shut-off valve - Black	3760 0062 21	2	0.010	0.022
23	Valve adjusting washer	3760 0062 22	2	0.029	0.063
24	Thrust bearing	3760 0064 70	1	0.070	0.154
25	Spindle bearing housing	3760 0062 23	1	0.428	0.943
26	Hanger bearing	3760 0064 70	1	0.070	0.154
27	Compression spring	3760 0064 75	1	0.076	0.167
28	Lock nut 5/8 - 11 UNC stover	3760 0130 02	1	0.050	0.110
29	Inner tube cap assembly (includes Grease fitting)	3760 0062 24	1	0.907	1.999
30	Grease fitting	0544 1100 23	1	0.001	0.002



# COMPACT HEAD ASSEMBLY

**B**  
**EX**



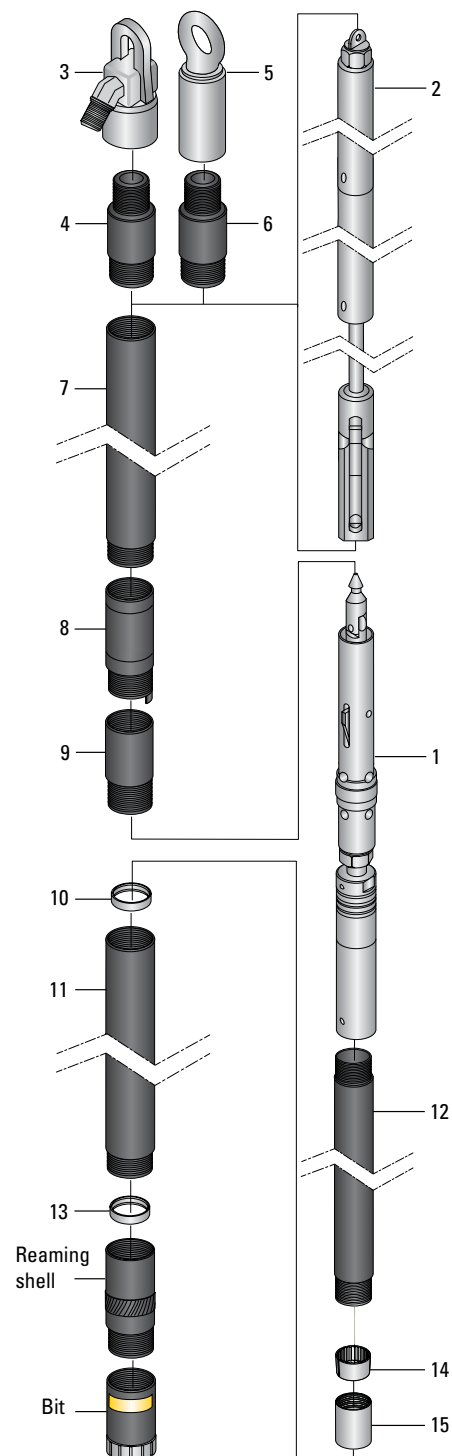
Excore

## Double tube thin wall Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>BTW</i>	<i>BTT</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0061 09	3760 0061 10
	3.0 m / 10 ft Core barrel assembly complete	3760 0061 11	3760 0061 12
	1.5 m / 5 ft inner tube assembly complete	3760 0061 13	
	3.0 m / 10 ft inner tube assembly complete	3760 0061 14	
1	Head assembly complete (p.34)	3760 0061 15	
Overshot			
2	Overshot assembly complete (p.40)	3760 0162 76	
Water swivel*			
3	5000 TC Water swivel, AW rod box	3760 0036 27	
4	Drill rod adapter AW rod pin to W/L rod pin	3760 0061 16	3760 0061 17
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0061 18	3760 0061 19
Drill rods			
7	1.5 m drill rod	3760 0056 32	3760 0004 03
7	3.0 m drill rod	3760 0056 33	3760 0004 02
7	5 ft drill rod	3760 0053 59	3760 0004 00
7	10 ft drill rod	3760 0053 60	3760 0003 99
Consumables/Accessories			
8	Locking coupling	3760 0061 24	3760 0030 17
9	Adapter coupling	3760 0061 25	
10	Landing ring	3760 0063 03	
11	1.5 m / 5 ft outer tube	3760 0061 26	
11	3.0 m / 10 ft outer tube	3760 0061 27	
12	1.5 m / 5 m inner tube	3760 0061 28	
12	3.0 m / 10 ft inner tube	3760 0061 29	
13	Inner tube stabilizer	3760 0049 10	
14	Core lifer	3760 0063 01	
15	Core lifter case	3760 0063 02	
Full grip wrenches			
Inner tube wrench		3760 0061 31	
Outer tube wrench		3760 0060 18	
Spare parts kit 760006130			

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube thin wall Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
60.0	42.0	2.36	1.65

## Spare parts kit - 1000 meters/3300'

3760 0061 30

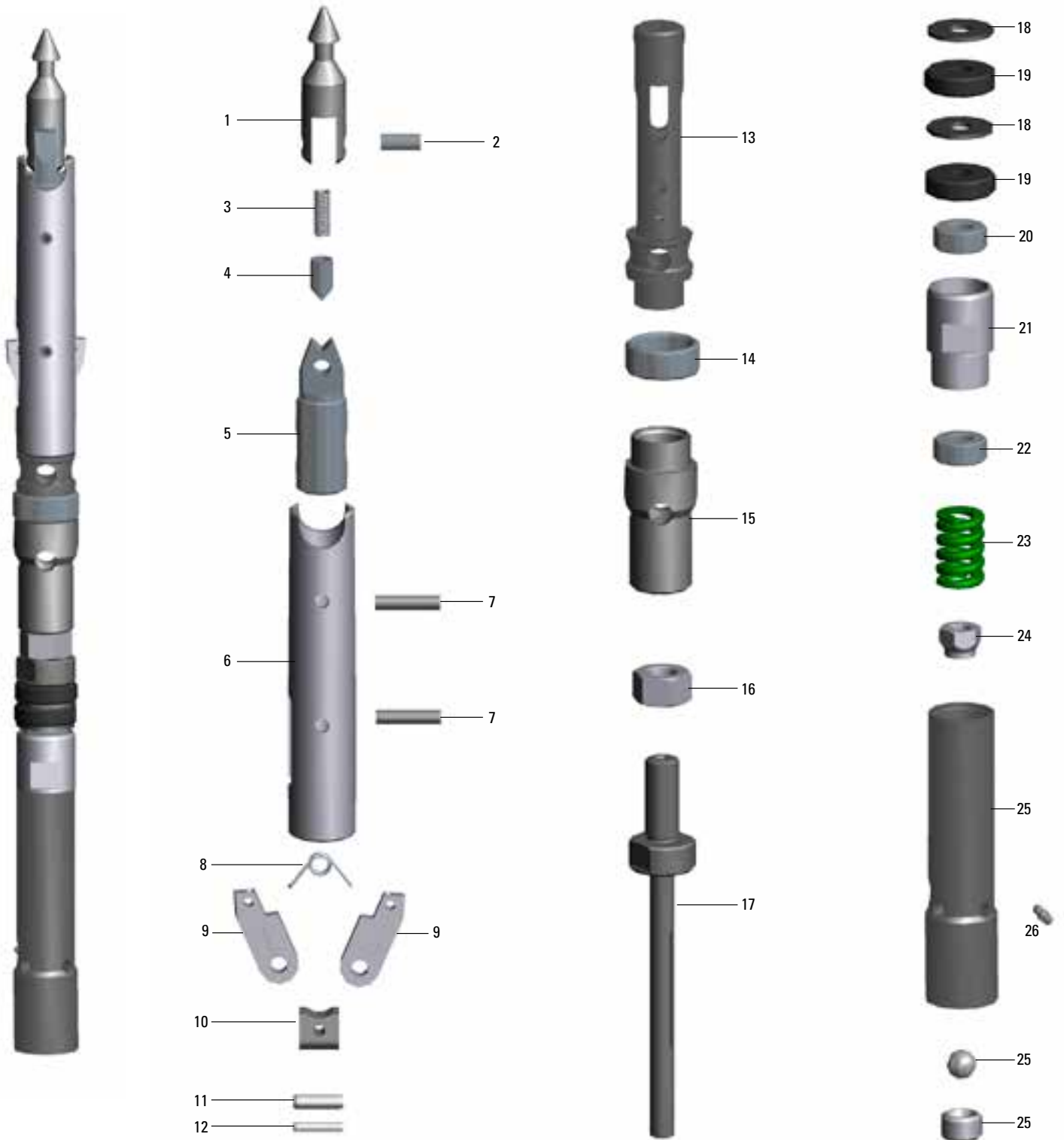
Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	4	Shut-off valve	3760 0062 98
1	Compression spring	3760 0153 94	2	Thrust bearing	3760 0064 70
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 23
2	Spiral pin 7/6 x 1	3760 0043 48	1	Nut stover 1 8 UNC SS HO	3760 0130 04
2	Spring pin 3/8 x 1 5/8 LG	0108 1691 90	2	Grease fitting 1/4	0544 1100 23
4	Latch spring	3760 0062 17	1	Ball 3/4 DIA SS	0517 1428 00
4	Latch	3760 0062 18	20	Core lifter	3760 0063 01
4	Spring pin 3/8 x 1 1/4 LG	0108 1691 39	4	Core lifter case	3760 0063 02
4	Spring pin 1/4 x 1 1/4	0108 1691 34	2	Landing ring	3760 0063 03
1	Landing shoulder	3760 0062 97	2	Inner tube stabilizer	3760 0049 10
1	Hex nut 7/8 x 9UNC	0268 3112 00			

## EX II Safety overshot spare parts kit - 1000 meters/3300' 3760 0162 70

Qty	Description	Part number	Qty	Description	Part number
4	BO NO HO Lifting dog spring	3760 0064 17	2	1/4 Grease fitting	0544 1100 23
2	BO Pivot pin 1/2 x 1 1/2	3760 0063 80	2	BO EX Safety overshot lifting dogs	3760 0161 27
2	3/16 Nicopress sleeve oval	3760 0082 44	2	BO EX Safety overshot release bars	376 00161 29
1	BO EX Safety overshot protection sleeve	3760 0161 28	1	Bearing	3760 0064 67
2	Nut Hex 1/2 - 20	3760 0123 31	1	Spring pin 1/4 x 1.375	3760 0161 30

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0061 15	1	5.28	11.640
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.005	0.011
4	Detent plunger	3760 0153 95	1	0.010	0.022
5	Spearhead base	3760 0138 79	1	0.440	0.970
6	Latch retracting case	3760 0066 74	1	0.872	1.922
7	Spring pin 3/8 x 1 5/8	0108 1691 90	2	0.010	0.022
8	Latch spring	3760 0062 17	1	0.005	0.011
9	Latch	3760 0062 18	2	0.075	0.165
10	Latch support	3760 0062 19	1	0.064	0.141
11	Spring pin 3/8 x 1 1/4	0108 1691 39	2	0.010	0.022
12	Spring pin 1/4 x 1 1/4	0108 1691 34	2	0.010	0.022
13	Upper latch body	3760 0057 94	1	0.590	1.300
14	Landing shoulder	3760 0062 97	1	0.057	0.125
15	Lower latch body	3760 0122 33	1	0.531	1.170
16	Lock nut 7/8 - 9UNC	0268 3112 00	1	0.090	0.198
17	Spindle	3760 0062 20	1	0.570	1.256
18	Shut-off valve	3760 0062 98	2	0.010	0.022
19	Valve adjusting washer	3760 0062 22	1	0.029	0.063
20	Thrust bearing	3760 0064 70	1	0.610	1.344
21	Spindle bearing housing	3760 0062 23	1	0.428	0.943
22	Hanger bearing	3760 0064 70	1	0.070	0.154
23	Compression spring	3760 0064 76	1	0.076	0.167
24	Lock nut 5/8 11UNC stover	3760 0130 02	1	0.040	0.088
25	Inner tube cap assembly (includes Grease fitting)	3760 0062 99	1	0.907	1.999
26	Grease fitting	0544 1100 23	1	0.001	0.002



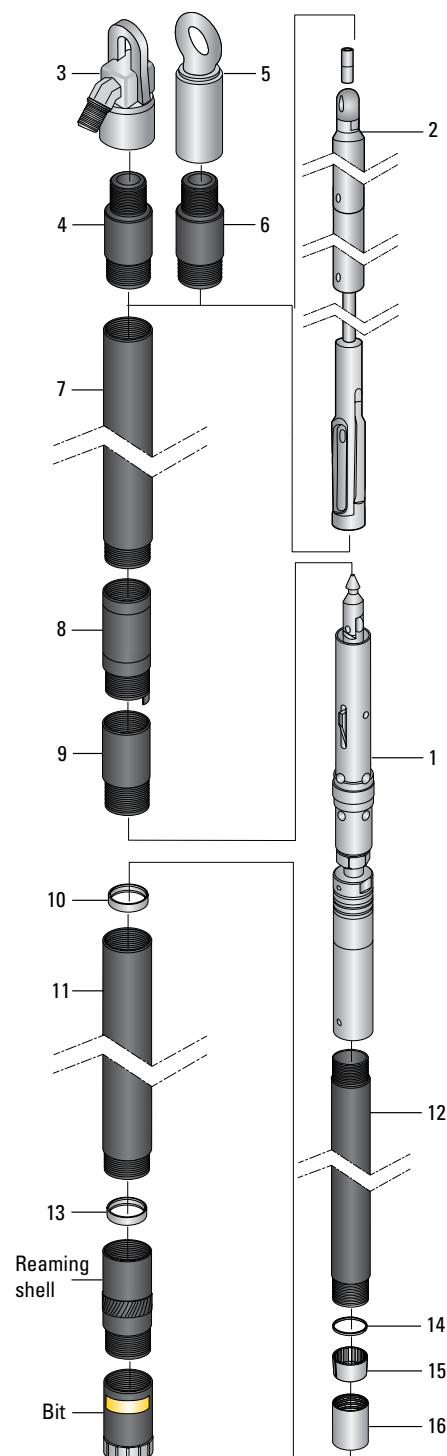


## Flexo Double tube Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>O</i>	<i>T</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0060 01	3760 0060 02
	3.0 m / 10 ft Core barrel assembly complete	3760 0060 03	3760 0060 04
	1.5 m / 5 ft inner tube assembly complete	3760 0060 05	
	3.0 m / 10 ft inner tube assembly complete	3760 0060 06	
1	Head assembly complete (p.38)	3760 0060 07	
Overshot			
2	Overshot assembly complete (p.40)	3760 0162 76	
Water swivel*			
3	5000 TC Water swivel, AW rod pin	3760 0036 27	
4	Drill rod adapter AW rod box to W/L rod pin	3760 0060 08	3760 0060 09
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0158 08	3760 0158 04
Drill rods			
7	0.6 m drill rod	3760 0034 36	3760 0012 23
7	1.5 m drill rod	3760 0012 50	3760 0012 24
7	3.0 m drill rod	3760 0012 51	3760 0012 25
7	2 ft drill rod	3760 0034 37	3760 0012 20
7	5 ft drill rod	3760 0012 48	3760 0012 21
7	10 ft drill rod	3760 0012 49	3760 0012 22
Consumables/Accessories			
8	Locking coupling - Tanged	3760 0060 12	3760 0060 13
9	Adapter coupling	3760 0060 14	
10	Landing ring	3760 0062 28	
11	1.5 m / 5 ft outer tube	3760 0048 31	
11	3.0 m / 10 ft outer tube	3760 0048 32	
12	1.5 m / 5 m inner tube	3760 0048 30	
12	3.0 m / 10 ft inner tube	3760 0048 29	
13	Inner tube stabilizer	3760 0062 29	
14	Stop ring	3760 0062 25	
15	Core lifer	3760 0062 26	
16	Core lifter case	3760 0062 27	
Full grip wrenches			
Inner tube wrench		3760 0060 17	
Outer tube wrench		3760 0060 18	
Spare parts kit 760 0060 15			

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Flexo Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
60.0	.36.4	2.36	1.43

## Spare parts kit - 1000 meters/3300'

3760 0060 15

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	4	Thrust bearing	3760 0064 70
1	Compression spring	3760 0153 94	2	Hanger bearing	3760 0064 70
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 23
2	Spiral pin 7/16 x 1	3760 0043 48	1	Lock nut 5/8 11UNC stover	3760 0130 02
2	Spring pin	0108 1691 90	1	Ball 3/4 DIA SS	0517 1428 00
4	Latch spring	3760 0062 17	2	Grease fitting	0544 1100 23
4	Latch	3760 0062 18	4	Stop ring	3760 0062 25
4	Spring pin 1/4 x 1 1/4 LG	0108 1691 34	20	Core lifter	3760 0062 26
1	Landing shoulder	3760 0057 96	4	Core lifter case	3760 0062 27
1	Hex nut	0268 3112 00	2	Landing ring	3760 0062 28
4	Shut-off valve	3760 0062 21	2	Inner tube stabilizer	3760 0062 29

## EX II Safety overshot spare parts kit 1000 m /3300'

3760 0162 70

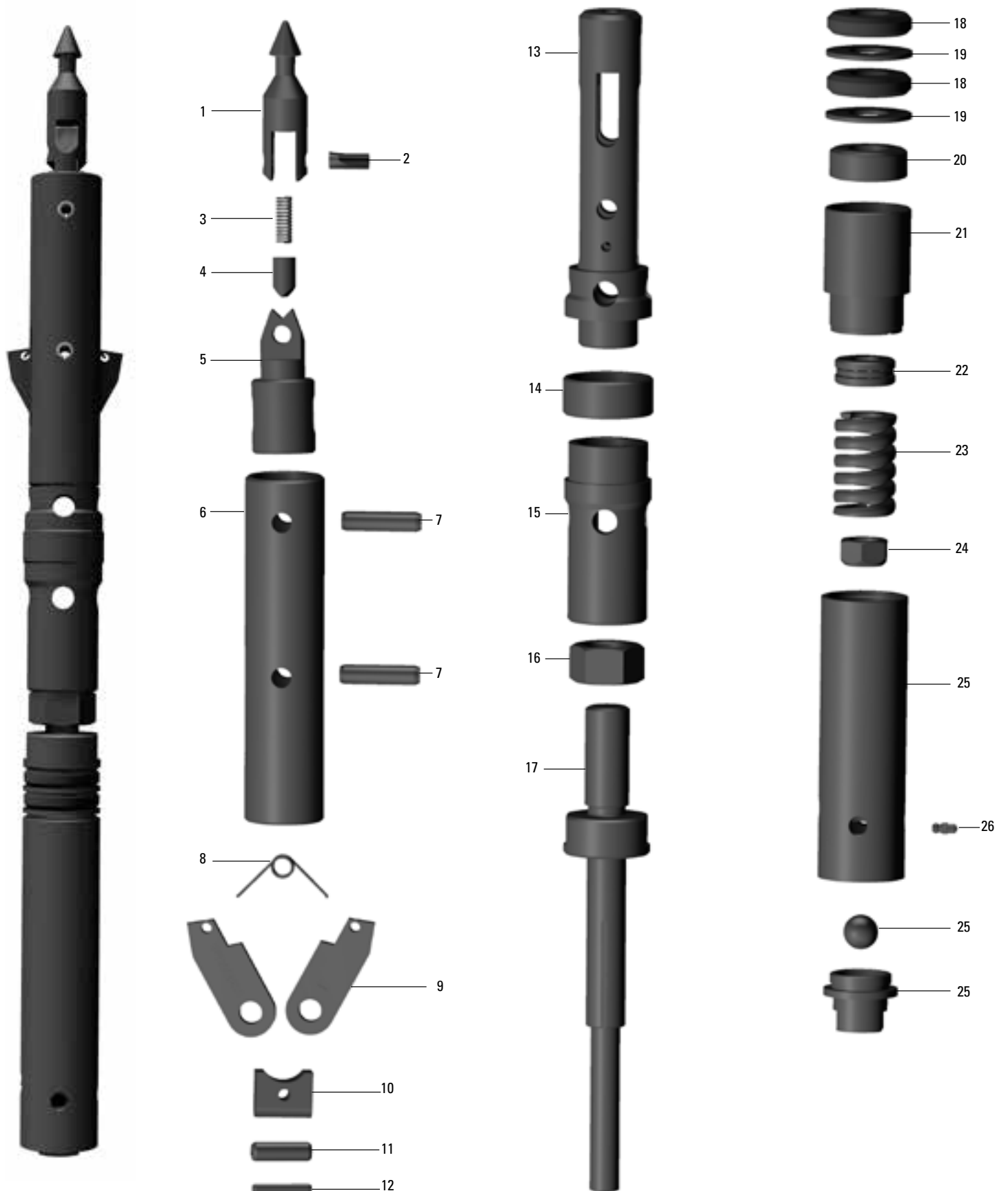
Qty	Description	Part number	Qty	Description	Part number
4	B0 N0 H0 Lifting dog spring	3760 0063 73	2	1/2 Grease fitting	0544 1100 23
2	B0 Pivot pin 1/2 x 1 1/2	3760 0063 80	2	B0 EX Safety overshot lifting dogs	3760 0161 27
2	3/16 Nicopress sleeve oval	3760 0082 44	2	B0 EX Safety overshot release bars	376 00161 29
1	B0 EX Safety overshot protection sleeve	3760 0161 28	1	Bearing	3760 0064 67
2	Nut Hex 1/2 - 20	3760 0123 31	1	Spring pin 1/4 x 1.375	3760 0161 30

Item	Description	Part number	Qty
	Head assembly complete	3760 0060 07	1
1	Spearhead	3760 0153 93	1
2	Spring pin	3760 0043 48	1
3	Compression spring	0384 5000 18	1
4	Detent	3760 0044 30	1
5	Spear head base	3760 0044 32	1
6	Latch retracting case	3760 0066 74	2
7	Spring pin 3/8 x 1 5/8	0108 1691 90	1
8	Latch spring	3760 0062 17	2
9	Latch	3760 0062 18	1
10	Latch support	3760 0062 19	2
11	Spring pin 3/8 x 1 1/4	0108 1691 39	2
12	Spring pin 1/4 x 1 1/4	0108 1691 34	1
13	Upper latch body	3760 0057 94	1
14	Landing shoulder	3760 0057 96	1
15	Lower latch body	3760 0057 95	1
16	Lock nut	0268 3112 00	1
17	Spindle	3760 0062 20	2
18	Shut-off valve	3760 0062 21	1
19	Valve adjusting washer	3760 0062 22	1
20	Thrust bearing	3760 0064 70	1
21	Spindle bearing	3760 0062 23	1
22	Hanger bearing	3760 0064 70	1
23	Compression spring	3760 0064 75	1
24	Lock nut	0292 1310 00	1
25	Inner tube cap assembly	3760 0062 24	1
26	Grease fitting	0544 1100 23	1



# HEAD ASSEMBLY

**B**  
O-SERIES



O Series

**This B EX overshoot assembly is for all surface EX, O-Series and BOTW systems**

Item	Qty	Description	Part number
		ExCore BO-EX Overshot assembly	3760 0162 76
1-5		EX Cable swivel assembly	3760 0162 62
15-19		EX Overshot Head assembly	3760 0161 24
1	2	3/16 Nicopress sleeve oval	3760 0082 44
2	1	EX Eye bolt	3760 0162 65
3	1	Bearing	3760 0064 67
4	1	EX Cable swivel collar	3760 0072 16
5	2	Nut 1/2 20 UNF GR8	3760 0123 31
6	1	Grease fitting	0544 1100 23
7	1	EX Sinking bar body	3760 0063 76
8	1	EX Jar tube	3760 0155 59
9	1	Locking sleeve	3760 0063 72
10	1	BO EX Jar staff	3760 0155 56
11	1	Nut 9/16 - 12 UNC	0268 4138 26
12	1	BOU / NOU EX II Dog spring	3760 0064 17
13	1	Protection sleeve	3760 0161 28
14	1	Self locking set screw 3/8 - 16 x 5/8 LG	3760 0154 95
15	1	BO EX Safety overshoot head	3760 0161 26
16	1	Pivot pin 1/2 x 1 1/2	3760 0063 80
17	1	Spring pin 1/4 x 1 3/8	3760 0161 30
18	2	BO-EX Release bar	3760 0161 29
19	2	BO-EX Lifting dog	3760 0161 27

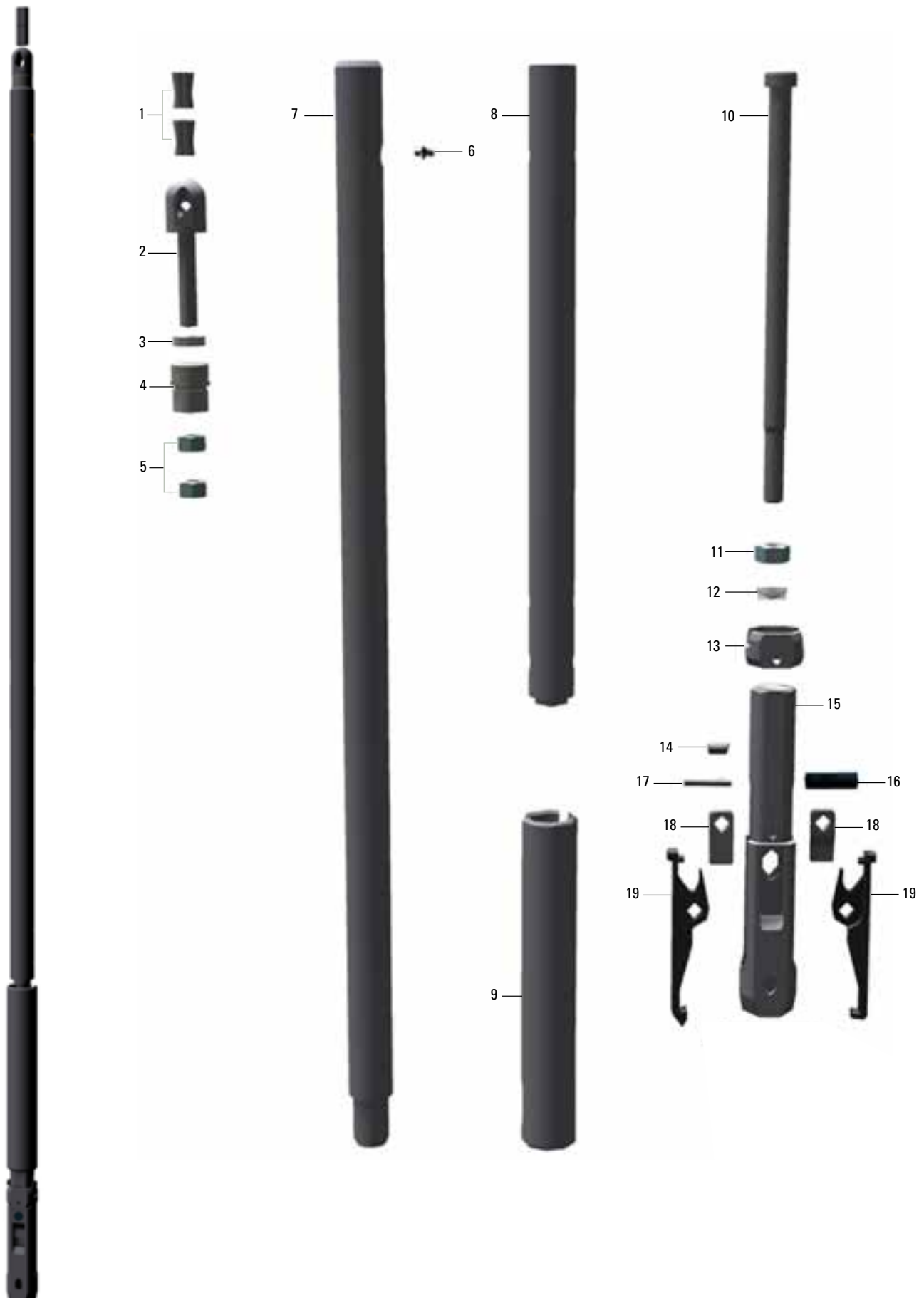
## Optional equipment

Qty	Description	Part number
1	BO EX Pin jar staff adapter	3760 0158 67
2	BO EX Spring pin 7/32 x 1/4	0108 1691 83

For adapting ExCore EX II Safety overshoot Head assembly from O-series models pin jar staff.

# EX SAFETY OVERTSHOT ASSEMBLY

# B

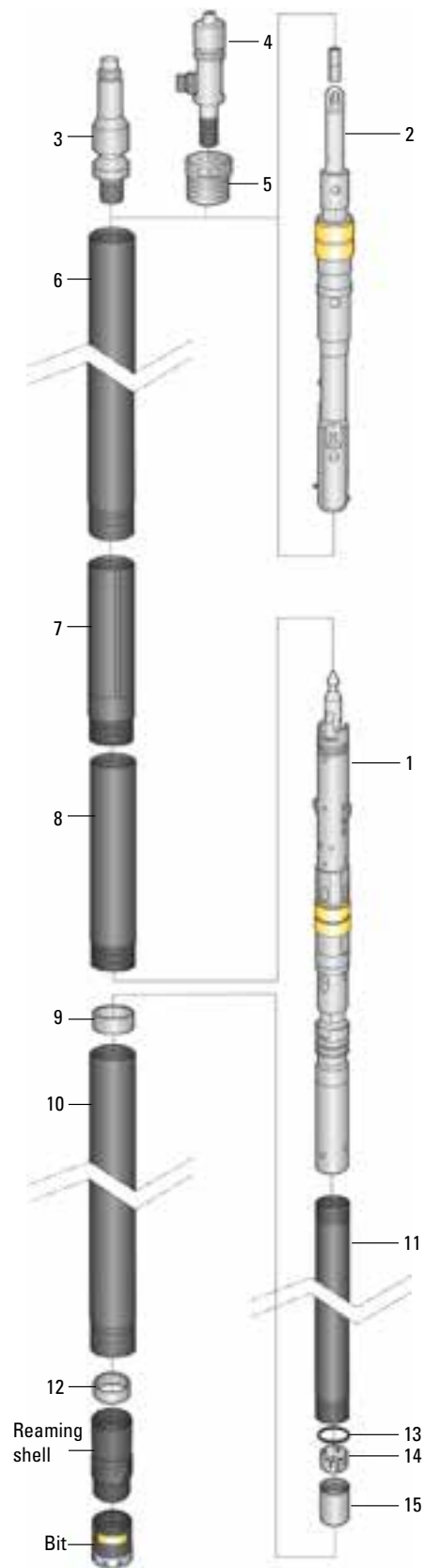


## Double tube Core barrel

Underground

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		BOU-EX	BTU-EX	BMOU-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0160 13	3760 0160 17	3760 0160 15
	3.0 m / 10 ft Core barrel assembly complete	3760 0160 14	3760 0160 18	3760 0160 16
	1.5 m / 5 ft inner tube assembly complete		3760 0160 11	
	3.0 m / 10 ft inner tube assembly complete		3760 0160 12	
1	Head assembly complete (p.44)		3760 0160 10	
Overshot				
2	Overshot assembly complete (p.46)		3760 0162 77	
Water swivel*				
3	18/0 Water swivel complete	3760 0044 63	3760 0009 01	3760 0156 47
Stuffing box				
4	Stuffing box		8393 0819 65	
5	Drill rod adapter/Dimension kit	8393 0819 86	3760 0151 14	3760 0157 50
Drill rods				
6	1.5 m drill rod	37600012 50	3760 0012 24	3760 0155 53
6	3.0 m drill rod	3760 0012 51	3760 0012 25	3760 0134 25
6	5 ft drill rod	3760 0012 48	3760 0012 21	3760 0152 13
6	10 ft drill rod	3760 0012 49	3760 0012 22	3760 0134 27
Consumables/Accessories				
7	Locking coupling - Full hole	3760 0134 64	3760 0134 65	3760 0157 14
8	Adapter coupling - Long		3760 0134 69	
9	Landing ring		3760 0062 28	
10	1.5 m / 5 ft outer tube		3760 0048 31	
10	3.0 m / 10 ft outer tube		3760 0048 32	
11	1.5 m / 5 m inner tube		3760 0048 30	
11	3.0 m / 10 ft inner tube		3760 0048 29	
12	Inner tube stabilizer		3760 0062 29	
13	Stop ring		3760 0062 25	
14	Core lifter		3760 0062 26	
15	Core lifter case		3760 0062 27	
Full grip wrenches				
	Inner tube wrench		3760 0060 17	
	Outer tube wrench		3760 0060 18	
Spare parts kit 760 0156 07				

\* See optional Swivels and Adapters in Accessories section starting on page 132.





## Double tube Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
60.0	.36.4	2.36	1.43

## Spare parts kit - 1000 meters/3300'

3760 0156 08

Qty	Description	Part number	Qty	Description	Part number
2	BO Landing ring	3760 0062 28	1	BO Landing shoulder 3 PLB	3760 0057 96
4	BO Core lifter case	3760 0062 27	1	22 mm Stainless steel ball	3760 0120 99
2	BO Inner tube stabilizer	3760 0062 29	1	Hex nut 7/8 9 UNC	0268 3112 00
20	BO Core lifter	3760 0062 26	4	BO Shut off valve	3760 0062 21
4	BO Stop ring	3760 0062 25	4	Thrust Bearing	3760 0064 70
1	BO/NO/HO EX Spearhead	3760 0153 93	1	BO Spindle bearing	3760 0062 23
2	Spiral pin 7/16 x 1	3760 0043 48	1	BO Compression spring	3760 0064 75
1	EX Detent Compression spring	3760 0153 94	1	Lock nut 5/8 11 UNC Stover	3760 0130 02
2	BO/NO/HO EX Detent plunger	3760 0153 95	2	Spring pin 3/8 x 1 5/8	0108 1691 90
2	BOU EX Compression spring HD	3760 0145 03	1	B/N/H EX Bolt hexagon 3/8 - 16	3760 0134 77
1	BO/BOU EX Latch piston	3760 0134 61	4	Spring pin - 1/4 x 3/4 LG	0108 1691 86
2	BO/BOU EX Latch	3760 0134 57	1	Grease fitting	0544 1100 23
2	Spring pin 1/4 x 1 5/8	3760 0151 19	4	BOU EX Pump-in lip seal	3760 0153 83
2	Landing indicator bushing	3760 0121 00			

## EX Safety overshot spare parts kit 1000 meters/3300'

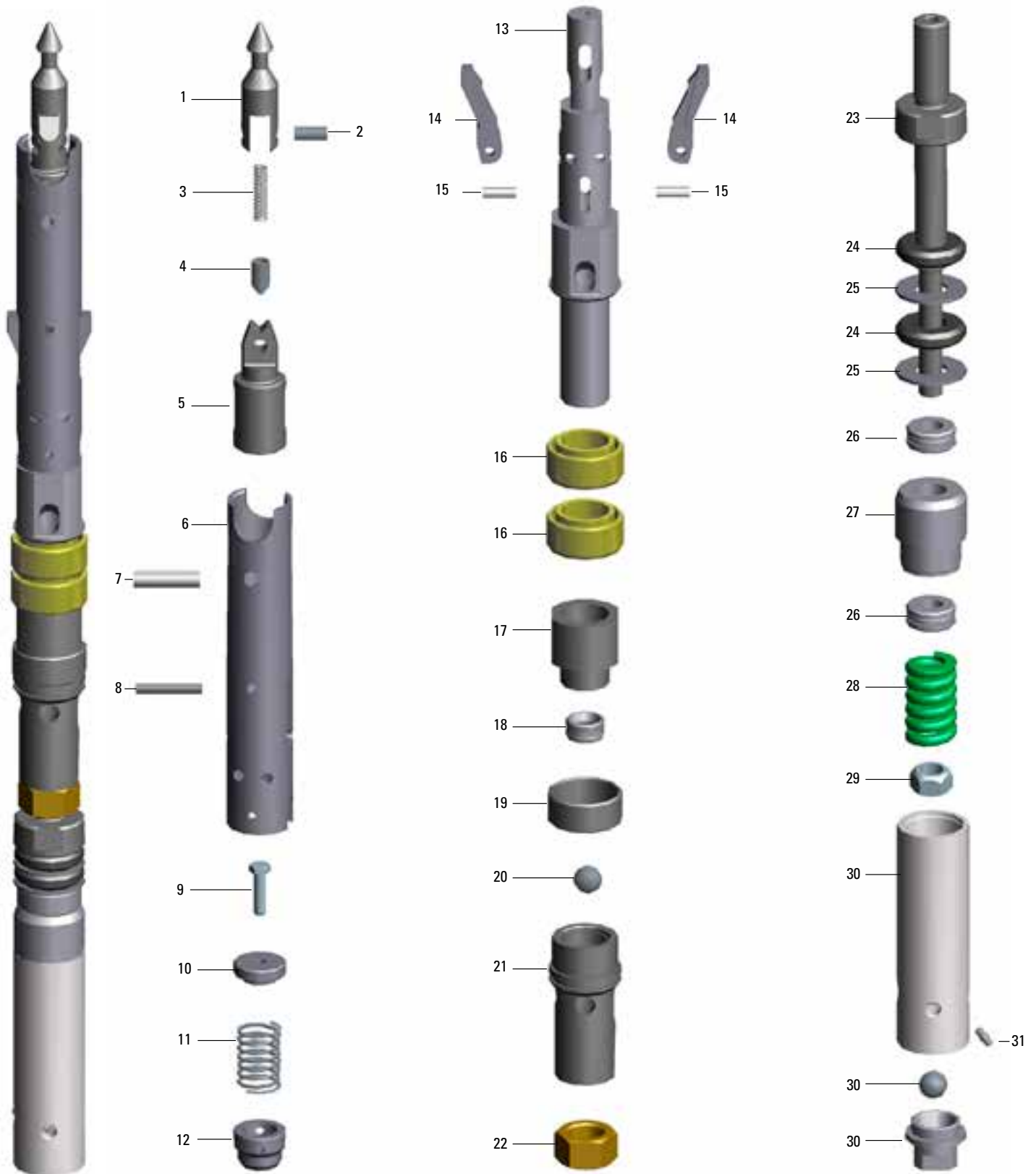
3760 0162 71

Qty	Description	Part number	Qty	Description	Part number
4	3/16 Micropress sleeve oval	3760 0082 44	2	Nut hex 1/2 20 UNF GR8	3760 0123 31
4	BO NO HO Lifting dog spring	3760 0063 73	2	1/4 Grease fitting	0544 1100 23
2	BO Pivot pin 1/2 x 1 1/2	3760 0063 80	2	BO EX Safety Overshot lifting dog	3760 0161 27
1	Spring pin 1/4 x 1 3/8	3760 0161 30	2	BO EX Safety Overshot Release bar	3760 0161 29
1	BO EX Safety Overshot protection sleeve	3760 0161 28	1	Bearing	3760 0064 67
1	BOU NOU lock nut	3760 0064 12	1	BO EX Pump in lip seal	3760 0153 83
1	Stainless steel ball 22 mm	3760 0120 99	4	Landing indicator bushing	3760 0121 00

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0160 10	1	5.500	12.125
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spring pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.051	0.112
4	Detent	3760 0153 95	1	0.150	0.330
5	Spearhead base	3760 0138 79	1	0.350	0.771
6	Latch retracting case	3760 0134 56	1	0.816	1.798
7	Spring pin 3/8 x 1 5/8 LG	0108 1691 90	1	0.010	0.220
8	Spring pin 1/4 x 1 5/8	3760 0151 19	2	0.010	0.220
9	HHCS 3/8 - 16	3760 0134 77	1	0.023	0.050
10	Spring guide	3760 0134 62	1	0.045	0.099
11	Compression spring HD	3760 0161 50*	1	0.023	0.050
12	Latch piston	3760 0134 61	1	0.090	0.198
13	Upper latch body	3760 0158 80	1	1.330	2.932
14	Latch	3760 0134 57	2	0.220	0.485
15	Spring pin 1/4 x 3/4 LG	0108 1691 86	2	0.023	0.050
16	Pump-in lip seal	3760 0153 83*	2	0.300	0.661
17	Latch body coupler	3760 0158 81	1	0.375	0.826
18	Landing indicator bushing	3760 0121 00	1	0.023	0.050
19	Landing shoulder	3760 0057 96	1	0.057	0.125
20	Ball S.S - x 22 mm DIA	3760 0120 99	1	0.045	0.099
21	Lower latch body	3760 0134 59	1	0.500	1.102
22	Hex nut 3/4 - 10 UNC	0268 3112 00	1	0.090	0.198
23	Spindle	3760 0062 20	1	0.570	1.256
24	Shut off valve	3760 0062 21	2	0.010	0.022
25	Valve adjusting washer	3760 0062 22	2	0.029	0.063
26	Thrust bearing	3760 0064 70	2	0.070	0.154
27	Spindle bearing	3760 0062 23	1	0.428	0.943
28	Compression spring	3760 0064 75	1	0.076	0.167
29	Lock nut 5/8 11UNC stover	3760 0130 02	1	0.050	0.110
30	Inner tube cap assembly (includes grease fitting)	3760 0062 24	1	0.907	1.999
31	Grease fitting	0544 1100 23	1	0.001	0.002

# HEAD ASSEMBLY

**B**  
U-EX

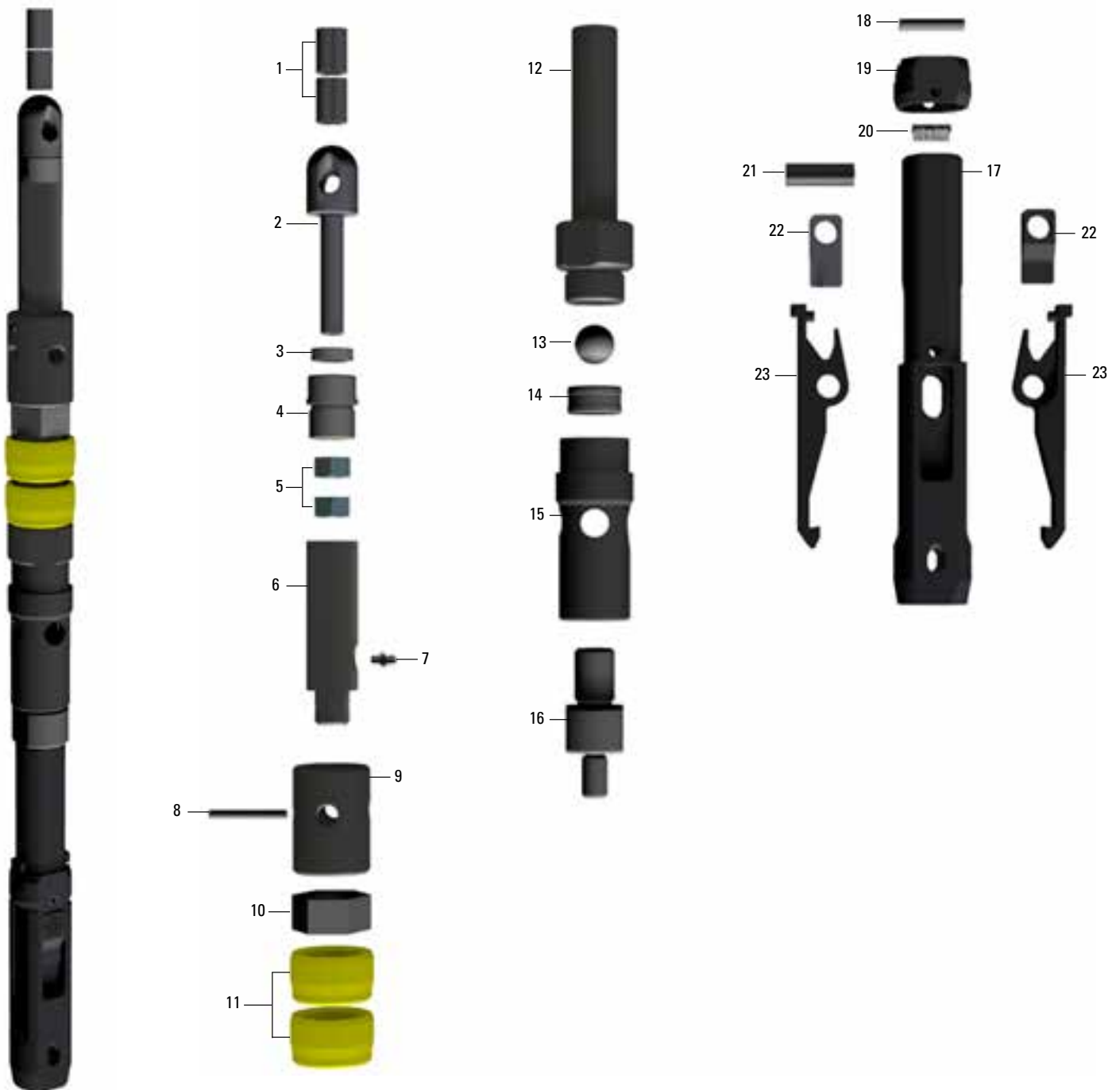


Excore

Item	Description	Part number	Qty
	ExCore BOU-EX Overshot assembly	3760 0162 77	
1-5	EX Cable swivel assembly	3760 0162 62	
17-23	EX Overshot Head assembly	3760 0161 24	
1	3/16 Nicopress sleeve oval	3760 0082 44	2
2	EX Eye bolt	3760 0162 65	1
3	Bearing	3760 0064 67	1
4	EX Cable swivel collar	3760 007216	1
5	Nut 1/2 20 UNF GR8	3760 0123 31	2
6	Cable swivel body	3760 0077 67	1
7	Grease fitting	0544 1100 23	1
8	Shear pin 3/16 x 111/16	3760006416	1
9	Valve cap	3760 0064 11	1
10	1-8 UNC Lock nut	3760 0064 12	1
11	BOU-EX Pump-in lip seal	3760 0153 83	2
12	BO Overshot seal seat	3760 0158 14	1
13	Ball S.S. - x 22 mm Dia.	3760 0120 99	1
14	Landing indicator bushing	3760 0121 00	1
15	Lower latch body	3760 0134 59	1
16	Overshot threaded adapter	3760 0158 27	1
17	BO-EX Safety overshot head	3760 0161 26	1
18	Spring pin 1/4 x 1 3/8	3760 0161 30	1
19	Protection sleeve	3760 0161 28	1
20	BOU / NOU Dog spring	3760 0064 17	2
21	Pivot pin	3760 0063 80	1
22	Release bar	3760 0161 29	2
23	BO-EX Lifting dog	3760 0161 27	2

# EX SAFETY OVERTSHOT ASSEMBLY

**B**  
U-EX



Excure

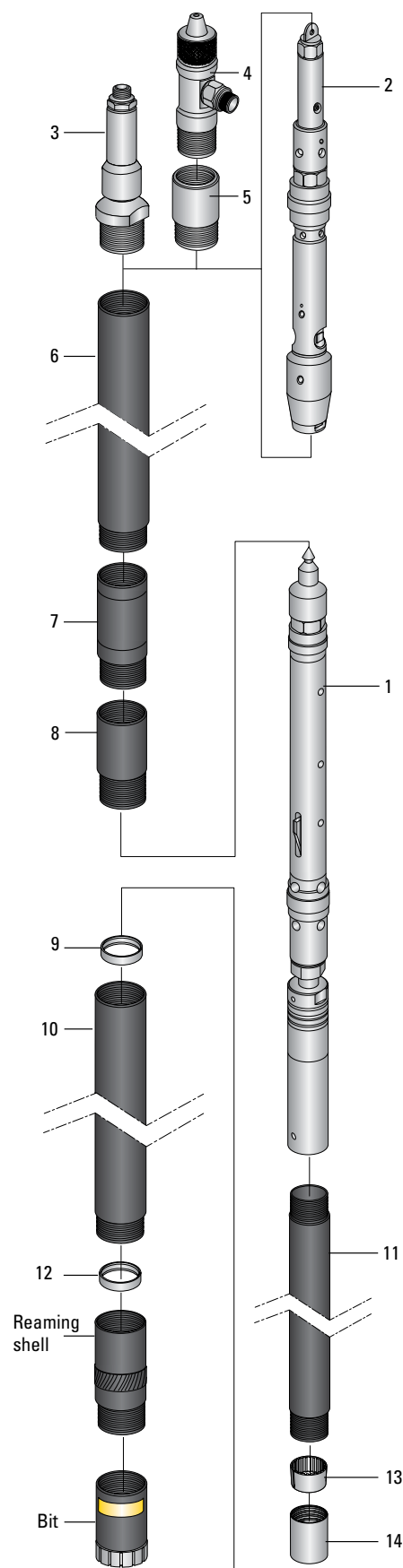


## Double tube thin wall Core barrel

Underground

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>BTW</i>	<i>BTT</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0061 99	3760 0062 00
	3.0 m / 10 ft Core barrel assembly complete	3760 0062 01	3760 0062 02
	1.5 m / 5 ft inner tube assembly complete	3760 0062 03	
	3.0 m / 10 ft inner tube assembly complete	3760 0062 04	
1	Head assembly complete (p.50)	3760 0062 05	
Overshot			
2	Overshot assembly complete (p.52)	3760 0062 06	
Water swivel*			
3	18/0 Water swivel complete	3760 0062 07	3760 0039 35
Stuffing box			
4	Stuffing box	8393 0819 65	
5	Drill rod adapter/Dimension kit	8393 0819 87	3760 0152 01
Drill rods			
6	1.5 m drill rod	3760 0056 32	3760 0004 03
6	3.0 m drill rod	3760 0056 33	3760 0004 02
6	5 ft drill rod	3760 0053 59	3760 0004 00
6	10 ft drill rod	3760 0053 60	3760 0003 99
Consumables/Accessories			
7	Locking coupling - Full hole	3760 0062 10	3760 0062 11
8	Adapter coupling - Long	3760 0062 12	
9	Landing ring	3760 0063 03	
10	1.5 m / 5 ft outer tube	3760 0061 26	
10	3.0 m / 10 ft outer tube	3760 0061 27	
11	1.5 m / 5 m inner tube	3760 0061 28	
11	3.0 m / 10 ft inner tube	3760 0061 29	
12	Inner tube stabilizer	3760 0049 10	
13	Core lifter	3760 0063 01	
14	Core lifter case	3760 0063 02	
Full grip wrenches			
Inner tube wrench		3760 0061 31	
Outer tube wrench		3760 0060 18	
Spare parts kit 760 0062 13			

\* See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube thin wall Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
60.0	42.0	2.36	1.65

## Spare parts kit - 1000 meters/3300'

3760 0062 13

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0063 31	2	Check spring	3760 0076 11
4	Packing cup	3760 0063 00	1	Lock nut 7/8 9UNC	0268 3112 00
4	O-Ring	0663 2105 90	4	Shut-off valve	3760 0062 98
1	Washer 3/8	3760 0136 83	2	Thrust bearing	3760 0064 70
1	Spring guide	3760 0063 37	1	Spindle bearing	3760 0062 23
2	Compression spring	3760 0077 54	2	Hanger bearing	3760 0064 70
2	Spring pin 3/8 x 1 5/8 LG	0108 1691 90	1	Lock nut 5/8 11UNC stover	3760 0130 02
2	Square pin	3760 0063 38	1	Steel ball	0517 1428 00
4	Latch spring	3760 0062 17	2	Grease fitting 1/4	0544 1100 23
4	Latch	3760 0063 18	20	Core lifter	3760 0063 01
4	Spring pin 3/8 x 1 1/4 LG	0108 1691 39	4	Core lifter case	3760 0063 02
4	Spring pin 1/4 x 1 1/4 LG	0108 1691 34	2	Landing ring	3760 0063 03
1	Landing shoulder	3760 0062 97	2	Inner tube stabilizer	3760 0049 10
1	Steel ball 15/16 DIA SS	3760 0083 72	1	BOU Spring guide	3760 0063 39
2	Ball check spring	3760 0077 61			

## Overshot spare parts kit - 1000 meters/3300'

3760 0062 14

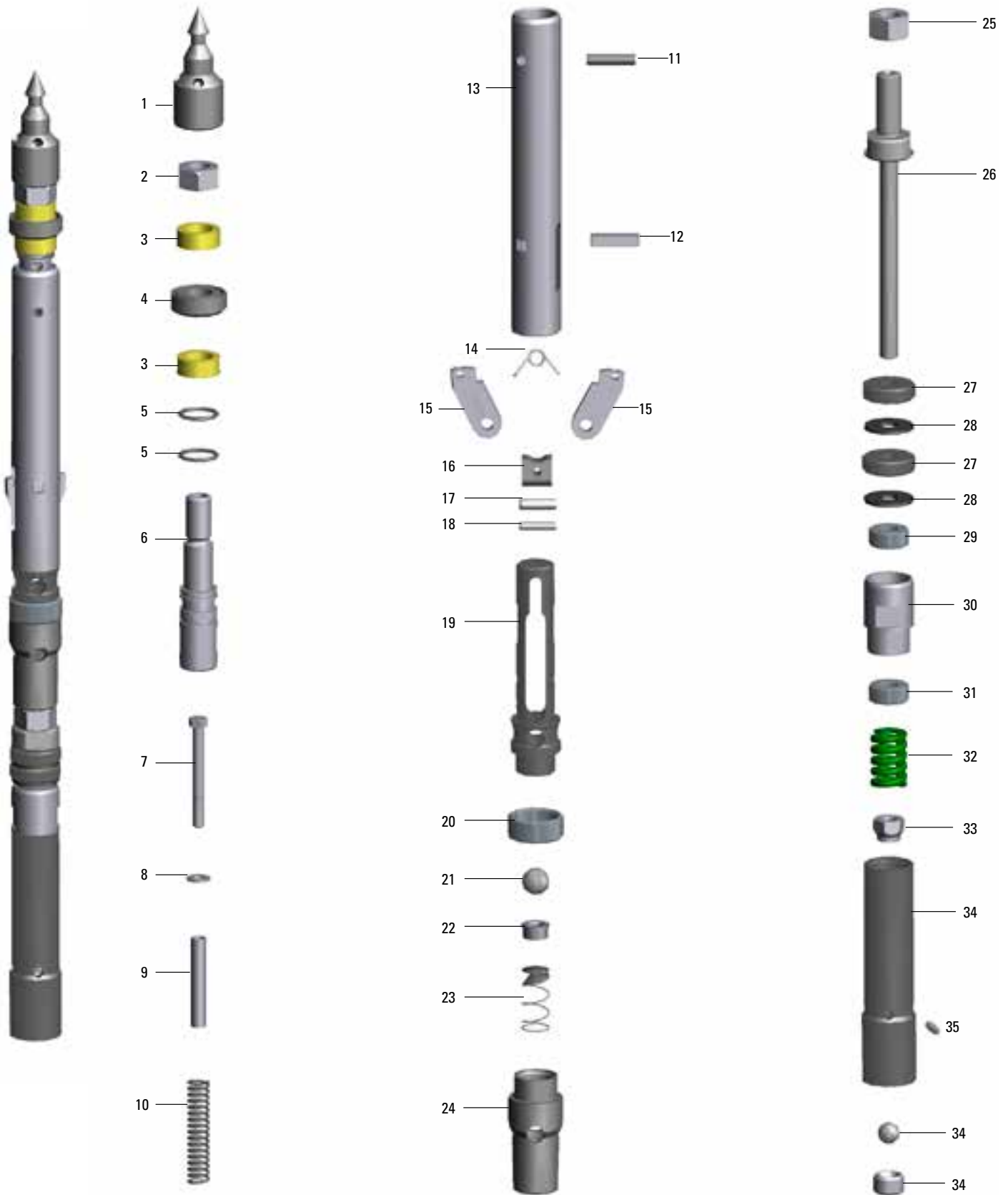
Qty	Description	Part number	Qty	Description	Part Number
4	Nycropress sleeve oval	3760 0082 44	4	Packing cup	3760 0063 00
1	Bearing	3760 0064 67	4	O-ring	0663 2105 90
2	Nut 1/2 20 UNF GR8	3760 0123 31	2	Valve spring	3760 0121 61
2	Grease fitting 1/4	0544 1100 23	2	Spring pin 3/8 x 1 1/4	0108 1691 39
1	Lock nut BOTW	3760 0064 12	4	Lifting dog spring	3760 0064 17
2	Shear pin BOTW	3760 0064 16	2	Lifting dog	3760 0064 20
1	Pivot pin BOTW	3760 0064 19			

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0062 05	1	5.900	13.007
1	Spearhead	3760 0063 31	1	0.449	0.989
2	Lock nut	3760 0063 32	2	0.074	0.163
3	Packing cup spacer	3760 0063 34	1	0.009	0.019
4	Packing cup	3760 0063 00	2	0.021	0.046
5	O-ring	0663 2105 90	2	0.015	0.033
6	Spear head body	3760 0063 35	1	0.453	0.998
7	Hexagon head cap screw 3/8 x 3 1/2	0211 5300 00	1	0.003	0.006
8	Washer 3/8	3760 0136 83	1	0.002	0.004
9	Spring guide	3760 0063 37	1	0.027	0.059
10	Compression spring	3760 0077 54	1	0.027	0.059
11	Spring pin 3/8 x 1 5/8	0108 1691 90	1	0.010	0.022
12	Square pin	3760 0063 38	1	0.029	0.063
13	Latch retracting case	3760 0063 36	1	0.224	0.493
14	Latch spring	3760 0062 17	1	0.005	0.011
15	Latch	3760 0063 18	2	0.083	0.182
16	Latch support	3760 0062 19	1	0.064	0.141
17	Spring pin 3/8 x 1 1/4	0108 1691 39	1	0.010	0.022
18	Spring pin 1/4 x 1 1/4	0108 1691 34	1	0.010	0.022
19	Upper latch body	3760 0057 94	1	0.590	1.300
20	Landing shoulder	3760 0062 97	1	0.089	0.196
21	Ball 15/16	3760 0083 72	1	0.054	0.119
22	Ball stopper	3760 0125 76	1	0.024	0.052
23	Check valve spring	3760 0076 11	1	0.010	0.022
24	Lower latch body	3760 0122 33	1	0.595	1.311
25	Lock nut 7/8	0268 3112 00	1	0.090	0.198
26	Spindle	3760 0062 20	1	0.570	1.256
27	Shut-off valve	3760 0062 98	2	0.020	0.044
28	Valve adjusting washer	3760 0062 22	2	0.029	0.063
29	Thrust bearing	3760 0064 70	1	0.070	0.154
30	Spindle bearing	3760 0062 23	1	0.428	0.943
31	Hanger bearing	3760 0064 70	2	0.070	0.154
32	Compression spring	3760 0064 76	1	0.104	0.308
33	Lock nut 5/8 11UNC stover	3760 0130 02	1	0.040	0.308
34	Inner tube cap assembly (includes Grease fitting)	3760 0062 99	1	0.816	1.798
35	Grease fitting	0544 1100 23	1	0.001	0.002

# HEAD ASSEMBLY

**B**  
OTW-U

O Series



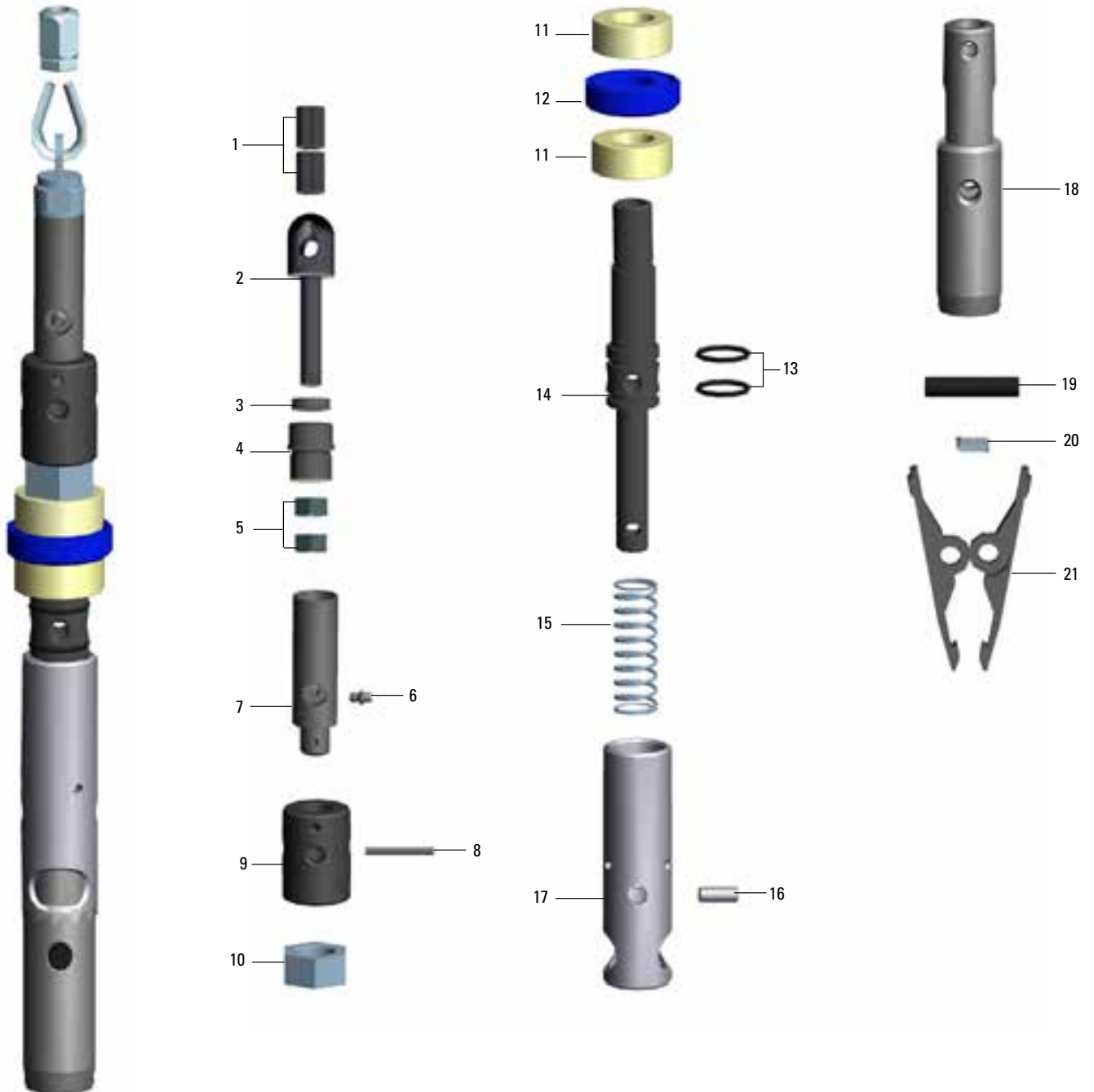
Item	Description	Part number	Qty	Kg	Lbs
	Overshot assembly complete	3760 0062 06	1	3.180	6.653
1-6	B/N/H EX II Cable swivel assembly complete	3760 0162 62	1	0.610	1.344
1	3/16 Nicopress sleeve oval	3760 0082 44	2	0.090	0.198
2	EX II Eye bolt	3760 0162 65	1	0.010	0.022
3	Bearing	3760 0064 67	1	0.100	0.220
4	EX Cable swivel collar	3760 0072 16	1	0.110	0.242
5	Nut 1/2 20 UNF GR8	3760 0123 31	2	0.020	0.044
6	Cable swivel body	3760 0077 67	1	0.270	0.595
7	Grease fitting 1/4	0544 1100 23	1	0.010	0.022
8	Shear pin	3760 0064 16	1	0.005	0.011
9	Valve cap	3760 0064 11	1	0.432	0.952
10	Lock nut	3760 0064 12	1	0.105	0.231
11	Packing cup spacer	3760 0063 34	2	0.009	0.019
12	Piston packing cup	3760 0063 00	1	0.021	0.046
13	O-ring	0663 2105 90	2	0.015	0.033
14	Valve stem	3760 0064 08	1	0.498	1.097
15	Valve spring	3760 0121 61	1	0.018	0.039
16	Spring pin 3/8 x 1 1/4	0108 1691 39	1	0.010	0.022
17	Valve sleeve	3760 0064 10	1	0.626	1.380
18	Overshot head	3760 0064 18	1	0.907	1.999
19	Pivot pin	3760 0064 19	1	0.041	0.090
20	Lifting dog spring	3760 0064 17	1	0.002	0.004
21	Lifting dog	3760 0064 20	2	0.107	0.235



# OVERSHOT ASSEMBLY

**B**  
OTW-U

O Series

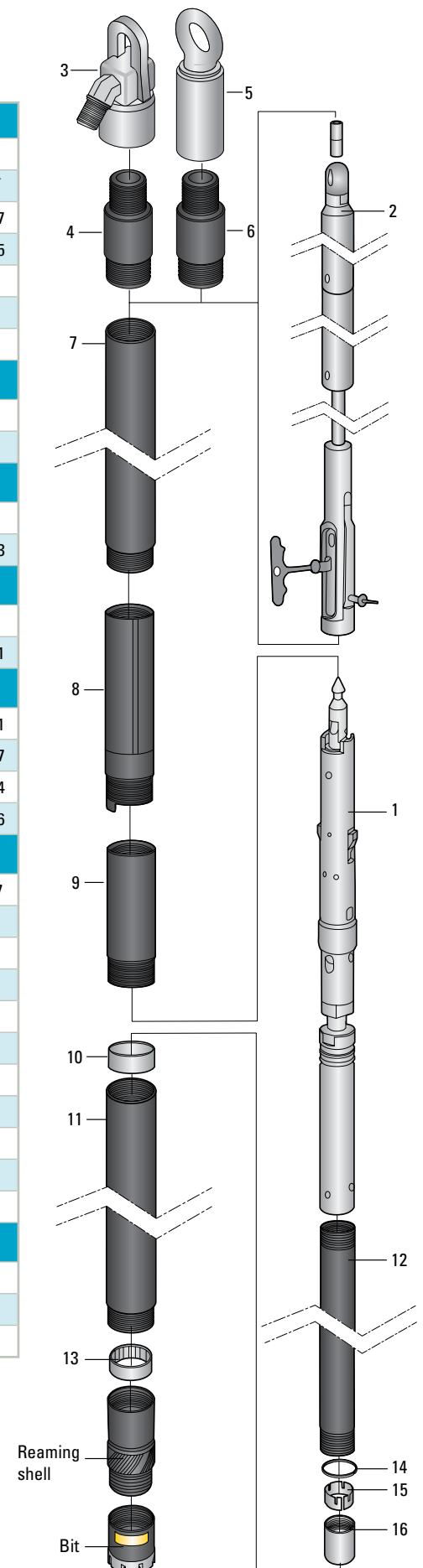


## Double tube Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		<i>NO-EX</i>	<i>NT-EX</i>	<i>NMO-EX</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0156 18	3760 0156 16	3760 0156 17
	3.0 m / 10 ft Core barrel assembly complete	3760 0153 98	3760 0156 13	3760 0152 65
	1.5 m / 5 ft inner tube assembly complete	3760 0156 21		
	3.0 m / 10 ft inner tube assembly complete	3760 0156 23		
1	Head assembly complete (p.56)	3760 0134 52		
Overshot				
2	Overshot assembly complete (p.78)	3760 0162 78		
2	Dry hole kit	3760 0162 58		
Water swivel*				
3	25000 TC Water swivel, BW rod box	3760 0003 76		
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0060 22	3760 0060 23	3760 0126 23
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10		
6	Hoisting plug adapter	3760 0158 09	3760 0158 05	3760 0155 01
Drill rods				
7	1.5 m drill rod	3760 0012 54	37600012 30	3760 0152 11
7	3.0 m drill rod	3760 0012 55	3760 0012 31	3760 0152 07
7	5 ft drill rod	3760 0012 52	3760 0012 27	3760 0152 14
7	10 ft drill rod	3760 0012 53	3760 0012 28	3760 0103 36
Consumables/Accessories				
8	Locking coupling	3760 0060 26	3760 0060 27	37600127 37
9	Adapter coupling	3760 0060 28		
10	Landing ring	3760 0062 43		
11	1.5 m / 5 ft outer tube	3760 0048 37		
11	3.0 m / 10 ft outer tube	3760 0048 39		
12	1.5 m / 5 m inner tube	3760 0048 35		
12	3.0 m / 10 ft inner tube	3760 0048 36		
13	Inner tube stabilizer	3760 0062 44		
14	Stop ring	3760 0062 40		
15	Core lifter	3760 0062 41		
16	Core lifter case	3760 0062 42		
Full grip wrenches				
Inner tube wrench		3760 0060 31		
Outer tube wrench		3760 0060 32		
Spare parts kit 760 0152 69				

\*See optional Swivels and Adapters in Accessories section starting on page 132.



# COMPACT CORE BARREL SYSTEM



## Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	47.6	2.98	1.88

## Spare parts kit - 1000 meters/3300'

3760 0152 69

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	Nut stover 3/4 10UNC SS NO	3760 0130 03
1	EX Detent Compression spring	3760 0153 94	4	Bearing thrust	3760 0064 61
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	NO Spindle bearing	3760 0062 38
2	Spiral pin 7/16 x 1	3760 0043 48	2	1/4 Grease fitting	0544 1100 23
2	Spring pin - 1/2-2 LG	0108 1691 80	4	NO Stop ring	3760 0062 40
4	Spring pin - 5/16 x 1 LG	3760 0156 94	20	NO Core lifter	3760 0062 41
2	Split roll pin 5/16 x 2 LG	0108 1691 89	4	NO Core lifter case	3760 0062 42
2	Spring pin - 1/4 x 2 LG	5530 8326 00	2	NO Landing ring	3760 0062 43
2	NO EX Compression spring	3760 0134 74	2	NO Inner tube stabilizer	3760 0062 44
2	NO/NOU EX Latch	3760 0134 71	1	NO/NOU EX Latch piston	3760 0134 75
1	NO Compression spring	3760 0064 63	2	Landing indicator bushing	3760 0121 00
1	NO Landing shoulder 3 PLB	3760 0051 00	1	22 mm Stainless steel ball	3760 0120 99
1	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	Bearing hanger	3760 0064 62	4	NO Shut off valve	3760 0062 36

## Safety overshot spare parts kit - 1000 meters/3300'

3760 0162 72

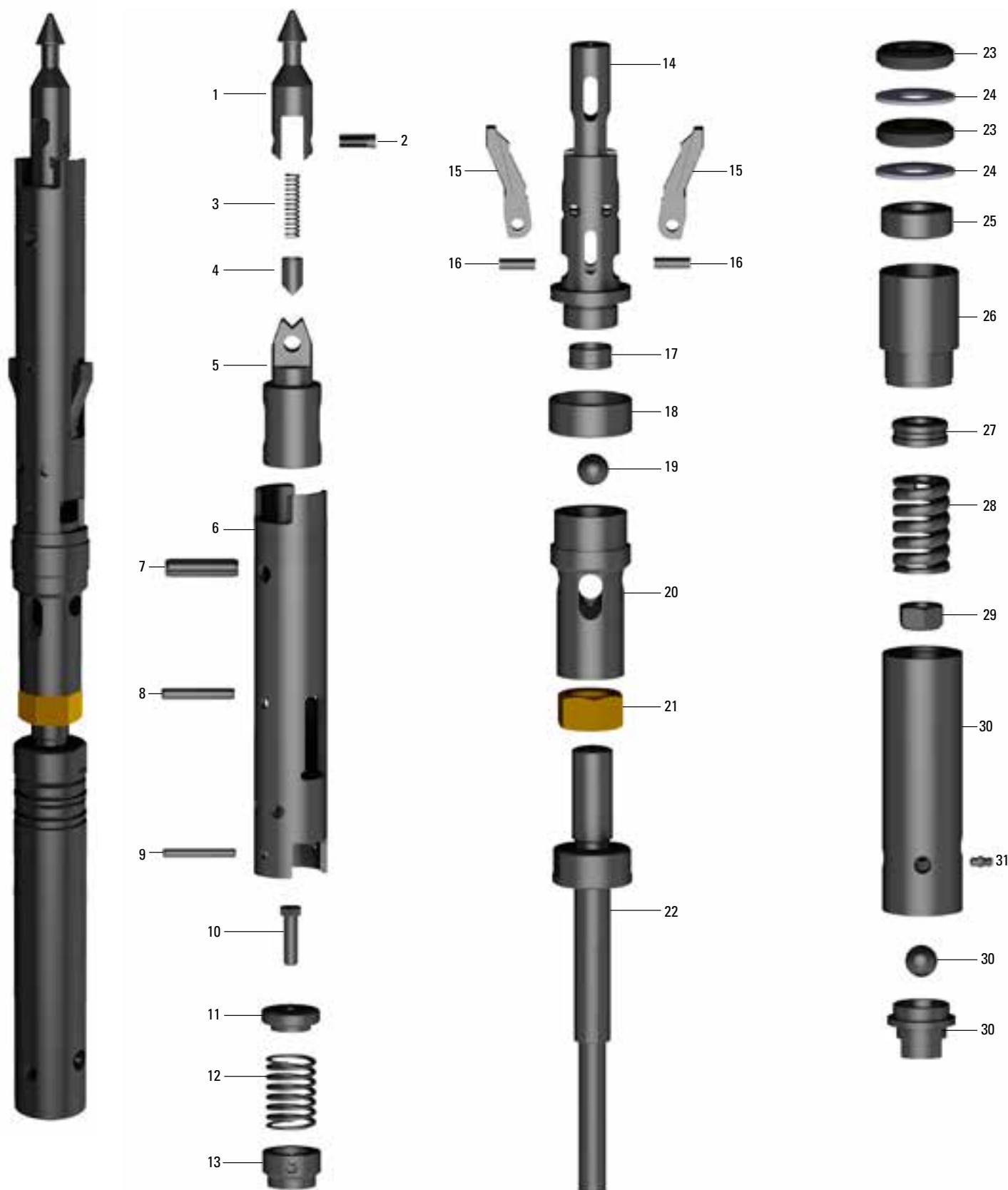
Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2

Excore

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0134 52	1	9.300	20.502
1	Spearhead	3760 0153 93	1	0.140	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.230	0.507
4	Detent	3760 0153 95	1	0.010	0.022
5	Spearhead base	3760 0153 96	1	0.446	1.232
6	Latch retracting case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2	0108 1691 80	1	0.030	0.066
8	Spring pin 5/16 x 2	3760 0151 26	1	0.030	0.066
9	Spring pin 1/4 x 2	5530 8326 00	1	0.030	0.066
10	HHCS 3/8-16 x 1 1/4	3760 0134 77	1	0.023	0.050
11	Spring guide	3760 0134 76	1	0.113	0.249
12	Compression spring	3760 0134 74	1	0.023	0.050
13	Latch piston	3760 0134 75	1	1.021	2.250
14	Upper latch body	3760 0134 72	1	1.315	2.899
15	Latch	3760 0134 71	2	0.091	0.200
16	Spring pin 5/16 x 1	3760 0156 94	2	0.020	0.044
17	Landing indicator bushing	3760 0121 00	1	0.023	0.050
18	Landing shoulder	3760 0051 00	1	0.100	0.220
19	SS Ball 22 mm	3760 0120 99	1	0.045	0.099
20	Lower latch body	3760 0134 73	1	1.021	2.250
21	Lock nut 1 1/8	0268 4138 24	1	0.170	0.374
22	Spindle	3760 0062 35	1	1.360	2.998
23	Shut-off valve	3760 0062 36	2	0.020	0.044
24	Valve adjusting washer	3760 0062 37	2	0.050	0.110
25	Thrust bearing	3760 0064 61	1	0.170	0.374
26	Spindle bearing housing	3760 0062 38	1	0.770	1.697
27	Hanger bearing	3760 0064 62	1	0.090	0.198
28	Compression spring	3760 0064 63	1	0.230	0.507
29	Lock nut stover 3/4 10UNC SS	3760 0130 03	1	0.050	0.110
30	Inner tube cap assembly (includes Grease fitting)	3760 0062 39	1	1.610	3.549
31	Grease fitting	0544 1100 23	1	0.001	0.002

# COMPACT HEAD ASSEMBLY

**N**  
**EX**



Excure

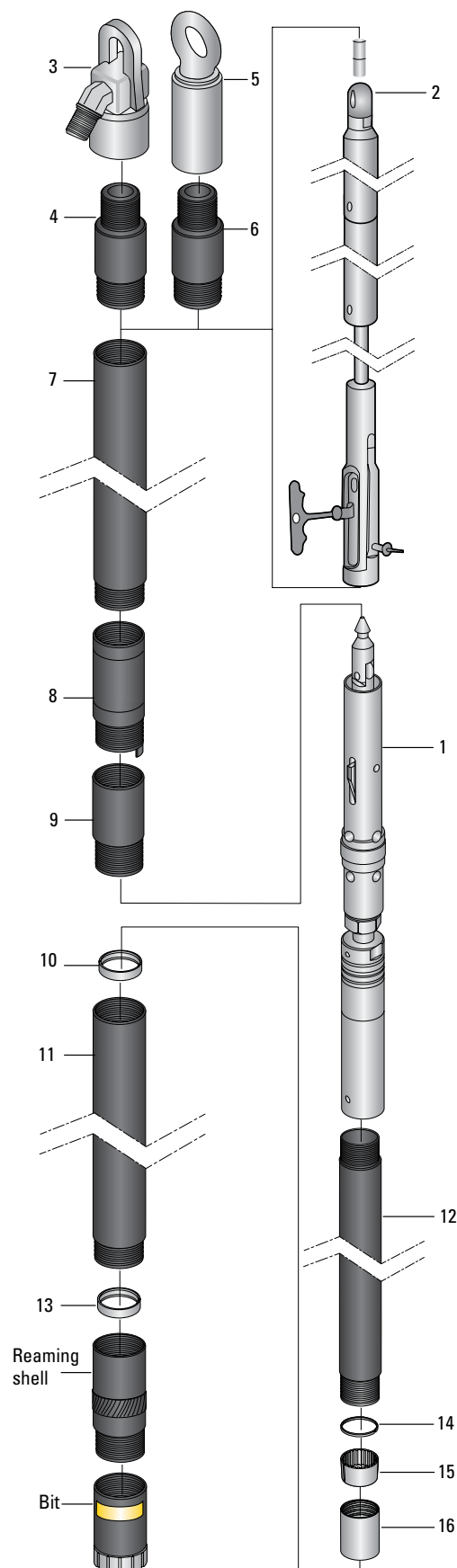


## Double tube thin wall Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		N02	NT2	NM02
	1.5 m / 5 ft Core barrel assembly complete	3760 0155 82	3760 0155 80	3760 0155 81
	3.0 m / 10 ft Core barrel assembly complete	3760 0155 85	3760 0155 83	3760 0155 84
	1.5 m / 5 ft inner tube assembly complete		3760 0155 87	
	3.0 m / 10 ft inner tube assembly complete		3760 0155 90	
1	Head assembly complete (p.60)		3760 0152 64	
Overshot				
2	Overshot assembly complete (p.78)		3760 0162 78	
2	Dry hole kit		3760 0162 58	
Water swivel*				
3	25000 TC Water swivel, BW rod box		3760 0003 76	
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0060 22	3760 0060 23	3760 0126 23
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread		3760 0060 10	
6	Hoisting plug adapter	3760 0158 09	3760 0158 05	3760 0155 01
Drill rods				
7	1.5 m drill rod	3760 0012 54	3760 0012 30	3760 0152 11
7	3.0 m drill rod	3760 0012 55	3760 0012 31	3760 0152 07
7	5 ft drill rod	3760 0012 52	3760 0012 27	3760 0152 14
7	10 ft drill rod	3760 0012 53	3760 0012 28	3760 0103 36
Consumables/Accessories				
8	Locking coupling	3760 0060 26	3760 0060 27	3760 0127 37
9	Adapter coupling		3760 0060 28	
10	Landing ring		3760 0062 58	
11	1.5 m / 5 ft outer tube		3760 0048 37	
11	3.0 m / 10 ft outer tube		3760 0048 39	
12	1.5 m / 5 m inner tube		3760 0061 36	
12	3.0 m / 10 ft inner tube		3760 0061 37	
13	Inner tube stabilizer		3760 0083 17	
14	Stop ring		3760 0063 26	
15	Core lifter		3760 0063 27	
16	Core lifter case		3760 0063 28	
Full grip wrenches				
	Inner tube wrench		3760 0005 68	
	Outer tube wrench		3760 0060 32	
Spare parts kit 760 0156 00				

\*See optional Swivels and Adapters in Accessories section starting on page 132.



# COMPACT CORE BARREL SYSTEM

# N2 EX

## Double tube thin wall Core barrel

Surface

System information				
Size	Metric system (mm)		Imperial system (in)	
	Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
N02	75.7	50.7	2.98	2.0

## Spare parts kit - 1000 meters/3300'

3760 0156 00

Qty	Description	Part number	Qty	Description	Part number
1	B0/N0/HO EX Spearhead	3760 0153 93	1	Nut stover 3/4 10UNC SS NO	3760 0130 03
1	EX Detent Compression spring	3760 0153 94	4	Bearing thrust	3760 0064 61
2	B0/N0/HO EX Detent plunger	3760 0153 95	1	NO Spindle bearing	3760 0062 38
2	Spiral pin 7/16 x 1	3760 0043 48	2	1/4 Grease fitting	0544 1100 23
2	Spring pin - 1/2 x 2 LG	0108 1691 80	4	N02 Stop ring	3760 0063 26
4	Spring pin - 5/16 x 1 LG	3760 0156 94	20	N02 Core lifter - Fluted	3760 0063 27
2	Spring pin 5/16 x 2 LG	0108 1691 89	4	N02 Core lifter case	3760 0063 28
2	Spring pin - 1/4 x 2 LG	5530 8326 00	2	NO Landing ring	3760 0063 29
2	NO/NOU EX Compression spring	3760 0134 74	2	N02 Inner tube stabilizer	3760 0083 17
2	NO/NOU EX Latch	3760 0134 71	1	NO/NOU EX Latch piston	3760 0134 75
1	NO Compression spring	3760 0064 63	2	Landing indicator bushing	3760 0121 00
1	N02 Landing shoulder 3 PLB	3760 0052 41	1	22 mm Stainless steel ball	3760 0120 99
1	B/N/H EX Bolt hexagon 3/8-16	3760 0134 77	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	Bearing hanger	3760 0064 62	4	NO Shut off valve	3760 0062 36

## Safety overshot spare parts kit - 1000 meters/3300'

3760 0162 72

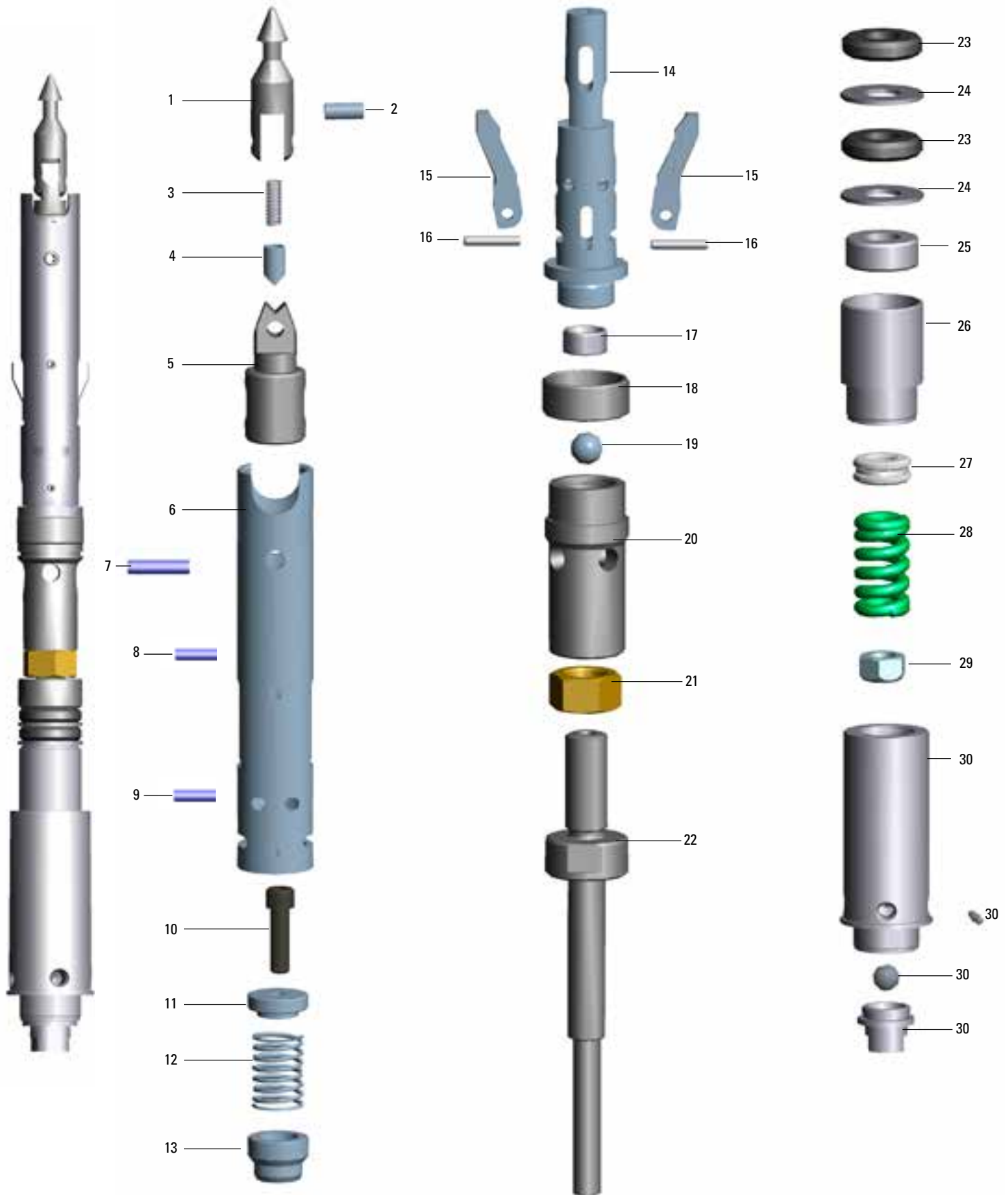
Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	B0 NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2

Excore

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0152 64	1	9.300	20.502
1	Spearhead	3760 0153 93	1	0.140	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.230	0.507
4	Detent plunger	3760 0153 95	1	0.010	0.022
5	Spearhead base	3760 0153 96	1	0.446	1.232
6	Latch retracting case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2	0108 1691 80	1	0.030	0.066
8	Spring pin 5/16 x 2	0108 1691 89	1	0.030	0.066
9	Spring pin 1/4 x 2	5530 8326 00	1	0.030	0.066
10	HHCS 3/8-16 x 1 1/4	3760 0134 77	1	0.023	0.050
11	Guide spring	3760 0134 76	1	0.113	0.249
12	Compression spring	3760 0134 74	1	0.023	0.050
13	Latch piston	3760 0134 75	1	1.021	2.250
14	Upper latch body	3760 0134 72	1	1.315	2.899
15	Latch	3760 0134 71	2	0.091	0.200
16	Spring pin 5/16 x 1	3760 0156 94	2	0.020	0.044
17	Landing indicator bushing	3760 0121 00	1	0.023	0.050
18	Landing shoulder	3760 0052 41	1	0.100	0.220
19	SS Ball 22 mm	3760 0120 99	1	0.045	0.099
20	Lower latch body	3760 0134 73	1	1.021	2.250
21	Lock nut 1 1/8	0268 4138 24	1	0.170	0.374
22	Spindle	3760 0062 35	1	1.360	2.998
23	Shut-off valve - Black	3760 0062 36	2	0.020	0.044
24	Valve adjusting washer	3760 0062 37	2	0.050	0.110
25	Thrust bearing	3760 0064 61	1	0.170	0.374
26	Spindle bearing	3760 0062 38	1	0.770	1.697
27	Hanger bearing	3760 0064 62	1	0.090	0.198
28	Compression spring	3760 0064 63	1	0.230	0.507
29	Lock nut stover 3/4 UNC SS	3760 0130 03	1	0.050	0.110
30	Inner tube cap assembly	3760 0063 25	1	1.610	3.549

# COMPACT HEAD ASSEMBLY

**N2**  
**EX**



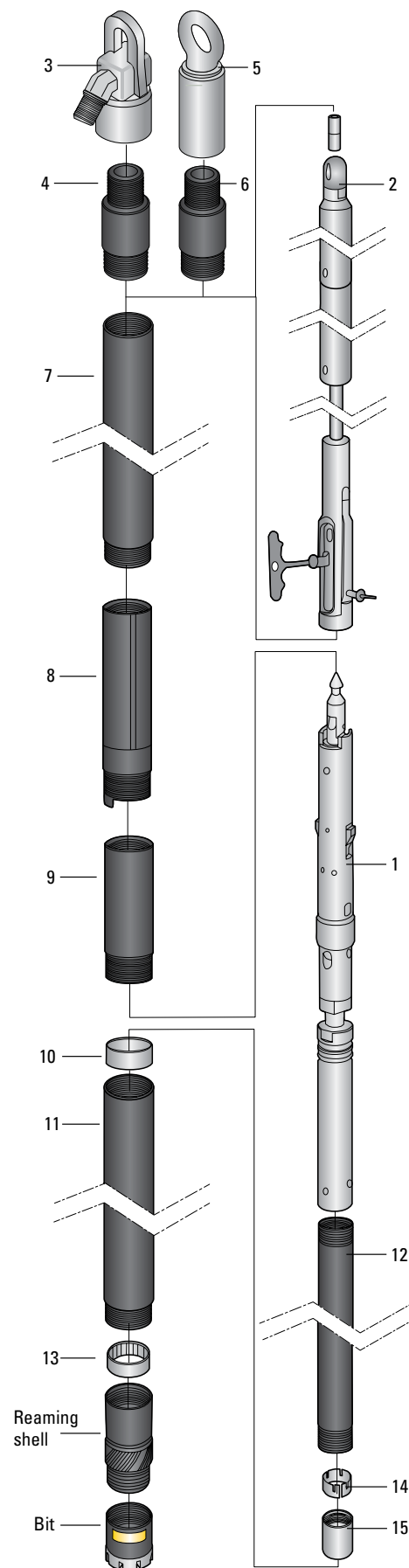
Excore

## Double tube thin wall Core barrel

Surface

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number <i>NTW-EX</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0162 08
	3.0 m / 10 ft Core barrel assembly complete	3760 0162 31
	1.5 m / 5 ft inner tube assembly complete	3760 0162 28
	3.0 m / 10 ft inner tube assembly complete	3760 0162 29
1	Head assembly complete (p.64)	3760 0162 09
Overshot		
2	Overshot assembly complete (p. 78)	3760 0162 78
Water swivel*		
3	25000 TC Water swivel, BW rod box	3760 0003 76
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0157 46
Hoisting plug		
5	Stuffing box	8393 0819 65
Drill rods		
7	1.5 m drill rod	3760 0056 35
7	3.0 m drill rod	3760 0056 36
7	5 ft drill rod	3760 0053 61
7	10 ft drill rod	3760 0053 62
Consumables/Accessories		
8	Locking coupling - Full hole	3760 0159 80
9	Adapter coupling - Long	3760 0162 14
10	Landing ring	3760 0162 21
11	1.5 m / 5 ft outer tube	3760 0162 19
11	3.0 m / 10 ft outer tube	3760 0162 20
12	1.5 m / 5 m inner tube	3760 0154 88
12	3.0 m / 10 ft inner tube	3760 0154 89
13	Core lifter	3760 0009 29
14	Core lifter case	3742 0009 28
15	Inner tube stabilizer	3760 0162 23
Full grip wrenches		
Inner tube wrench		3760 0165 36
Outer tube wrench		3760 0060 32
<b>Spare parts kit 760 0159 59</b>		

\*See optional Swivels and Adapters in Accessories section starting on page 132.





# COMPACT CORE BARREL SYSTEM

**NTW  
EX**

## Double tube thin wall Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.44	56.24	2.97	2.21

## Spare parts kit - 1000 meters/3300'

3760 0159 59

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	Nut stover 3/4 10UNC SS NO	3760 0130 03
1	EX Detent Compression spring	3760 0153 94	4	Bearing thrust	3760 0064 61
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	NO Spindle bearing	3760 0062 38
2	Spiral pin 7/16 x 1	3760 0043 48	2	1/4 Grease fitting	0544 1100 23
4	Spring pin - 5/16 x 1 LG	3760 0156 94	20	NTW Core lifter	3760 0009 29
2	Split roll pin 5/16 x 2 LG	0108 1691 89	4	NTW Core lifter case	3760 0009 28
2	Spring pin - 1/4 x 2 LG	3760 0108 91	2	NTW Landing ring	3760 0162 21
2	NO EX Compression spring	3760 0134 74	2	NTW Inner tube stabilizer	3760 0162 23
2	NO/NOU EX Latch	3760 0162 17	1	NO/NOU EX Latch piston	3760 0134 75
1	NO Compression spring	3760 0064 63	2	Landing indicator bushing	3760 0121 00
1	NTW Landing shoulder 3 PLB	3760 0162 13	1	22 mm Stainless steel ball	3760 0120 99
1	HHCS 3/8 - 16 UNC x 1 1/4 LG	3760 0134 77	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	Bearing hanger	3760 0064 62	4	NO Shut off valve	3760 0152 86

## Safety overshoot spare parts kit - 1000 meters/3300'

3760 0162 72

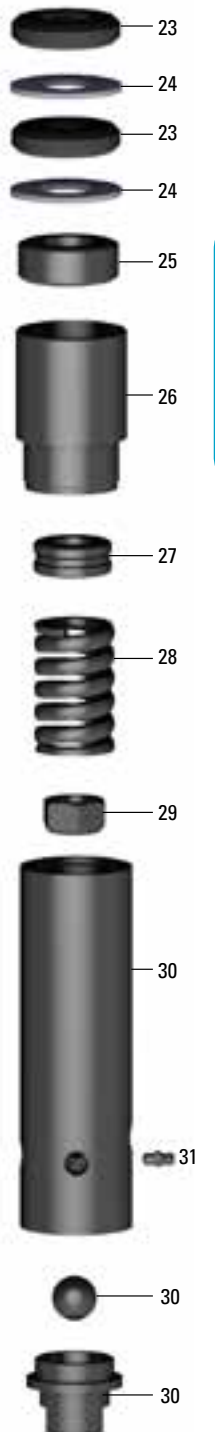
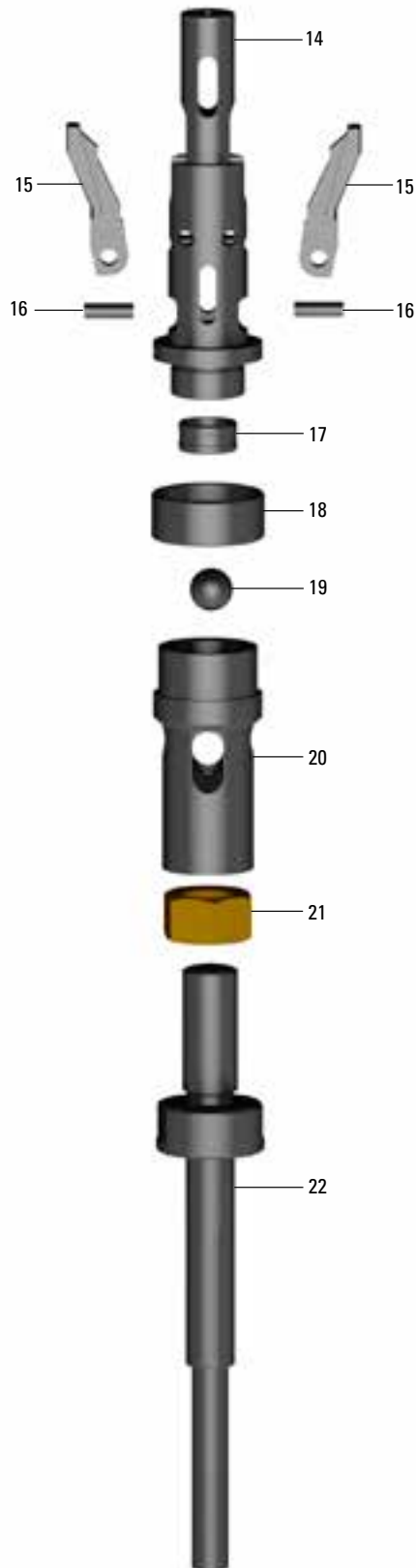
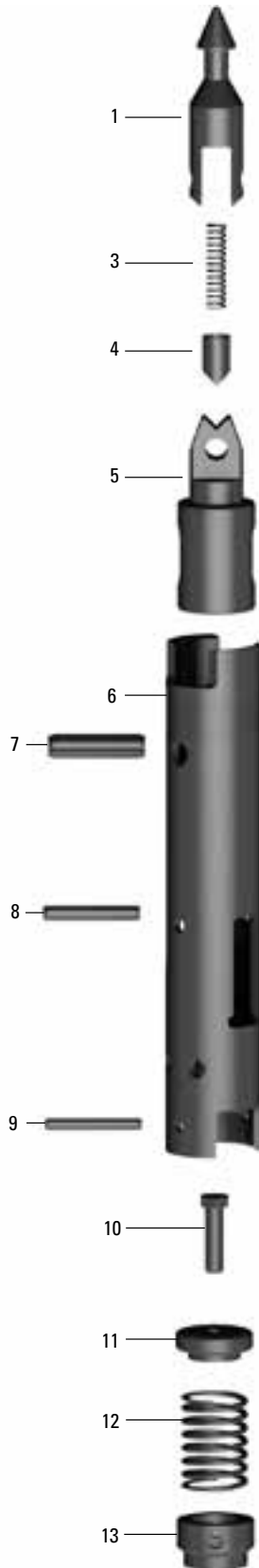
Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2

Excore

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0162 09	1	9.300	20.502
1	BO/NO/HO EX Spearhead	3760 0153 93	1	0.140	0.418
2	Spiral Pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	B,N.H EX Detent Compres Spring	3760 0153 94	1	0.230	0.507
4	BO/NO/HO EX Detent Plunger	3760 0153 95	1	0.010	0.022
5	NO/NOU EX Spear Head Base	3760 0153 96	1	0.446	1.232
6	NO NOU EX Latch Retract Case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2 LG	0108 1691 80	1	0.030	0.066
8	Spring pin 5/16 x 2 LG	0108 1691 89	1	0.030	0.066
9	Spring pin - 1/4 x 2 LG	5530 8326 00	1	0.030	0.066
10	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	1	0.023	0.050
11	NO NOU EX Spring Guide	3760 0134 76	1	0.113	0.249
12	NO EX Compression spring	3760 0134 74	1	0.023	0.050
13	NO NOU EX Latch Piston	3760 0134 75	1	1.021	2.250
14	NO Compact EX Upper Latch Body	3760 0134 72	1	1.315	2.899
15	NTW EX Latch	3760 0162 17	2	0.091	0.200
16	Spring pin 5/16 x 1 LG	3760 0156 94	2	0.020	0.044
17	Landing Indicator Bushing	3760 0121 00	1	0.023	0.050
18	NTW EX Landing Shoulder	3760 0162 13	1	0.100	0.220
19	22 mm Stainless Steel Ball	3760 0120 99	1	0.045	0.099
20	NO NOU EX Lower Latch Body	3760 0134 73	1	1.021	2.250
21	NO Locknut 1 1/8 7 UNC	0268 4138 24	1	0.170	0.374
22	NO Spindle	3760 0062 35	1	1.360	2.998
23	NTW Shut-Off Valve	3760 0152 86	2	0.020	0.044
24	NO Valve Adjusting Washer	3760 0062 37	2	0.050	0.110
25	Bearing Thrust	3760 0064 61	1	0.170	0.374
26	NO Spindle Bearing	3760 0062 38	1	0.770	1.697
27	Bearing Hanger	3760 0064 62	1	0.090	0.198
28	NO Compression spring	3760 0064 63	1	0.230	0.507
29	Nut Stover 3/4 10UNC SS NO	3760 0130 03	1	0.050	0.110
30	NTW EX Inner tube Cap Assy (includes Grease fitting)	3760 0161 15	1	1.610	3.549
31	Grease fitting	0544 1100 23	1	0.001	0.002

# COMPACT HEAD ASSEMBLY

**NTW  
EX**



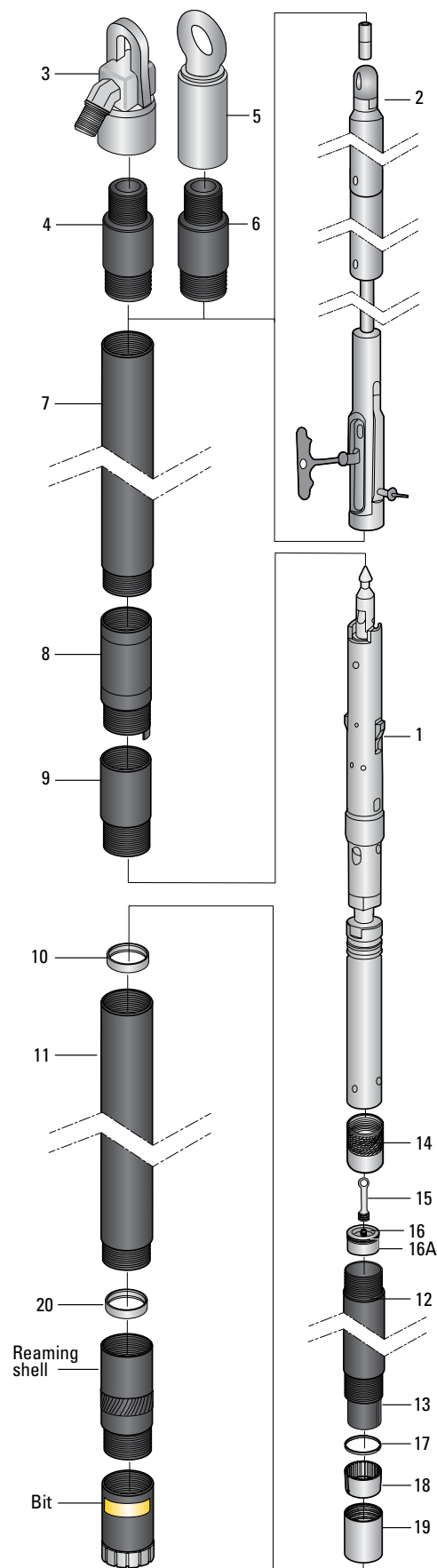
Excore

## Triple tube Core barrel

Surface

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number <i>N03-EX</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0159 46
	3.0 m / 10 ft Core barrel assembly complete	3760 0159 45
	1.5 m / 5 ft inner tube assembly complete	3760 0159 47
	3.0 m / 10 ft inner tube assembly complete	3760 0159 44
1	Head assembly complete (p.?)	3760 0134 52
Overshot *Page 74 for complete EX II Safety overshot assembly		
2	Overshot assembly complete (p.74)	3760 0162 78
2	Dry hole kit	3760 0162 58
Water swivel*		
3	25000 TC Water swivel, BW rod box	3760 0003 76
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0060 22
Hoisting plug		
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10
6	Hoisting plug adapter	3760 0158 09
Drill rods		
7	1.5 m drill rod	3760 0012 54
7	3.0 m drill rod	3760 0012 55
7	5 ft drill rod	3760 0012 52
7	10 ft drill rod	3760 0012 53
Consumables/Accessories		
8	Locking coupling - Full hole	3760 0060 26
9	Adapter coupling	3760 0060 28
10	Landing ring	3760 0062 43
11	1.5 m / 5 ft outer tube	3760 0048 37
11	3.0 m / 10 ft outer tube	3760 0048 39
12	1.5 m / 5 m inner tube	3760 0048 35
12	3.0 m / 10 ft inner tube	3760 0048 36
13	1.5 m / 5 m Split inner tube	3760 0060 76
13	3.0 m / 10 ft Split inner tube	3760 0082 94
14	Adapter	3760 0062 93
15	Piston plug	3760 0062 83
16	Piston	3760 0062 94
16A	O-ring	0663 9196 00
17	Stop ring	3760 0062 85
18	Core lifter	3760 0062 86
19	Core lifter case	3760 0062 87
20	Inner tube stabilizer	3760 0062 44
Full grip wrenches		
Inner tube wrench		3760 0060 31
Outer tube wrench		3760 0060 32
Spare parts kit 760 0156 02		

\*See optional Swivels and Adapters in Accessories section starting on page 132.



# COMPACT CORE BARREL SYSTEM

# N3 EX

## Triple tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	45.0	2.98	1.78

## NO-EX to NO3-EX Conversion kits

1.5/5 ft NO-EX to NO3-EX Conversion kit complete	3760 0047 29
3.0 m/10 ft NO-EX to NO3-EX Conversion kit complete	3760 0095 54
Conversion kit includes all parts needed to convert NO-EX inner tube assembly to NO3-EX inner tube assembly.	

## Spare parts kit - 1000 meters/3300'

3760 0156 02

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	Nut stover 3/4 10UNC SS NO	3760 0130 03
1	EX Detent Compression spring	3760 0153 94	4	Bearing thrust	3760 0064 61
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	NO Spindle bearing	3760 0062 38
2	Spring pin 7/16 x 1	3760 0043 48	2	1/4 Grease fitting	0544 1100 23
2	Spring pin - 1/2 x 2 LG	0108 1691 80	4	NO3 Stop ring	3760 0062 85
4	Spring pin - 5/16 x 1 LG	3760 0156 94	20	NO3 Core lifter - Fluted	3760 0062 86
2	Spring pin 5/16 x 2 LG	0108 1691 89	4	NO3 Core lifter case	3760 0062 87
2	Spring pin - 1/4 x 2 LG	3760 0108 91	2	NO Landing ring	3760 0062 43
2	NO/NOU EX Compression spring	3760 0134 74	2	NO Inner tube stabilizer	3760 0062 44
2	NO/NOU EX Latch	3760 0134 71	1	NO/NOU EX Latch piston	3760 0134 75
1	NO Compression spring	3760 0064 63	2	Landing indicator bushing	3760 0121 00
1	NO Landing shoulder 3 PLB	3760 0051 00	1	22 mm Stainless steel ball	3760 0120 99
1	B/N/H EX Bolt hexagon 3/8-16 x 1 1/4	3760 0134 77	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	Bearing hanger	3760 0064 62	4	NO Shut off valve	3760 0062 36

## Safety overshoot spare parts kit - 1000 meters/3300' 3760 0162 72

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0162 69	HO EX Adapter sleeve	N/A
0108 1691 84	Spring pin 3/16 x 3/4 LG	N/A

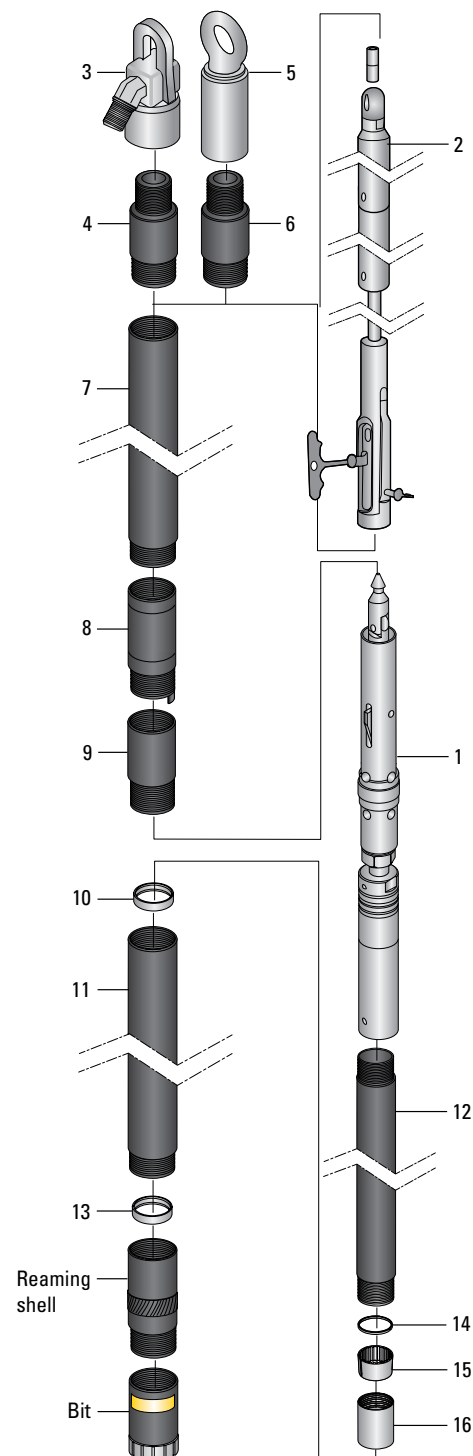
Excure

## Flexo Double tube Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>O</i>	<i>T</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0051 52	3760 0060 19
	3.0 m / 10 ft Core barrel assembly complete	3760 0051 53	3760 0060 20
	1.5 m / 5 ft inner tube assembly complete	3760 0053 01	
	3.0 m / 10 ft inner tube assembly complete	3760 0060 21	
1	Head assembly complete (p.70)	3760 0051 60	
Overshot			
2	Overshot assembly complete (p.78)	3760 0162 78	
Water swivel*			
3	5000 TC Water swivel, AW rod pin	3760 0036 27	
4	Drill rod adapter AW rod box to W/L rod pin	3760 0081 08	3760 0081 05
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0158 09	3760 0158 05
Drill rods			
7	0.6 m drill rod	3760 0034 40	3760 0012 29
7	1.5 m drill rod	3760 0012 54	3760 0012 30
7	3.0 m drill rod	3760 0012 55	3760 0012 31
7	2 ft drill rod	3760 0034 41	3760 0012 26
7	5 ft drill rod	3760 0012 52	3760 0012 27
7	10 ft drill rod	3760 0012 53	3760 0012 28
Consumables/Accessories			
8	Locking coupling - Tanged	3760 0060 26	3760 0060 27
9	Adapter coupling	3760 0060 28	
10	Landing ring	3760 0062 43	
11	1.5 m / 5 ft outer tube	3760 0048 37	
11	3.0 m / 10 ft outer tube	3760 0048 39	
12	1.5 m / 5 m inner tube	3760 0048 35	
12	3.0 m / 10 ft inner tube	3760 0048 36	
13	Inner tube stabilizer	3760 0062 44	
14	Stop ring	3760 0062 40	
15	Core lifer	3760 0062 41	
16	Core lifter case	3760 0062 42	
Full grip wrenches			
Inner tube wrench		3760 0060 31	
Outer tube wrench		3760 0060 32	
Spare parts kit 760 0060 29			

\*See optional Swivels and Adapters in Accessories section starting on page 132.





## Flexo Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	47.6	2.98	1.88

## Spare parts kit - 1000 meter/3300'

3760 0060 29

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	2	Thrust bearing	3760 0064 61
1	Compression spring	3760 0153 94	2	Hanger bearing	3760 0064 62
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 38
2	Spiral pin 7/16 x 1	3760 0043 48	1	Nut stover 3/4 10UNC SS	3760 0130 03
4	Spring pin 1/4 x 1 1/2 LG	0108 1691 35	1	Ball 7/8 DIA SS	0517 1100 25
4	Latch spring	3760 0062 32	2	Grease fitting	0544 1100 23
4	Latch	3760 0062 33	4	Stop ring (If required)	3760 0062 40
2	Spring pin 1/2 x 2 LG	0108 1691 80	20	Core lifter	3760 0062 41
1	Landing shoulder	3760 0051 00	4	Core lifter case	3760 0062 42
1	Lock nut 1 1/8 7UNC	0268 4138 24	2	Landing ring	3760 0062 43
4	Shut-off valve	3760 0062 36	2	Inner tube stabilizer	3760 0062 44
4	Spring pin 1/2 x 1 1/2 LG	0108 1691 43			

## Safety overshoot spare parts kit - 1000 meters/3300'

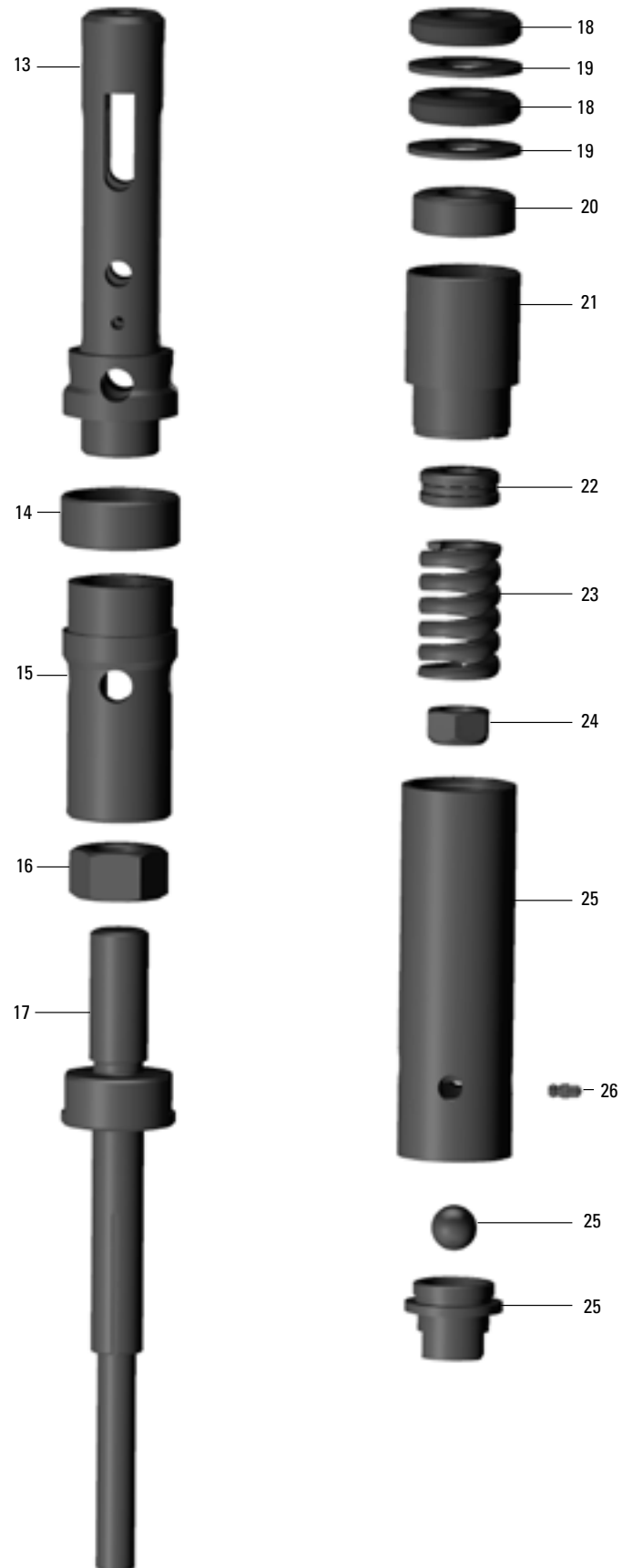
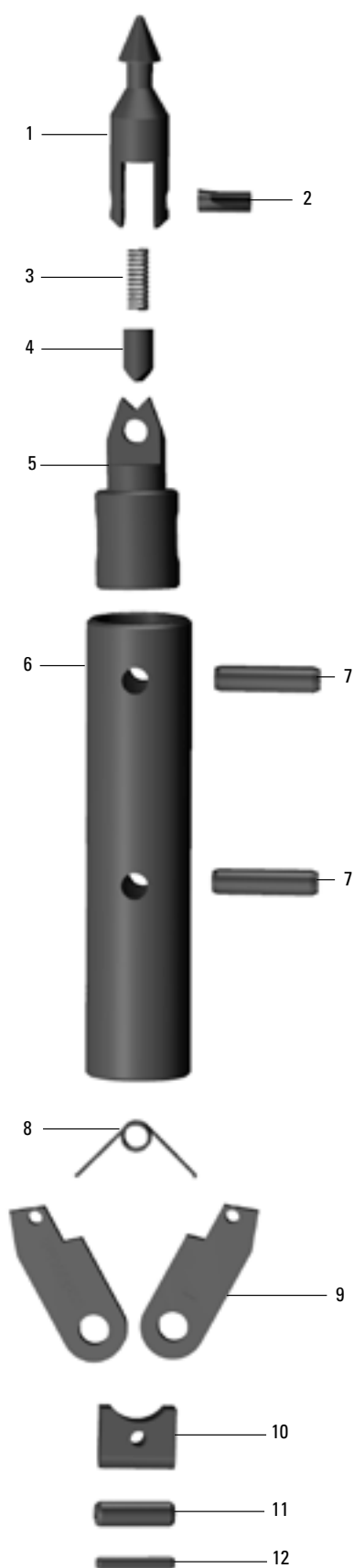
3760 0162 72

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2

Item	Description	Part number	Qty
	Head assembly complete	3760 0051 60	1
1	Spearhead	3760 0153 93	1
2	Spring pin	3760 0043 48	1
3	Compression spring	3760 0153 94	1
4	Detent	3760 0044 30	1
5	Spearhead base	3760 0153 96	1
6	Latch retracting case	3760 0066 73	1
7	Spring pin 1/2 x 2	0108 1691 80	2
8	Latch spring	3760 0062 32	1
9	Latch	3760 0062 33	2
10	Latch support	3760 0062 34	1
11	Spring pin 1/2 x 1 1/2	0108 1691 43	1
12	Spring pin 1/4 x 1 1/2	0108 1691 35	1
13	Upper latch body	3760 0050 99	1
14	Landing shoulder	3760 0051 00	1
15	Lower latch body	3760 0134 73	1
16	Lock nut	0268 4138 24	1
17	Spindle	3760 0062 35	1
18	Shut-off valve	3760 0062 36	2
19	Valve adjusting washer	3760 0062 37	2
20	Thrust bearing	3760 0064 61	1
21	Spindle bearing	3760 0062 38	1
22	Hanger bearing	3760 0064 62	1
23	Compression spring	3760 0064 63	1
24	Lock nut 3/4	0292 1338 07	1
25	Inner tube cap assembly	3760 0062 39	1
26	Grease fitting	0544 1100 23	1

# HEAD ASSEMBLY

**N**  
**O-SERIES**



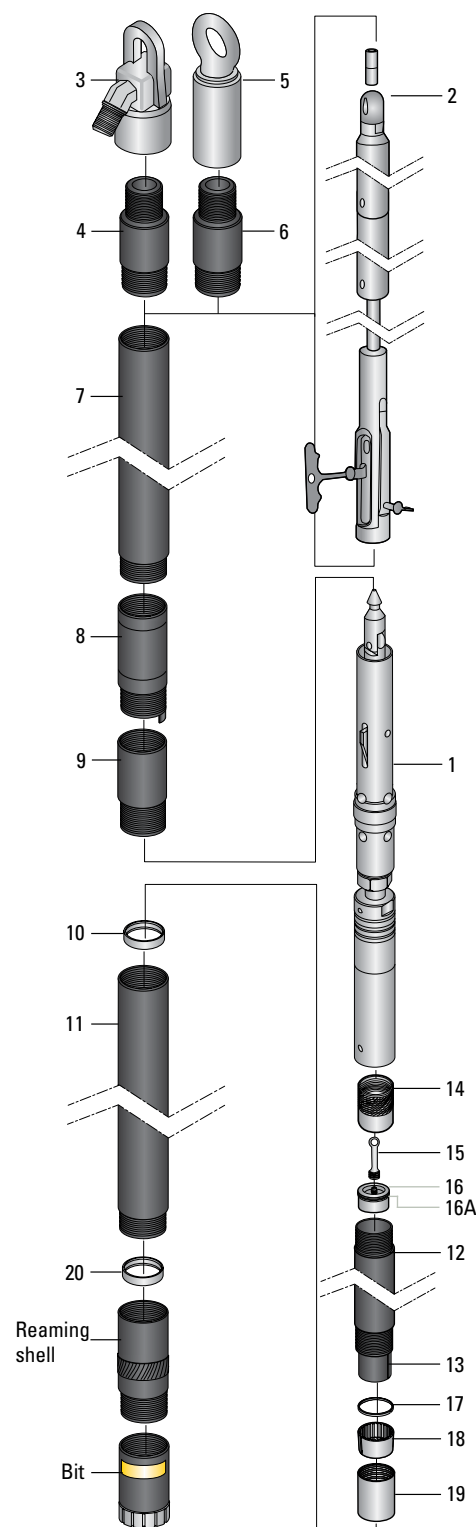
O Series

## Flexo Triple tube Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>O</i>	<i>T</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0060 70	3760 0060 71
	3.0 m / 10 ft Core barrel assembly complete	3760 0060 72	3760 0060 73
	1.5 m / 5 ft inner tube assembly complete	3760 0060 74	
	3.0 m / 10 ft inner tube assembly complete	3760 0060 75	
1	Head assembly complete	3760 0051 60	
Overshot			
2	Overshot assembly complete (p.78)	3760 0162 78	
Water swivel*			
3	5000 TC Water swivel, AW rod box	3760 0036 27	
4	Drill rod adapter AW rod pin to W/L rod pin	3760 0081 08	3760 0081 05
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0158 09	3760 0158 05
Drill rods			
7	0.6 m drill rod	3760 0034 40	3760 0012 29
7	1.5 m drill rod	3760 0012 54	3760 0012 30
7	3.0 m drill rod	3760 0012 55	3760 0012 31
7	2 ft drill rod	3760 0034 41	3760 0012 26
7	5 ft drill rod	3760 0012 52	3760 0012 27
7	10 ft drill rod	3760 0012 53	3760 0012 28
Consumables/Accessories			
8	Locking coupling - Tanged	3760 0060 26	3760 0060 27
9	Adapter coupling	3760 0060 28	
10	Landing ring	3760 0062 43	
11	1.5 m / 5 ft outer tube	3760 0048 37	
11	3.0 m / 10 ft outer tube	3760 0048 39	
12	1.5 m / 5 ft inner tube	3760 0048 35	
12	3.0 m / 10 ft inner tube	3760 0048 36	
13	1.5 m / 5 ft Split inner tube	3760 0060 76	
13	3.0 m / 10 ft Split inner tube	3760 0082 94	
14	Adapter	3760 0062 93	
15	Piston plug	3760 0062 83	
16	Piston	3760 0062 94	
16A	O-ring	0663 9196 00	
17	Stop ring	3760 0062 85	
18	Core lifer	3760 0062 86	
19	Core lifter case	3760 0062 87	
20	Inner tube stabilizer	3760 0062 44	
Full grip wrenches			
Inner tube wrench		3760 0060 31	
Outer tube wrench		3760 0060 32	
Spare parts kit 760 0060 78			

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Flexo Triple tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	45.0	2.98	1.78

## Spare parts kit - 1000 meters/3300'

3760 0060 78

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	2	Thrust bearing	3760 0064 61
1	Compression spring	3760 0153 94	2	Hanger bearing	3760 0064 62
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 38
2	Spiral pin 7/16 x 1	3760 0043 48	1	Lock nut nylon 3/4 10NC	0292 1338 07
4	Spring pin 1/2 x 1 1/2 LG	0108 1691 43	1	Ball 7/8 DIA SS	0517 1100 25
4	Latch spring	3760 0062 32	2	Grease fitting	0544 1100 23
4	Latch	3760 0062 33	4	Stop ring (If required)	3760 0062 85
4	Spring pin 1/4 x 1 1/2 LG	0108 1691 35	20	Core lifter	3760 0062 86
1	Landing shoulder	3760 0051 00	4	Core lifter case	3760 0062 87
1	Lock nut 1 1/8 7UNC	0268 4138 24	2	Landing ring	3760 0062 43
4	Shut-off valve	3760 0062 36	2	Inner tube stabilizer	3760 0062 44
2	Spring pin 1/2 x 2 LG	0108 1691 80			

## Safety overshot spare parts kit - 1000 meters/3300'

3760 0162 72

Part Number	Description	NO-EX
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2

This N EX overshoot assembly is for all surface EX, O-Series and NTW systems

Overshoot assembly complete			
Item	Qty	Description	Part number
			NO-EX / NTW-EX / NO2-EX
		ExCore EX II Overshoot assembly	3760 0162 78
1-5	1	EX II Cable swivel assembly	3760 0162 62
13-23	1	EX II Overshoot Head assembly	3760 0162 48
1	2	3/16 Nicopress sleeve oval	3760 0082 44
2	1	EX II Eye bolt	3760 0162 65
3	1	NO / HO EX Cable swivel collar	3760 0072 16
4	1	Bearing	3760 0064 67
5	2	Nut 1/2 20 UNF GR8	3760 0123 31
6	1	Grease fitting	0544 1100 23
7	1	EX II Sinking bar body	3760 0063 84
8	1	EX II Jar tube	3760 0156 60
9	1	Locking sleeve	3760 0063 81
10	1	NO EX Jar staff	3760 0156 63
11	1	NO / HO EX II Lifting dog spring	3760 0063 73
12	1	Spring pin 1/4 x 1 3/4	0108 1691 87
13	1	NO EX-II Safety overshoot head	3760 0162 44
14	1	Pivot pin retainer	3760 0162 46
15	1	Retaining ring	3760 0157 89
16	1	EX-II Pivot pin	3760 0162 49
17	2	EX-II Lifting dog	3760 0162 45
18	1	EX-II Safety pin	3760 0162 47
19	1	Set screw 3/8 24 x 5/8	3760 0070 85
20	1	Safety overshoot release tool	3760 0162 30
21	1	Nut 3/4-10	5530 6164 00
22	1	HO EX II Overshoot Adapter sleeve	N/A
23	4	Roll pin 3/16 x 3/4 LG	N/A

## Dry hole overshoot kit

Dry hole overshoot kit *Not sold separately			
Item	Qty	Description	Part number
		NO EX II Dry hole overshoot kit	3760 0162 58
2	2	Spring pin 1/4 x 1/2 LG	3760 0162 57



## Optional equipment

Reducing Adapter - Overshoot length		
Qty	Description	Part number
	N/H - EX Overshoot sinking bar body/ Overshoot head adapter	3760 0159 35
ExCore EX II Safety Overshoot retrofit adapter kit		
	EX II Overshoot Head assembly	3760 0162 48
1	NO EX/HO EX Overshoot pin jar staff adapters	3760 0157 82
2	Spring pin 1/4 x 1 1/2 LG	0108 1691 35

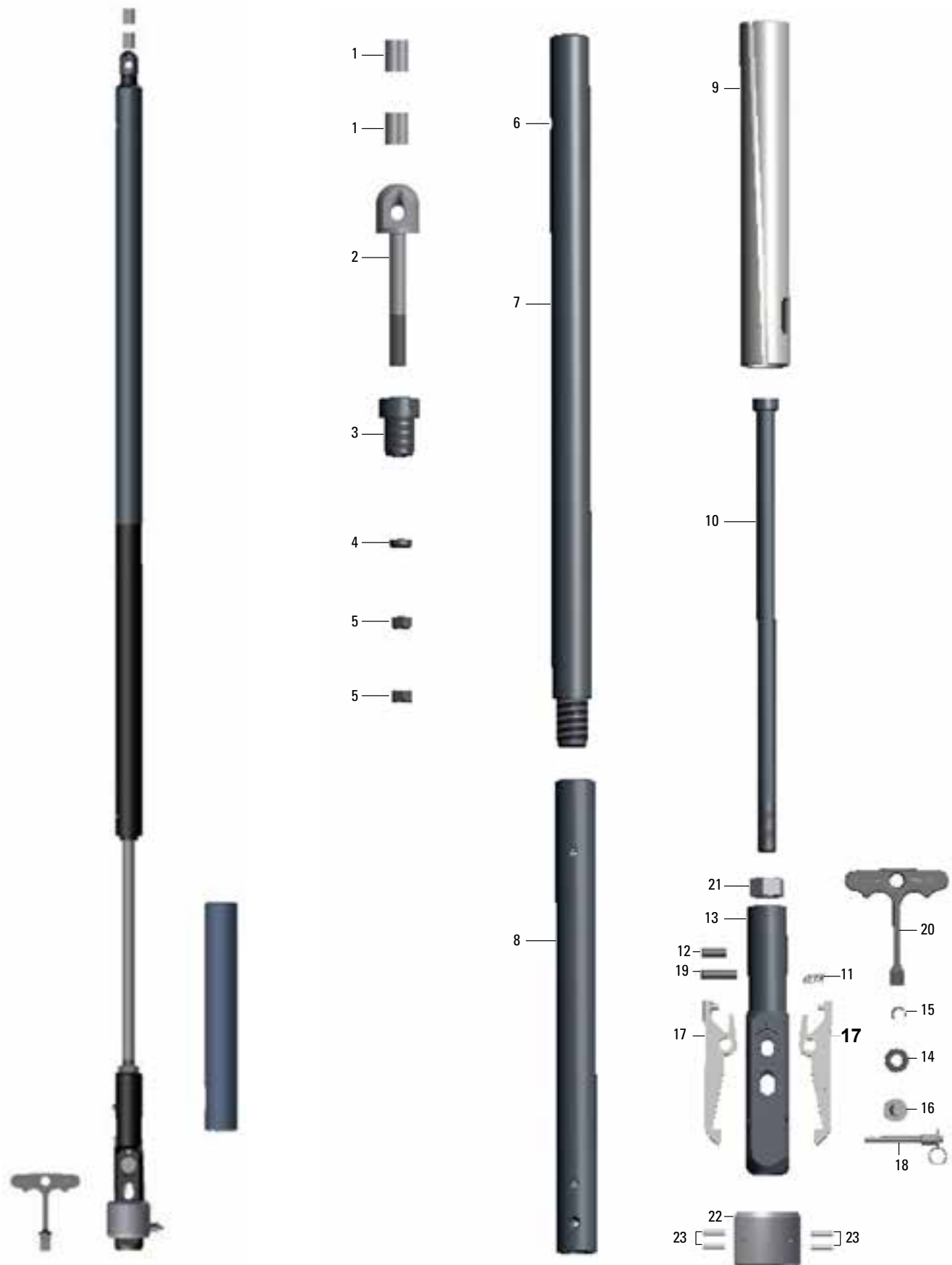
\*For using with pin jar staff.

This retrofit will allow you to use the EX II safety overshoot and some of the safety benefit , but not all the lifting capacity you would get from a complete EXII assembly.



# EX II SAFETY OVERTSHOT ASSEMBLY

N



Excore

## Double tube Core barrel

Underground

### Core barrels

Item	Description <i>Drill rod connection</i>	Part number		
		NOU-EX	NTU-EX	NMOU-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0160 33	3760 0160 37	3760 0160 35
	3.0 m / 10 ft Core barrel assembly complete	3760 0160 34	3760 0160 38	3760 0160 36
	1.5 m / 5 ft inner tube assembly complete		3760 0160 31	
	3.0 m / 10 ft inner tube assembly complete		3760 0160 32	
1	Head assembly complete (p.82)		3760 0160 30	

### Overshot

2	Overshot assembly complete (p.88)		3760 0162 79	
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### Water swivel\*

3	18/0 Water swivel complete	3760 0006 98	3760 0005 64	3760 0153 09
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### Stuffing box

4	Stuffing box		8393 0819 65	
5	Drill rod adapter/Dimension kit	8393 0819 88	3760 0151 15	3760 0157 52

### Drill rods

6	1.5 m drill rod	3760001254	3760 0012 30	3760 0152 11
6	3.0 m drill rod	3760001255	3760 0012 31	3760 0152 07
6	5 ft drill rod	3760001252	3760 0012 27	3760 0152 14
6	10 ft drill rod	3760001253	3760 0012 28	3760 0103 36

### Consumables/Accessories

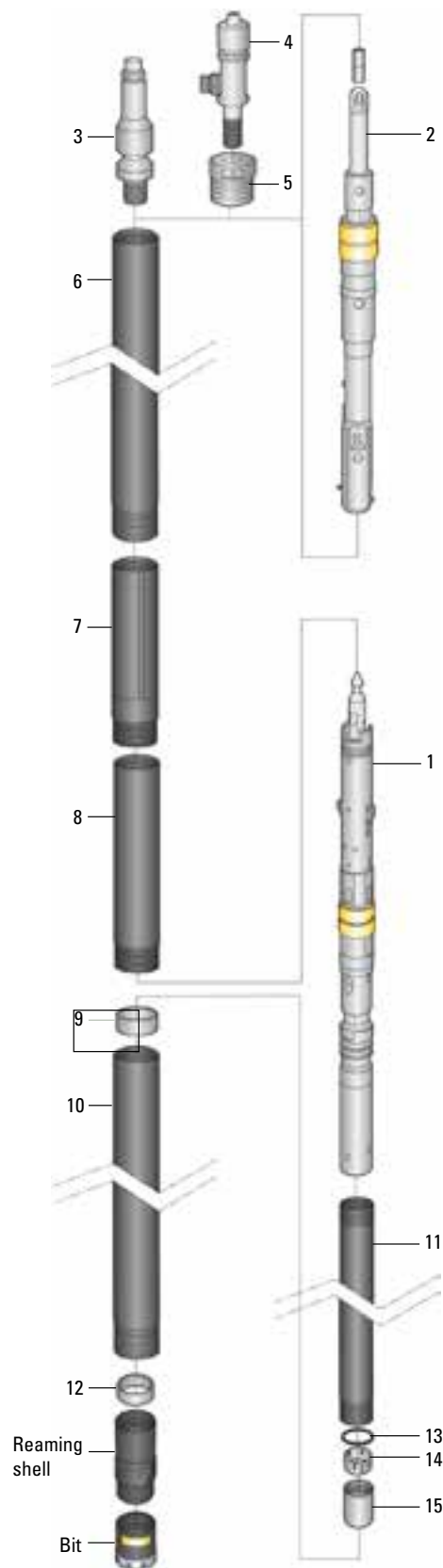
7	Locking coupling - Full hole	3760 0156 68	3760 0156 69	3760 0157 08
8	Adapter coupling - Long		3760 0156 70	
9	Landing ring		3760 0062 43	
10	1.5 m / 5 ft outer tube		3760 0048 37	
10	3.0 m / 10 ft outer tube		3760 0048 39	
11	1.5 m / 5 m inner tube		3760 0048 35	
11	3.0 m / 10 ft inner tube		3760 0048 36	
12	Inner tube stabilizer		3760 0062 44	
13	Stop ring		3760 0062 40	
14	Core lifter		3760 0062 41	
15	Core lifter case		3760 0062 42	

### Full grip wrenches

	Inner tube wrench		3760 0060 31	
	Outer tube wrench		3760 0060 32	

### Spare parts kit 760 0156 09

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	47.6	2.98	1.88

## Spare parts kit - 1000 meters/3300'

3760 0156 09

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	4	Bearing thrust	3760 0064 61
1	EX Detent Compression spring	3760 0153 94	1	NO Spindle bearing	3760 0062 38
2	BO/NO/HO EX Detent plunger	3760 0153 95	2	1/4 Grease fitting	0544 1100 23
2	Spring pin 7/16 x 1	3760 0043 48	4	NO Stop ring	3760 0062 40
2	Spring pin - 1/2 x 2 LG	0108 1691 80	20	NO Core lifter	3760 0062 41
4	Spring pin - 5/16 x 1 LG	3760 0156 94	4	NO Core lifter case	3760 0062 42
2	Spring pin 5/16 x 2 LG	0108 1691 89	2	NO Landing ring	3760 0062 43
2	Spring pin - 1/4 Xx 2 LG	5530 8326 00	2	NO Inner tube stabilizer	3760 0062 44
2	NO EX Compression spring HD	3760 0145 04	1	NO/NOU EX Latch piston	3760 0134 75
2	NO/NOU EX Latch	3760 0134 71	2	Landing indicator bushing	3760 0121 00
1	NO Compression spring	3760 0064 63	1	22 mm Stainless steel ball	3760 0120 99
1	NO Landing shoulder 3 PLB	3760 0051 00	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	HHCS 1 3/8-16UNC x 1 1/4 LG	3760 0134 77	4	NO Shut off valve	3760 0062 36
1	Bearing hanger	3760 0064 62	4	NOU EX Pump-in lip seal	3760 0158 31
1	Nut stover 3/4 10UNC SS NO	3760 0130 03			

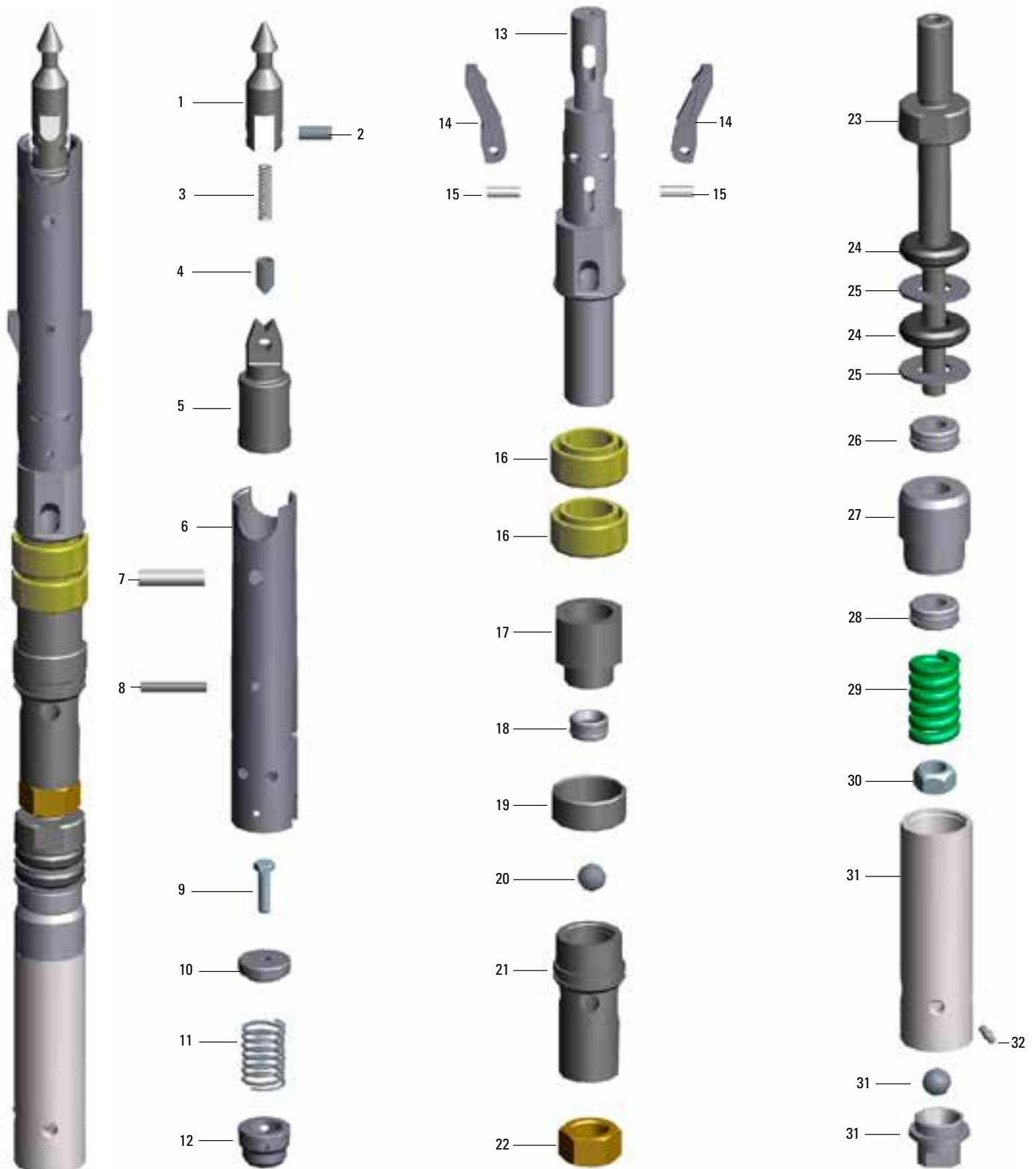
## EXII-U Safety overshot spare parts kit - 1000 meters/3300'

3760 0162 73

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0064 67	Bearing	1
3760 0123 31	Nut Hex 1/2 20	2
0544 1100 23	1/4 Grease fitting	2
3760 0064 12	BOU NOU Lock nut	1
3760 0158 31	NOU EX Pump in lip seal	4
3760 0063 73	BO NO HO Lifting dog spring	4
3760 0120 99	22 mm Stainless steel ball	1
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	2
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	2
3760 0157 89	NO HO Retaining ring safe over	3
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0121 00	Landing indicator bushing	4

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0160 30	1	9.300	20.502
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Detent Compression spring	3760 0153 94	1	0.051	0.112
4	Detent plunger	3760 0153 95	1	0.150	0.330
5	Spearhead base	3760 0153 96	1	0.350	0.771
6	Latch retracting case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2 LG	0108 1691 80	1	0.018	0.039
8	Spring pin 5/16 x 2 LG	3760 0151 26	1	0.030	0.066
9	HHCS 3/8-16	3760 0134 77	1	0.023	0.050
10	NO NOU EX Spring guide	3760 0134 76	1	0.113	0.249
11	Compression spring HD	3760 0145 04	1	0.023	0.050
12	Latch piston	3760 0134 75	1	0.113	0.249
13	Upper latch body	3760 0158 82	1	2.230	4.916
14	Latch	3760 0134 71	2	0.091	0.200
15	Spring pin 5/16 x 1 LG	3760 0156 94	2	0.009	0.019
16	Pump-in lip seal	3760 0158 31*	2	0.410	0.903
17	Latch body coupler	3760 0158 83	1	0.520	1.146
18	Landing indicator bushing	3760 0121 00	1	0.023	0.050
19	Landing shoulder	3760 0051 00	1	0.100	0.220
20	Ball S.S - x 22 mm DIA	3760 0120 99	1	0.045	0.099
21	Lower latch body	3760 0134 73	1	1.021	2.250
22	Lock nut 1 1/8 7 UNC	0268 4138 24	1	0.008	0.017
23	Spindle	3760 0062 35	1	1.360	2.998
24	Shut off valve - Black	3760 0062 36	2	0.020	0.044
25	Valve adjusting washer	3760 0062 37	2	0.050	0.110
26	Thrust bearing	3760 0064 61	1	0.170	0.374
27	Spindle bearing housing	3760 0062 38	1	0.770	1.697
28	Hanger bearing	3760 0064 62	1	0.090	0.198
29	Compression spring	3760 0064 63	1	0.230	0.507
30	Lock nut stover 3/4 10 UNC SS Stover	3760 0130 03	1	0.050	0.110
31	Inner tube cap assembly (includes Grease fitting)	3760 0062 39	1	1.610	3.549
32	Grease fitting	0544 1100 23	1	0.001	0.002

# HEAD ASSEMBLY



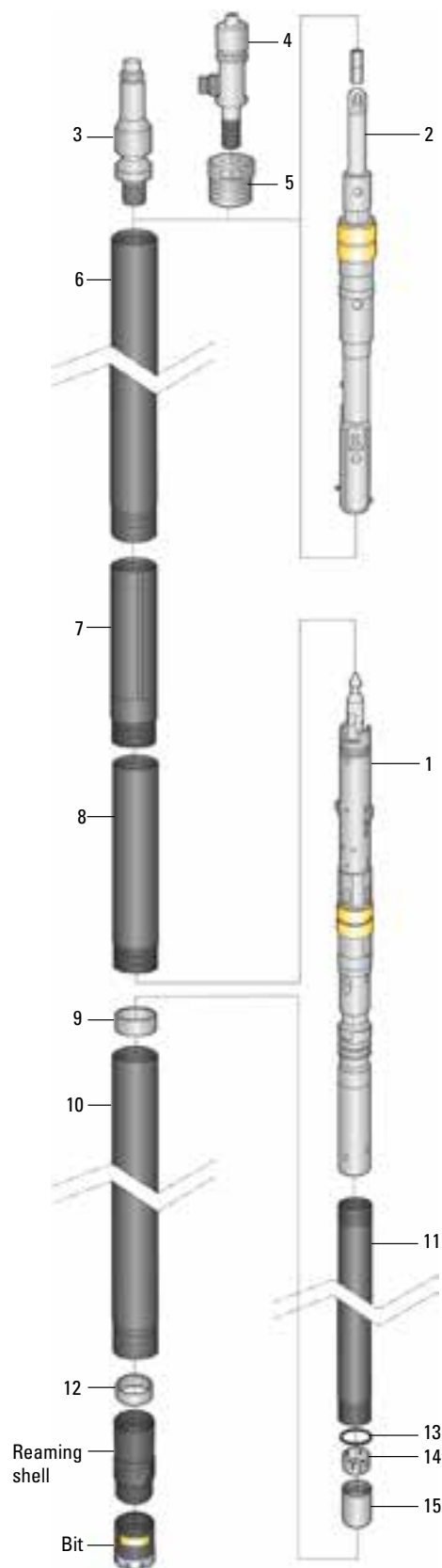
Excure

## Double tube Core barrel

Underground

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number
		N02U-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0160 78
	3.0 m / 10 ft Core barrel assembly complete	3760 0160 79
	1.5 m / 5 ft inner tube assembly complete	3760 0160 76
	3.0 m / 10 ft inner tube assembly complete	3760 0160 77
1	Head assembly complete (p.82)	3760 0160 75
Overshot		
2	Overshot assembly complete (p.88)	3760 0162 79
Water swivel*		
3	18/0 Water swivel complete	3760 0006 98
Stuffing box		
4	Stuffing box	8393 0819 65
5	Drill rod adapter/Dimension kit	8393 0819 88
Drill rods		
6	1.5 m drill rod	3760 0012 54
6	3.0 m drill rod	3760 0012 55
6	5 ft drill rod	3760 0012 52
6	10 ft drill rod	3760 0012 53
Consumables/Accessories		
7	Locking coupling - Full hole	3760 0156 68
8	Adapter coupling - Long	3760 0156 70
9	Landing ring	3760 0063 29
10	1.5 m / 5 ft outer tube	3760 0048 37
10	3.0 m / 10 ft outer tube	3760 0048 39
11	1.5 m / 5 m inner tube	3760 0061 36
11	3.0 m / 10 ft inner tube	3760 0061 37
12	Inner tube stabilizer	3760 0083 17
13	Stop ring	3760 0063 26
14	Core lifter	3760 0063 27
15	Core lifter case	3760 0063 28
Full grip wrenches		
Inner tube wrench		3760 0005 68
Outer tube wrench		3760 0060 32
Spare parts kit 760 0156 01		

\*See optional Swivels and Adapters in Accessories section starting on page 132.





## Double tube Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.7	45.0	2.98	1.78

## Spare parts kit - 1000 meters/3300'

3760 0156 00

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	4	Bearing thrust	3760 0064 61
1	EX Detent Compression spring	3760 0153 94	1	NO Spindle bearing	3760 0062 38
2	BO/NO/HO EX Detent plunger	3760 0153 95	2	1/4 Grease fitting	0544 1100 23
2	Spring pin 7/16 x 1	3760 0043 48	4	NO2 Stop ring	3760 0063 26
2	Spring pin - 1/2 x 2 LG	0108 1691 80	20	NO2 Core lifter - Fluted	3760 0063 27
4	Spring pin - 5/16 x 1 LG	3760 0156 94	4	NO2 Core lifter case	3760 0063 28
2	Spring pin 5/16 x 2 LG	0108 1691 89	2	NO2 Landing ring	3760 0063 29
2	Spring pin - 1/4 x 2 LG	5530 8326 00	2	NO2 Inner tube stabilizer	3760 0083 17
2	NO/NOU EX Compression spring HD	3760 0145 04	1	NO/NOU EX Latch piston	3760 0134 75
2	NO/NOU EX Latch	3760 0134 71	2	Landing indicator bushing	3760 0121 00
1	NO Compression spring	3760 0064 63	1	22 mm Stainless steel ball	3760 0120 99
1	NO Landing shoulder 3 PLB	3760 0051 00	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	B/N/H EX Bolt hexagon 3/8-16	3760 0134 77	4	NO Shut off valve	3760 0062 36
1	Bearing hanger	3760 0064 62	4	NOU EX Pump-in lip seal	3760 0158 31
1	Nut stover 3/4 10UNC SS NO	3760 0130 03			

## EXII-U Safety overshot spare parts kit - 1000 meters/3300'

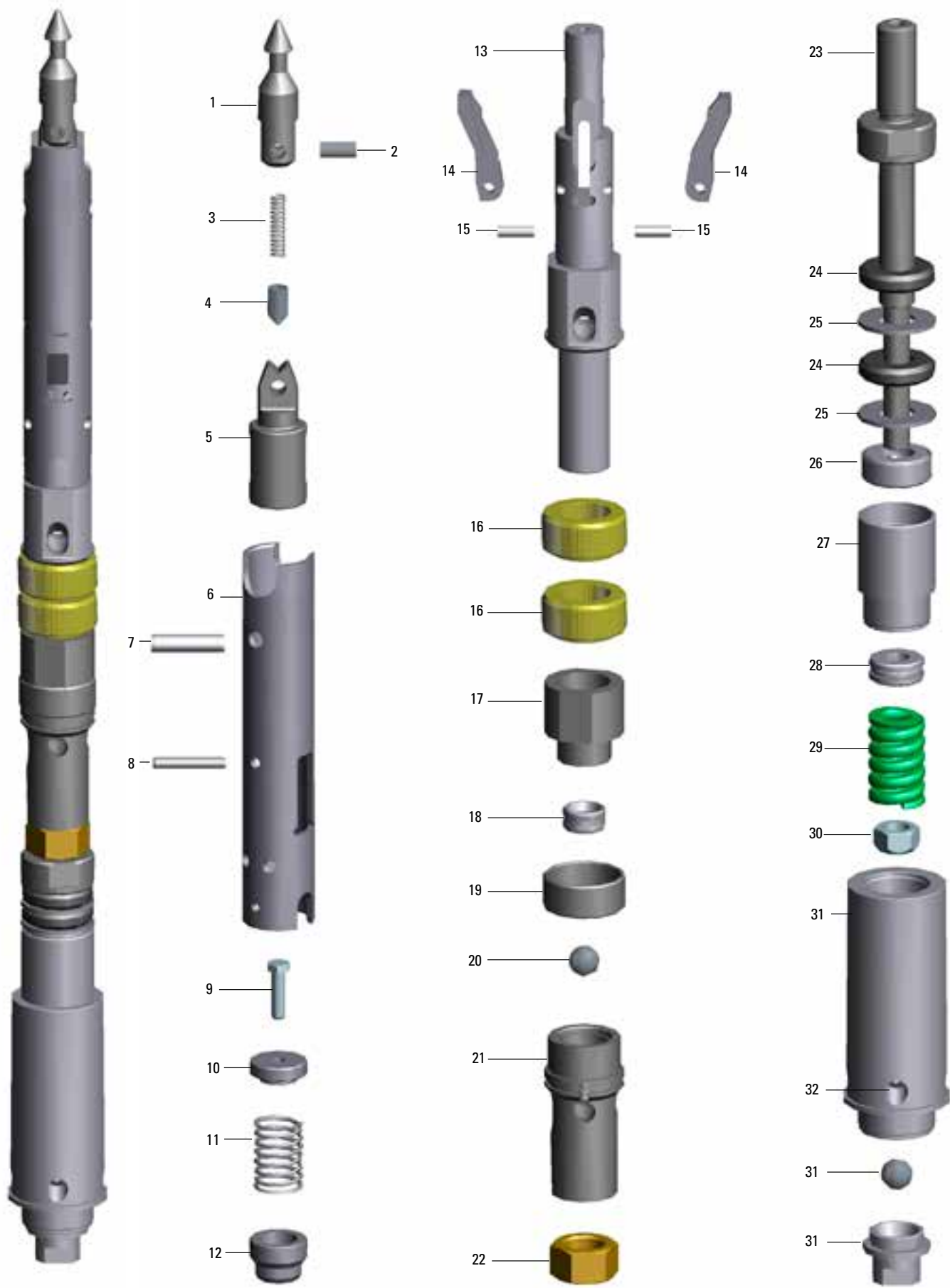
3760 0162 73

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0064 67	Bearing	1
3760 0123 31	Nut Hex 1/2 20	2
0544 1100 23	1/4 Grease fitting	2
3760 0064 12	BOU NOU Lock nut	1
3760 0158 31	NOU EX Pump in lip seal	4
3760 0063 73	BO NO HO Lifting dog spring	4
3760 0120 99	22 mm Stainless steel ball	1
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	2
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	2
3760 0157 89	NO HO Retaining ring safe over	3
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0121 00	Landing indicator bushing	4

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0160 75	1	9.300	20.502
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.051	0.112
4	Detent	3760 0153 95	1	0.150	0.330
5	Spearhead base	3760 0153 96	1	0.350	0.771
6	Latch retracting case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2 LG	0108 1691 80	1	0.018	0.039
8	Spring pin 5/16 x 2 LG	0108 1691 89	1	0.030	0.066
9	HHCS 3/8-16	3760 0134 77	1	0.023	0.050
10	Spring guide	3760 0134 76	1	0.113	0.249
11	Compression spring HD	3760 0145 04	1	0.023	0.050
12	Latch piston	3760 0134 75	1	0.113	0.249
13	Upper latch body	3760 0158 82	1	2.230	4.916
14	Latch	3760 0134 71	2	0.091	0.200
15	Spring pin 5/16 x 1	3760 0156 94	2	0.009	0.019
16	Pump-in lip seal	3760 0158 31*	2	0.410	0.903
17	Latch body coupler	3760 0158 83	1	0.520	1.146
18	Landing indicator bushing	3760 0121 00	1	0.023	0.050
19	Landing shoulder	3760 0052 41	1	0.100	0.220
20	Ball S.S - x 22 mm DIA	3760 0120 99	1	0.045	0.099
21	Lower latch body	3760 0134 73	1	1.021	2.250
22	Lock nut 1 1/8 7 UNC	0268 4138 24	1	0.008	0.017
23	Spindle	3760 0062 35	1	1.360	2.998
24	Shut off valve	3760 0062 36	2	0.020	0.044
25	Valve adjusting washer	3760 0062 37	2	0.050	0.110
26	Thrust bearing	3760 0064 61	1	0.170	0.374
27	Spindle bearing	3760 0062 38	1	0.770	1.697
28	Hanger bearing	3760 0064 62	1	0.090	0.198
29	Compression spring	3760 0064 63	1	0.230	0.507
30	Lock nut 3/4 10 UNC	3760 0130 03	1	0.050	0.110
31	Inner tube cap assembly includes Grease fitting)	3760 0063 25	1	1.610	3.549
32	Grease fitting	0544 1100 23	1	0.001	0.002

# HEAD ASSEMBLY

**N2**  
**U-EX**



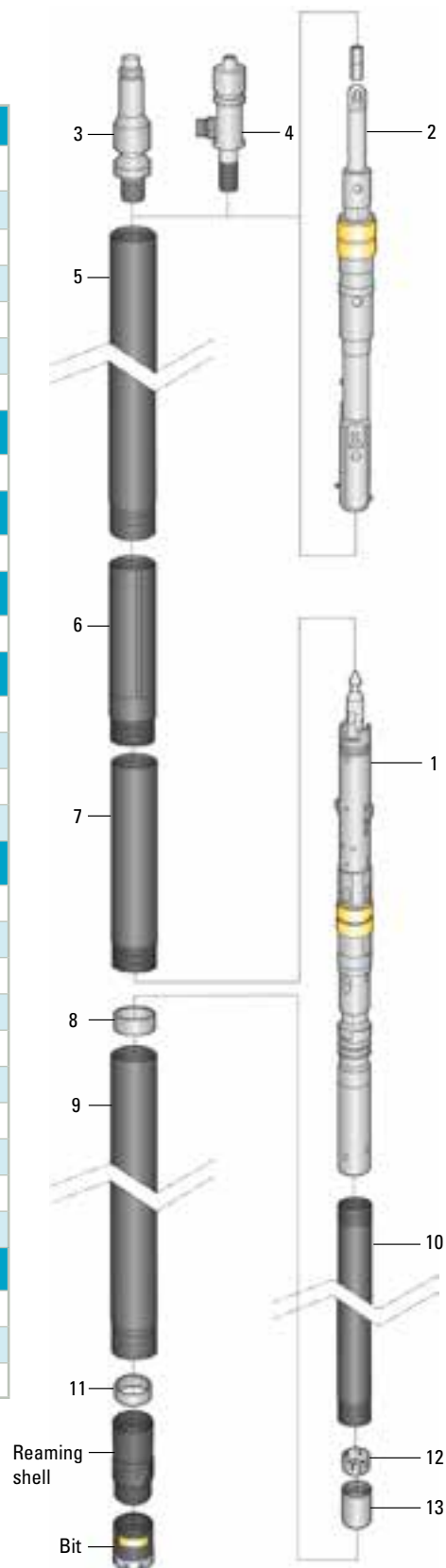
Excore

## Double tube Core barrel

Underground

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number
		NTWU-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0162 10
	3.0 m / 10 ft Core barrel assembly complete	3760 0162 27
	1.5 m / 5 ft inner tube assembly complete	3760 0162 55
	3.0 m / 10 ft inner tube assembly complete	3760 0162 56
1	Head assembly complete (p.90)	3760 0162 11
Overshot		
2	Overshot assembly complete (p.88)	3760 0162 79
Water swivel*		
3	18/0 Water swivel complete	3760 0172 76
Stuffing box		
4	Stuffing box	8393 0819 65
Drill rods		
5	1.5 m drill rod	3760 0056 35
5	3.0 m drill rod	3760 0056 36
5	5 ft drill rod	3760 0053 61
5	10 ft drill rod	3760 0053 62
Consumables/Accessories		
6	Locking coupling - Full hole	3760 0162 16
7	Adapter coupling - Long	3760 0162 15
8	Landing ring	3760 0162 21
9	1.5 m / 5 ft outer tube	3760 0162 19
9	3.0 m / 10 ft outer tube	3760 0162 20
10	1.5 m / 5 m inner tube	3760 0154 88
10	3.0 m / 10 ft inner tube	3760 0154 89
11	Inner tube stabilizer	3760 0162 23
12	Core lifter	3760 0009 29
13	Core lifter case	3760 0009 28
Full grip wrenches		
Inner tube wrench		3760 0165 36
Outer tube wrench		3760 0060 32
<b>Spare parts kit 760 0159 61</b>		

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
75.44	56.24	2.97	2.21

## Spare parts kit - 1000 meter/3300'

3760 0159 61

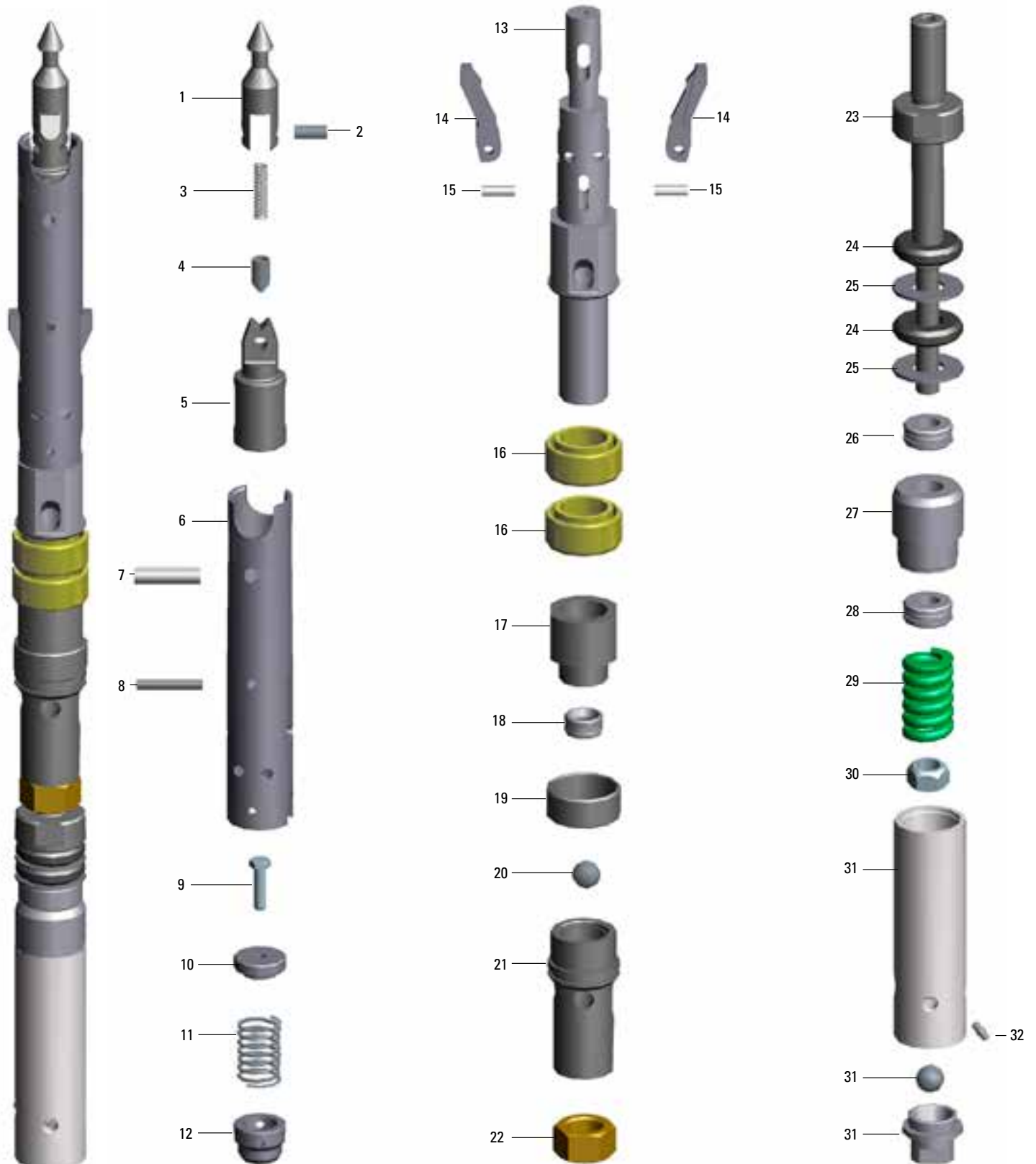
Qty	Description	Part number	Qty	Description	Part number
1	Spearhead BO/NO/HO EX	3760 0153 93	1	Nut Stover 3/4 10UNC SS NO	3760 0130 03
1	Compression spring	3760 0153 94	4	Bearing Thrust	3760 0064 61
1	Detent Plunger BO/NO/HO/ EX	3760 0153 95	1	NO Spindle Bearing	3760 0062 38
2	Spiral Pin 7/16 x 1	3760 0043 48	2	1/4 Grease fitting	0544 1160 23
2	Spring pin - 1/4 x 2 LG	5530 8326 00	20	NTW Core lifter	3742 0009 29
4	Spring pin 5/16 x 1 LG	3760 0156 94	4	NTW Core lifter Case	3742 0009 28
2	Spring pin 1/2 x 2 LG	0108 1691 80	2	NTW EX Landing ring	3760 0162 21
2	Spring pin 5/16 x 2 LG	0108 0691 89	2	NTW EX Inner tube Stabilizer	3760 0162 23
2	NO EX Compression spring HD	3760 0145 04	1	NO/NOU EX Latch Piston	3760 0134 75
2	NTW EX Latch	3760 0162 17	2	Landing Indicator Bushing	3760 0121 00
2	NO Compression spring	3760 0064 63	1	22 mm Stainless Steel Ball	3760 0120 99
1	NTW EX Landing Shoulder	3760 0162 13	1	NO Locknut 1 1/8 7 UNC	0268 4138 24
1	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	4	NTW Shut-Off Valve	3760 0152 86
1	Bearing Hanger	3760 0064 62	4	NTW EX Pump in lip seal	3760 0155 60

## EX II Safety overshot spare parts kit 1000 meters/3300'

3760 0154 97

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0064 67	Bearing	1
3760 0123 31	Nut Hex 1/2 20	2
0544 1100 23	1/4 Greese fitting	2
3760 0064 12	BOU NOU Lock nut	1
3760 0155 60	NTWU EX Pump in lip seal	4
3760 0063 73	BO NO HO Lifting dog spring	4
3760 0120 99	22 mm Stainless steel ball	1
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	2
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	2
3760 0157 89	NO HO Retaining ring safe over	3
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0121 00	Landing indicator bushing	4

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0162 11	1	9.300	20.502
1	BO/NO/HO EX Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral Pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	B,N.H EX Detent Compres Spring	3760 0153 94	1	0.051	0.112
4	BO/NO/HO EX Detent Plunger	3760 0153 95	1	0.150	0.330
5	NO/NOU EX Spear Head Base	3760 0153 96	1	0.350	0.771
6	NO NOU EX Latch Retract Case	3760 0134 70	1	1.293	2.850
7	Spring pin 1/2 x 2 LG	0108 1691 80	1	0.018	0.039
8	Spring pin 5/16 x 2 LG	0108 1691 89	1	0.030	0.066
9	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	1	0.023	0.050
10	NO NOU EX Spring Guide	3760 0134 76	1	0.113	0.249
11	NOU EX Compression spring HD	3760 0145 04	1	0.023	0.050
12	NO NOU EX Latch Piston	3760 0134 75	1	0.113	0.249
13	NO EX Upper Latch Body	3760 0158 82	1	2.230	4.916
14	NTW EX Latch	3760 0162 17	2	0.091	0.200
15	Spring pin 5/16 x 1 LG	3760 0156 94	2	0.009	0.019
16	NTW EX Pump in lip seal	3760 0155 60	2	0.410	0.903
17	NO EX Latch Body Coupler	3760 0158 83	1	0.520	1.146
18	Landing Indicator Bushing	3760 0121 00	1	0.023	0.050
19	NTW EX Landing Shoulder	3760 0162 13	1	0.100	0.220
20	22 mm Stainless Steel Ball	3760 0120 99	1	0.045	0.099
21	NO NOU EX Lower Latch Body	3760 0134 73	1	1.021	2.250
22	NO Locknut 1 1/8 7 UNC	0268 4138 24	1	0.008	0.017
23	NO Spindle	3760 0062 35	1	1.360	2.998
24	NTW EX Shut-Off Valve	3760 0152 86	2	0.020	0.044
25	NO Valve Adjusting Washer	3760 0062 37	2	0.050	0.110
26	NO Thrust Bearing	3760 0064 61	1	0.170	0.374
27	NO Spindle Bearing	3760 0062 38	1	0.770	1.697
28	NO Hanger Bearing	3760 0064 62	1	0.090	0.198
29	NO Compression spring	3760 0064 63	1	0.230	0.507
30	Nut Stover 3/4 10UNC SS NO	3760 0130 03	1	0.050	0.110
31	NTW EX Inner tube Cap Assy (includes Grease fitting)	3760 0161 15	1	1.610	3.549
32	Grease fitting	0544 1100 23	1	0.001	0.002



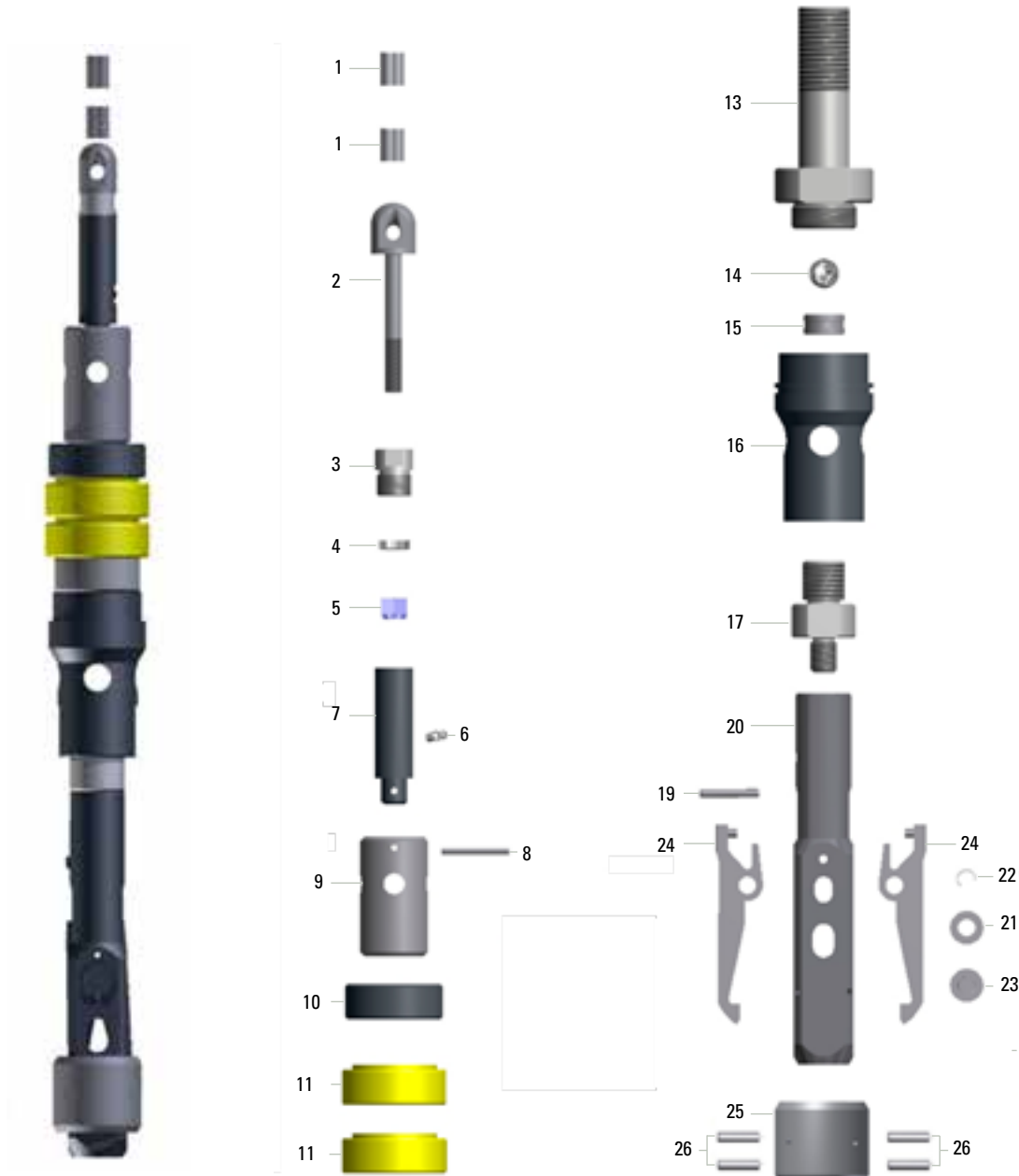


# EX II SAFETY OVERSHOT ASSEMBLY

Item	Qty	Description	Part Number
		ExCore EX II Overshot assembly	3760016279
1-6	1	EX II Cable swivel assembly	3760016262
1	2	Nicopress sleeve oval	3760008244
2	1	EX II Eye bolt	3760016265
3	1	Cable swivel collar	3760007216
4	1	Bearing	3760006467
5	2	Nut 1/2 20UNF GR8	3760012331
6	1	Grease fitting	0544 1100 23
7	1	Cable swivel body	3760007767
8	1	Shear pin 3/16 x 3/16 x 1 11/16	3760006416
9	1	Valve cap	3760006411
10	1	Lock nut UNC 1-8	3760006412
10	1	Lock nut UNC 1 1/12-6	N/A
11	2	Pump-in lip seal	3760015831
12	1	Valve adjusting washer (Not shown)	3760006237
13	1	Seal seat	3760015818
14	1	Ball S.S. - x 22 mm DIA	3760012099
15	1	Landing indicator bushing	3760012100
16	1	Lower latch body	3760013473
17	1	Overshot threaded adapter	3760015817
18	1	Lifting dog spring	3760006373
19	1	Spring pin 1/4 x 1 3/4	0108169187
20	1	NO EX-II Overshot head	3760016244
21	2	Pivot pin retainer	3760016246
22	1	Retaining ring	3760015789
23	1	EX-II Pivot pin	3760016249
24	2	EX-II Lifting dog	3760016245
25	1	HO EX II Overshot Adapter sleeve	N/A
26	4	Spring pin 3/16 x 3/4 LG	N/A

\* The lifting capacity rating has a safety factor of 5:1 engraved on the Overshot Head which was independently tested on the the surface version only. The actual lift capacity on the underground assemblies is 450 kg with a safety factor of 4:1.

# EX II SAFETY OVERTSHOT ASSEMBLY

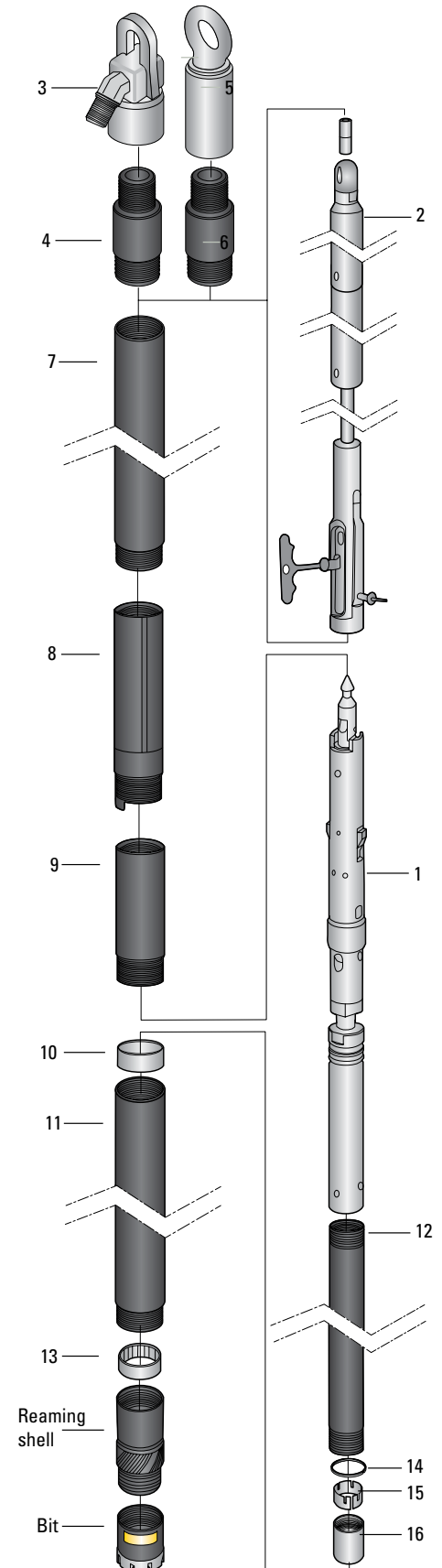


## Double tube Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		<i>HO-EX</i>	<i>HT-EX</i>	<i>HMO-EX</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0156 26	3760 0156 24	3760 0156 25
	3.0 m / 10 ft Core barrel assembly complete	3760 0152 67	3760 0156 27	3760 0156 28
	1.5 m / 5 ft inner tube assembly complete	3760 0155 64		
	3.0 m / 10 ft inner tube assembly complete	3760 0155 67		
1	Head assembly complete (p.92)	3760 0134 54		
Overshot				
2	Overshot assembly complete (p.100)	3760 0162 80		
2	Dry hole kit	3760 0162 59		
Water swivel*				
3	25000 TC Water swivel, BW rod box	3760 0003 76		
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0060 39	3760 0060 40	3760 0134 40
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10		
6	Hoisting plug adapter	3760 0158 10	3760 0158 06	3760 0152 50
Drill rods				
7	1.5 m drill rod	3760 0012 58	3760 0012 36	3760 0152 12
7	3.0 m drill rod	3760 0012 59	3760 0012 37	3760 0134 38
7	5 ft drill rod	3760 0012 56	3760 0012 33	3760 0152 15
7	10 ft drill rod	3760 0012 57	3760 0012 34	3760 0132 22
Consumables/Accessories				
8	Locking coupling	3760 0060 43	3760 006044	3760 0119 09
9	Adapter coupling	3760 0060 45		
10	Landing ring	3760 0062 58		
11	1.5 m / 5 ft outer tube	3760 0060 46		
11	3.0 m / 10 ft outer tube	3760 0060 47		
12	1.5 m / 5 m inner tube	3760 0060 48		
12	3.0 m / 10 ft inner tube	3760 0060 49		
13	Inner tube stabilizer	3760 0062 59		
14	Stop ring	3760 0062 55		
15	Core lifter	3760 0062 56		
16	Core lifer case	3760 0062 57		
Full grip wrenches				
Inner tube wrench		3760 0060 32		
Outer tube wrench		3760 0060 53		
Spare parts kit 760 0152 70				

\*See optional Swivels and Adapters in Accessories section starting on page 132.



# COMPACT CORE BARREL SYSTEM



## Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
96.1	63.5	3.78	2.50

## Spare parts kit - 1000 meters/3300'

3760 0152 70

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	HO Spindle bearing	3760 0062 53
1	Spiral pin 7/16 x 1	3760 0043 48	1	Compression spring HO	3760 0077 65
1	EX Detent Compression spring	3760 0153 94	1	Thrust bearing	3760 0064 61
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	Self locking nut 1 8 UNC	3760 0130 04
2	HO/HOU EX Compression spring	3760 0156 75	2	1/4 Grease fitting	0544 1100 23
4	HO/HOU EX Latch	3760 0156 72	20	HO Core lifter - Slotted	3760 0062 56
2	Spring pin 3/8 x 2 3/4	3760 0145 00	4	HO Core lifter case	3760 0062 57
2	Spring pin - 1/2 x 2 3/4 LG	0108 1691 46	2	HO Landing ring	3760 0062 58
2	Spring pin - 1/4 x 2 3/4	3760 0145 02	2	HO Inner tube stabilizer	3760 0062 59
4	Spring pin - 3/8 x 1 1/2	0108 1691 39	1	HO/HOU EX Latch piston	3760 0156 76
1	HHCS 3/8-16 UNC X 1 1/4 LG	3760 0134 77	2	Landing indicator bushing	3760 0121 00
1	HO Landing shoulder 3PLB	3760 0051 50	1	22 mm Stainless steel ball	3760 0120 99
1	HO Lock nut 1 1/4 7 UNC	0268 3115 00	4	HO Shut off valve medium black	3760 0062 51
4	Bearing	3760 0064 71	4	HO Stop ring	3760 0062 55

## Safety overshoot spare parts kit - 1000 meters/3300'

3760 0162

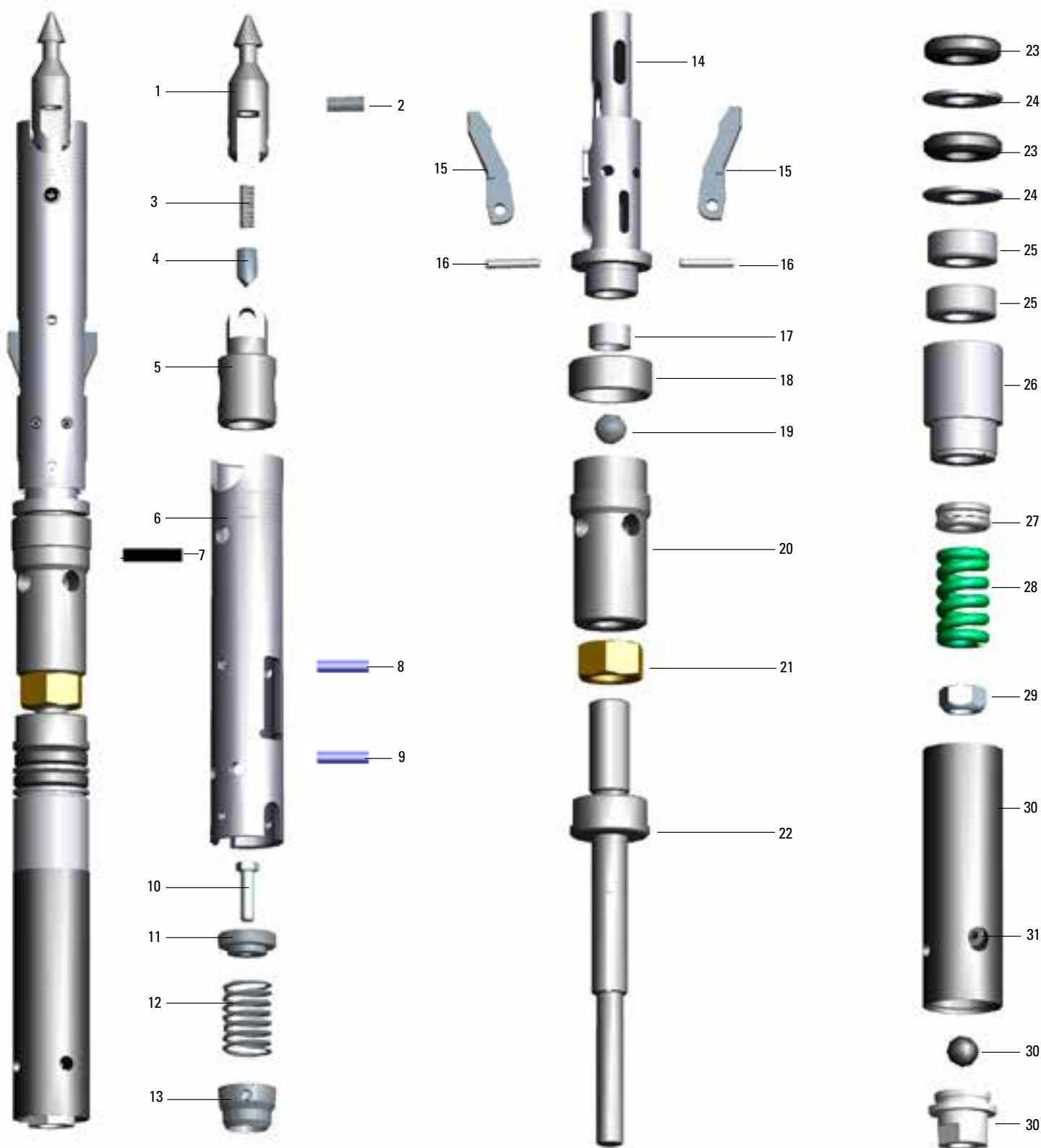
Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0162 69	HO EX Adapter sleeve	1
0108 1691 84	Spring pin 3/16 x 3/4 LG	8

Excore

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0134 54	1	20.250	44.643
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.005	0.011
4	Detent plunger	3760 0153 95	1	0.010	0.022
5	Spearhead base	3760 0144 92	1	0.940	2.072
6	Latch retracting case	3760 0156 71	1	0.091	0.200
7	Spring pin 1/2 x 2 3/4	0108 1691 46	1	0.023	0.050
8	Spring pin 3/8 x 2 3/4	3760 0145 00	1	0.023	0.050
9	Spring pin 1/4 x 2 3/4	3760 0145 02	1	0.023	0.050
10	HHCS 3/8-16 x 1 1/4	3760 0134 77	1	0.050	0.110
11	Spring Guide	3760 0156 77	1	0.440	0.200
12	Compression spring	3760 0156 75	1	0.242	0.110
13	Latch piston	3760 0156 76	1	1.366	0.620
14	Upper latch body	3760 0156 73	1	1.366	0.600
15	Latch	3760 0156 72	2	10.185	4.600
16	Spring pin 3/8 x 1 1/2	3760 0094 16	2	0.040	0.088
17	Landing indicator bushing	3760 0121 00	1	0.023	0.050
18	Landing shoulder	3760 0051 50	1	0.160	0.352
19	SS Ball 22 mm	3760 0120 99	1	0.045	0.099
20	Lower latch body	3760 0156 74	1	2.090	4.607
21	Lock nut 1 1/4	0268 3115 00	1	0.230	0.507
22	Spindle	3760 0062 50	1	2.710	5.974
23	Shut-off valve	3760 0062 51	2	0.040	0.088
24	Valve adjusting washer	3760 0062 52	2	0.120	0.264
25	Bearing	3760 0064 71	2	0.230	0.507
26	Spindle bearing housing	3760 0062 53	1	1.640	3.615
27	Thrust bearing	3760 0064 61	1	0.170	0.374
28	Compression spring	3760 0077 65	1	0.420	0.925
29	Lock nut stover 1 8 UNC SS	3760 0130 04	1	0.120	0.264
30	Inner tube cap assembly (includes Grease fitting)	3760 0062 54	1	3.260	7.187
31	Grease fitting	0544 1100 23	1	0.001	0.002

# COMPACT HEAD ASSEMBLY

**H**  
**EX**



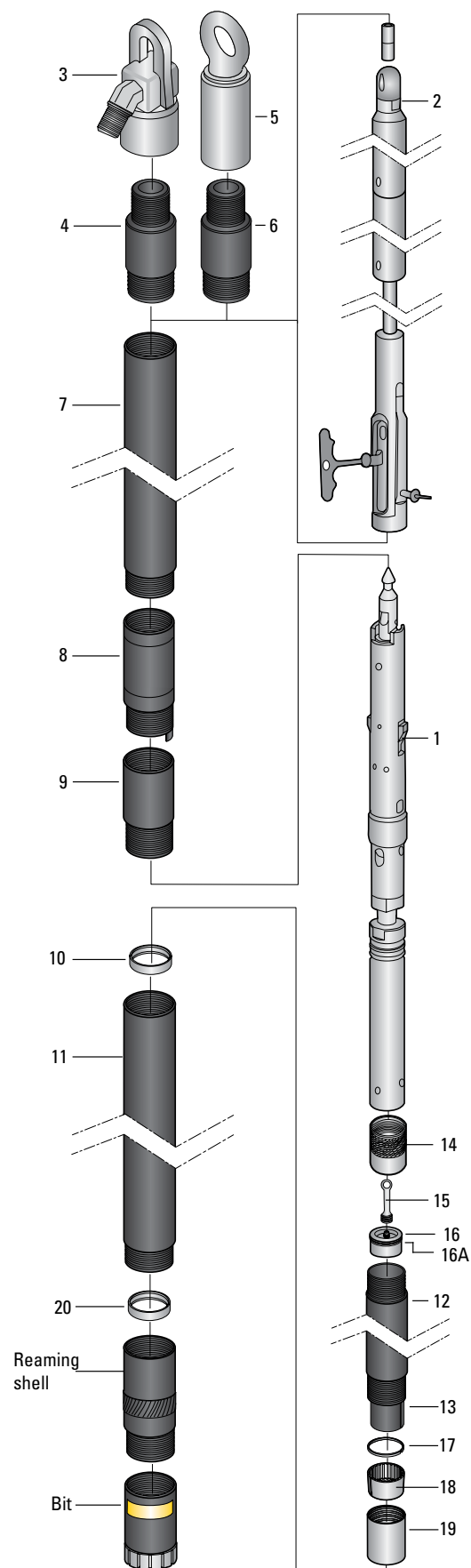
Excure

### Triple tube Core barrel

Surface

Core barrels		
Item	Description <i>Drill rod connection</i>	Part number <i>H03-EX</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0159 50
	3.0 m / 10 ft Core barrel assembly complete	3760 0155 41
	1.5 m / 5 ft inner tube assembly complete	3760 0159 56
	3.0 m / 10 ft inner tube assembly complete	3760 0159 49
1	Head assembly complete (p.?)	3760 0134 54
Overshot		
2	Overshot assembly complete (p.100)	3760 0162 80
2	Dry hole kit	3760 0162 59
Water swivel*		
3	25000 TC Water swivel, BW rod box	3760 0003 76
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0060 39
Hoisting plug		
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10
6	Hoisting plug adapter	3760 0158 10
Drill rods		
7	1.5 m drill rod	3760 0012 58
7	3.0 m drill rod	3760 0012 59
7	5 ft drill rod	3760 0012 56
7	10 ft drill rod	3760 0012 57
Consumables/Accessories		
8	Locking coupling	3760 0060 43
9	Adapter coupling	3760 0060 45
10	Landing ring	3760 0062 58
11	1.5 m / 5 ft outer tube	3760 0060 46
11	3.0 m / 10 ft outer tube	3760 0060 47
12	1.5 m / 5 m inner tube	3760 0060 48
12	3.0 m / 10 ft inner tube	3760 0060 49
13	1.5 m / 5 m Split inner tube	3760 0056 41
13	3.0 m / 10 ft Split inner tube	3760 0056 40
14	Adapter	3760 0062 95
15	Piston plug	3760 0062 83
16	Piston	3760 0062 96
16A	O-ring	0663 2100 93
17	Stop ring	3760 0062 88
18	Core lifter - Fluted	3760 0062 89
19	Core lifter case	3760 0062 90
20	Inner tube stabilizer	3760 0062 59
Full grip wrenches		
	Inner tube wrench	3760 0060 32
	Outer tube wrench	3760 0060 53
Spare parts kit 760 0156 05		

\*See optional Swivels and Adapters in Accessories section starting on page 132.





# COMPACT CORE BARREL SYSTEM

# H3 EX

## Triple tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
96.1	61.1	3.78	2.41

## H-EX to H3-EX Conversion kits

Description	Part number
1.5/5 ft HO-EX to HO3-EX Conversion kit complete	3760 0095 56
3.0 m / 10 ft HO-EX to HO3-EX Conversion kit complete	3760 0095 55
Conversion kit includes all parts needed to convert HO-EX inner tube assembly to HO3-EX inner tube assembly.	

## Spare parts kit - 1000 meter/3300'

3760 0156 05

Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	HO Spindle bearing	3760 0062 53
1	Spiral pin 7/16 x 1	3760 0043 48	1	Compresion spring HO	3760 0077 65
1	EX Detent Compression spring	3760 0153 94	1	Thrust bearing	3760 0064 61
2	BO/NO/HO EX Detent plunger	3760 0153 95	1	Self locking nut 1 8 UNC	3760 0130 04
2	HO/HOU EX Compression spring	3760 0156 75	2	1/4 Grease fitting	0544 1100 23
4	HO/HOU EX Latch	3760 0156 72	20	HO3 Core lifter	3760 0062 89
2	Spring pin 3/8 x 2 3/4	3760 0145 00	4	HO3 Core lifter case	3760 0062 90
2	Spring pin - 1/2 x 2 3/4 LG	0108 1691 46	2	HO Landing ring	3760 0062 58
2	Spring pin - 1/4 x 2 3/4	3760 0145 02	2	HO Inner tube stabilizer	3760 0062 59
4	Spring pin - 3/8 x 1 1/4	0108 1691 39	1	HO/HOU EX Latch piston	3760 0156 76
1	HHCS 3/8 - 16 UNC x 1 1/4 LG	3760 0134 77	2	Landing indicator bushing	3760 0121 00
1	HO Landing shoulder 3 PLB	3760 0051 50	1	22 mm Stainless steel ball	3760 0120 99
1	HO Lock nut 1 1/4 7 UNC	0268 3115 00	4	HO Shut off valve - Black	3760 0062 51
4	Bearing	3760 0064 71	4	HO3 Stop ring	3760 0062 88

## Safety overshoot spare parts kit - 1000 meters/3300'

3760 0162 74

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0162 69	HO EX Adapter sleeve	1
0108 1691 84	Spring pin 3/16 x 3/4 LG	8

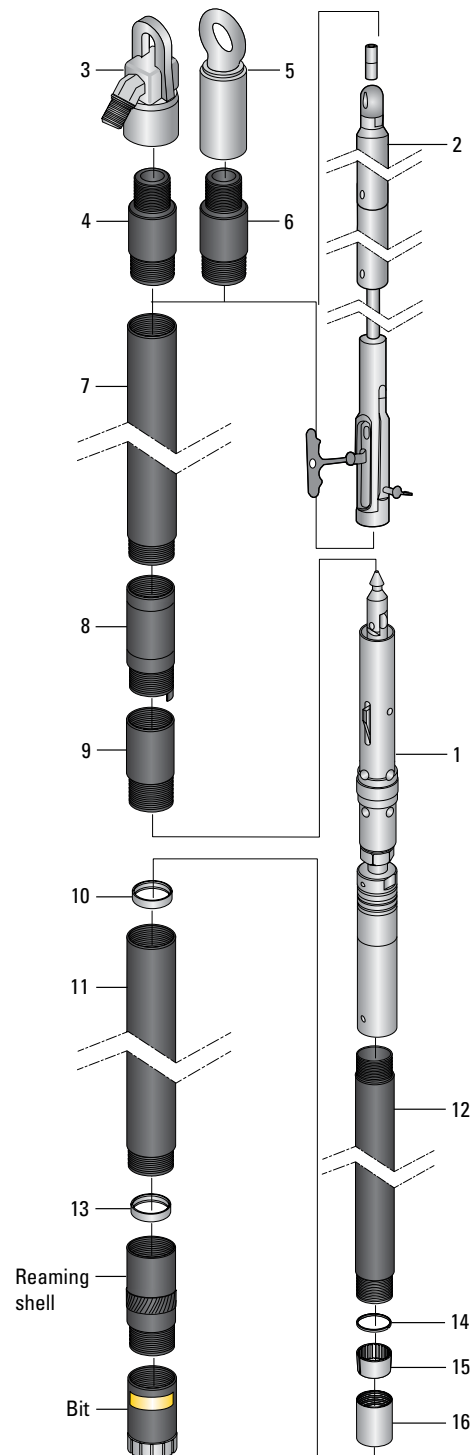
Excore

## Flexo Double tube Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>O</i>	<i>T</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0060 33	3760 0060 34
	3.0 m / 10 ft Core barrel assembly complete	3760 0060 35	3760 0060 36
	1.5 m / 5 ft inner tube assembly complete	3760 0060 37	
	3.0 m / 10 ft inner tube assembly complete	3760 0060 38	
1	Head assembly complete (p.104)	3760 0051 81	
Overshot			
2	Overshot assembly complete (p.100)	3760 0162 80	
Water swivel*			
3	5000 TC Water swivel, AW rod pin	3760 0036 27	
4	Drill rod adapter AW rod box to W/L rod pin	3760 0081 09	3760 0081 06
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0158 10	3760 0158 06
Drill rods			
7	0.6 m drill rod	3760 0034 38	3760 0012 35
7	1.5 m drill rod	3760 0012 58	3760 0012 36
7	3.0 m drill rod	3760 0012 59	3760 0012 37
7	2 ft drill rod	3760 0034 39	3760 0012 32
7	5 ft drill rod	3760 0012 56	3760 0012 33
7	10 ft drill rod	3760 0012 57	3760 0012 34
Consumables/Accessories			
8	Locking coupling - Tanged	3760 0060 43	3760 0060 44
9	Adapter coupling	3760 0060 45	
10	Landing ring	3760 0062 58	
11	1.5 m / 5 ft outer tube	3760 0060 46	
11	3.0 m / 10 ft outer tube	3760 0060 47	
12	1.5 m / 5 m inner tube	3760 0060 48	
12	3.0 m / 10 ft inner tube	3760 0060 49	
13	Inner tube stabilizer	3760 0062 59	
14	Stop ring	3760 0062 55	
15	Core lifer	3760 0062 56	
16	Core lifer case	3760 0062 57	
Full grip wrenches			
Inner tube wrench		3760 0060 32	
Outer tube wrench		3760 0060 53	
Spare parts kit 3760 0060 50			

\*See optional Swivels and Adapters in Accessories section starting on page 132.



### Flexo Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
96.1	63.5	3.78	2.50

### Spare parts kit - 1000 meter/3300'

3760 0060 50

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	2	Thrust bearing	3760 0064 61
1	Compression spring	3760 0153 94	2	Hanger bearing	3760 0064 71
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 53
2	Spiral pin 7/16 x 1	3760 0043 48	1	Nut stover 1 8 UNC SS	3760 0130 04
2	Spring pin 1/2 x 2 3/4 LG	0108 1691 46	1	Ball 7/8 DIA SS	0517 1100 25
4	Latch spring	3760 0062 47	2	Grease fitting	0544 1100 23
4	Latch	3760 0062 48	4	Stop ring	3760 0062 55
4	Spring pin 3/8 x 2 LG	0108 1691 42	20	Core lifter	3760 0062 56
1	Landing shoulder	3760 0051 50	4	Core lifter case	3760 0062 57
1	Lock nut 1 1/4 7UNC	0268 3115 00	2	Landing ring	3760 0062 58
4	Shut-off valve	3760 0062 51	2	Inner tube stabilizer	3760 0062 59
4	Spring pin 1/2 x 2 LG	0108 1691 80			

### Safety overshot spare parts kit - 1000 meters/3300'

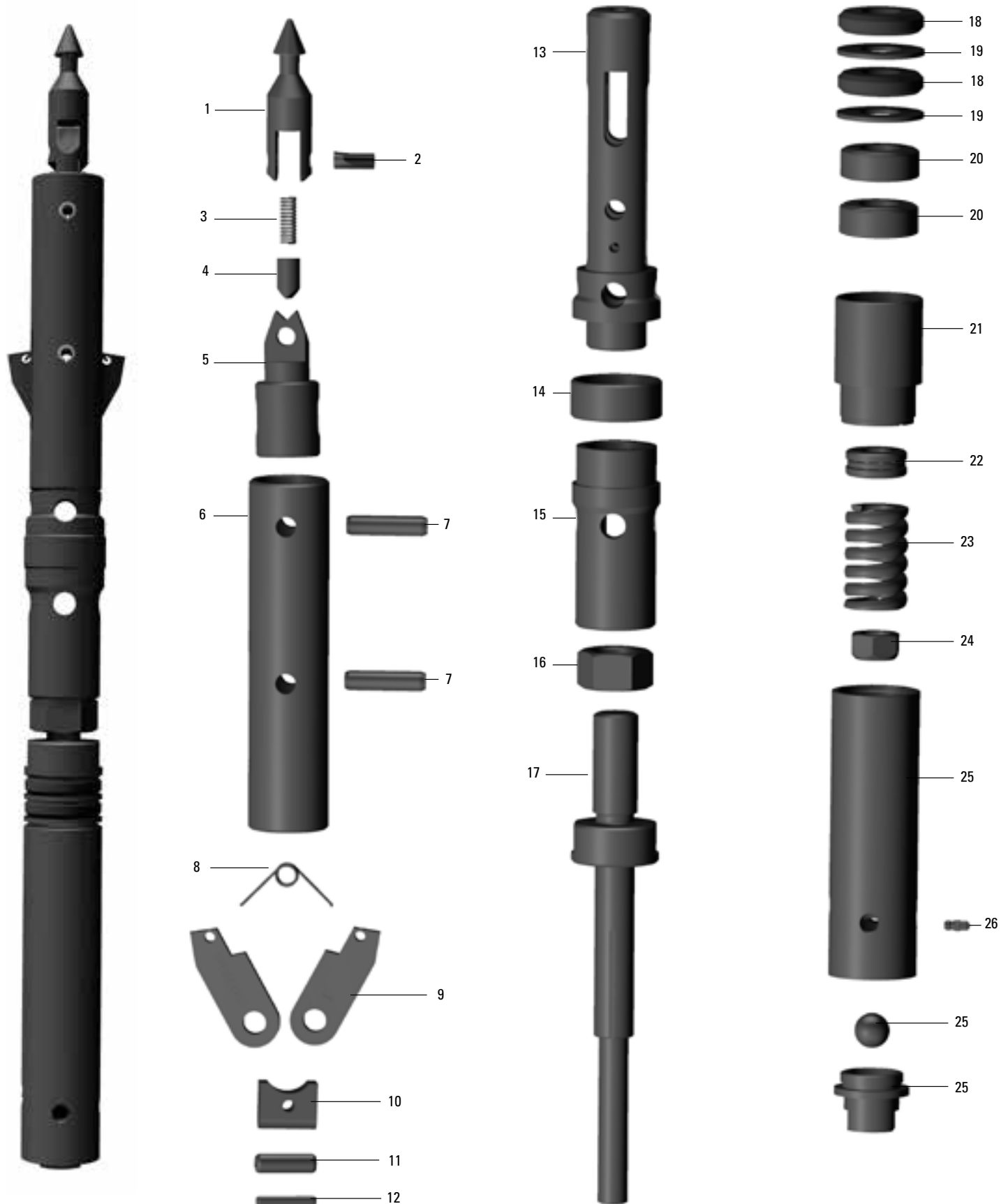
3760 0162 74

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0162 69	HO EX Adapter sleeve	1
0108 1691 84	Spring pin 3/16 x 3/4 LG	8

Item	Description	Part number	Qty
	Head assembly complete	3760 0051 81	1
1	Spearhead	3760 0153 93	1
2	Spring pin	3760 0043 48	1
3	Compression spring	3760 0153 94	1
4	Detent	3760 0044 30	1
5	Spearhead base	3760 0144 92	1
6	Latch retracting case	3760 0066 75	1
7	Spring pin 1/2 x 2 3/4	0108 1691 46	2
8	Latch spring	3760 0062 47	1
9	Latch	3760 0062 48	2
10	Latch support	3760 0062 49	1
11	Spring pin 1/2 x 2	0108 1691 80	1
12	Spring pin 3/8 x 2	0108 1691 42	1
13	Upper latch body	3760 0051 49	1
14	Landing shoulder	3760 0051 50	1
15	Lower latch body	3760 0156 74	1
16	Lock nut 1 1/4	0268 3115 00	1
17	Spindle	3760 0062 50	1
18	Shut-off valve	3760 0062 51	2
19	Valve adjusting washer	3760 0062 52	2
20	Thrust bearing	3760 0064 71	2
21	Spindle bearing	3760 0062 53	1
22	Hanger bearing	3760 0064 61	1
23	Compression spring	3760 0077 65	1
24	Lock nut	3760 0130 04	1
25	Inner tube cap assembly	3760 0062 54	1
26	Grease fitting	0544 1100 23	1

# HEAD ASSEMBLY

## H O-SERIES



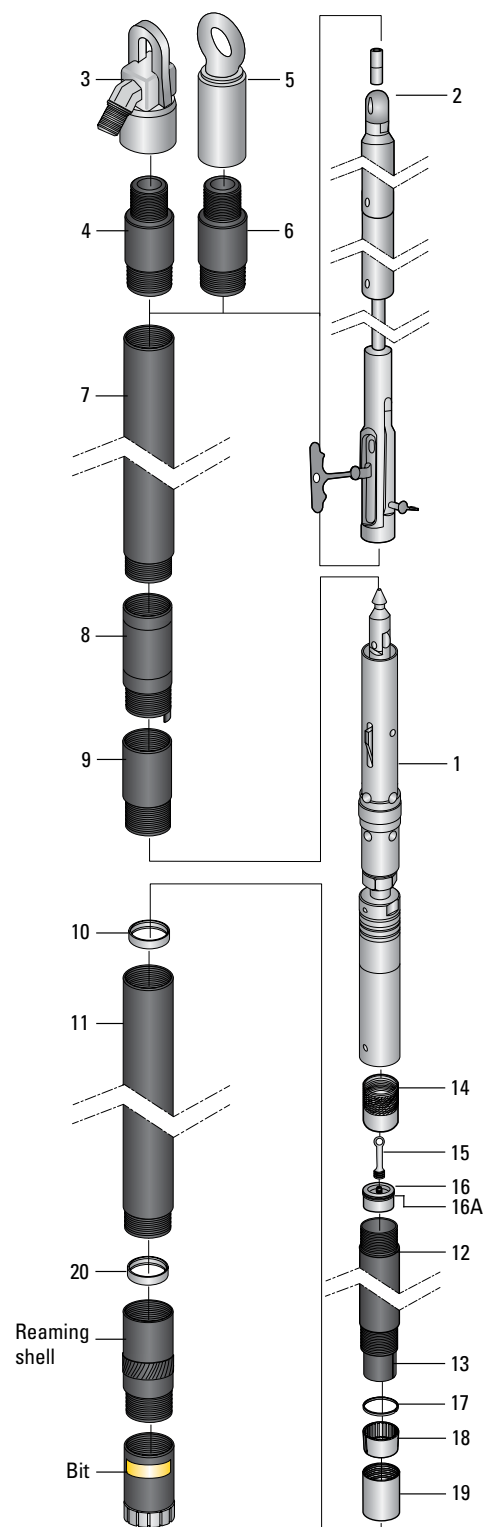
O Series

### Flexo Triple tube Core barrel

Surface

Core barrels			
Item	Description <i>Drill rod connection</i>	Part number	
		<i>O</i>	<i>T</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0060 79	3760 0060 80
	3.0 m / 10 ft Core barrel assembly complete	3760 0060 81	3760 0060 82
	1.5 m / 5 ft inner tube assembly complete	3760 0060 83	
	3.0 m / 10 ft inner tube assembly complete	3760 0060 84	
1	Head assembly complete (p.?)	3760 0051 81	
Overshot			
2	Overshot assembly complete (p.100)	3760 0162 80	
Water swivel*			
3	5000 TC Water swivel, AW rod box	3760 0036 27	
4	Drill rod adapter AW rod pin to W/L rod pin	3760 0081 09	3760 0081 06
Hoisting plug			
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10	
6	Hoisting plug adapter	3760 0158 10	3760 0158 06
Drill rods			
7	0.6 m drill rod	3760 0034 38	3760 0012 35
7	1.5 m drill rod	3760 0012 58	3760 0012 36
7	3.0 m drill rod	3760 0012 59	3760 0012 37
7	2 ft drill rod	3760 0034 39	3760 0012 32
7	5 ft drill rod	3760 0012 56	3760 0012 33
7	10 ft drill rod	3760 0012 57	3760 0012 34
Consumables/Accessories			
8	Locking coupling - Tanged	3760 0060 43	3760 0060 44
9	Adapter coupling	3760 0060 45	
10	Landing ring	3760 0062 58	
11	1.5 m / 5 ft outer tube	3760 0060 46	
11	3.0 m / 10 ft outer tube	3760 0060 47	
12	1.5 m / 5 ft inner tube	3760 0060 48	
12	3.0 m / 10 ft inner tube	3760 0060 49	
13	1.5 m / 5 ft Split inner tube	3760 0056 41	
13	3.0 m / 10 ft Split inner tube	3760 0056 40	
14	Adapter	3760 0062 95	
15	Piston plug	3760 0062 83	
16	Piston	3760 0062 96	
16A	O-ring	0663 2100 93	
17	Stop ring	3760 0062 88	
18	Core lifer	3760 0062 89	
19	Core lifter case	3760 0062 90	
20	Inner tube stabilizer	3760 0062 59	
Full grip wrenches			
Inner tube wrench		3760 0060 32	
Outer tube wrench		3760 0060 53	
Spare parts kit 760 0060 85			

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Flexo Triple tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
96.1	61.1	3.78	2.41

## Spare parts kit - 1000 meter/3300'

3760 0060 85

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0153 93	2	Thrust bearing	3760 0064 61
1	Compression spring	3760 0153 94	2	Hanger bearing	3760 0064 71
1	Detent	3760 0153 95	1	Spindle bearing	3760 0062 53
2	Spiral pin 7/16 x 1	3760 0043 48	1	Nut stover 1 8 UNC SS	3760 0130 04
4	Spring pin 1/2 x 2 LG	0108 1691 80	1	Ball 7/8 DIA SS	0517 1100 25
4	Latch spring	3760 0062 47	2	Grease fitting	0544 1100 23
4	Latch	3760 0062 48	4	Stop ring	3760 0062 88
4	Spring pin 3/8 x 2 LG	0108 1691 42	20	Core lifter	3760 0062 89
1	Landing shoulder	3760 0051 50	4	Core lifter case	3760 0062 90
1	Lock nut 1 1/4 7 UNC	0268 3115 00	2	Landing ring	3760 0062 58
4	Shut-off valve	3760 0062 51	2	Inner tube stabilizer	3760 0062 59
2	Spring pin 1/2 x 2 3/4 LG	0108 1691 46			

## Safety overshoot spare parts kit - 1000 meters/3300'

3760 0162 74

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0123 31	Nut Hex 1/2-20	2
3760 0064 67	Bearing	1
0544 1100 23	1/4 Grease fitting	2
3760 0063 73	BO NO HO Lifting dog spring	4
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	1
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	1
3760 0157 89	NO HO Retaining ring safe over	2
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0162 69	HO EX Adapter sleeve	1
0108 1691 84	Spring pin 3/16 x 3/4 LG	8



This H-EX overshoot assembly is for all surface EX, O Series

Overshoot assembly complete			
Item	Qty	Description	Part number
			HO-EX
		ExCore EX II Overshot assembly	3760 0162 80
1-5	1	EX II Cable swivel assembly	3760 0162 62
13-23	1	EX II Overshot Head assembly	37600 162 61
1	2	3/16 Nicopress sleeve oval	3760 0082 44
2	1	EX II Eye bolt	3760 0162 65
3	1	NO / HO EX Cable swivel collar	3760 0072 16
4	1	Bearing	3760 0064 67
5	2	Nut 1/2 20 UNF GR8	3760 0123 31
6	1	Grease fitting	0544 1100 23
7	1	EX II Sinking bar body	3760 0063 84
8	1	EX II Jar tube	3760 0156 60
9	1	Locking sleeve	3760 0063 81
10	1	NO EX Jar staff	3760 0156 63
11	1	NO / HO EX II Lifting dog spring	3760 0063 73
12	1	Spring pin 1/4 x 1 3/4	0108 1691 87
13	1	NO EX-II Safety overshoot head	3760 0162 44
14	1	Pivot pin retainer	3760 0162 46
15	1	Retaining ring	3760 0157 89
16	1	EX-II Pivot pin	3760 0162 49
17	2	EX-II Lifting dog	3760 0162 45
18	1	EX-II Safety pin	3760 0162 47
19	1	Set screw 3/8 24 x 5/8	3760 0070 85
20	1	Safety overshoot release tool	3760 0162 30
21	1	Nut 3/4-10	5530 6164 00
22	1	HO EX II Overshot Adapter sleeve	3760 0162 69
23	4	Roll pin 3/16 x 3/4 LG	0108 1691 84

### Dry hole overshoot kit 3760 0162 59

Dry hole overshoot kit		
*Dry hole overshoot adapter not sold separately		
Qty	Description	Part number
	EX II Dry hole overshoot kit	3760 0162 59
2	Spring pin 1/4 x 11/16	3760 0156 88



### Optional equipment

Reducing Adapter - Overshot length		
Qty	Description	Part number
	N/H - EX Overshot sinking bar body/ Overshot head adapter	3760 0159 35
ExCore EX II Safety Overshot retrofit adapter kit *For use with pin jar staff		
	EX II Overshot Head assembly	3760 0162 61
1	NO EX/HO EX Overshot pin jar staff adapters	3760 0157 82
2	Spring pin 1/4 x 1 1/2 LG	0108 1691 35

\*For using with pin jar staff.

This retrofit will allow you to use the EX II safety overshoot and some of the safety benefit , but not all the lifting capacity you would get from a complete EXII assembly.

# EX II SAFETY OVERSHOT ASSEMBLY

**H3**  
O-SERIES

O Series

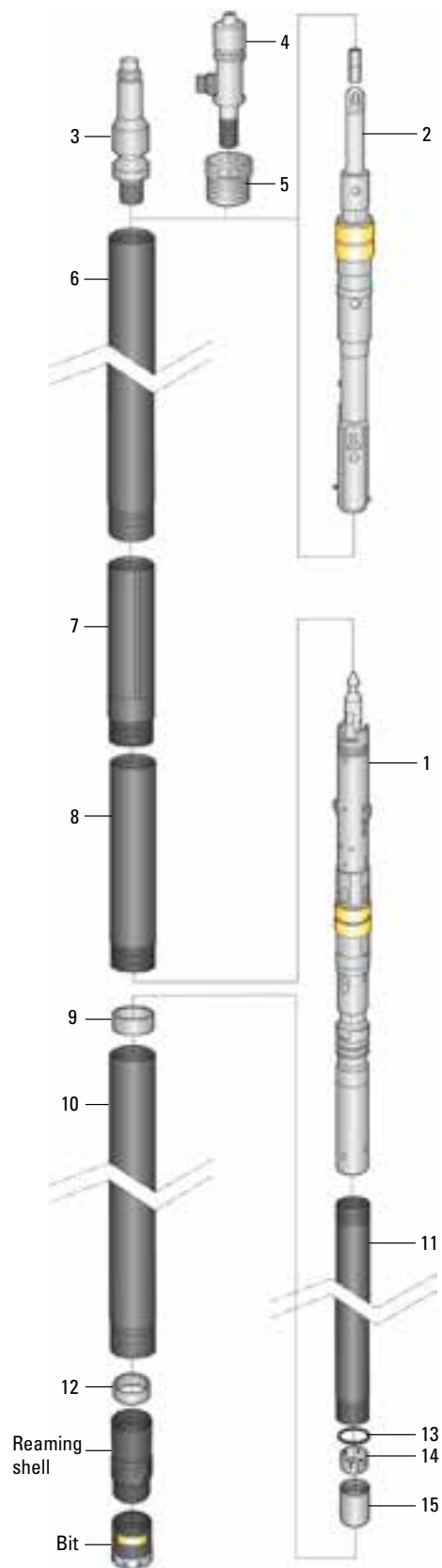


### Double tube Core barrel

Underground

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		HOU-EX	HTU-EX	HMOU-EX
	1.5 m / 5 ft Core barrel assembly complete	3760 0160 53	3760 0160 57	3760 0160 55
	3.0 m / 10 ft Core barrel assembly complete	3760 0160 54	3760 0160 58	3760 0160 56
	1.5 m / 5 ft inner tube assembly complete		3760 0160 51	
	3.0 m / 10 ft inner tube assembly complete		3760 0160 52	
1	Head assembly complete (p.112)		3760 0160 50	
Overshot				
2	Overshot assembly complete (p.108)		3760 0162 81	
Water swivel*				
3	18/0 Water swivel complete	3760 0061 81	3760 0061 82	3760 0172 77
Stuffing box				
4	Stuffing box		8393 0819 65	
5	Drill rod adapter/Dimension kit	8393 0819 90	3760 0152 05	3760 0157 54
Drill rods				
6	1.5 m drill rod	3760 0012 58	3760 0012 36	3760 0152 12
6	3.0 m drill rod	3760 0012 59	3760 0012 37	3760 0134 38
6	5 ft drill rod	3760 0012 56	3760 0012 33	3760 0152 15
6	10 ft drill rod	3760 0012 57	3760 0012 34	3760 0132 22
Consumables/Accessories				
7	Locking coupling - Full hole	3760 0151 59	3760 0151 83	3760 0151 86
8	Adapter coupling - Long		3760 0152 57	
9	Landing ring		3760 0062 58	
10	1.5 m / 5 ft outer tube		3760 0060 46	
10	3.0 m / 10 ft outer tube		3760 0060 47	
11	1.5 m / 5 m inner tube		3760 0060 48	
11	3.0 m / 10 ft inner tube		3760 0060 49	
12	Inner tube stabilizer		3760 0062 59	
13	Stop ring		3760 0062 55	
14	Core lifter		3760 0062 56	
15	Core lifter case		3760 0062 57	
Full grip wrenches				
	Inner tube wrench		3760 0060 32	
	Outer tube wrench		3760 0060 53	
<b>Spare parts kit 760 0156 04</b>				

\*See optional Swivels and Adapters in Accessories section starting on page 132.



## Double tube Core barrel

Underground

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
96.1	63.5	3.78	2.50

## Spare parts kit - 1000 meters/3300'

3760 0156 04

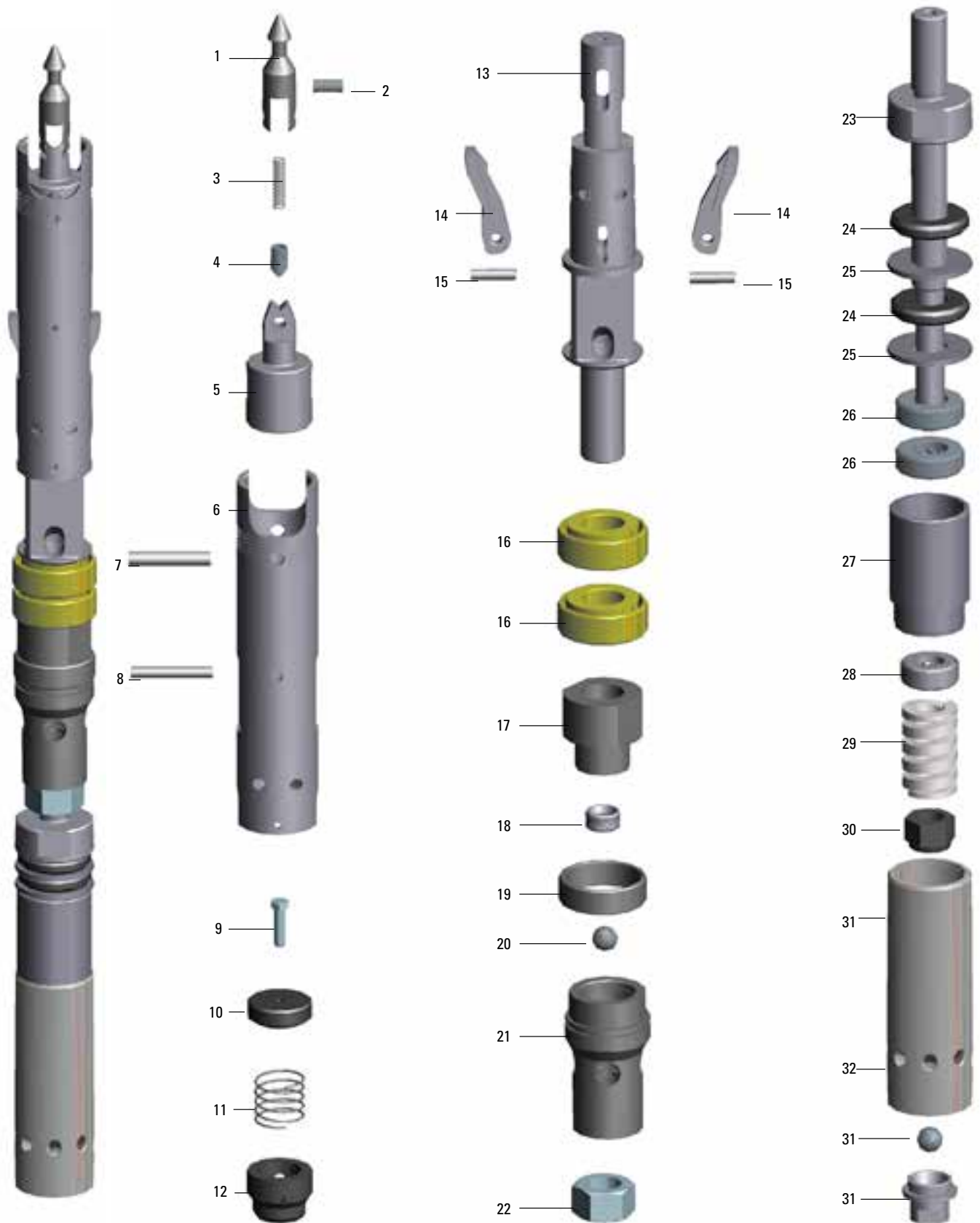
Qty	Description	Part number	Qty	Description	Part number
1	BO/NO/HO EX Spearhead	3760 0153 93	1	Compresison spring HO	3760 0077 65
1	Spiral pin 7/16 x 1	3760 0043 48	1	Thrust bearing	3760 0064 61
1	EX Detent Compression spring	3760 0153 94	1	Self locking nut 1 8 UNC	3760 0130 04
2	BO/NO/HO EX Detent plunger	3760 0153 95	2	1/4 Grease fitting	0544 1100 23
2	HO/HOU EX Compression spring HD	3760 0145 05	20	HO Core lifter - Slotted	3760 0062 56
4	HO/HOU EX Latch	3760 0156 72	4	HO Core lifter case	3760 0062 57
2	Spring pin 3/8 x 2 3/4	3760 0145 00	2	HO Landing ring	3760 0062 58
2	Spring pin - 1/2 x 2 3/4 LG	0108 1691 46	2	HO Inner tube stabilizer	3760 0062 59
2	Spring pin - 1/4 x 2 3/4	3760 0145 02	1	HO/HOU EX Latch piston	3760 0156 76
4	Spring pin - 3/8 x 1 1/4	0108 1691 39	2	Landing indicator bushing	3760 0121 00
1	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	1	22 mm Stainless steel ball	3760 0120 99
1	HO Landing shoulder 3 PLB	3760 0051 50	4	HO Shut off valve - Black	3760 0062 51
1	HO Lock nut 1 1/4 7 UNC	0268 3115 00	4	HO Stop ring	3760 0062 55
4	Bearing	3760 0064 71	4	HOU EX Pump-in lip seal	3760 0120 59
1	HO Spindle bearing	3760 0062 53			

## EXII-U Safety overshoot spare parts kit - 1000 meters/3300' 3760 0162 75

Part Number	Description	Qty
3760 0082 44	3/16 Nicopress sleeve oval	2
3760 0064 67	Bearing	1
3760 0123 31	Nut Hex 1/2 20	2
0544 1100 23	1/4 Greese fitting	1
3760 0120 59	HOU EX Pump in lip seal	4
3760 0063 73	BO NO HO Lifting dog spring	4
3760 0120 99	22 mm Stainless steel ball	1
0108 1691 87	Spring pin 1/4 x 1 3/4 LG	2
3760 0162 49	NO HO EX Pivot pin	1
3760 0162 46	NO HO Pivot pin retainer	2
3760 0157 89	NO HO Retaining ring safe over	3
3760 0162 45	NO HO EX-II Lifting dog	2
3760 0121 00	Landing indicator bushing	4
3760 0064 29	Pin 3/16 x 2	2
3760 0064 26	HOU Lock nut	1
3760 0120 59	HOU EX Pump in lip seal	4
0108 1691 84	Spring pin 3/16 x 3/4 LG	8

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0160 50	1	20.250	44.643
1	Spearhead	3760 0153 93	1	0.190	0.418
2	Spiral pin 7/16 x 1	3760 0043 48	1	0.010	0.022
3	Detent Compression spring	3760 0153 94	1	0.051	0.112
4	Detent	3760 0153 95	1	0.150	0.330
5	Spearhead base	3760 0144 92	1	0.350	0.771
6	Latch retracting case	3760 0156 71	1	0.816	1.798
7	Spring pin 1/2 x 2 3/4 LG	0108 1691 46	1	0.010	0.220
8	Spring pin 3/8 x 2 3/4	3760 0145 00	1	0.010	0.220
9	HHCS 3/8-16	3760 0134 77	1	0.023	0.050
10	Spring guide	3760 0156 77	1	0.045	0.099
11	Compression spring HD	3760 0145 05	1	0.023	0.050
12	Latch piston	3760 0156 76	1	0.090	0.198
13	Upper latch body	3760 0158 84	2	1.330	2.932
14	Latch	3760 0156 72	2	0.220	0.485
15	Spring pin 3/8 x 1 1/2	3760 0099 16	2	0.023	0.050
16	Pump-in lip seal	3760 0120 59*	2	0.300	0.661
17	Latch body coupler	3760 0158 85	1	0.375	0.826
18	Landing indicator bushing	3760 0121 00	1	0.023	0.050
19	Landing shoulder	3760 0051 50	1	0.057	0.125
20	Ball S.S - x 22 mm DIA	3760 0120 99	1	0.045	0.099
21	Lower latch body	3760 0156 74	1	0.500	1.102
22	Lock nut 1 1/4 - 7 UNC	0268 3115 00	1	0.090	0.198
23	Spindle	3760 0062 50	2	0.570	1.256
24	Shut off valve - Black	3760 0062 51	2	0.010	0.022
25	Valve adjusting washer	3760 0062 52	1	0.029	0.063
26	Bearing	3760 0064 71	2	0.070	0.154
27	Spindle bearing	3760 0062 53	1	0.428	0.943
28	Thrust bearing	3760 0064 61	1	0.070	0.154
29	Compression spring	3760 0077 65	1	0.076	0.167
30	Self locking nut 1 8 UNC	3760 0130 04	1	0.050	0.110
31	Inner tube cap assembly (includes Grease fitting)	3760 0062 54	1	0.907	1.999
32	Grease fitting	0544 1100 23	1	0.001	0.002

# HEAD ASSEMBLY



Excure



# EX II SAFETY OVERSHOT ASSEMBLY

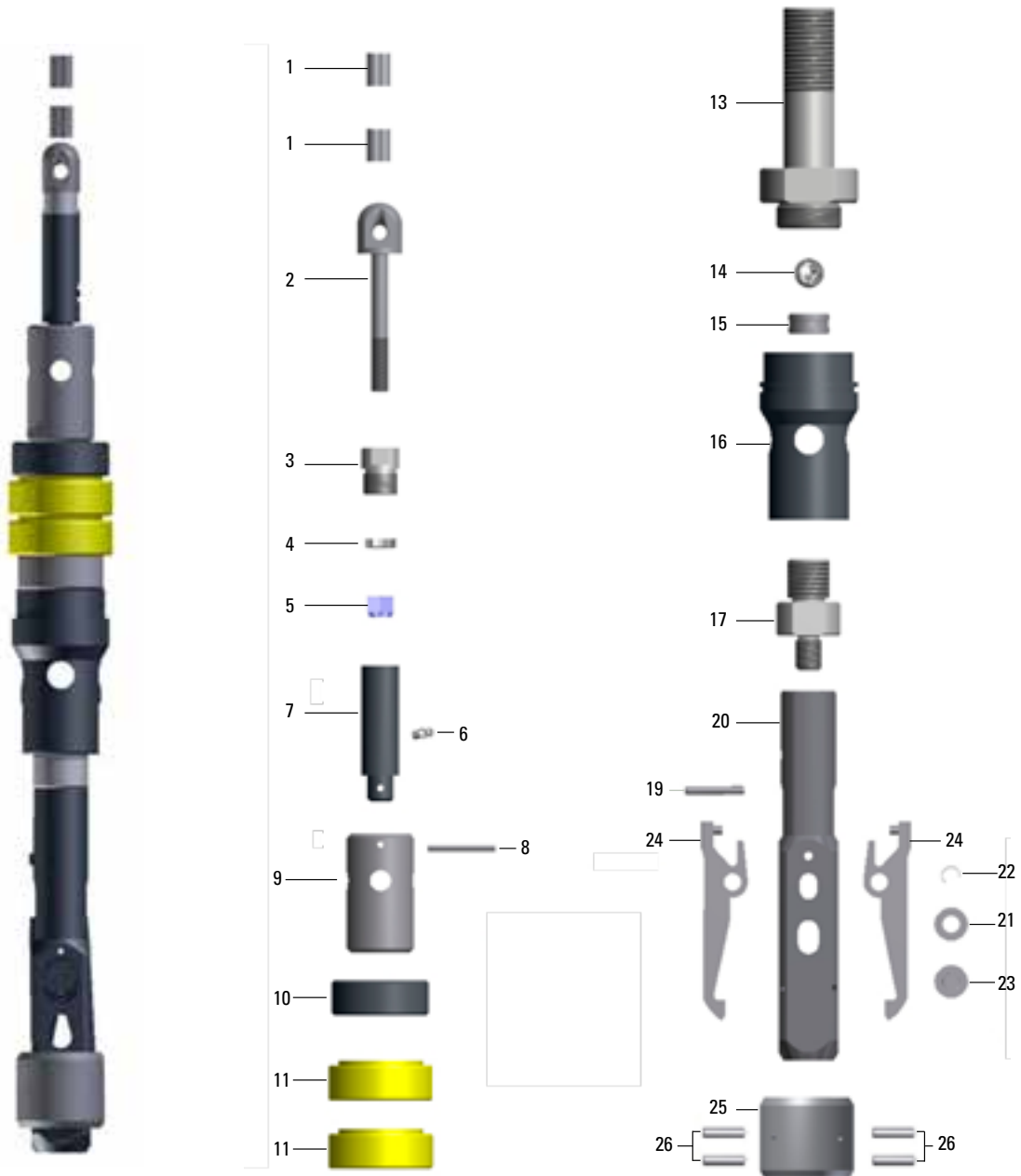
Item	Qty	Description	Part Number
		ExCore EX II Overshot assembly	3760 0162 81
1-6	1	EX II Cable swivel assembly	3760 0162 62
1	2	Nicopress sleeve oval	3760 0082 44
2	1	EX II Eye bolt	3760 0162 65
3	1	Cable swivel collar	3760 0072 16
4	1	Bearing	3760 0064 67
5	2	Nut 1/2 20 UNF GR8	3760 0123 31
6	1	Grease fitting	0544 1100 23
7	1	Cable swivel body	3760 0077 67
8	1	Shear pin 3/16 x 3/16 x 1 11/16	3760 0064 29
9	1	Valve cap	3760 0064 25
10	1	Lock nut UNC 1 1/12-6	3760 0064 26
11	2	Pump-in lip seal	3760 0120 59
12	1	Valve adjusting washer (Not shown)	3760 0062 37
13	1	Seal seat	3760 0158 20
14	1	Ball S.S. - x 22 mm DIA	3760 0120 99
15	1	Landing indicator bushing	3760 0121 00
16	1	Lower latch body	3760 0156 74
17	1	Overshot threaded adapter	3760 0158 29
18	1	Lifting dog spring	3760 0063 73
19	1	Spring pin 1/4 x 1 3/4	0108 1691 87
20	1	NO EX-II Overshot head	3760 0162 44
21	2	Pivot pin retainer	3760 0162 46
22	1	Retaining ring	3760 0157 89
23	1	EX-II Pivot pin	3760 0162 49
24	2	EX-II Lifting dog	3760 0162 45
25	1	HO EX II Overshot Adapter sleeve	3760 0162 69
26	4	Spring pin 3/16 x 3/4 LG	0108 1691 84

\* The lifting capacity rating has a safety factor of 5:1 engraved on the Overshot Head which was independently tested on the the surface version only. The actual lift capacity on the underground assemblies is 450 kg with a safety factor of 4:1.



# EX II SAFETY OVERSHOT ASSEMBLY

H



Excure

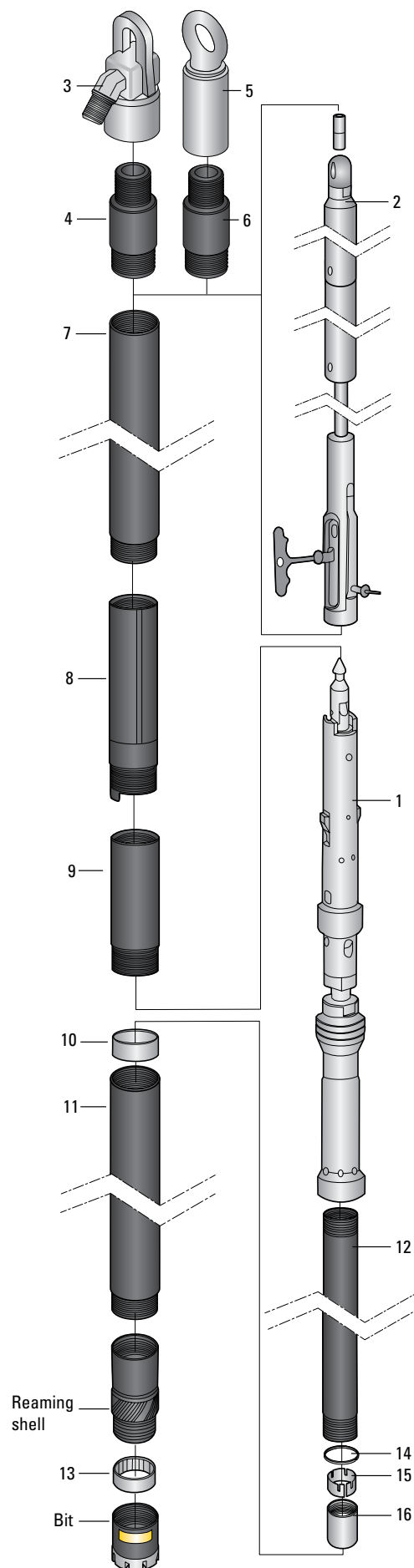
## Double tube Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		<i>PO-EX</i>	<i>PT-EX</i>	<i>PMO-EX(HWT)</i>
	1.5 m / 5 ft Core barrel assembly complete	3760 0163 36	3760 0163 85	3760 0163 87
	3.0 m / 10 ft Core barrel assembly complete	3760 0162 82	3760 0163 86	3760 0163 88
	1.5 m / 5 ft inner tube assembly complete	3760 0163 37		
	3.0 m / 10 ft inner tube assembly complete	3760 0163 38		
1	Head assembly complete (p.112)	3760 0162 83		
Overshot				
2	Overshot assembly complete (p.116)	3760 0161 93		
Water swivel*				
3	25000 TC Water swivel, BW rod box	3760 0003 76		
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0133 20	3760 0060 55	3760 0055 41
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread	3760 0060 10		
6	Hoisting plug adapter	3760 0079 58	3760 0158 07	3760 0152 52
Drill rods				
7	1.5 m drill rod		3760 0012 39	3760 0152 44
7	3.0 m drill rod		3760 0012 40	3760 0152 45
7	1.5 m drill rod - PG Wireline Rod	8393 0810 12**		
7	3.0 m drill rod - PG Wireline Rod	8393 0810 13**		
7	5 ft drill rod		-	3760 0152 47
7	10 ft drill rod		3760 0060 58	3760 0152 48
Consumables/Accessories				
8	Locking coupling	3760 0151 73	3760 0151 74	3760 0151 75
9	Adapter coupling	3760 0060 61		
10	Landing ring	3760 0062 74		
11	1.5 m / 5 ft outer tube	3760 0060 62		
11	3.0 m / 10 ft outer tube	3760 0060 63		
12	1.5 m / 5 m inner tube	3760 0060 64		
12	3.0 m / 10 ft inner tube	3760 0060 65		
13	Inner tube stabilizer	3760 0062 75		
14	Stop ring	3760 0062 71		
15	Core lifter	3760 0041 85		
16	Core lifter case	3760 0062 73		
Full grip wrenches				
Inner tube wrenches		3760 0060 68		
Outer tube wrenches		3760 0060 69		
Spare parts kit 760 0163 39				

\*See optional Swivels and Adapters in Accessories section starting on page 132.

\*\* PG Rods Heavy Duty (OD 117,5 mm).



# COMPACT CORE BARREL SYSTEM



## Double tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
122.7	85.0	4.83	3.34

## Spare parts kit - 1000 meters/3300'

3760 0163 39

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0162 87	1	HO Compression spring	3760 0077 65
1	Compression spring	3760 0153 94	1	Lock nut 1-8 UNC	3760 0130 04
1	Detent	3760 0153 95	1	Ball S.S 22 mm DIA	3760 0120 99
2	Spiral pin 7/16 x 1 3/4	3760 0162 92	2	Landing indicator bushing	3760 0121 00
2	Spiral pin 1/2 x 2 3/4	3760 0162 93	1	HHCS 3/8-16 UNC - 1 3/8 LG GR8	3760 0134 77
1	HO EX Compression spring UG	3760 0145 05	2	Landing ring	3760 0062 74
2	Latch	3760 0162 86	2	Inner tube stabilizer	3760 0062 75
4	Spring pin 3/8 x 1 1/2	3760 0099 16	4	Core lifter case	3760 0062 73
1	Lock nut 1 5/8 - 12 UNC	3760 0077 49	20	Core lifter	3760 0041 85
4	PO-EX Shut-off valve	3760 0162 91	2	Grease fitting	0544 1100 07
4	Thrust bearing	3760 0064 71	4	Stop ring	3760 0062 71
2	Thrust bearing	3760 0064 61			

## EX II Safety overshoot spare parts kit - 1000 meters/3300'

3760 0161 90

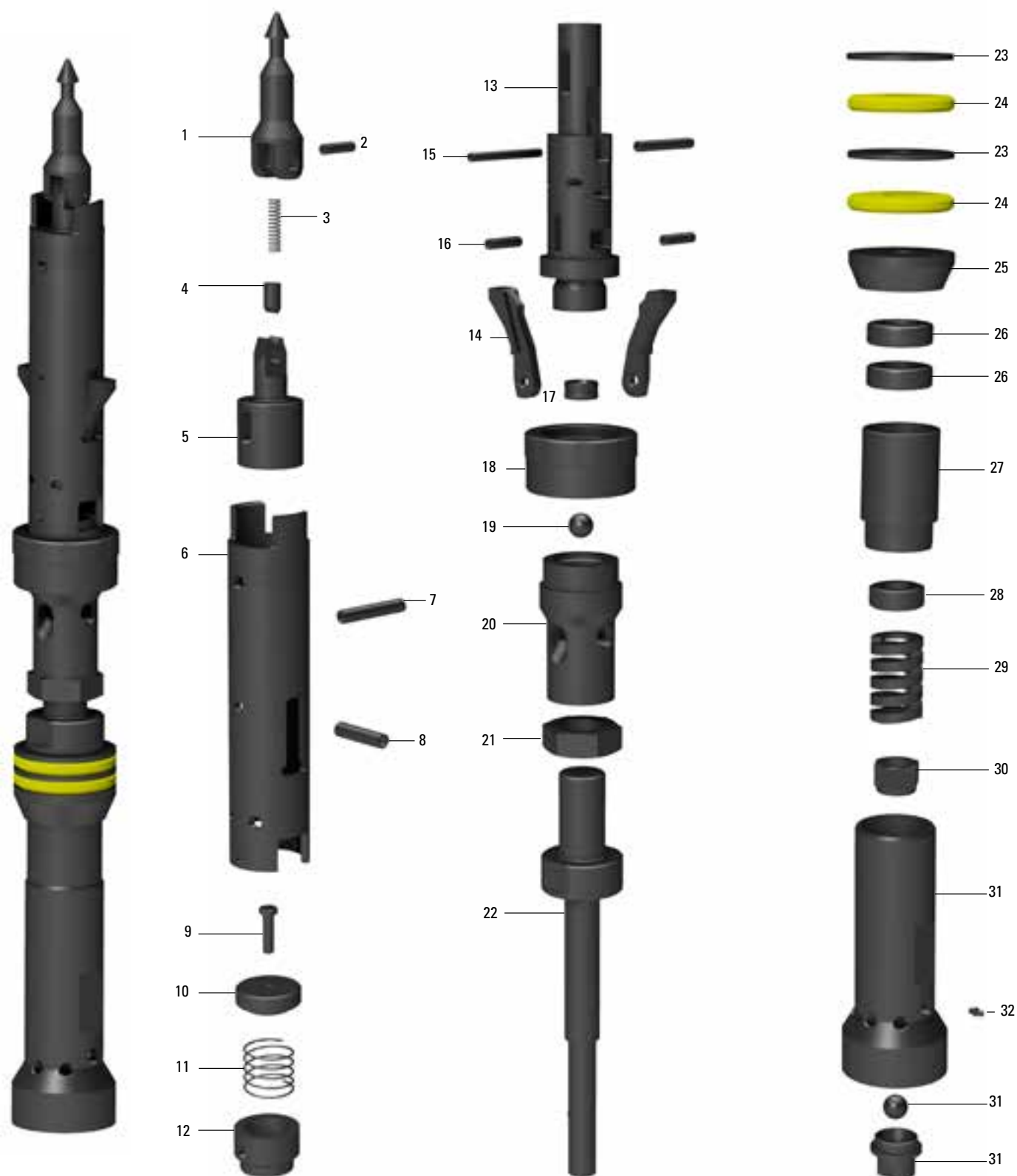
Qty	Description	Part number	Qty	Description	Part number
2	Nicopress sleeve Oval	3760 0082 44	1	N H Pivot pin	3760 0162 49
1	Bearing	3760 0064 67	1	N H Pivot pin retainer	3760 0162 46
2	Nut hex 1/2-20	3760 0123 31	2	N H Retaining ring	3760 0157 89
2	1/4 Grease fitting	0544 1100 23	2	N H EX-II Lifting dog	3760 0162 45
5	Lifting dog spring	3760 0063 73	1	Safety overshoot sleeve	3760 0161 95
1	Spring pin 1/4 x 1 3/4 LG	0108 1691 87	1	Roll pin 3/16 x 1 LG	5530 7750 00

# COMPACT HEAD ASSEMBLY

Item	Description	Part number	Qty	Kg	Lbs
	Head assembly complete	3760 0162 83	1	26.400	58.202
1	Spearhead	3760 0162 87	1	0.500	1.102
2	Spiral pin 7/16 x 1 3/4	3760 0162 92	1	0.010	0.022
3	Compression spring	3760 0153 94	1	0.051	0.112
4	Detent plunger	3760 0153 95	1	0.018	0.039
5	HO/HOU EX Spearhead base	3760 0144 92	1	0.020	0.044
6	Latch retracting case	3760 0156 71	1	2.646	5.833
7	Spiral pin - 1/2 x 2 3/4	3760 0162 93	1	0.010	0.022
8	Spring pin 3/8 x 2 3/4 LG	3760 0145 00	1	0.024	0.052
9	HHCS 3/8-16 UNC x 1 1/4 LG	3760 0134 77	1	0.022	0.048
10	HO/HOU EX Latch spring guide	3760 0156 77	1	0.500	1.102
11	HOU EX Compressing spring	3760 0145 05	1	0.052	0.114
12	HO EX Latch piston	3760 0156 76	1	2.700	5.952
13	HO EX Compact upper latch body	3760 0156 73	1	3.000	6.613
14	PO EX Latch	3760 0162 86	2	0.220	0.485
15	Spring pin 3/8 x 1 1/2	3760 0099 16	2	0.010	0.022
16	Spring pin 1/4 x 2 3/4 LG	3760 0145 02	1	0.010	0.022
17	Landing indicator bushing	3760 0121 00	1	0.006	0.013
18	PO EX Landing shoulder	3760 0162 85	1	0.160	0.352
19	Ball S.S - 22 mm DIA	3760 0120 99	1	0.045	0.099
20	PO EX Lower latch body	3760 0150 03	1	2.128	4.691
21	PO EX Lock nut	3760 0077 49	1	0.330	0.727
22	PO EX Spindle	3760 0150 05	1	2.710	5.974
23	PO EX Valve adjusting washer	3760 0162 90	2	0.120	0.264
24	PO EX Shut off valve	3760 0162 91	2	0.040	0.088
25	PO EX Tapered valve washer	3760 0162 89	1	0.120	0.264
26	Thrust bearing	3760 0064 71	2	0.232	0.511
27	HO Spindle bearing	3760 0062 53	1	0.340	0.749
28	Thrust bearing	3760 0064 61	1	0.174	0.383
29	HO Compression spring	3760 0077 65	1	0.440	0.970
30	Lock nut 1-8 UNC	0292 1313 00	1	0.120	0.264
31	PO EX Inner tube cap assembly (includes Grease fitting)	3760 0162 84	1	3.260	7.142
32	Grease fitting	0544 1100 23	1	0.001	0.002

# COMPACT HEAD ASSEMBLY

**P**  
**EX**



Excore

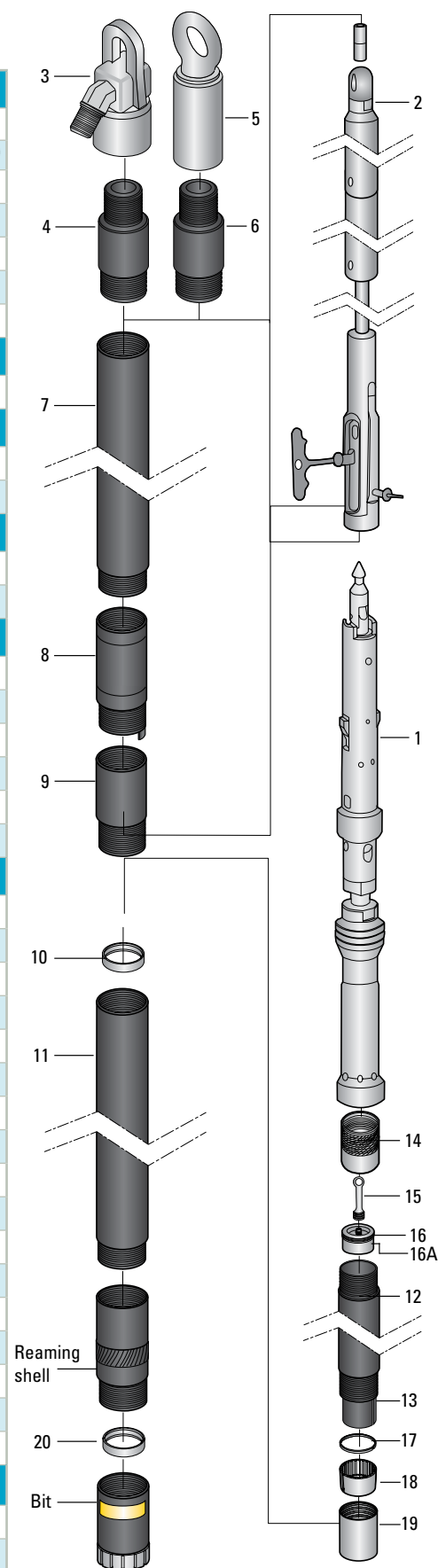
## Triple tube Core barrel

Surface

Core barrels				
Item	Description <i>Drill rod connection</i>	Part number		
		P03-EX	PT3-EX	PM03-EX (HWT)
	1.5 m / 5 ft Core barrel assembly complete	3760 0163 91	3760 0163 93	3760 0163 95
	3.0 m / 10 ft Core barrel assembly complete	3760 0163 92	3760 0163 94	3760 0163 96
	1.5 m / 5 ft inner tube assembly complete		3760 0163 89	
	3.0 m / 10 ft inner tube assembly complete		3760 0163 90	
1	Head assembly complete (p.112)		3760 0162 83	
Overshot				
2	Overshot assembly complete (p.116)		3760 0161 93	
Water swivel*				
3	25000 TC Water swivel, BW rod box		3760 0003 76	
4	Drill rod adapter BW rod pin to W/L rod pin	3760 0133 20	3760 0060 55	3760 0055 41
Hoisting plug				
5	BNHP Hoisting plug assembly, NW box thread		3760 0060 10	
6	Hoisting plug adapter	3760 0079 58	3760 0158 07	3760 0152 52
Drill rods				
7	1.5 m drill rod		3760 0012 39	3760 0152 44
7	3.0 m drill rod		3760 0012 40	3760 0152 45
7	1.5 m drill rod - PG Wireline Rod	8393 0810 12**		
7	3.0 m drill rod - PG Wireline Rod	8393 0810 13**		
7	5 ft drill rod		-	3760 0152 47
7	10 ft drill rod		3760 0060 58	3760 0152 48
Consumables/Accessories				
8	Locking coupling	3760 0151 73	3760 0151 74	3760 0151 75
9	Adapter coupling		3760 0060 61	
10	Landing ring		3760 0062 74	
11	1.5 m / 5 ft outer tube		3760 0060 62	
11	3.0 m / 10 ft outer tube		3760 0060 63	
12	1.5 m / 5 m inner tube		3760 0060 64	
12	3.0 m / 10 ft inner tube		3760 0060 65	
13	1.5 m / 5 m Split inner tube		3760 0056 29	
13	3.0 m / 10 ft Split inner tube		3760 0082 93	
14	Adapter		3760 0062 82	
15	Piston plug		3760 0062 83	
16	Piston		3760 0062 84	
16A	O-ring		0663 9216 00	
17	Stop ring		3760 0062 91	
18	Core lifter - Fluted		3760 0062 92	
19	Core lifter case		3760 0062 73	
20	Inner tube stabilizer		3760 0062 75	
Full grip wrenches				
Inner tube wrenches			3760 0060 68	
Outer tube wrenches			3760 0060 69	
Spare parts kit 760 0060 66				

\* See optional Swivels and Adapters in Accessories section starting on page 132.

\*\* PG Rods Heavy Duty (OD 117,5 mm).



# COMPACT CORE BARREL SYSTEM

**P3**  
**EX**

## Triple tube Core barrel

Surface

System information			
Metric system (mm)		Imperial system (in)	
Hole Diameter	Core Diameter	Hole Diameter	Core Diameter
122.7	83.0	4.83	3.27

## Spare parts kit - 1000 meter/3300'

3760 0164 08

Qty	Description	Part number	Qty	Description	Part number
1	Spearhead	3760 0162 87	4	Spring pin 3/8 x 1 1/2 LG	3760 0099 16
1	Compression spring	3760 0153 94	2	1/4 Grease fitting	0544 1100 23
1	Detent	3760 0153 95	1	Lock nut	3760 0077 49
2	Spiral pin 7/16 x 1-3/4 LG	3760 0162 92	4	Shut-off valve	3760 0162 91
4	Core lifter case	3760 0062 73	1	Bearing	3760 0064 71
20	Core lifter - Fluted	3760 0062 92	2	Thrust bearing	3760 0064 61
2	Spiral pin 1/2 x 2 3/4 LG	3760 0162 93	1	HO Compression spring	3760 0077 65
2	Inner tube stabilizer	3760 0062 75	1	HO Nut stover 1 8 UNC SS	3760 0130 04
1	HHCS 3/8-16 UNC x 1-1/4 LG	3760 0134 77	1	22 mm Steel ball	3760 0120 99
1	HOUX Compression spring HD	3760 0145 05	2	Landing ring	3760 0062 74
2	Latch	3760 0162 86	2	Landing indicator bushing	3760 0121 00
4	Stop ring	3760 0063 91			

## EX II Safety overshoot spare parts kit - 1000 m /3300'

3760 0161 90

Qty	Description	Part number	Qty	Description	Part number
2	Nicopress sleeve Oval	3760 0082 44	1	N H Pivot pin	3760 0162 49
1	Bearing	3760 0064 67	1	N H Pivot pin retainer	3760 0162 46
2	Nut hex 1/2-20	3760 0123 31	2	N H Retaining ring	3760 0157 89
2	1/4 Grease fitting	0544 1100 23	2	N H EX-II Lifting dog	3760 0162 45
5	Lifting dog spring	3760 0063 73	1	Safety overshoot sleeve	3760 0161 95
1	Spring pin 1/4 x 1 3/4 LG	0108 1691 87	1	Roll pin 3/16 x 1 LG	5530 7750 00

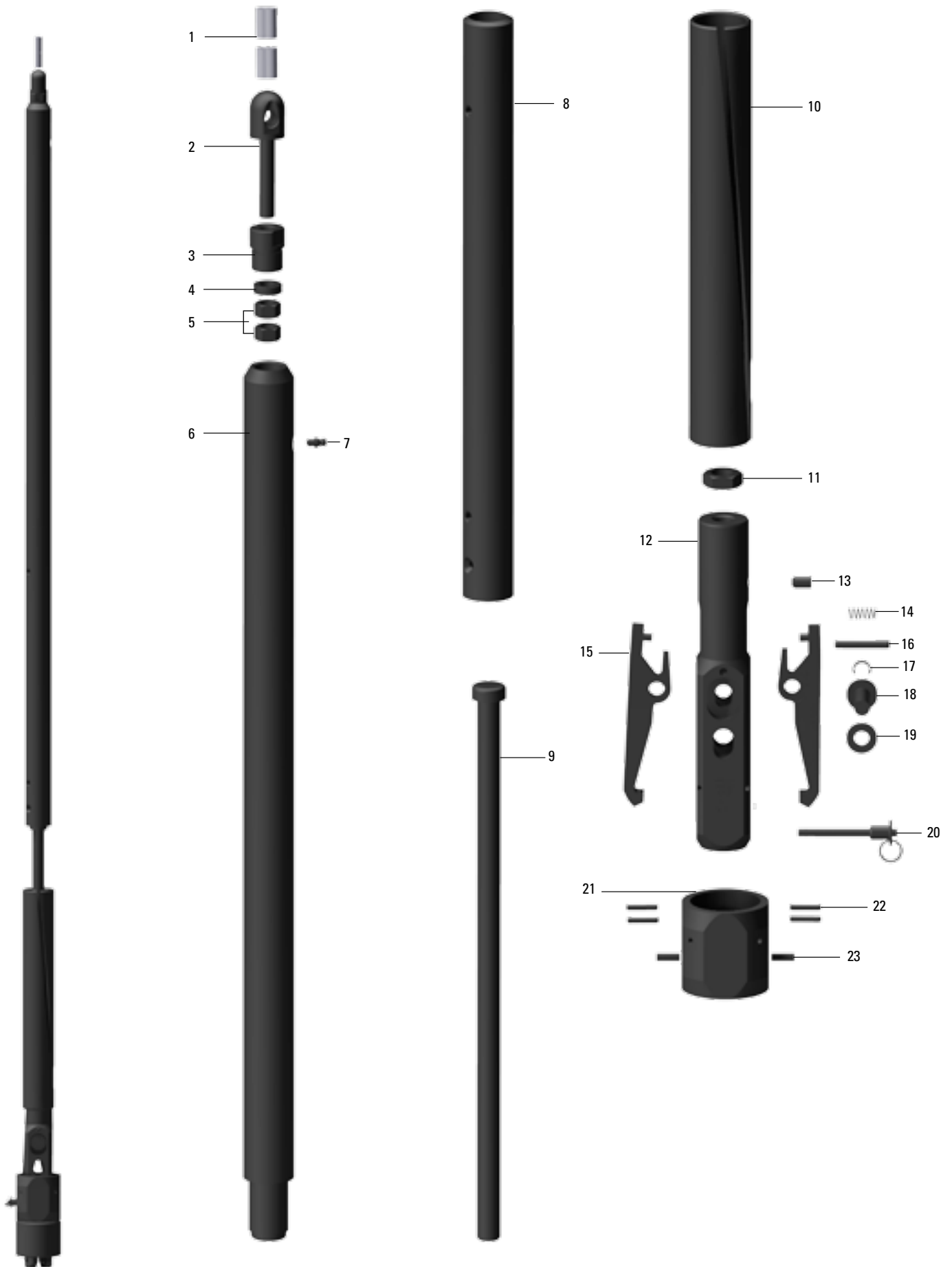
Excore



Item	Description	Part number	Qty
	Overshot assembly complete	3760 0161 93	1
1-6	Cable swivel assembly complete	3760 0162 62	1
1	Nicopress sleeve oval	3760 0082 44	2
2	Eye bolt	3760 0162 65	1
3	Cable swivel collar	3760 0072 16	1
4	Bearing	3760 0064 67	1
5	Hex nut 1/2-20 UNF GRD8	3760 0123 31	2
6	NO Sinking bar body	3760 0063 84	1
7	Grease fitting	0544 1100 23	1
8	NOEX Jar tube weldment	3760 0156 60	1
9	NOEX thread Jar staff	3760 0156 63	1
10	Locking sleeve	3760 0063 81	1
11	Nut hex 3/4-10 GRD5	5530 6164 00	1
12	NOEX II Safety plus overshot head	3760 0162 44	1
13	Pivot pin	3760 0162 49	1
14	Lifting dog spring	3760 0063 73	1
15	NO Lifting dog	3760 0162 45	2
16	Spring pin 1/4 x 1 3/4	0108 1691 87	1
17	Pin retaining clip	3760 0157 89	1
18	Pivot pin retainer	3760 0162 46	1
19	SHSS 3/8 -24 x 5/8	3760 0070 85	1
20	Safety pin	3760 0162 47	1
21	Adapter sleeve	3760 0161 95	1
22	Roll pin	5530 7750 00	4
23	Spring pin 1/4 x 3/4 LG	0108 1691 86	2
24	Safety overshot release tool (not shown)	3760 0162 30	1

# EXII SAFETY OVERTSHOT ASSEMBLY

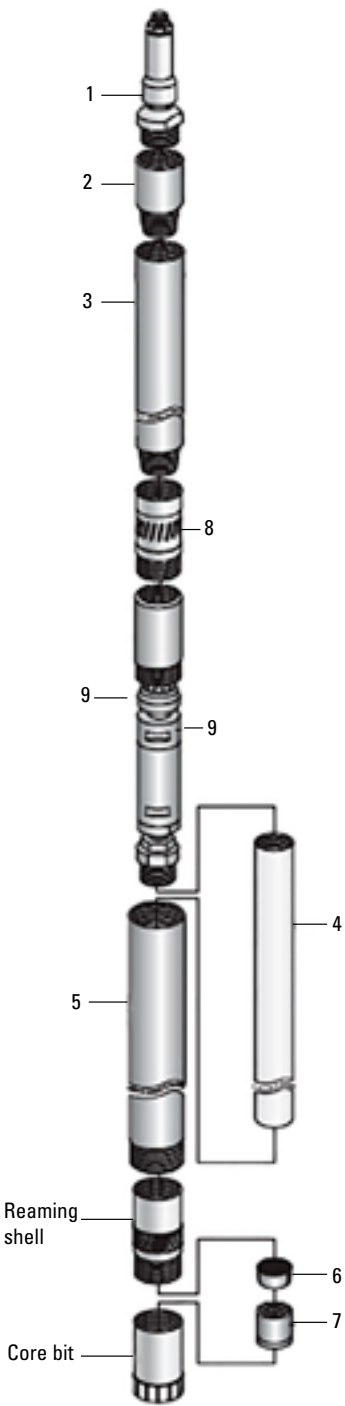
**P**  
**EX**



Excore

Item	Description	Part number	Kg	Lbs
4-10	Complete 1.5 m Core barrel box CR42	8393 0815 18	12.700	27.998
4-10	Complete 3.0 m Core barrel box CR42	8393 0815 19	20.000	44.092
<b>Water swivels</b>				
1	Water swivel 18/0 with CR 42 mm pin	8070 0107 42	1.950	4.299
2	Sub CR 42 mm box to AWJ pin	3862 6675 00	1.180	2.601
<b>Drill rods</b>				
3	AWJ 43 x 500 m compolite drill rod*	8393 0810 27	2.000	4.409
3	AWJ 43 x 1500 m compolite drill rod*	8393 0282 50	5.700	12.566
3	AWJ 43 x 3000 m compolite drill rod*	8393 0282 60	11.000	24.250
3	43 x 500 m compolite drill rod (CR42)	8393 0133 08	1.900	4.188
3	43 x 1500 m compolite drill rod (CR42)	8393 0133 16	5.300	11.684
3	43 x 3000 m compolite drill rod (CR42)	8393 0133 24	10.200	22.487
<b>Consumables</b>				
4	Inner tube, 1.5 m	3702 0530 00	3.600	7.936
4	Inner tube, 3.0 m	3702 0535 00	7.200	15.873
5	Outer tube, 1.5 m	8393 0815 86	3.600	7.936
5	Outer tube, 3.0 m	8393 0815 87	7.200	15.873
6	Core lifter	3863 2165 00	0.020	0.044
7	Core case	3863 0101 00	0.110	0.242
8	CR 42 adapter / stabilizer (for CR42 drill rod)	8393 0816 15		
8	AWJ adapter / stabilizer (for AWJ drill rod)*	8393 0816 16	1.200	2.645
9	48TTG Core barrel Head assembly	8393 0815 11	4.250	9.369
10	Thread protector (not shown)		-	-
<b>Accessories</b>				
	AWJ Rod box to AW Casing pin	3760 0113 68	1.900	4.188
	Sub AWJ box to CR 42 pin	3862 6694 00	1.180	2.601
	Recovery tap - AWJ Coupling	3862 5874 00	1.190	2.623
<b>Full grip wrenches</b>				
	Inner tube wrench	3760 0061 07		
	Outer tube wrench	3760 0061 08		

\* For use with AWJ 43 drill rods, the 8393 0816 16 adapter must be used.



Data	Metric (mm)	Imperial (in)
Hole diameter	46.5	1.82
Core diameter	35.3	1.39
Standard connection box CR42 / AWJ		

## Head assembly

8393 0815 11

Qty	Description	Part number	Qty	Description	Part number
1	Guide shaft	8393 0810 52	1	Lock nut	0291 1112 00
1	Washer	8393 0810 51	1	Lubricating nipple	0544 2106 00
1	Valve	8393 0815 72	1	Core barrel head	8393 0814 83
1	Housing	8393 0810 54	2	Ball bearing	0502 1102 00
1	Shaft	8393 0810 57	1	Bearing	0510 0402 00
1	IT connection	8393 0814 87	1	Washer	8393 0810 60
1	Washer	8393 0811 64	1	Spacer	0324 1551 17
1	Cap screw	0211 1323 00	1	Washer	8393 0816 03
1	Spring	8393 0811 63	1	Hex nut	0261 1099 11
1	Washer	8393 0811 64	1	Spring pin	0108 3298 00

## Consumable kit

Core barrel consumable kit covers wearing parts based on experience is estimated to cover 500 meters of drilling. Minimum one set is recommended to be ordered with one Core barrel system but will depend on the drilling program and location of the drill.

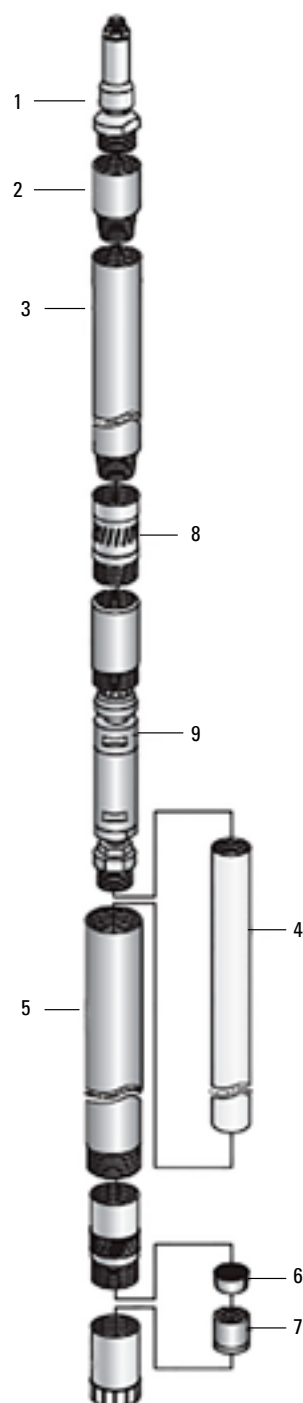
Consumable kit (500 m)	8393 0816 46
Description	Qty
Core lifter	10
Core lifter case	6

## Spare parts kit

Core barrel spare parts kit covers more parts than the consumable kit. The consumable parts kit are estimated to cover 500 meters of drilling. So additional consumable parts need to be ordered e.g. Core lifter, Core lifter case ect. Minimum one set of spare parts kit is recommended to be ordered with one Core barrel but will depend on the drilling program and location of the drill site.

Spare parts kit (500 m)	3702 0536 90
Description	Qty
Shut-off valve	1
Spring	1
Lock nut	1
Lubricating nipple	2
Ball bearing	2
Bearing	1
Seal	2
Spacer	1
Spring pin	2

Item	Description	Part number	Kg	Lbs
4-10	Complete 1.5 m Core barrel box AWJ	8393 0810 56	10.500	23.148
4-10	Complete 3.0 m Core barrel box AWJ	8393 0811 62	17.500	38.580
<b>Water swivels</b>				
1	AWJ Water swivel	3760 0083 63	1.950	4.299
2	Spindle adapter (incl. in AWJ water swivel)	3760 0083 61	0.640	1.410
<b>Drill rods</b>				
3	AWJ x 500 m compolite drill rod	8393 0811 66	2.590	5.709
3	AWJ x 1500 m compolite drill rod	8393 0811 67	6.500	14.330
3	AWJ x 3000 m compolite drill rod	8393 0811 68	12.000	26.455
<b>Consumables</b>				
4	Inner tube, 1.5 m	8393 0810 16	2.400	5.291
4	Inner tube, 3.0 m	8393 0810 55	4.730	10.427
5	Outer tube, 1.5 m	8393 0810 35	4.300	9.479
5	Outer tube, 3.0 m	8393 0810 36	8.200	18.077
6	Core lifter	3863 2165 00	0.016	0.035
7	Core case	8393 0810 50	0.090	0.198
8	Stabilizer	8393 0810 59	0.810	1.785
9	48TT Core barrel Head assembly	8393 0811 86	2.380	5.247
10	Thread protector (not shown)	8393 0811 17	-	-
<b>Accessories</b>				
AWJ Rod box to AW Casing pin		3760 0113 68	3.900	8.598
Sub AWJ box to CR 42 pin		3862 6694 00	0.640	1.410
Recovery tap 30-42 mm box CR 42		3862 5874 00	1.190	2.623
<b>Full grip wrenches</b>				
Inner tube wrench		3760 0061 07		
Outer tube wrench		3760 0061 08		



Data	Metric (mm)	Imperial (in)
Hole diameter	48.000	1.890
Core diameter	35.300	1.390
Standard connection box	AWJ	

## Head assembly

8393 0811

Qty	Description	Part number	Qty	Description	Part number
1	Guide shaft	8393 0810 52	1	Lock nut	0291 1112 00
1	Washer	8393 0810 51	1	Lubricating nipple	0544 2106 00
1	Valve	8393 0811 03	1	Core barrel head	8393 0810 49
1	Housing	8393 0810 54	2	Ball bearing	0502 1102 00
1	Shaft	8393 0810 57	1	Bearing	0510 0402 00
1	IT connection	8393 0810 58	1	Washer	8393 0810 60
1	Washer	8393 0811 65	1	Spacer	0324 1551 17
1	Cap screw	0211 1323 00	1	Washer	8393 0816 03
1	Spring	8393 0811 63	1	Hex nut	0261 1099 11
1	Washer	8393 0811 64	1	Spring pin	0108 3298 00

## Consumable kit

Core barrel consumable kit covers wearing parts based on experience is estimated to cover 500 m of drilling. Minimum one set is recommended to be ordered with one Core barrel system but will depend on the drilling program and location of the drill.

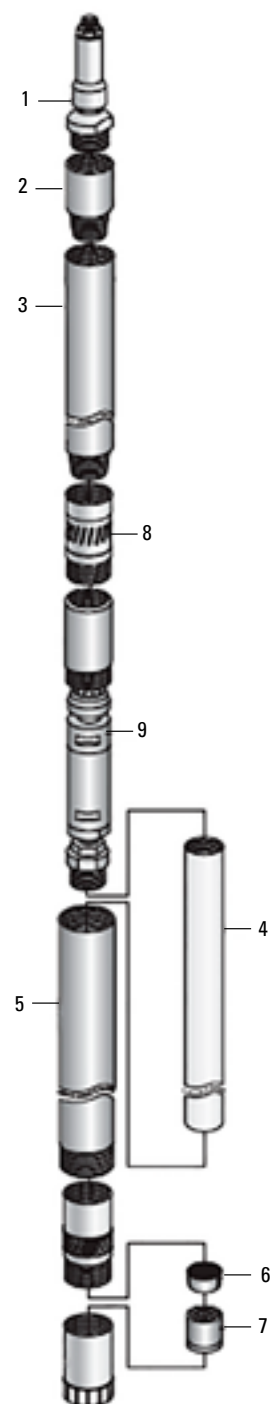
Consumable kit (500 m)	8393 0812 00
Description	Qty
Core lifter	10
Core lifter case	6

## Spare parts kit

Core barrel spare parts kit covers more parts than the consumable kit. The consumable parts kit are estimated to cover 500 meters of drilling. So additional consumable parts need to be ordered e.g. Core lifter, Core lifter case ect. Minimum one set of spare parts kit is recommended to be ordered with one Core barrel but will depend on the drilling program and location of the drill site.

Spare parts kit (500 m)	3760 0159 99
Description	Qty
Shut-off valve	1
Spring	1
Lock nut	1
Lubricating nipple	2
Ball bearing	2
Bearing	1
Seal	2
Spacer	1
Spring pin	2

Item	Description	Part number	Kg	Lbs
4-10	Complete 1.5 m Core barrel box BWJ	3760 0157 63	12.700	27.998
4-10	Complete 3.0 m Core barrel box BWJ	3760 0157 64	20.000	44.092
<b>Water swivels</b>				
1	Water swivel 18/0 with CR 42 mm pin	8070 0107 42	1.950	4.299
2	Sub CR 42 mm box to BWJ pin	3862 6676 00	1.180	2.601
<b>Drill rods</b>				
3	BWJ 55 x 500 m compolite drill rod	8393 0812 12	3.990	8.796
3	BWJ 55 x 1500 m compolite drill rod	8393 0812 13	10.000	22.046
3	BWJ 55 x 3000 m compolite drill rod	8393 0812 14	19.000	41.887
<b>Consumables</b>				
4	Inner tube, 1.5 m	3760 0157 59	3.600	7.936
4	Inner tube, 3.0 m	3760 0157 60	7.200	15.873
5	Outer tube, 1.5 m	3760 0157 61	3.600	7.936
5	Outer tube, 3.0 m	3760 0157 62	7.200	15.873
6	Core lifter	3760 0157 69	0.020	0.044
7	Core case	3760 0157 68	0.110	0.242
8	BWJ to 60TT Stabilizer sub	3760 0157 66	1.200	2.645
9	60TT Core barrel Head assembly	3760 0157 65	4.250	9.369
10	Thread protector (not shown)	3760 0157 67	-	-
<b>Accessories</b>				
BWJ Rod box to BW Casing pin		3760 0152 16	1.900	4.188
Sub BWJ box to CR 50 pin (Recovery tap adapter)		3862 6696 00	1.180	2.601
Recovery tap - BWJ Rod		3862 5880 00	1.190	2.623
Sub BWJ box to CR 42 pin (Rod coupling tap adapter)		3862 6676 00	1.180	2.601
Recovery tap - BWJ rod coupling		3862 5866 00	1.190	2.623
<b>Full grip wrenches</b>				
Inner tube wrench		3760 0157 79		
Outer tube wrench		3760 0060 18		



Data	Metric (mm)	Imperial (in)
Hole diameter	60.00	2.362
Core diameter	43.90	1.728
Standard connection box	BWJ	

## Head assembly

Qty	Description	Part number	Qty	Description	Part number
1	Guide shaft	8383 0814 48	1	Lock nut	0291 1114 00
1	Washer	8393 0814 49	1	Lubricating nipple	0544 2106 00
1	Valve	8393 0815 70	1	Core barrel head	8393 0815 15
1	Housing	8393 0814 47	2	Ball bearing	0502 1104 00
1	Shaft	8393 0814 46	1	Bearing	0510 0404 00
1	IT connection	8393 0815 39	1	Washer	8393 0814 55
1	Washer	8393 0814 51	1	Spacer	0324 1551 48
1	Cap screw	0211 1401 00	1	Washer	8393 0816 04
1	Spring	8393 0814 52	1	Hex nut	0261 1099 23
1	Washer	8393 0814 53	1	Spring pin	0108 1303 00

## Consumable kit

Core barrel consumable kit covers wearing parts based on experience is estimated to cover 500 m of drilling. Minimum one set is recommended to be ordered with one Core barrel system but will depend on the drilling program and location of the drill.

Consumable kit (500 m)	3760 0157 78
Description	Qty
Core lifter	10
Core lifter case	6

## Spare parts kit

Core barrel spare parts kit covers more parts than the consumable kit. The consumable parts kit are estimated to cover 500 meters of drilling. So additional consumable parts need to be ordered e.g. Core lifter, Core lifter case ect. Minimum one set of spare parts kit is recommended to be ordered with one Core barrel but will depend on the drilling program and location of the drill site.

Spare parts kit (500 m)	3760 0157 73
Description	Qty
Shut-off valve	1
Spring	1
Lock nut	1
Lubricating nipple	2
Ball bearing	2
Bearing	1
Seal	2
Spacer	1
Spring pin	2



# WIRELINER DRILL RODS AND CASINGS

## Wireline drill rods

Today's drilling industry has extremely high expectations for the people, equipment and the tools they use. When it comes to drill rods, it's very simple, they just need to perform, and nothing else is acceptable. When the failure of a rod could mean the loss of a drill hole and possibly the revenues that comes with it, there is no room for mistakes, lower quality or sub-standard products. Atlas Copco has listened to the industry and we understand what our customers' needs are. This is why we make no compromise on our rods. We only use very high quality steel from world class suppliers and manufacture our drill rods to the highest possible standards. All this to ensure quality, reliability and performance. We worry about our wire line rods so our customers don't have to. MO series

- High depth capacity.
- Flexible thread suitable for deviation drilling.
- Works in Shallow hole just as well as O type thread but with more pull back and torsion capacity.
- MO thread is perfectly matched to our lightweight wire line drill rods. CMO rods with a saving of 13 - 21% in weight while keeping all of the proven MO thread performance is the ideal drill rod for deep hole applications or when weight is an issue.

### CMO series

- CMO rods will make flight-in contract easier and less costly.
- CMO rods are also a good option when customers need to exceed the drills lifting/depth capacity on a project.
- CMO rods reduce significantly fuel consumption and put less strain on the engine and drill in general.

### T series

The industry wide recognized & accepted genuine "Tuff" rod with the "T" thread has been an industry leader for many years and countless drilled meters. Known throughout the industry for its strong pull back and performance in difficult drilling applications, it is perfectly suited when high pull back and torsion is needed in shallow or long, straight holes with no or little deviation.

### O series

The well-known O thread has been a common and widely used in the industry for decades. Atlas Copco has been making it to the same high standard for many years. The O series is suitable for shallow to medium depth hole found in many drilling contracts.

### Quality

We use only top rated steel blanks from world class suppliers. Atlas Copcos uncompromising standards in all aspects of material specifications ensure our customers are getting the very best we have to offer.

### Uncompromising straightness

Straight rods will reduce or eliminate vibration caused by uneven drill rods and the many serious problems associated with it. Atlas Copcos extremely high standard provides a truly straight wire line drill rod consistently over a complete rod string.

### Hoop stress

The hoop stress is the force exerted circumferentially. When this value is high, in the case of lower quality rods, it can cause the rods to deform and under drilling stress and become unusable. With Atlas Copcos stringent requirements and steel material standards we make sure every single rod we manufacture has a very low hoop stress value. This will eliminate potential bending of the rods after drilling has begun. This is crucial for all drilling systems but even more so for "top drive" drilling equipment as they have a tendency to deform the rods easier by design.

### 100% quality controlled

We control and verify every rod thread and adapter we make. This is to ensure a perfect fit every time our products are treaded together. We strongly recommend to our customer that they don't mix Genuine Atlas Copco Drill rods with other manufacturers rod to get the best performance and useful life.

Maintenance and proper care of the rods, particularly the threads are crucial to maximize the life and maintain the torsion and traction capacity of our rods. We ensure, with our manufacturing process that the threads have some initial protection against tread damage but we very strongly recommend using, from the very first use, proper care and maintenance. Keeping the threads clean and without contaminants in addition to using high quality \*\*thread grease will keep your investment performing to its best for the longest possible time.

\* Do not mix drill rods from different procedures or specifications. This may lead to failure or loss of drill string down the hole.

\*\* The use of high quality drill rod thread grease is essential to drill rod thread performance and durability. Failure to use it will cause premature wear and galling. For best results we recommend the use of thread grease containing metal particulate, ideally zinc, copper or graphite compositions.

## T-Series - Tuff rod

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
BT	0.6	3.040	6.702	3760 0012 23
BT	1.5	8.710	19.202	3760 0012 24
BT	3.0	17.690	38.999	3760 0012 25
NT	0.6	4.530	9.986	3760 0012 29
NT	1.5	11.400	25.200	3760 0012 30
NT	3.0	22.680	50.000	3760 0012 31
HT	0.6	6.850	15.101	3760 0012 35
HT	1.5	16.950	37.368	3760 0012 36
HT	3.0	34.150	75.287	3760 0012 37
PT	0.6	10.610	23.391	3760 0012 38
PT	1.5	25.850	56.989	3760 0012 39
PT	3.0	52.160	114.993	3760 0012 40
Imperial system				
BT	2 ft	3.500	7.800	3760 0012 20
BT	5 ft	9.070	19.995	3760 0012 21
BT	10 ft	18.020	39.727	3760 0012 22
NT	2 ft	4.760	10.494	3760 0012 26
NT	5 ft	11.580	25.529	3760 0012 27
NT	10 ft	23.870	52.624	3760 0012 28
HT	2 ft	7.250	15.983	3760 0012 32
HT	5 ft	17.310	38.162	3760 0012 33
HT	10 ft	34.980	77.117	3760 0012 34

Tuff rods can be used with a compatible size wireline Core barrel by ordering a Locking coupling with threads from AT through PT.



## Overview technical specifications

	BT	NT	HT	PT
Rated maximum depth (m)	2,650	2,600	2,600	1,500
Outer diameter	55.6	69.9	88.9	114.3
Inner (Tool joint) diameter (mm)	46.0	60.3	77.8	101.6
Rod weight per kg/³ m	17.7	22.7	34.4	114.9
Raw material minimum specification				
Yield strength minimum	690 Mpa			
Tensile strength minimum	813 Mpa			
Joint destructive test results				
Ultimate traction (kN)	432	525	820	822
Ultimate torsion (kN/m)	6.0	8.7	20.3	17.2

## Parallel wall - MO-Series heat treated

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
BMO	1.5	10.600	16.800	3760 0155 53
BMO	3.0	18.420	40.609	3760 0134 25
NMO	1.5	12.750	28.108	3760 0152 11
NMO	3.0	22.000	48.501	3760 0152 07
HMO	1.5	23.750	52.359	3760 0152 12
HMO	3.0	33.260	73.325	3760 0134 38
PMO (HWT)	0.6	14.610	31.217	3760 0152 49
PMO (HWT)	1.5	29.850	65.807	3760 0152 44
PMO (HWT)	3.0	52.160	114.993	3760 0152 45
Imperial system				
BMO	5	12.650	27.888	3760 0152 13
BMO	10	22.420	49.427	3760 0134 27
NMO	5	14.200	31.305	3760 0152 14
NMO	10	28.650	63.162	3760 0103 36
HMO	5	25.200	55.556	3760 0152 15
HMO	10	35.260	77.734	3760 0132 22
PMO (HWT)	2	14.610	31.217	3760 0152 46
PMO (HWT)	5	29.850	65.807	3760 0152 47
PMO (HWT)	10	52.160	114.993	3760 0152 48



## Overview technical specifications

	BMO	NMO	HMO	PMO
Rated maximum depth (m)	2 700	2 400	1 800	1 500
Outer diameter	55.60	69.90	88.90	114.40
Inner (Tool joint) diameter (mm)	46.10	60.30	77.80	101.40
Rod weight per kg/³ m	17.90	23.80	34.70	52.20
Raw material minimum specification				
Yield strength minimum	740 Mpa			
Tensile strength minimum	880 Mpa			
Joint destructive test results				
Joint traction to failure	102, 033 kgf (NMO)			
Joint torque to failure	72, 200 kgf/m (NMO)			

## Internally upset - CMO-Series

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
NCMO	3.0	20.700	45.600	3760 0126 36
HCMO	3.0	27.400	60.400	3760 0134 39
Imperial system				
NCMO	10	21.100	46.500	3760 0101 32
HCMO	10	27.900	61.600	3760 0047 67

Factor of safety applied to depth capacities, which are based on straight vertical fluid filled holes.

Third party destructive testing figures conducted on non heat treated drill rods are used for the baseline figures above. Customers having their personal experiences using the product, particularly with heat treated tool joints, regularly exceed these ratings and can interpolate their expectations. Ensure the accessories, Core barrel, and other thread connections properly mate with the selected tubular products.



## Overview technical specifications

	NCMO	NMO	HCMO	HMO
Rated maximum depth (m)	2 700	2 400	2 100	1 800
Outer diameter	69.90	69.90	88.90	88.90
Mid body inner diameter (mm)	61.80	60.90	80.90	77.80
Inner (Tool joint) diameter (mm)	60.30	60.30	77.80	77.80
Rod weight per kg/ <sup>3</sup> m	20.70	23.80	27.40	34.70

## Weight comparison

Weight differential Parallel wall versus Internally upset wall - kgs			
	MO Parallel wall	CMO Internal wall upset	% Weight decrease
N 3 m Rod	23.80	20.70	13
H 3 m Rod	34.70	27.40	21

## O-Series drill rods

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
BO	0.6	3.850	8.487	3760 0034 36
BO	1.5	8.830	19.466	3760 0012 50
BO	3.0	17.660	38.933	3760 0012 51
NO	0.6	4.540	10.008	3760 0034 40
NO	1.5	11.500	25.353	3760 0012 54
NO	3.0	22.680	50.000	3760 0012 55
HO	0.6	6.800	14.991	3760 0034 38
HO	1.5	17.230	37.985	3760 0012 58
HO	3.0	34.380	75.794	3760 0012 59
Imperial system				
BO	2	3.910	8.620	3760 0034 37
BO	5	9.260	20.414	3760 0012 48
BO	10	18.430	40.631	3760 0012 49
NO	2	4.990	11.001	3760 0034 41
NO	5	11.720	25.838	3760 0012 52
NO	10	23.440	51.676	3760 0012 53
HO	2	7.460	16.446	3760 0034 39
HO	5	17.310	38.162	3760 0012 56
HO	10	35.260	77.734	3760 0012 57

Specifications					
Size	Outer diameter		Inner diameter		Threads
	in	mm	in	mm	Per inch
*BO	2 3/16	55.6	1 13/16	46.0	3
*NO	2 3/4	69.9	2 3/8	60.3	3
*HO	3 1/2	88.9	3 1/16	77.8	3

\*) Box and pin ends are through heat treated.

## Overview technical specifications

	B0	N0	H0
Rated maximum depth (m)	1,500	1,700	1,500
Outer diameter	55.6	69.9	88.9
Inner (Tool joint) diameter (mm)	46.0	60.3	77.8
Rod weight per kg/3 m	17.7	22.7	34.4
Raw material minimum specification			
Yield strength minimum	690 Mpa		
Tensile strength minimum	813 Mpa		
Joint destructive test results			
Ultimate traction (kN)	257	356	488
Ultimate torsion (kN/m)	3.9	5.3	10.5



## TT-Series - Tuff rod - Thin wall

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
BTT	0.6	3.230	7.120	3760 0004 04
BTT	1.5	7.740	17.063	3760 0004 03
BTT	3.0	15.250	33.620	3760 0004 02
Imperial system				
BTT	2	3.280	7.231	3760 0004 01
BTT	5	7.860	17.328	3760 0004 00
BTT	10	15.490	34.149	3760 0003 99

Specifications					
Size	Outer diameter		Inner diameter		Threads
	in	mm	in	mm	Per inch
*BTT	2.23	56.5	1.92	48.8	2.5
*) Box and pin ends are through heat treated.					



## Thin wall drill rod - TW / GM Series

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
ATW / AGM	1.5	5.870	12.941	3760 0060 94
ATW / AGM	3.0	11.610	25.595	3760 0060 95
BTW / BGM	1.5	7.600	16.800	3760 0056 32
BTW / BGM	3.0	15.000	33.800	3760 0056 33
NTW	0.6	4.740	10.449	3760 0056 34
NTW	1.5	10.750	23.699	3760 0056 35
NTW	3.0	21.500	47.398	3760 0056 36
Imperial system				
ATW / AGM	5	5.960	13.139	3760 0060 96
ATW / AGM	10	11.610	25.595	3760 0060 97
BTW / BGM	5	7.750	17.085	3760 0053 59
BTW / BGM	10	15.460	34.083	3760 0053 60
NTW	5	10.750	23.699	3760 0053 61
NTW	10	21.500	47.398	3760 0053 62

Specifications					
Size	Outer diameter		Inner diameter		Threads
	in	mm	in	mm	Per inch
*ATW / AGM	1.75	44.5	1.45	36.8	**4
*BTW / AGM	2.23	56.5	1.92	48.8	**4
*) Box and pin ends are through heat treated.					
**) Metric thread from 5.5 mm pitch.					

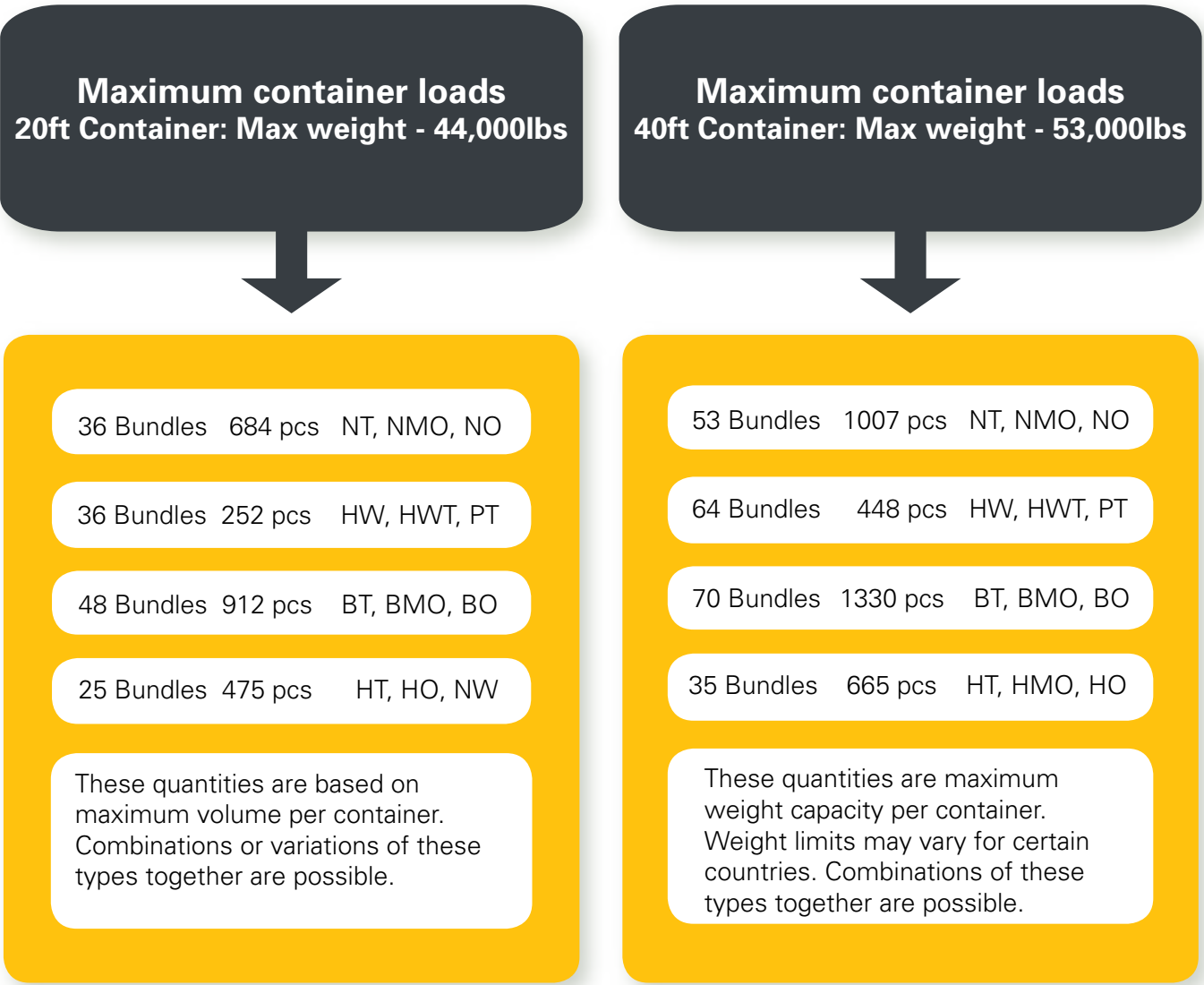
## Flush joint casings - W-Series

Description	Length	Weight		Part number
Metric system	m	Kg	Lbs	
AW	0.6	3.730	8.223	3760 0012 60
AW	1.5	8.850	19.510	3760 0012 61
AW	3.0	16.710	36.839	3760 0012 62
BW	0.6	6.260	13.800	3760 0012 63
BW	1.5	15.650	34.502	3760 0012 64
BW	3.0	31.270	68.938	3760 0012 65
NW	0.6	7.480	16.490	3760 0012 66
NW	1.5	18.600	41.005	3760 0012 67
NW	3.0	39.050	86.090	3760 0012 68
HW	0.6	10.240	22.575	3660 0012 69
HW	1.5	25.400	55.997	3760 0012 70
HW	3.0	50.800	112.100	3760 0012 71
HWT	0.6	10.240	22.575	3760 0050 93
HWT	1.5	25.400	55.997	3760 0050 94
HWT	3.0	50.800	112.100	3760 0048 21
PW	0.6	13.780	30.379	3760 0078 87
PW	1.5	34.020	75.001	3760 0078 88
PW	3.0	64.270	141.691	3760 0078 79
PWT	0.6			3760 0150 60
PWT	1.5			3760 0120 66
PWT	3.0			3760 0150 62

Specifications					
Size	Outer diameter		Inner diameter		Threads
	in	mm	in	mm	Per inch
AW	2 1/4	57.1	1 29/32	48.4	4
BW	2 7/8	73.0	2 3/8	60.3	4
NW	3 1/2	88.9	3	76.2	4
HW / HWT	4 1/2	114.3	4	101.6	4
PW / PWT	5 1/2	140.0	5	127.0	3



Shipping information



Pieces per bundle

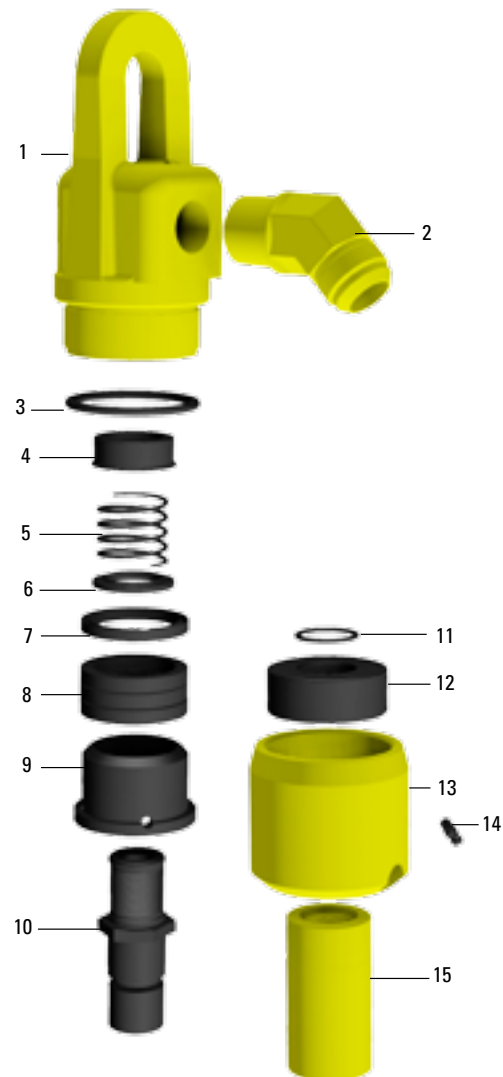
Rod/Casing Size	Pieces per bundle	Rod/Casing Size	Pieces per bundle
AWJ	37	H/NW	19
ATW/ATT	37	PMO(HWT)/HW	7
B/AW	19	PT	7
BTW/BTT/BWJ	19	PW/PWT	7
N/BW	19	SG	7
NTW	19	SW	7



Item	Description	Qty	Part number
1-14	5000 Teflon and Ceramic (T.C) Water swivel		3760 0036 27
1	Bail	1	3760 0064 44
2	Connector (NPT16/JIC16)	1	5290414
3	O-Ring	1	0663 9197 01
4	Spring seat	1	3760 0064 45
5	Compression spring	1	3760 0064 43
6	Packing gland	1	3760 0064 46
7	Water swivel seal	1	3760 0064 50
8	Teflon packing (Set of 3)	1	3760 0064 47
9	Packing cage	1	3760 0064 48
10	Spindle	1	3760 0064 49
11	O-ring	1	0663 9110 00
12	Bearing	1	3760 0064 79
13	Body	1	3760 0064 51
14	Grease fitting	1	0544 1100 23
15	Spindle extension	1	3760 0064 42

## Data

5000T.C Water swivel assembly	4.7 kg	10.4 lbs
Static hoisting capacity	2270 kg	5000 lbs
Unit length (less adapter)	279 mm	11 in
Diameter	76 mm	3 in
Max RPM	2500	
Inlet pipe connection	1 NPT	
Spindle rod thread	Aw rod box	



## Drill rod pin to drill rod pin

Drill rod pin	Drill rod pin	Part number
AW	AWJ	3760 0084 11
AW	ATW/AGM	3760 0060 90
AW	BTT	3760 0061 17
AW	BTW/BGM	3760 0061 16
AW	BT	3760 0060 09
AW	BMO	3760 0157 43
AW	BO	3760 0060 08
AW	NT	3760 0081 05
AW	NMO	3760 0153 11
AW	NO	3760 0081 08
AW	HT	3760 0081 06
AW	HMO	3760 0157 44
AW	HO	3760 0081 09



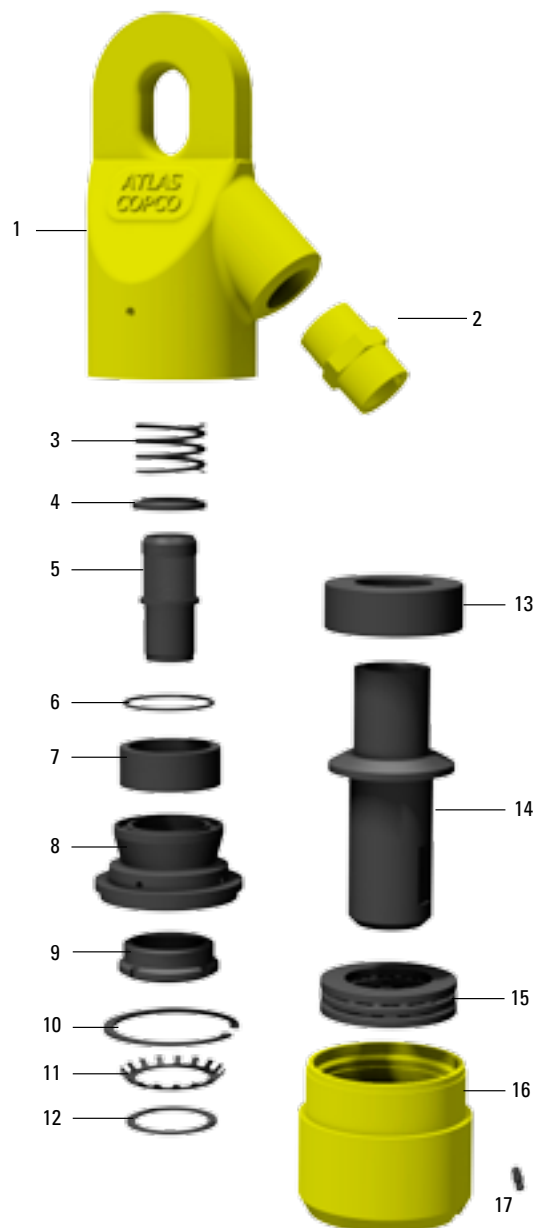
Item	Description	Qty	Part number
1-17	25000 Teflon and Ceramic(T.C) Water swivel		3760 0003 76
1	Bail	1	3760 0064 52
2	Connector (1 1/4 in hose)	1	3760 0123 14
3	Compression spring	1	3760 0064 57
4	Packing gland	1	3760 0064 59
5	Spindle extension	1	3760 0064 58
6	O-ring	1	0663 2112 32
7	Teflon packing (Set of 3)	1	3760 0003 80
8	Packing cage	1	3760 0064 60
9	Spindle extension nut	1	3760 0064 53
10	Retaining ring	1	3760 0081 03
11	Lock washer	1	3760 0070 87
12	Spacer	1	3760 0064 54
13	Ball bearing	1	3760 0064 78
14	Spindle	1	3760 0064 56
15	Thrust bearing	1	3760 0064 80
16	Body	1	3760 0064 55
17	Grease fitting	1	0544 1100 23

## Data

25000 T.C. Water swivel assembly	13.8 kg	30.5 lbs
Static hoisting capacity	11340 kg	25000 lbs
Rotation with load capacity	5000 kg	11000 lbs
Unit length (less adapter)	381 mm	15 in
Diameter	114.3 mm	4 1/2 in
Spindle inner diameter	26.9 mm	1 1/16 in
Max RPM	2000	
Inlet pipe connection	1 1/4 in NPT	
Spindle rod thread	BW rod box	

## Drill rod pin to drill rod pin

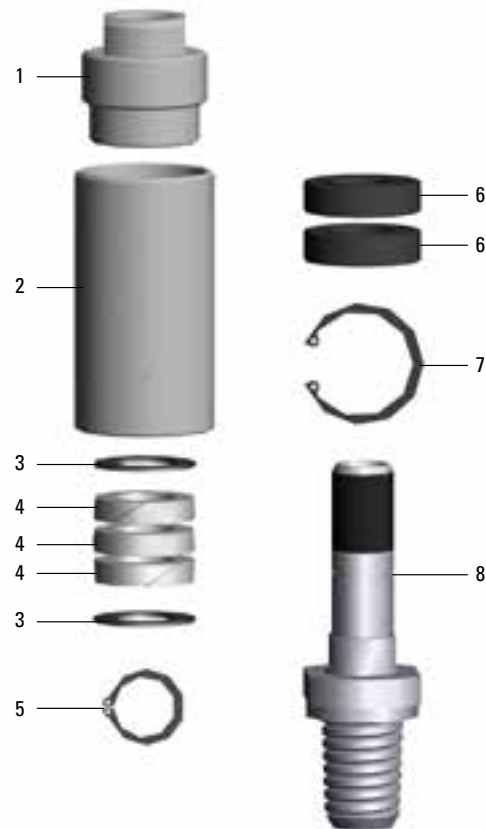
Drill rod pin	Drill rod pin	Part number
BW	BTT	3760 0157 19
BW	BTW/BGM	3760 0157 45
BW	BT	3760 0081 02
BW	BMO	3760 0134 46
BW	BO	3760 0077 20
BW	NTW/NGM	3760 0157 46
BW	NT	3760 0060 23
BW	NMO	3760 0126 23
BW	NO	3760 0060 22
BW	HT	3760 0060 40
BW	HMO	3760 0134 40
BW	HO	3760 0060 39
BW	PT	3760 0060 55
BW	PO	3760 0133 20
BW	HWT	3760 0055 41



## AWJ T.C Water swivel

Item	Description	Qty	Part number
1-8	AWJ Teflon and Ceramic(T.C) Water swivel		3760 0083 63
1	Gland nut	1	3760 0083 58
2	Water swivel body	1	3760 0083 62
3	Gland washer	2	3760 0083 60
4	Packing (Set of 3)	1	3760 0083 59
5	External snap ring	1	3760 0082 46
6	Bearing	2	3760 0085 26
7	Internal snap ring	1	0335 2143 00
8	Spindle (Teflon coated)	1	3760 0083 61
Not shown	Trido Mud Pump hose adapter 3/4 NPT to JIC 12	1	3760 0099 26

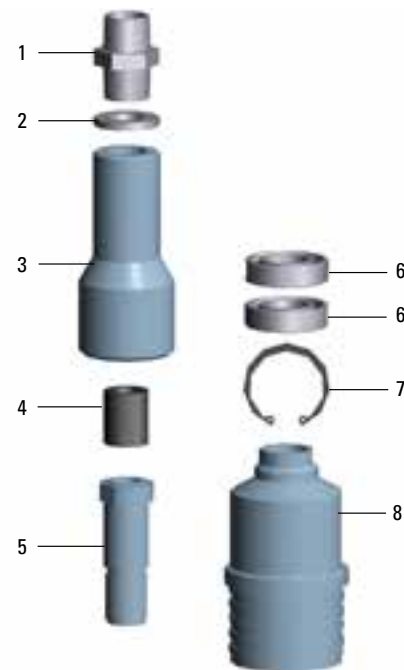
Data		
Unit length	190.5 mm	7.5 in
Spindle I.D.	15.8 mm	0.62 in
Spindle diameter	26.9 mm	1.06 in
Max RPM	2500	
Inlet hose connection	3/4 in NPT	
Spindle rod thread	AWJ	
Adjustable packing: Turn top brass nut counter clockwise		
No greasing required	2 sealed bearings	



## 18/0 Water swivel

Item	Description	Qty	Part number
1-8	18/0 Water swivel	1	See chart below
1	Hose fitting	1	3760 0044 28
2	Seal washer	1	0661 1038 00
3	Housing	1	3702 0162 00
4	Rotary seal	1	3702 0163 00
5	Rotary sleeve	1	3702 0164 00
6	Ball bearing	2	3760 0085 26
7	Circlip	1	0335 2143 00
8	Coupling	1	See chart below

Rod connection	Part number	
	Water swivel Complete 1- 8	Swivel coupling Coupling 8
AW	3760 0044 70	3760 0044 71
AWJ	3760 0056 55	3760 0056 56
AT	3760 0031 14	3760 0031 15
AO	3760 0037 30	3760 0037 31
ATT	3760 0010 82	3760 0010 83
ATW (AGM)	3760 0044 61	3760 0044 62
BT	3760 0009 01	3760 0009 02
BO	3760 0044 63	3760 0044 64
BTT	3760 0039 35	3760 0039 36
BTW (BGM)	3760 0062 07	3760 0085 15
NT	3760 0005 64	3760 0005 65
NO	3760 0006 98	3760 0006 99
NTW	3760 0171 86	3760 0156 96
HMO	3760 0171 87	3760 0152 17
HT	3760 0061 82	3760 0119 80
HO	3760 0061 81	3760 0153 20



### Data

Unit length	147 mm	5.8 in
Spindle I.D.	18 mm	0.7 in
Max RPM	1800	
Inlet hose connection	JIC12	
Tungsten carbide mechanical sela, with rubber spring		
No greasing required	2 sealed bearings	

## 5000 Water swivel repair kit

3760 0037 65

Qty	Description	Part number
2	O-ring	0663 9197 01
1	Water swivel seat	3760 0064 45
1	Water swivel spring	3760 0064 43
1	Water swivel gland	3760 0064 46
2	Water swivel packing set	3760 0064 47
1	Water swivel cage	3760 0064 48
1	Water swivel spindle	3760 0064 49
2	O-ring	0663 9110 00
1	Bearing	3760 0064 79

## 25000 Water swivel repair kits

Qty	Description	Part number	Complete	Intermediate	Basic
			3760 0153 54	3760 0003 79	3760 0153 55
1	Compression spring	3760 0064 57	•	•	
1	O-ring	0663 2112 32	•	•	
1	Water swivel packing cage	3760 0064 60	•	•	•
1	Spindle nut	3760 0064 53	•		
1	Bearing washer	3760 0070 87	•		
1	Spacer	3760 0064 54	•		
1	Snap ring	3760 0081 03	•		
1	Bearing	3760 0064 78	•	•	
1	Spindle extension	3760 0064 58	•	•	•
1	Spindle	3760 0064 56	•	•	
1	Bearing	3760 0064 80	•	•	
1	Packing sleeve	3760 0057 66	•		•
1	Packing set	3760 0003 80	•	•	
1	Grease fitting	0544 1100 23		•	

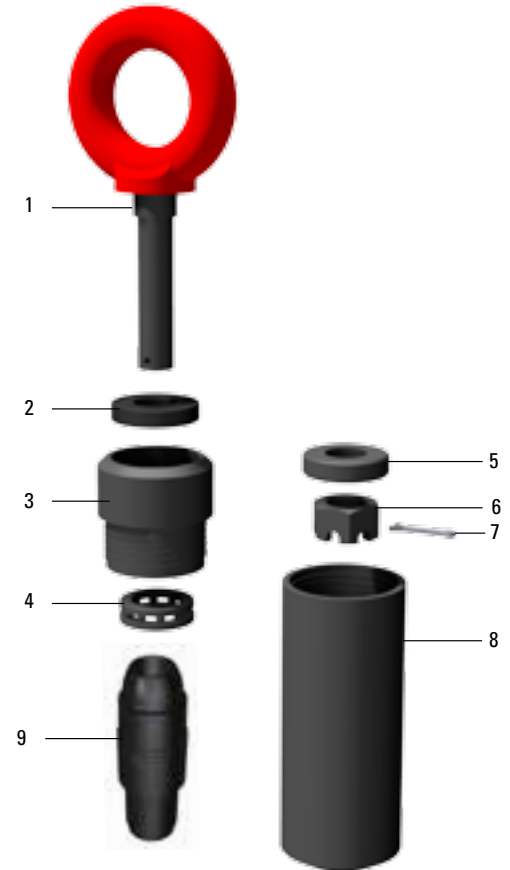
## 18/0 Water swivel repair kit

3760 0044 94

Item	Qty	Description	Part number
4-7		18/0 Water swivel repair kit	3760 0044 94
4	1	Stationary seal	3702 0163 00
5	1	Rotary seal	3702 0164 00
6	2	Ball Bearing	3760 0085 26
7	1	Circlip	0335 2413 00

## Hoisting plug BNH

Item	Description	Qty	Part number
<b>1-8</b>	<b>BNH Hoisting plug complete</b>	<b>1</b>	<b>3760 0060 10</b>
1	Swivel eye	1	3760 0064 38
2	Upper bearing	1	3760 0066 82
3	Head	1	3760 0064 40
4	Lower bearing	1	3760 0064 83
5	Bearing washer	1	3760 0064 41
6	Castle nut	1	5530 9069 00
7	Cotter pin	1	3760 0129 54
8	Body with NW box tread	1	3760 0064 39
<b>Hoisting plug adapter (item 9)</b>			
	BT Hoisting plug adapter NW Pin		3760 0158 04
	NT Hoisting plug adapter NW Pin		3760 0158 05
	HT Hoisting plug adapter NW Pin		3760 0158 06
	PT Hoisting plug adapter NW Pin		3760 0158 07
	BO Hoisting plug adapter NW Pin		3760 0158 08
	NO Hoisting plug adapter NW Pin		3760 0158 09
	HO Hoisting plug adapter NW Pin		3760 0158 10
	BMO Hoisting plug adapter NW Pin		3760 0152 51
	NMO Hoisting plug adapter NW Pin		3760 0155 01
	HMO Hoisting plug adapter NW Pin		3760 0152 50
	HWT Hoisting plug adapter NW Pin		3760 0152 52



### Data BNH

Weight: BNH Hoisting plug	13.5 kg	30 lb
Static holding capacity	9761 kg	21.500 lbs
Unit length (less adapter)	381 mm	15 in
Rod capacity		
BT/BO	1600 m	5300 ft
NT/NO	1275 m	4200 ft
HT/NO	850 m	2700 ft
Rod tread	NW Rod box	

## Drill rod pin to drill rod pin

Drill rod pin	Drill rod pin	Part number
NW	ATT	3760 0060 93
NW	ATW/AGM	3760 0060 92
NW	BTT	3760 0061 19
NW	BTW/BGM	3760 0061 18
NW	NTW/NGM	3760 0153 62
NW	PO	3760 0079 58
NW	SG	3760 0134 23



## Hoisting plug 55K

Item	Description	Qty	Part number
<b>1-9</b>	<b>55K Hoisting plug complete</b>	<b>1</b>	<b>3760 0151 90</b>
1	Swivel eye	1	3760 0151 92
2	Set screw 1/4-20UNC x 0.75	2	0211 5206 00
3	Bushing	1	3760 0151 93
4	Head	1	3760 0151 91
5	Grease fitting	1	0544 1100 07
6	Roller bearing	1	3760 0151 96
7	Nut	1	3760 0151 94
8	Cotter pin	1	3760 0122 02
9	Body	1	3760 0151 95
10	Rod pin to rod pin substitute	1	See chart below

### Hoisting plug adapter (not included in assembly)

BT Hoisting plug adapter NW Pin	3760 0158 04
NT Hoisting plug adapter NW Pin	3760 0158 05
HT Hoisting plug adapter NW Pin	3760 0158 06
PT Hoisting plug adapter NW Pin	3760 0158 07
BO Hoisting plug adapter NW Pin	3760 0158 08
NO Hoisting plug adapter NW Pin	3760 0158 09
HO Hoisting plug adapter NW Pin	3760 0158 10
BMO Hoisting plug adapter NW Pin	3760 0152 51
NMO Hoisting plug adapter NW Pin	3760 0155 01
HMO Hoisting plug adapter NW Pin	3760 0152 50
HWT Hoisting plug adapter NW Pin	3760 0152 52

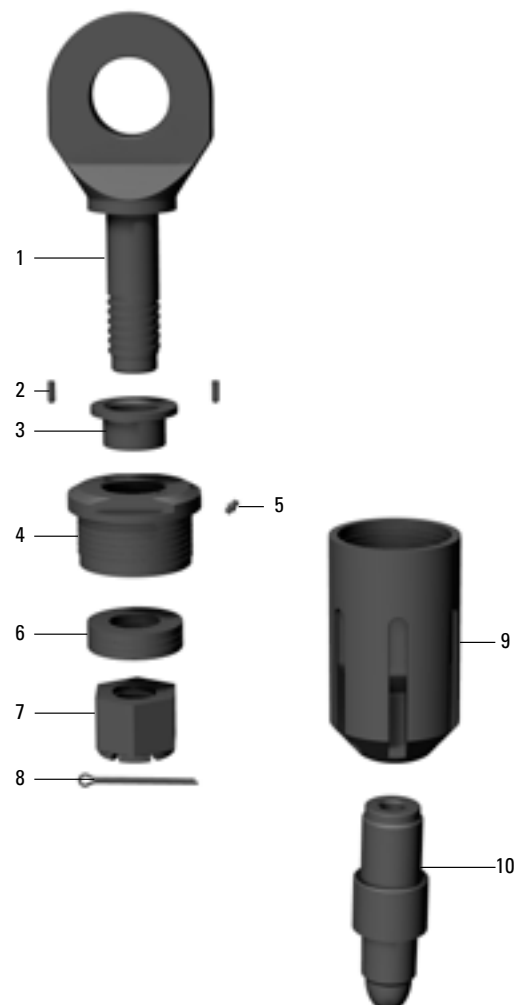
### Data 55K

Weight: kK Hoisting plug	18.0 kg	40.0 lbs
Static holding capacity	22 500 kg	49 600 lbs
Unit length (less adapter)	398 mm	15.670 in

### Rod capacity

BT/BO/BMO	3 700 m	12 200 ft
NT/NO/NMO	3 000 m	10 000 ft
HT/HO/HMO	1 950 m	6 400 ft
PT/PO/PMO	1 350 m	4 500 ft

Rod thread NW Rod box



## Drill rod pin to drill rod pin

Drill rod pin	Drill rod pin	Part number
NW	ATT	3760 0060 93
NW	ATW/AGM	3760 0060 92
NW	BTT	3760 0061 19
NW	BTW/BGM	3760 0061 18
NW	NTW/NGM	3760 0153 62
NW	PO	3760 0079 58
NW	SG	3760 0134 23

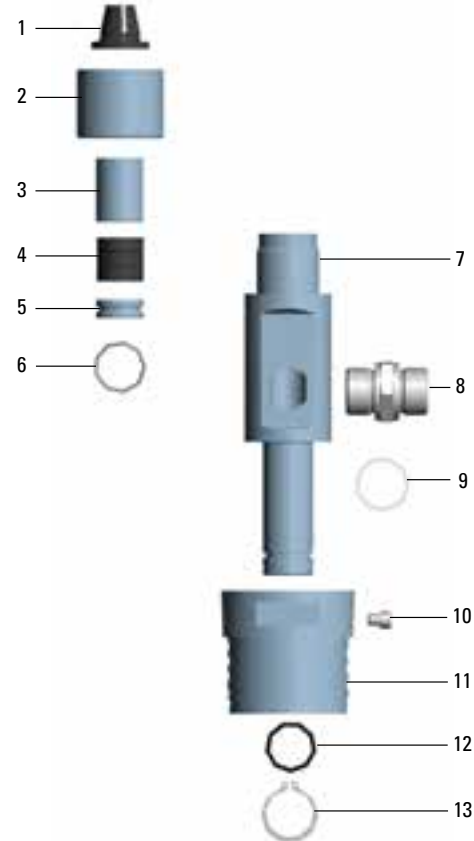


## Stuffing box

When ordering a stuffing box assembly, you must select (1) dimension kit with the appropriate drill rod thread, (1) seal kit to suit your application. Dimension kits are interchangeable to suit your changing drill rod requirements.

Item	Description	Qty	Part number
	Stuffing box complete		8393 0819 65
1	Guide	1	8393 0818 04
2	Head screw	1	8393 0817 83
3	Guide	1	8393 0817 84
4	Seal	3	8393 0819 60
5	Piston	1	8393 0819 61
6	O-ring	1	0663 2109 88
7	Housing	1	8393 0817 82
8	Nipple	1	3715 2545 00
9	Seal washer	1	0661 1038 00

We recommend that you also purchase additional seals (item 4) and guides (items 1 and 3) as these are high wear items.



## Seal kit

Item	Description	Qty	Part number	
			5 mm cable	5-6 mm cable
Stuffing Box seal kits			8393 0819 85	8393 0821 09
1	Guide	1	8393 0818 04	8393 0821 05
3	Guide	1	-	8393 0821 06
4	Seal	9	8393 0819 60	8393 0821 07
5	Piston	1	-	8393 0821 08
6	O-ring	3	0663 2109 88	0663 2109 88
12	O-ring	3	0663 2101 20	0663 2101 20
13	Circlip	2	0335 1130 00	0335 1130 00

## Dimensions kit

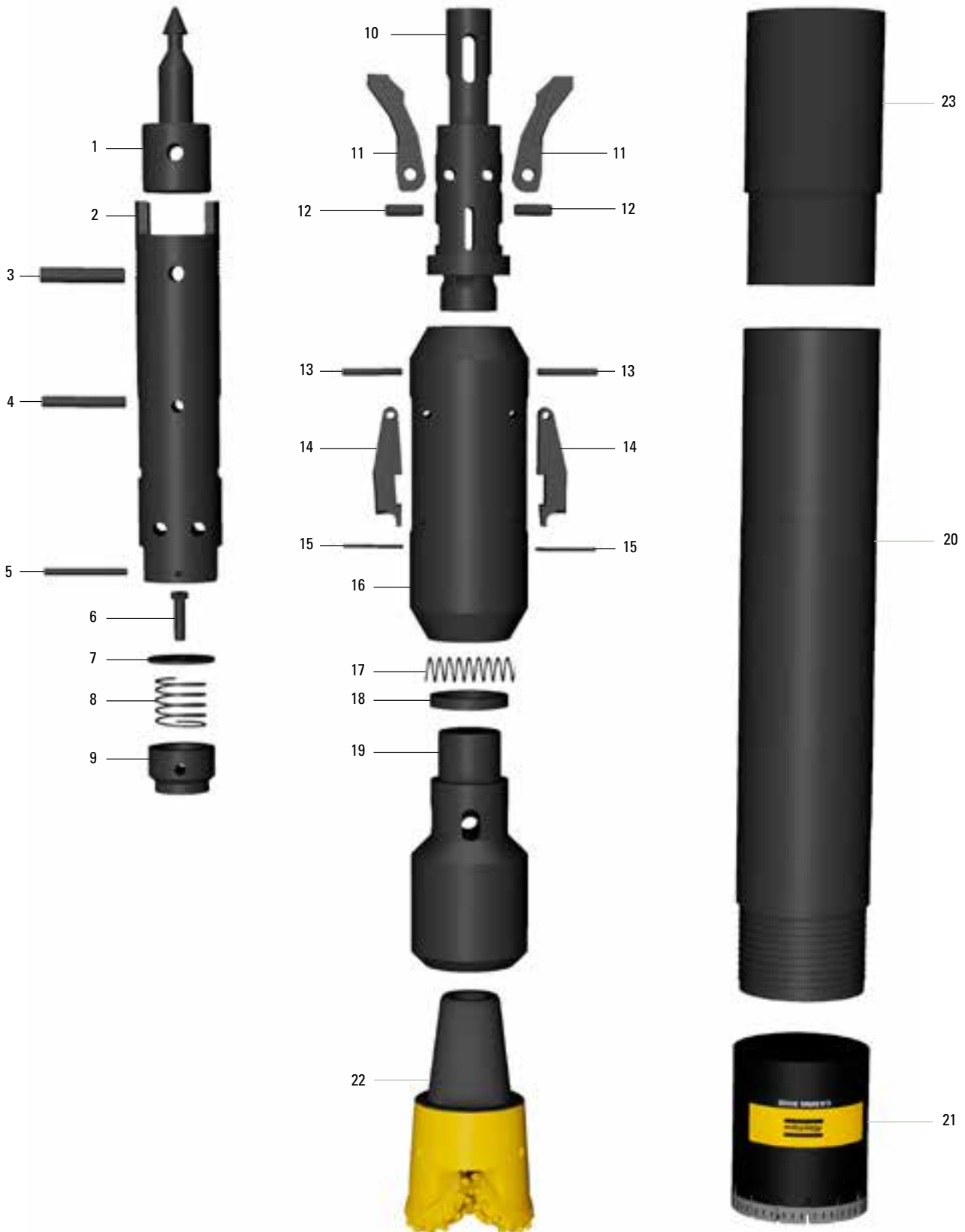
Description		Lubricating nipple	Swivel Adapter	O-ring	Circlip
Item		10	11	12	13
Adapter size	Complete dimension kit	Part number			
ATW/AGM	8393 0819 66	0544 5865 00	8393 0817 85	0663 2101 20	0335 1130 00
BTW/BGM	8393 0819 87	0544 5865 00	8393 0819 84	0663 2101 20	0335 1130 00
BTT	3760 0152 01	0544 5865 00	3760 0152 02	0663 2101 20	0335 1130 00
BO	8393 0819 86	0544 5865 00	8393 0819 81	0663 2101 20	0335 1130 00
BMO	3760 0157 50	0544 5865 00	3760 0157 49	0663 2101 20	0335 1130 00
BT	3760 0151 14	0544 5865 00	3760 0085 68	0663 2101 20	0335 1130 00
NO	8393 0819 88	0544 1100 09	8393 0819 82	0663 2101 20	0335 1130 00
NMO	3760 0157 52	0544 1100 09	3760 0157 51	0663 2101 20	0335 1130 00
NT	3760 0151 15	0544 1100 09	3760 0085 69	0663 2101 20	0335 1130 00
HO	8393 0819 90	0544 1100 09	8393 0819 83	0663 2101 20	0335 1130 00
HMO	3760 0157 54	0544 1100 09	3760 0157 53	0663 2101 20	0335 1130 00
HT	3760 0152 05	0544 1100 09	3760 0152 06	0663 2101 20	0335 1130 00



Item	Qty	Description	Part number		
			NW EX	HW EX	HWT EX
	1	EX Casing Advancer	3760 0162 33	3760 0163 13	3760 0150 73
1	1	Spearhead	3760 0082 52	3760 0082 52	3760 0082 52
2	1	Latch retracting case	3760 0156 71	3760 0156 71	3760 0156 71
3	1	Spring pin 1/2 x 2 3/4	0108 1691 46	0108 1691 46	0108 1691 46
4	1	Spring pin 3/8 x 2 3/4	3760 0145 00	3760 0145 00	3760 0145 00
5	1	Spring pin 1/4 x 2 3/4	3760 0145 02	3760 0145 02	3760 0145 02
6	1	HHSC 3/8-16	0144 3285 03	0144 3285 03	0144 3285 03
7	1	Spring seat washer	3760 0162 38	3760 0162 38	3760 0162 38
8	1	Compression spring	3760 0156 75	3760 0156 75	3760 0156 75
9	1	Latch piston	3760 0156 76	3760 0156 76	3760 0156 76
10	1	Upper latch body	3760 0156 73	3760 0156 73	3760 0156 73
11	2	Latch	3760 0156 72	3760 0162 86	3760 0162 86
12	2	Spring pin 3/8 x 1 1/4	3760 0099 16	0108 1691 39	0108 1691 39
13	2	Spring pin	3760 0093 70	3760 0093 70	3760 0093 70
14	2	Drive blade	3760 0081 85	3760 0081 86	3760 0081 86
15	2	Dowel pin / Spring pin	0108 1103 05	3760 0110 52	3760 0110 52
16	1	Drive latch body	3760 0162 39	3760 0163 15	3760 0163 15
17	1	Compression spring**	3760 0110 18	3760 0093 64	3760 0093 64
18	1	Shim set	3760 0082 23	3760 0082 25	3760 0082 25
19	1	Bit adapter	3760 0110 90	3760 0082 05	3760 0082 05
20	1	Drive coupling assmebly	3760 0162 35	3760 0163 16	3760 0150 71
Optional equipment					
21	1	Casing shoe - Impregnated	3760 9029 07	3760 9029 09	3760 9029 09
22	1	Tricone bit - Steel tooth	3760 0056 93	3760 0056 94	3760 0056 94
23	1	Loading funnel	3760 0156 32	3760 0163 19	3760 0163 19
Optional equipment (not shown)					
26	1	Casing 0.6 m	3760 0012 66	3760 0012 69	3760 0012 69
27	1	Casing 1.5 m	3760 0012 67	3760 0012 70	3760 0012 70
28	1	Casing 3.0 m	3760 0012 68	3760 0012 71	3760 0012 71
29	1	Fail safe overshot sleeve*	-	3760 0161 95	3760 0161 95

# CASING ADVANCER ASSEMBLY

**CASING  
ADVANCER**



## BW Casing cutter assembly

**3760 0094 36**
**BW Rod box connection DCDMA standard rod**
**(Range 2.4" - 3.25" / 61.0 mm - 82.6 mm)**

Item	Description	Qty	BW Part numbers
1	Pilot tube DIA. 2.312" (58.74 mm)	1	3760 0111 18
2	Ball release rod	1	3760 0111 19
3	Jaw pin	2	3760 0094 37
4	Screw set	1	3760 0110 17
5	Cutter kit - 2 per kit	1	3760 0091 54
6	Compression spring	1	3760 0112 38
7	Piston	1	3760 0111 17
8	Spring pin 3/16 x 1 1/8 LG	1	3760 0110 30
9	Ball 3/4	1	0517 1428 00
10	Housing	1	3760 0111 16
11	Piston housing	1	3760 0111 15

## NW Casing cutter assembly

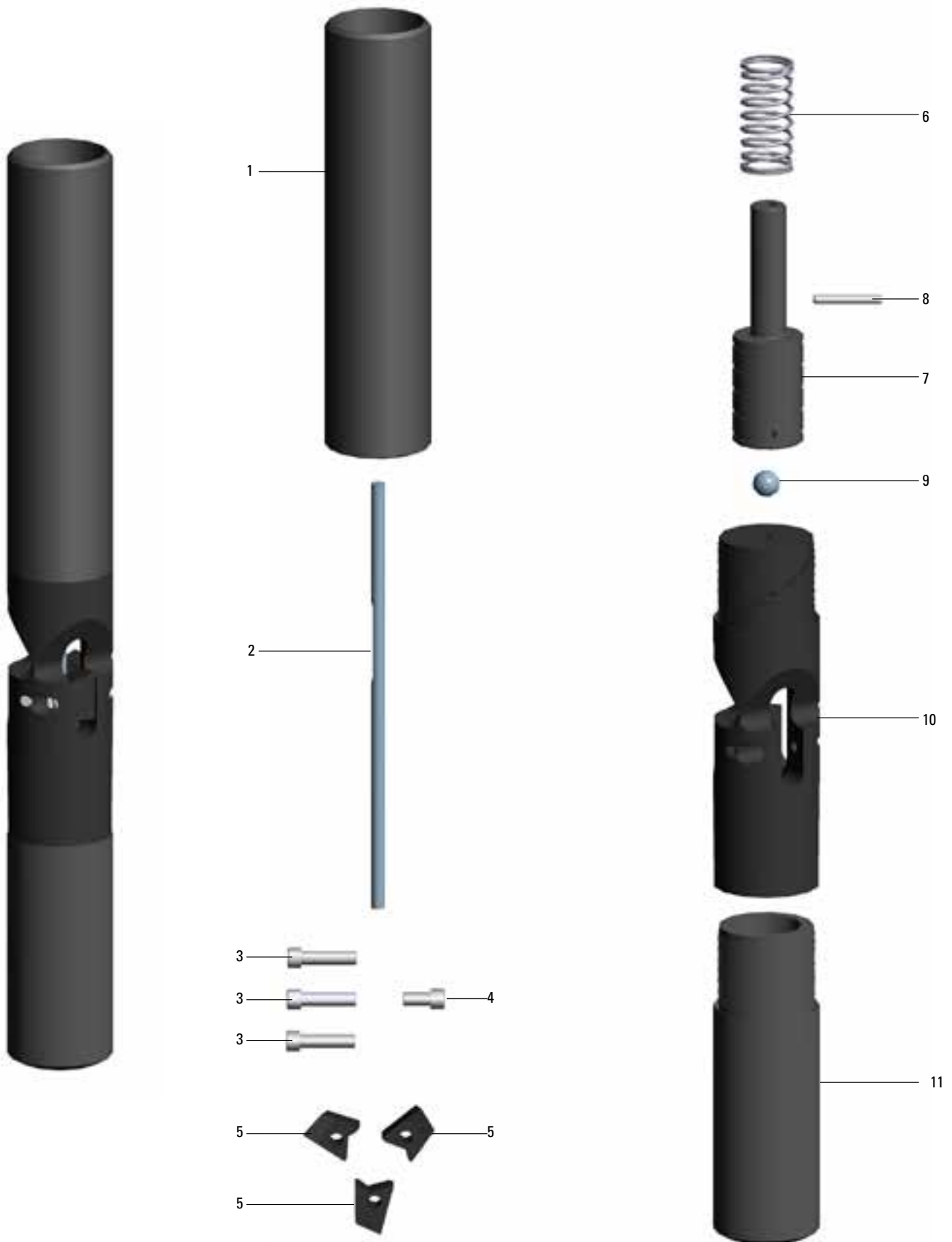
**3760 0094 31**
**NW Rod box connection DCDMA standard rod**
**(Range 3.0" - 3.75" / 76.2 mm - 95.2 mm)**

Item	Description	Qty	NW Part numbers
1	Pilot tube DIA. 2.906" (73.8 mm)	1	3760 0094 32
2	Ball rod release	1	3760 0094 33
3	Cap screw 3/8 x 1 1/2 LG	3	3760 0105 90
4	Capscrew 3/8 x 3/4	1	3760 0110 16
5	Cutter kit - 3 per kit	1	3760 0083 68
6	Compression spring	1	3760 0110 20
7	Piston	1	3760 0092 51
8	Spring pin 1/4 x 2 LG	1	5530 8326 00
9	Ball 3/4	1	0517 1428 00
10	Housing	1	3760 0094 34
11	Piston housing	1	3760 0094 35

## HW Casing cutter assembly

**3760 0092 52**
**NW Rod box connection DCDMA standard rod**
**(Range 3.85" - 4.75" / 97.8 mm - 120.6 mm)**

Item	Description	Qty	HW Part numbers
1	Pilot tube DIA. 3.843 (97.6 mm)	1	3760 0111 14
2	Ball rod release	1	3760 0094 33
3	Cap screw 3/8 x 3/4	3	3760 0110 16
4	Cap screw 3/8 x 1 1/2 LG	1	3760 0105 90
5	Cutter kit - 3 per kit	1	3760 0082 18
6	Compression spring	1	3760 0110 20
7	Piston	3	3760 0092 51
8	Spring pin 1/4 x 2	3	5530 8326 00
9	Ball 3/4	1	0517 1428 00
10	Housing	1	3760 0094 34
11	Piston housing	1	3760 0094 35



## Standard outer tubes

### A-Size Standard outer tubes

Description	Part number	Kg	Lbs
AOTW Standard 1.5 m / 5 ft	3760 0061 01	6.35	13.99
AOTW Standard 3.0 m / 10 ft	3760 0061 02	16.33	36.00

### B-Size Standard outer tubes

Description	Part number	Kg	Lbs
B Standard 1.5 m / 5 ft	3760 0048 31	13.15	28.99
B Standard 3.0 m / 10 ft	3760 0048 32	24.04	52.99
BOTW Standard 1.5 m / 5 ft	3760 0061 26	8.85	19.51
BOTW Standard 3.0 m / 10 ft	3760 0061 27	24.04	52.99

### N-Size Standard outer tubes

Description	Part number	Kg	Lbs
N / N3 / NO2 Standard 1.5 m / 5 ft	3760 0048 37	19.50	42.99
N / N3 / NO2 Standard 3.0 m / 10 ft	3760 0048 39	34.92	76.98
NTW Standard 1.5 m / 5 ft	3760 0162 19	14.40	31.74
NTW Standard 3.0 m / 10 ft	3760 0162 20	26.85	59.19

### H-Size Standard outer tubes

Description	Part number	Kg	Lbs
H / H3 Standard 1.5 m / 5 ft	3760 0060 46	28.12	61.99
H / H3 Standard 3.0 m / 10 ft	3760 0060 47	52.16	114.99

### P-Size Standard outer tubes

Description	Part number	Kg	Lbs
P / P3 Standard 1.5 m / 5 ft	3760 0060 62	38.56	85.01
P / P3 Standard 3.0 m / 10 ft	3760 0060 63	68.72	151.50



## Chrome plated outer tubes

B-Size Chrome plated outer tubes			
Description	Part number	Kg	Lbs
B Chrome plated 1.5 m / 5 ft	3760 0152 20	13.259	29.230
B Chrome plated 3.0 m / 10 ft	3760 0152 21	24.595	54.221
BOTW Chrome plated 1.5 m / 5 ft	3760 0152 22	13.259	29.230
BOTW Chrome plated 3.0 m / 10 ft	3760 0088 49	24.595	54.221

N-Size Chrome plated outer tubes			
Description	Part number	Kg	Lbs
N / N3 / N2 Chrome plated 1.5 m / 5 ft	3760 0081 13	19.500	42.990
N / N3 / N2 Chrome plated 3 m / 10 ft	3760 0042 39	32.920	72.570

H-Size Chrome plated outer tubes			
Description	Part number	Kg	Lbs
H / H3 Chrome plated 1.5 m / 5 ft	3760 0081 12	28.570	62.980
H / H3 Chrome plated 3 m / 10 ft	3760 0081 11	52.160	114.990

## Full hole outer tubes

Description	Part number	Kg	Lbs
AOTW Full hole outer tube 1.5 m / 5 ft	3760 0119 74	48.530	106.990
BOTW Full hole outer tube 1.5 m / 5 ft	3760 0121 89	10.692	23.571
BOTW Full hole Outer tube 3.0 m / 10 ft	3760 0122 28	19.60	43.21
B Full hole outer tube 1.5 m / 5 ft	3760 0043 38	14.681	32.366
B Full hole outer tube 3.0 m / 10 ft	3760 0083 39	27.660	60.979
N Full hole outer tube 1.5 m / 5 ft	3760 0083 26	19.504	42.998
N Full hole outer tube 3.0 m / 10 ft	3760 0083 27	48.530	106.990
H Full hole outer tube 1.5 m / 5 ft	3760 0079 17	28.58	63.01
H Full hole outer tube 3.0 m / 10 ft	3760 0084 00	61.230	134.989



## Standard inner tubes

A-Size Standard inner tubes			
Description	Part number	Kg	Lbs
AOTW Standard 1.5 m / 5 ft	3760 0061 03	2.04	4.49
AOTW Standard 3.0 m / 10 ft	3760 0042 09	4.54	12.21

B-Size Standard inner tubes			
Description	Part number	Kg	Lbs
B Standard 1.5 m / 5 ft	3760 0048 30	3.62	7.98
B Standard 3.0 m / 10 ft	3760 0048 29	7.25	15.98
BOTW Standard 1.5 m / 5 ft	3760 0061 28	3.18	7.01
BOTW Standard 3.0 m / 10 ft	3760 0061 29	6.20	13.67

N-Size Standard inner tubes			
Description	Part number	Kg	Lbs
N / N3 Standard 1.5 m / 5 ft	3760 0048 35	5.67	12.50
N / N3 Standard 3.0 m / 10 ft	3760 0048 36	11.34	25.00
N2 Standard 1.5 m / 5 ft	3760 0061 36	5.67	12.50
N2 Standard 3.0 m / 10 ft	3760 0061 37	11.37	25.06
NTW Inner tube 1.5 m / 5 ft	3760 0154 88	5.00	11.02
NTW Inner tube 3.0 m / 10 ft	3760 0154 89	10.00	22.05

H-Size Standard inner tubes			
Description	Part number	Kg	Lbs
H / H3 Standard 1.5 m / 5 ft	3760 0060 48	7.93	17.48
H / H3 Standard 3.0 m / 10 ft	3760 0060 49	16.78	36.99

P-Size Standard inner tubes			
Description	Part number	Kg	Lbs
P / P3 Standard 1.5 m / 5 ft	3760 0060 64	11.57	25.51
P / P3 Standard 3.0 m / 10 ft	3760 0060 65	23.36	51.49



## Chrome plated inner tubes

A-Size Chrome plated inner tubes	Part number	Kg	Lbs
AOTW Chrome plated 1.5 m / 5 ft	3760 0047 36	2.04	4.49

B-Size Chrome plated inner tubes	Part number	Kg	Lbs
B Chrome plated 1.5 m / 5 ft	3760 0083 31	3.629	8.00
B Chrome plated 3.0 m / 10 ft	3760 0083 32	7.26	16.00
BOTW Chrome plated 1.5 m / 5 ft	3760 0157 06	3.18	7.01
BOTW Chrome plated 3.0 m / 10 ft	3760 0042 40	6.20	13.67

N-Size Chrome plated inner tubes	Part number	Kg	Lbs
N / N3 Chrome plated 1.5 m / 5 ft	3760 0083 18	5.67	12.50
N / N3 Chrome plated 3.0 m / 10 ft	3760 0083 19	11.34	25.00
N2 Chrome plated 1.5 m / 5 ft	3760 0046 89	5.67	12.50
N2 Chrome plated 3.0 m / 10 ft	3760 0046 90	11.34	25.00

H-Size Chrome plated inner tubes	Part number	Kg	Lbs
H / H3 Chrome plated 1.5 m / 5 ft	3760 0083 10	7.94	17.52
H / H3 Chrome plated 3.0 m / 10 ft	3760 0083 11	16.78	36.99



## Extended inner tubes

Description	Part number	Kg	Lbs
AOTW Extended inner tube - Standard 1.5 m / 5 ft	3760 0082 80	2.722	5.592
AOTW Extended inner tube - Standard 3.0 m / 10 ft	3760 0047 40	5.002	11.027
AOTW Extended inner tube - Chrome plated 1.5 m / 5 ft	3760 0047 38	2.495	5.500
BOTW Extended inner tube - Standard 1.5 m / 5 ft	3760 0121 68	3.482	7.676
B Extended inner tube - Standard 1.5 m / 5 ft	3760 0083 33	4.309	9.499
B Extended inner tube - Chrome plated 1.5 m / 5 ft	3760 0083 34	4.309	9.499
N Extended inner tube - Standard 1.5 m / 5 ft	3760 0083 20	7.073	15.593
N Extended inner tube - Standard 3.0 m / 10 ft	3760 0120 76	12.740	28.090
N2 Extended inner tube - Standard 1.5 m / 5 ft	3760 0055 17	6.254	13.787
N2 Extended inner tube - Standard 3.0 m / 10 ft	3760 0047 03	11.431	25.201

Extended inner tubes are used to make extended Core barrels; the extension coupling length is included in the length of the extended inner tube to create a longer Core barrel.



## Inner tube extension for Double Reaming shell 10

Description	Part number	Kg	Lbs
AOTW Inner tube extension - Standard	3760 0046 51	0.168	0.370
BOTW Inner tube extension - Standard	3760 0164 06	0.229	0.504
B Inner tube extension - Standard	3760 0083 36	0.224	0.493
N Inner tube extension - Standard	3760 0095 38	0.347	0.765
N2 Inner tube extension - Standard	3760 0090 28	0.347	0.765
H Inner tube extension - Standard	3760 0112 72	0.635	1.399



## Inner tube extension for Triple Reaming shell 18 3/8

Description	Part number	Kg	Lbs
B Inner tube extension - Standard	3760 0126 46	0.010	0.022
N Inner tube extension - Standard	3760 0125 87	0.250	0.055
N2 Inner tube extension - Standard	3760 0156 86	0.010	0.022
H Inner tube extension	3760 0150 88	1.830	4.02



## Inner tube coupling

Description	Part number	Kg	Lbs
AOTW Inner tube coupling - Standard	3760 0070 56	0.200	0.440
B Inner tube coupling - Standard	3760 0083 37	0.725	1.598
BOTW Inner tube coupling - Standard	3760 0082 75	0.601	1.324
NTW Inner tube coupling	3760 0154 56	0.75	1.65
N Inner tube coupling - Standard	3760 0083 24	1.403	3.093
H Inner tube coupling - Standard	3760 0047 61	2.175	4.795



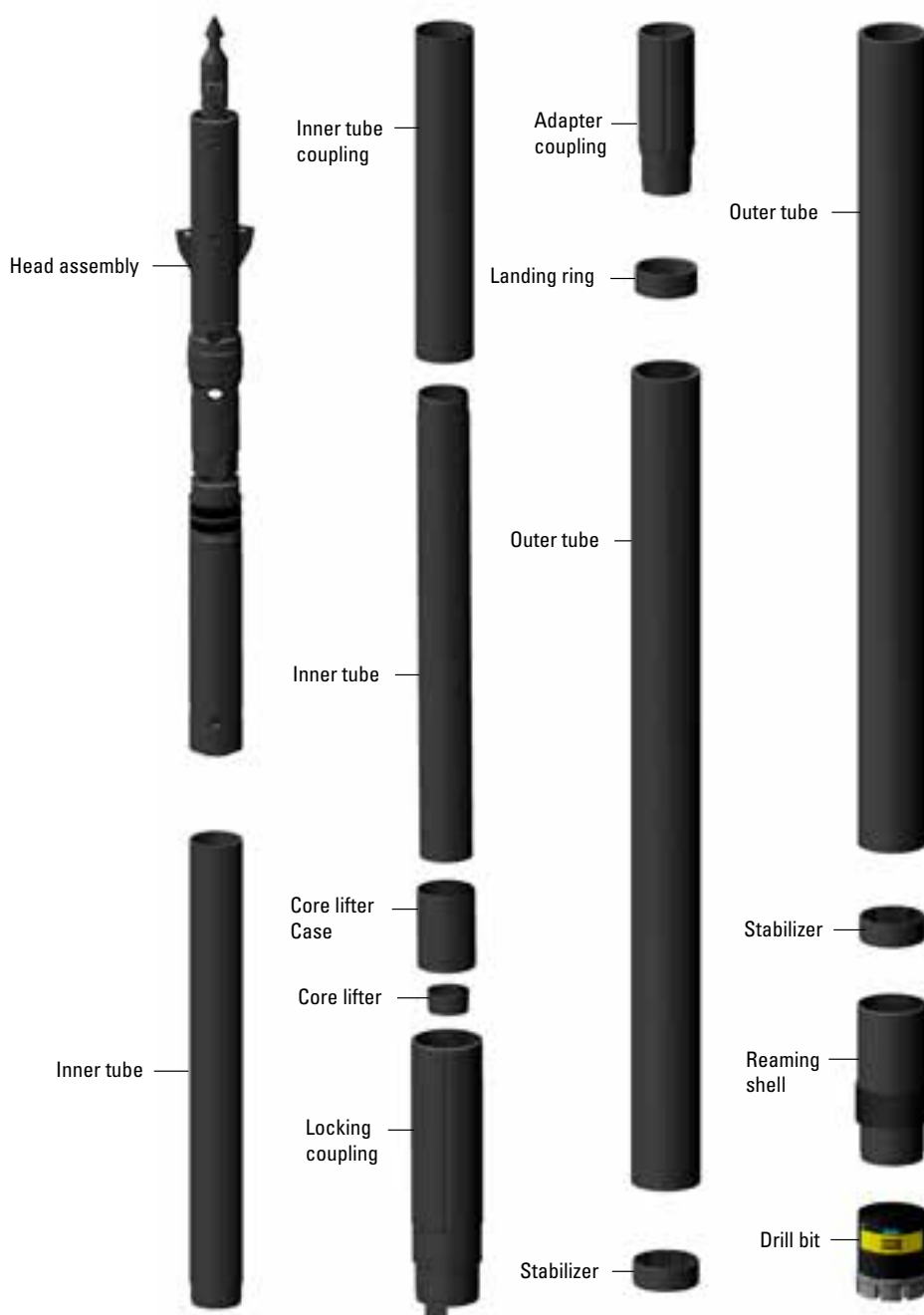
## Extended Core barrel configuration

In some conditions, it may be preferable to run and extended Core barrel. A shorter Core barrel can be extended up to 6 meters or more with this method; increasing the length and amount of Core retrieved in each round trip. This can be achieved easily by adding standard tubular components to an existing 1.5 m/5 ft or 3 m/10 ft Core barrel.

Minimal components are required, and with the addition of a special Inner tube coupling, a secondary Standard wireline in-

ner tube, Standard wireline outer tube and one additional Inner tube stabilizer, an extended Core barrel can be utilized.

Atlas Copco also has an Extension Inner tube that can be connected to the existing Inner tube without the need for the Special Inner tube coupling, and eliminating one joint. This option is not available for all sizes and length configurations and may be found on page 147.



## NW thread pin to drill rod pin

Drill rod pin	Drill rod pin	Part number
NW	BT	3760 0060 11
NW	BO	3760 0041 89
NW	NTW/NGM	3760 0153 62
NW	NT	3760 0060 25
NW	NO	3760 0060 24
NW	HT	3760 0060 42
NW	HMO	3760 0134 41
NW	HO	3760 0060 41
NW	PMO (HWT)	3760 0055 26
NW	PT	3760 0060 56
NW	PO/PG	3760 0079 58
NW	SG	3760 0134 23



## Specialty adapters

Drill rod box	Drill rod pin	Part number
BTT	BW	3760 0157 37
BO	AW	3760 0153 12
BO	BW	3760 0152 56
BT	AW	3760 0113 43
BT	BW	3760 0152 55
BMO	NW	3760 0134 47
NO	AW	3760 0079 30
NO	BW	3760 0159 63
NO	NW	3760 0113 48
NT	AW	3760 0091 50
NT	BW	3760 0038 02
NT	NW	3760 0082 69
NMO	AW	3760 0153 69
NMO	BW	3760 0126 24
NMO	NW	3760 0126 22
HO	BW	3760 0075 47
HO	NW	3760 0120 39
HT	AW	3760 0043 13
HT	BW	3760 0159 64
HT	NW	3760 0037 52
HMO	BW	3760 0159 65
HMO	NW	3760 0157 42
PMO (HWT)	NW	3760 0056 58



## Casing pin to casing pin

Casing Pin	Casing pin	Part number
BW	NW	3760 0113 36
BW	HW	3760 0055 66
BW	HWT	3760 0055 41
NW	NW	3760 0096 20
NW	HW	3760 0082 73
NW	PW	3760 0088 93



## Casing and rod cutter adapters

Drill Rod Box	Rod Pin	Part number
BO	BW	3760 0152 56
BT	BW	3760 0152 55
NO	NW	3760 0113 48
NT	NW	3760 0082 69
NMO	NW	3760 0126 22
HO	NW	3760 0120 39
HT	NW	3760 0037 52
HMO	NW	3760 0157 42



## Tricones - For non-Core drilling and casing installation

Tricones					Steel tooth	Tungsten carbide
Casing size	Outer diameter	Inner diameter	Tricone	Connections	Part number	
BW	2.88" / 73.0 mm	1.38" / 60.3 mm	2 15/16	4THD N ROD	3760 0056 93	3760 0057 03
NW	3.5" / 88.9 mm	3.0" / 76.2 mm	3 7/8	2 3/8 API REG IF	3760 0056 94	3760 0057 04
HW/HWT	4.5" / 114.3 mm	4.0" / 101.6 mm	4 3/4	2 7/8 API REG IF	3760 0056 95	3760 0057 05
PW	5.5" / 139.7 mm	5.0" / 127.0 mm	5 7/8	3 1/2 API REG IF	3760 0056 97	3760 0057 07

## Tricone - Drill rod adapters

(when using rods or casing along with standard tricones)

### BW casing boreholes (N dimension drill rods) Tricone 2 15/16 - connection: 4 THD N ROD BOX

BMO ROD BOX - N4 ROD BOX	3760 0152 60
NO ROD BOX - N4 ROD BOX	3760 0159 55
NT ROD BOX TO N4 ROD BOX	3760 0028 43
NMO ROD BOX TO N4 ROD BOX	3760 0155 04
BW CASING BOX TO N4 ROD BOX SUB	3760 0120 81

### HW/HWT Casing boreholes (P dimension drill rods) Tricone 4 3/4 - connection: 2 7/8 API REG BOX

HO ROD BOX - 2 7/8 API BOX	3760 0156 14
HT ROD BOX - 2 7/8 API BOX	3760 0113 63
HMO ROD BOX - 2 7/8 API BOX	3760 0152 61
HW casing box 2 7/8 API box	3760 0066 44
HWT casing box 2 7/8 API box	3760 0042 43

### NW casing boreholes (H dimension drill rods) Tricone 3 7/8 - connection: 2 3/8 API REG box

NO ROD BOX - 2 3/8 API box	3760 0156 12
NMO ROD BOX - 2 3/8 API box	3760 0155 03
NT ROD BOX - 2 3/8 API box -	3760 0028 72
HO ROD BOX - 2 3/8 API box	3760 0054 09
HT ROD BOX - 2 3/8 API box	3760 0058 25
HMO ROD BOX - 2 3/8 API box	3760 0155 02
NW CASING BOX - 2 3/8 API box	3760 0113 62

### PW/PWT Casing boreholes (SG dimension drill rods) Tricone 5 7/8 - connection: 3 1/2 API REG box

PMO (HWT) ROD/HWT Casing BOX - TO 3 1/2 API box	3760 0056 60
PW CASING box - 3 1/2 API box	3760 0156 15

## Casing adapter subs - Drill rod box to casing pin

Drill Rod Box	Casing Pin	Part number
ATT	AW	3760 0069 91
ATW	AW	3760 0113 70
BTT	AW	3760 0076 70
BTT	BW	3760 0043 80
BTT	NW	3760 0087 92
BTW	BW	3760 0159 28
NTW	NW	3760 0159 62
BMO	BW	3760 0156 49
BO	BW	3760 0113 71
BT	BW	3760 0082 68
NMO	NW	3760 0130 95
NO	BW	3760 0082 67
NO	NW	3760 0113 73
NO	HW	3760 0113 77
NT	BW	3760 0113 75
NT	NW	3760 0076 03
NT	HW	3760 0113 78
HMO	NW	3760 0155 07
HMO	HW	3760 0129 99
HMO	HWT	3760 0155 09
HMO	PW	3760 0155 06
HO	NW	3760 0099 75
HO	HW	3760 0077 19
HO	HWT	3760 0069 54
HO	PW	3760 0113 80
HT	NW	3760 0113 79
HT	HW	3760 0079 72
HT	HWT	3760 0052 00
HT	PW	3760 0079 73
PO	PW	3760 0120 48
PT	HW	3760 0122 30
PT	HWT	3760 0045 00
PT	PW	3760 0113 81
HWT Rod	HW	3760 0091 48
HWT Rod	PW	3760 0056 57
HW Casing box	HWT	3760 0053 32



## Stage drilling & telescoping connections adapters subs

Rod box	Rod pin	Part number
ATW	BTT	3760 0062 09
ATW	BO	3760 0061 48
ATW	BTW	3760 0062 08
ATW	NO	3760 0061 63
ATW	NT	3760 0061 64
BO	BTT	3760 0029 64
BO	NO	3760 0119 21
BT	NT	3760 0153 36
NO	BO	3760 0113 47
NO	HO	3760 0096 25
NO	HT	3760 0091 49
NT	BO	3760 0074 54
NT	HO	3760 0113 59
NT	HT	3760 0076 05
NT	HMO	3760 0054 86
NMO	BO (HD SUB)	3760 0131 21
NMO	HO (HDSUB)	3760 0131 20
NMO	HMO	3760 0155 08
HO	NO	3760 0156 51
HO	PMO (HWT) ROD/HWT CASING PIN	3760 0069 54
HT	NO	3760 0113 60
HT	NT	3760 0091 47
HT	PMO (HWT) ROD/HWT CASING PIN	3760 0052 00
HT	PT	3760 0113 56
HMO	NMO	3760 0151 28
HMO	PT	3760 0009 26
PO	HO	3760 0159 39



## Tubular cross over adapters

Rod box	Rod pin	Part number
ATT	ATW	3760 0069 66
ATW	ATT	3760 0061 93
BTT	BTW	3760 0009 40
BTW	BTT	3760 0009 39
BO	BT	3760 0082 72
BO	BMO	3760 0156 45
BT	BO	3760 0082 71
BT	BMO	3760 0152 59
BMO	BO	3760 0156 40
NO	NT	3760 0076 06
NO	NMO	3760 0130 94
NT	NO	3760 0076 07
NT	NMO	3760 0127 61
NMO	NO	3760 0130 97

Rod box	Rod pin	Casing Pin	Part Number
NMO	NT	-	3760 0127 38
HO	HT	-	3760 0091 46
HO	HMO	-	3760 0152 62
HT	HO	-	3760 0082 70
HMO	HT	-	3760 0155 11
HMO	HO	-	3760 0157 12
PMO (HWT)	-	HW	3760 0091 48
PMO (HWT)	PO	-	3760 0028 09
PMO (HWT)	PT	-	3760 0045 01
HW	-	HWT	3760 0053 32
PT	-	HW	3760 0122 30
PT	-	HWT	3760 0045 00
PT	PO	-	3760 0007 73



## Wireline combination rod, Core barrel, bit and shell recovery tap

Rod size	Rod box	Part number
ATW	ATW/AGM	3760 0113 84
BTW	BTT	3760 0037 31
BTW	BW	3760 0113 17
B	BT	3760 0082 65
B	BMO	3760 0134 48
B	BO	3760 0082 64
N	NT	3760 0076 04
N	NMO	3760 0134 42
N	NO	3760 0082 63
H	HT	3760 0079 74
H	HMO	3760 0048 11
H	HO	3760 0082 62
P	PT	3760 0082 61
P	PMO (HWT)	3760 0051 89



## Casing recovery taps

Casing size	Rod box	Part number
BW	BT	3760 0085 41
BW	BO	3760 0102 45
NW	NT	3760 0082 60
NW	NMO	3760 0134 43
NW	NO	3760 0128 13
HW/HWT	HT	3760 0079 80
HW/HWT	HMO	3760 0048 12
HW/HWT	HO	3760 0082 59
PW	PT	3760 0079 75
PW	PW (Casing box)	3760 0076 79



## Rigid wrenches steel handles

Description	Part number
18" Wrench complete	3760 0076 46
Hook jaw	3760 0076 50
Heel jaw and pin	3760 0076 51
Wrench nut	3760 0076 52
Wrench spring	3760 0076 53

Description	Part number
24" Wrench complete	3760 0076 47
Hook jaw	3760 0076 54
Heel jaw and pin	3760 0076 55
Wrench nut	3760 0076 56
Wrench spring	3760 0076 57

Description	Part number
36" Wrench complete	3760 0076 48
Hook jaw	3760 0076 58
Heel jaw and pin	3760 0076 59
Wrench nut	3760 0076 60
Wrench spring	3760 0076 61

Description	Part number
48" Wrench complete	3760 0076 49
Hook jaw	3760 0076 62
Heel jaw and pin	3760 0076 63
Wrench nut	3760 0076 64
Wrench spring	3760 0076 65





## Full grip wrenches

Core barrel	Inner tube wrench	Outer tube wrench
AOTW	3760 0061 07	3760 0061 08
B	3760 0060 17	3760 0060 18
BOTW	3760 0061 31	3760 0060 18
N	3760 0060 31	3760 0060 32
N2	3760 0005 68	3760 0060 32
H	3760 0060 32	3760 0060 53
P	3760 0060 68	3760 0060 69
46TTG/48TT	3760 0061 07	3760 0061 08
60TT	3760 0157 79	3760 0060 18
NTW	3760 0165 36	3760 0060 32



## Nicopress

Size	Description	Part number
3/16	Nicopress sleeve oval	3760 0082 44
1/4	Nicopress sleeve	3760 0100 95
3/16	Nicopress crimping tool	3760 0082 45
1/4	Nicopress crimping tool	3760 0100 96



# FULL HOLE ADAPTER (OPTIONAL)

## ADAPTER COUPLINGS

### Full hole Adapter coupling - Surface

Size	Description	Part number
BO	Full hole Adapter coupling	3760 0043 41
NO	Full hole Adapter coupling	3760 0036 31
HO	Full hole Adapter coupling	3760 0126 25



### Full hole Adapter coupling - Underground

Size	Description	Part number
BOU EX	Full hole Adapter coupling	3760 0159 51
NOU EX	Full hole Adapter coupling	3760 0159 52
HOU EX	Full hole Adapter coupling	3760 0159 53

\*Diamond impregnated locking couplings and adapter couplings are available in the Diamond tools catalogue.

## Core lifter - Slotted

Description	Part number	Kg	Lbs
AOTW / AOTW-U Core lifter - Slotted	3760 0063 19	0.012	0.026
B0 / B0-U Core lifter - Slotted	3760 0062 26	0.029	0.063
BOTW / BOTW-U Core lifter - Slotted	3760 0063 01	0.019	0.041
N0 / N0-U Core lifter - Slotted	3760 0062 41	0.04	0.088
N03 Core lifter - Slotted	3760 0066 98	0.001	0.002
N02/N02-U Core lifter - Slotted	3760 0077 64	0.25	0.551
H0 / H0-U Core lifter - Slotted	3760 0062 56	0.12	0.265
H03 Core lifter - Slotted	3760 0058 40	0.084	0.185
P0 Core lifter - Slotted	3760 0041 85	0.22	0.485



## Core lifter - Fluted

Description	Part number	Kg	Lbs
B0 / B0-U Core lifter - Fluted	3760 0121 88	0.014	0.030
N0 / N0-U Core lifter - Fluted	3760 0093 27	0.05	0.110
N03 Core lifter - Fluted	3760 0062 86	0.04	0.088
N02/N02-U Core lifter - Fluted	3760 0063 27	0.033	0.072
H0 / H0-U Core lifter - Fluted	3760 0044 22	0.11	0.242
H03 Core lifter - Fluted	3760 0062 89	0.09	0.198
P0 Core lifter - Fluted	3760 0121 87	0.21	0.462
P03 Core lifter - Fluted	3760 0062 92	0.21	0.462



## Basket ring Core lifters

- Used in very broken or loose formations

Description	Part number	Kg	Lbs
N03/NV3 Basket ring	3760 0153 59	0.014	0.030
H03/HV3 Basket ring	3760 0153 60	0.05	0.110
P03/PV3 Basket ring	3760 0154 41	0.04	0.088



## Standard shut-off valve (Standard)

Description	Part number	Kg	Lbs
AOTW / AOTW-U (Blue)	3760 0063 14	0.009	0.019
BO/ BO-U Standard Shut-off valve (Black)	3760 0062 21	0.001	0.002
BOTW / BOTW-U Standard Shut-off valve (Blue)	3760 0062 98	0.020	0.044
NO / NO-U / NO2/NO2-U / NO3 Standard Shut-off valve (Black)	3760 0062 36	0.020	0.044
NTW-EX Standard shut-off valve (Blue)	3760 0152 86	0.020	0.044
HO / HO-U / HO3 Standard Shut-off valve (Black)	3760 0062 51	0.040	0.088
PO / PO3 Standard Shut-off valve (Black)**	3760 0062 67	0.070	0.154

\*\*Not for use in PO-EX Head assembly



## Optional shut-off valve (Hard)

Description	Part number	Kg	Lbs
BO / BO-U Hard shut-off valve (Yellow)	3760 0083 40	0.015	0.033
NO / NO-U Hard shut-off valve (Yellow)	3760 0083 28	0.023	0.050
NO2/ NO2-U Hard shut-off valve (Yellow)	3760 0083 28	0.023	0.050
NO3 Hard shut-off valve (Yellow)	3760 0083 28	0.023	0.050
HO / HO-U Hard shut-off valve (Yellow)	3760 0083 79	0.040	0.088
HO3 Hard shut-off valve (Yellow)	3760 0083 79	0.040	0.088
PO-EX / PO3-EX Shut-off valve (Yellow)	3760 0162 91	0.070	0.154



## Fluid retention kit - Sizes B/N/H - 3760 0134 81

Description	Part number	Kg	Lbs
Fluid retention bush	3760 0121 01	0.005	0.011
Fluid retention spring (Light - Green)	3760 0121 02	0.034	0.074
Fluid retention spring (Medium - Blue)	3760 0121 03	0.038	0.083
Fluid retention spring (Heavy - Red)	3760 0121 04	0.042	0.092
22 mm Stainless steel ball	3760 0120 99	0.045	0.099



## Landing indicator kit - Sizes B/N/H - 3760 0134 82

Description	Part number	Kg	Lbs
22 mm Stainless steel ball	3760 0120 99	0.045	0.099
Landing indicator bushing	3760 0121 00	0.023	0.050
Landing indicator bushing - High pressure	3760 0153 91	0.023	0.050



# WARRANTY / AFTER-MARKET

## LIMITED PRODUCT WARRANTY

Atlas Copco Exploration Products is a member of the MR & RDT Business unit. This Limited Product Warranty is specific for Atlas Copco Exploration Products as set out below:

### 1. SCOPE

This Limited Product Warranty (or "Warranty") covers all warranty matters for Products produced by Atlas Copco Exploration Products, a Division of Atlas Copco Canada Inc., (hereafter known as "Atlas Copco"), and marketed through Atlas Copco Customer Centers or approved distributors. The Atlas Copco Products covered by the Warranty include:

In the Hole (ITH) Products

- Drill Rods and Casing
- Core barrels and their individual components
- Accessories and their individual components

Diamond Products

- Drill bits, Reaming shells, and Casing Shoes

### 2. STANDARD LIMITED WARRANTY TERMS and CONDITIONS

Atlas Copco warrants each manufactured Atlas Copco Product delivered to end user to be free of defects in material and workmanship for a period of (12) months from the date of delivery.

Atlas Copco will provide a new part or repaired part, for any part, which is found after inspection and confirmation by Atlas Copco to be defective in material or workmanship during the warranty period.

It is understood that some the Products (for example ITH components and complete assemblies) are subject to normal wear and tear, requiring frequent replacement. These Products are not covered by Warranty, unless after inspection and confirmation by Atlas Copco, the Products are found to be defective in design, material or workmanship during the twelve (12) month warranty period.

At Atlas Copco's discretion, ITH components and assemblies covered by this warranty may not be considered to be defective as complete units and replacement may be limited to the defective parts or components.

This Warranty does not apply to failures due to abuse, misuse, negligent repairs, corrosion, erosion, normal wear and tear, alterations or modifications made to the Product without expressed written consent of Atlas Copco.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING IN LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST LATENT DEFECTS. ATLAS COPCO IS NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, OR ANY OTHER DAMAGES, COSTS OR EXPENSES, EXCEPTING ONLY THE COST OR EXPENSE OF REPLACEMENT OR REPAIR AS SPECIFIED ABOVE.

This warranty shall be governed by the laws of the Province of Ontario and the parties expressly request that this document be prepared in the English language.

### 3. WARRANTY VALUE

Warranty value begins at full purchase price of the Product with possible reductions taking into consideration normal wear and tear and the expected Products life, given local operational conditions. Any such reduction is determined at the sole discretion of Atlas Copco.

### 4. WARRANTY VALIDITY

The warranty is valid only if a defect in your Atlas Copco product appears under conditions of operation provided for under proper use, maintenance and storage. The Product must be used for the purpose it was designed and should be commissioned, operated and maintained in accordance with the Atlas Copco operations and/or service manual as applicable.

### 5. WARRANTY CONDITIONS

Atlas Copco reserves the right to declare a warranty claim null and void if it is proven at Atlas Copco sole discretion that the Products are being used in conjunction with unapproved products from other manufacturers.

Atlas Copco reserves the right to declare a warranty claim null and void for Atlas Copco drill rod if drill rod thread compound was used that DOES NOT contain metal particulate, ideally Zinc, copper or Graphite.

Warranty claims will be denied if claimed parts / samples are not returned when requested, or the Products returned are in poor condition as determined at the sole discretion of Atlas Copco.

### 6. HOW TO START A WARRANTY CLAIM

To start a warranty claim for Products covered by this warranty, please contact your Atlas Copco representative in writing via fax, letter or by email within 10 (ten) business days from the date the defect appears. The Atlas Copco representative will contact you to review the claim, request additional information and arrange for samples of the defective Product. Failure to provide any additional requested information and / or samples of defective Products will result in delay or cancellation of the warranty claim.

# CONVERSION FACTORS

This unit		Times	Equals
<b>Length</b>			
mm (millimetres)	x	0.001	=m
cm (centimetres)	x	0.01	=m
dm (decimetres)	x	0.1	=m
km (kilometres)	x	1000	=m
in (inches)	x	25.4	=m
ft (feet)	x	0.305	=m
yd (yard)	x	0.914	=m
miles	x	1609	=m

This unit		Times	Equals
<b>Power</b>			
kW (kilowatts)	x	1000	= W
Horsepower (metric)	x	735.5	= W
Horsepower (UK)	x	745.7	= W
ft.lbf/sec	x	1.36	= W
Btu/h	x	0.29	= W

This unit		Times	Equals
<b>Volume</b>			
l (litres)	x	0.001	= m <sup>3</sup>
ml (millilitres)	x	0.001	= l
dm <sup>3</sup> (cubic desimetres)	x	1.0	= l
cm <sup>3</sup> (cubic centimetres)	x	1.0	= ml
mm <sup>3</sup> (cubic milimetres)	x	0.001	= ml
in <sup>3</sup> (cubic inches)	x	16.39	= ml
ft <sup>3</sup> (cubic feet)	x	28.316	= l
Imperial gallon	x	4.546	= l
U.S gallon	x	3.785	= l
Ounces (Imp. fluid liq.)	x	28.41	= ml
Ounces (US liq.)	x	29.57	= ml
Pints (US liq.)	x	0.4732	= l
Quarts (US liq)	x	0.9463	= l
yd <sup>3</sup> (cubic yards)	x	0.7646	= m <sup>3</sup>

This unit		Times	Equals
<b>Area</b>			
mm <sup>2</sup> (square mm)	x	0.000001	= m <sup>2</sup>
cm <sup>2</sup> (square cm)	x	0.00001	= m <sup>2</sup>
in <sup>2</sup> (square inch)	x	645	= mm <sup>2</sup>
ft <sup>2</sup> (square feet)	x	0.929	= m <sup>2</sup>
yd <sup>2</sup> (square yard)	x	0.8361	= m <sup>2</sup>
Acres	x	4047	= m <sup>2</sup>
Square miles	x	2.590	= km <sup>2</sup>

This unit		Times	Equals
<b>Mass (Weight)</b>			
g (grammes)	x	0.001	= kg
t (tonnes, metric)	x	1000	= kg
grains	x	0.0648	= kg
oz (ounces)	x	28.35	= g
lb (pounds)	x	0.4536	= g
tons (long,US)	x	1016	= kg
tons (UK)	x	1016	= kg
tons (short)	x	907	= kg

This unit		Times	Equals
<b>Speed</b>			
km/h (kilometers/hour)	x	0.2777	= m/s
m/s	x	3.6	= km/h
mph (miles/hour)	x	0.45	= m/s
ft/s (foot/second)	x	0.3048	= m/s
ft/s (foot/second)	x	18.29	= ft/min
ft/min (foot/minute)	x	0.3048	= m/min

This unit		Times	Equals
<b>Frequency</b>			
blows/minute	x	0.017	= Hz
khz (kiloHertz)	x	1000	= Hz
r/min (rev./minute)	x	0.1667	= r/s
degrees/seconds	x	0.1667	= r/min
radians/second	x	0.1592	= r/s

This unit		Times	Equals
<b>Pressure</b>			
bar	x	100	= kPa
bar	x	100 000	= Pa
kp/cm <sup>2</sup>	x	0.98	= bar
atm (atmospheres)	x	1.01	= bar
psi (pounds/in <sup>2</sup> )	x	6.895	=kPa
psi	x	0.06895	= bar

This unit		Times	Equals
<b>Force</b>			
kN (kilonewton)	x	1000	N
kp (kilopond)	x	9.81	N
kgf (kilogramme force)	x	4.45	N

This unit		Times	Equals
<b>Torque</b>			
kpm (kilopondmetres)	x	9.81	Nm
lbf/in (pondforce/inch)	x	0.11	Nm
lbf/ft (poundforce/foot)	x	1.36	Nm

[illegible]

[illegible]



# *Sustainable Productivity*

We stand by our responsibilities towards our customers,  
towards the environment and the people around us.  
We make performance stand the test of time.  
This is what we call - Sustainable Productivity.

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