



## YFZ-C型机械式免钻除分级注水泥器

Model YFZ-C Mechanical Drill-out Free Stage Collar

### 特点

1. 通过重力塞打开循环孔；
2. 循环孔关闭后，继续加压，滑套等附件可自动滑落至井底，无需下钻钻除；
3. 采用内关闭式结构，关闭套设计有防退机构；
4. 适用井斜 $\leq 25^\circ$ 。

### Features

1. The circulation ports are mechanically opened by free-fall opening plug.
2. After circulation ports are closed, keep building up pressure will enable the sliding sleeves and other accessories to free fall to bottom, eliminating drill-out.
3. The stage collar is designed with internal closing structure. The closing sleeve is designed with hold down mechanism.
4. Applicable well inclination:  $\leq 25^\circ$ .

## CFZ-C型液压式免钻除分级注水泥器

Model CFZ-C Mechanical Drill-out Free Stage Collar

### 特点

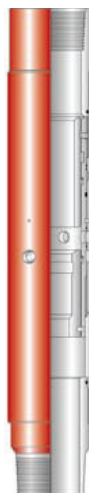
1. 通过液压方式打开循环孔，不需投重力塞，不受井斜限制；
2. 循环孔关闭后，继续加压，滑套等附件可自动滑落至井底，无需下钻钻除。

### Features

1. The circulation ports can be hydraulically opened, eliminating the need to use a free-fall opening plug. Therefore, it is not restricted to well inclination.
2. After circulation ports are closed, keep building up pressure will enable the sliding sleeves and other accessories to free fall to bottom, eliminating drill-out.

### 技术参数 Specifications

套管规格 Casing Size	套管公称质量 Casing Weight		最大外径 Max O.D.		滑脱后内径 Final Tool I.D.		总长 Overall Length		
	in.	kg/m	lb/ft	mm	in.	mm	in.	mm	in.
5-1/2		25.30	17.00	172	6.772	124	4.882	1247	49.094
		29.76	20.00			121	4.764		
		34.23	23.00			118.5	4.665		
7		38.69	26.00	210	8.268	159.4	6.276	1140	44.882
		43.16	29.00			157	6.181		
		47.62	32.00			155	6.102		



## 分级注水泥器附件

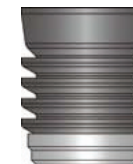
Stage Collar Accessories

### 特点

1. 所有附件均由橡胶及铝合金材料制成，具有良好的可钻性；
2. 重力塞内充填有加重材料，可加速下行；
3. 挠性塞可实现一级碰压。

### Features

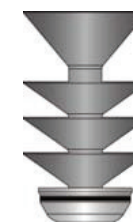
1. All accessories are made of easily drillable rubber and aluminum alloy.
2. The free-fall opening plug is filled with weighted material to reduce free-fall time.
3. The first-stage wiper plug is used for bumping during the first stage cementation.



关闭塞  
Closing Plug



重力打开塞  
Free-fall Opening Plug



挠性塞  
First-Stage Wiper Plug



碰压座  
Shut-off Baffle Plate

