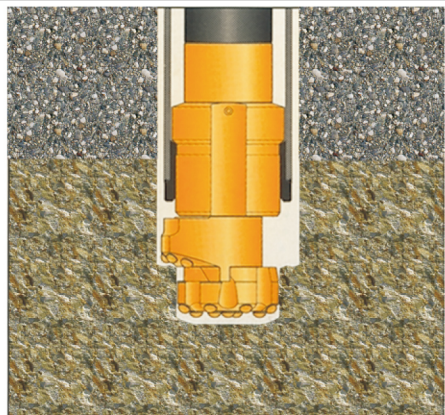




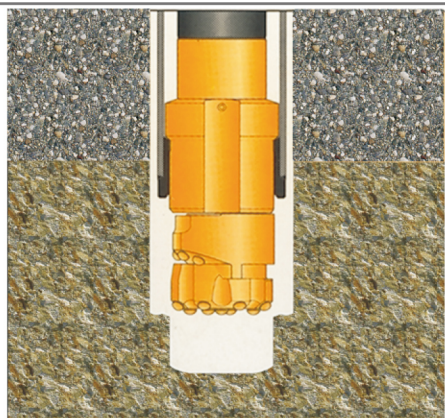
偏心钻具工作原理
Eccentric Reamer System Step-by-step

偏 心 钻 具
Overburden Drilling Equipment



1、凿岩工作开始时，偏心扩孔套沿偏心导向钻头旋出，同时开始扩孔以保证套管和钻进系统同时前进。

When drilling starts, the reamer swings out and reams the pilot-hole wide enough for the casing tube to slide down behind the drill bit assembly.



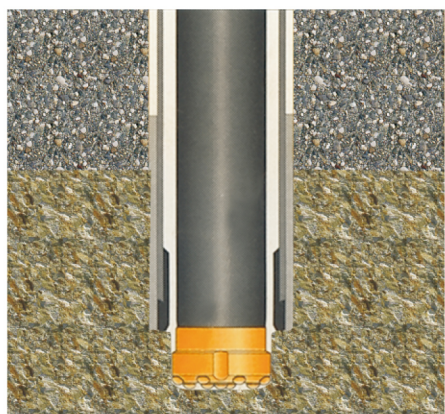
2、跟管钻进到位后，小心地反转，偏心扩孔套旋回，并将偏心钻具系统从套管中拔出。

When the required depth is reached, rotation is reversed carefully, whereupon the reamer swings in, allowing the drill bit assembly to be pulled up through the casing.



3、将套管向上拔，同时在孔底喷灌砂浆或其它填充物。

Casing tubes that are to be left in the drill hole should be sealed at the bottom of the hole by means of cement grout or some other sealing agent.



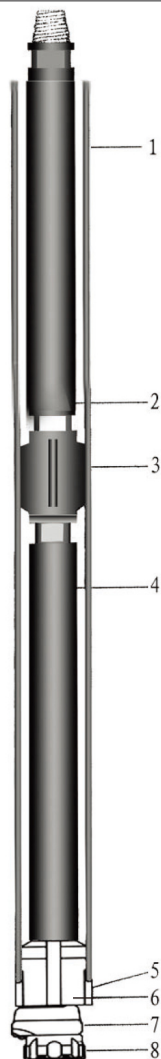
4、在基岩中采用常规钻具钻进以达到所需深度。

Drilling continues to the desired depth in the bedrock using a conventional drilling .



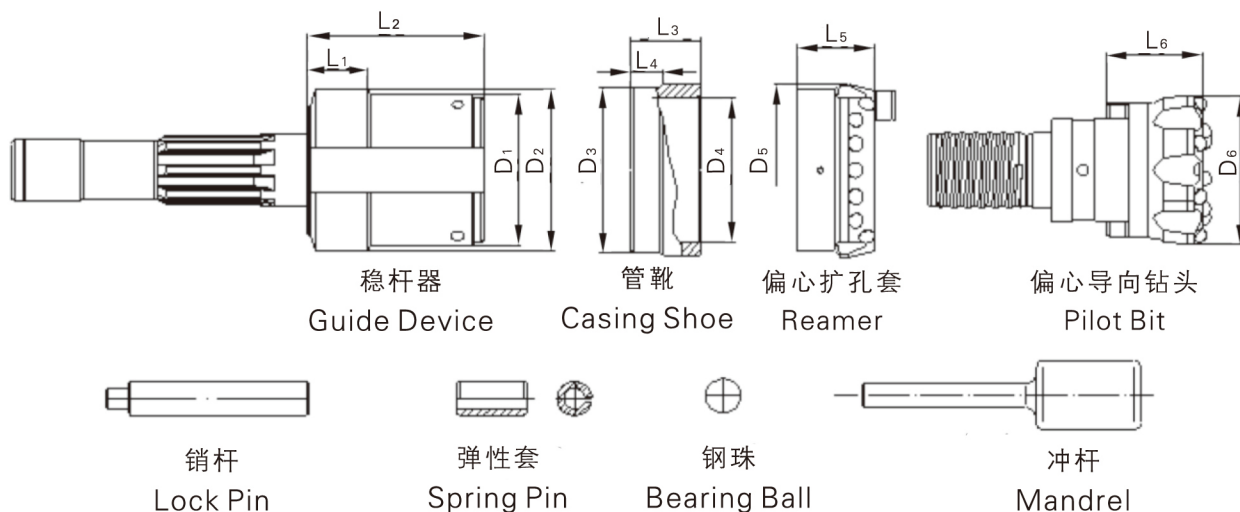
HOD90偏心钻具
HOD90 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 115mm 最小内径 (Minimum I.D) : 102mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 2 3/8" Reg 外径 (O.D) : 76mm 板手槽厚 (Wrench Flats) : 65mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 174mm
4	配用冲击器 DTH—Hammer	HD35、Cop32、IR3.5、QL30
5	管靴 Casing Shoe	L3=90mm L4= 55mm D3=101mm D4= 93 mm
6	稳杆器 Guide Device	L1=35mm L2=138mm D1=92 mm D2=100mm
7	偏心扩孔套 Reamer	D5=91mm L5=70mm 最大扩孔直径(Reaming Diameter): 123mm 偏心扩孔套有 $\phi 12$ 合金齿 4 粒 Reamer has 4 $\times \phi 12$ buttons
8	偏心导向钻头 Pilot Bit	D6=90mm L6=59mm 边齿 (Gauge button) : 8 $\times \phi 12$ 中齿 (Face button) : 6 $\times \phi 10$

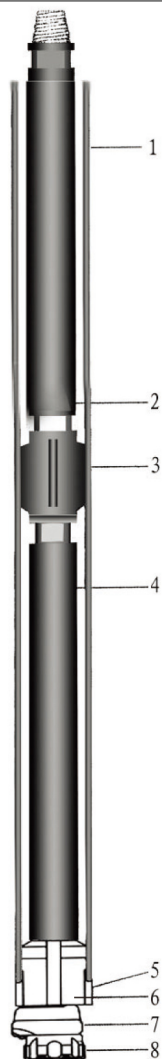
技 术 参 数
Technical Data





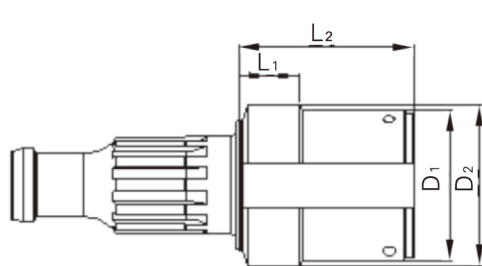
HOD115 偏心钻具
HOD115 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment

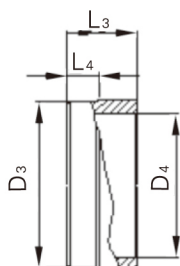


1	套管 Casing Tube	最大外径 (Maximum O.D) : 142mm 最小内径 (Minimum I.D) : 128mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 2 3/8" Reg 外径 (O.D) : 76mm 扳手槽厚 (Wrench Flats) : 65mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 174mm
4	配用冲击器 DTH—Hammer	HD45、Cop44、SD4、DHD340A、QL40、HM4
5	管靴 Casing Shoe	L3=76mm L4=55mm D3=127.5mm D4=117mm
6	稳杆器 Guide Device	L1=48mm L2=136mm D1=115 mm D2=126mm
7	偏心扩孔套 Reamer	D5=114mm L5=89mm 最大扩孔直径(Reaming Diameter): 152mm 偏心扩孔套有 $\phi 14$ 合金齿 5 粒 Reamer has 5 $\times \phi 14$ buttons
8	偏心导向钻头 Pilot Bit	D6=114mm L6=67mm 边齿 (Gauge button) : 8 $\times \phi 14$ 中齿 (Face button) : 6 $\times \phi 13$

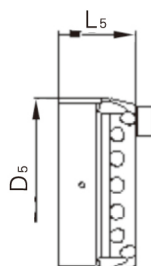
技 术 参 数
Technical Data



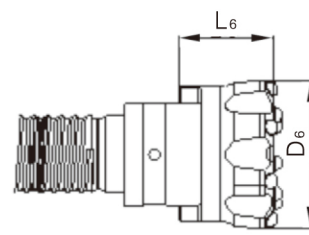
稳杆器
Guide Device



管靴
Casing Shoe



偏心扩孔套
Reamer



偏心导向钻头
Pilot Bit



销杆
Lock Pin



弹性套
Spring Pin



钢珠
Bearing Ball

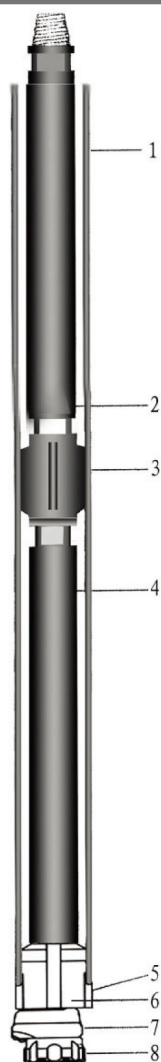


冲杆
Mandrel



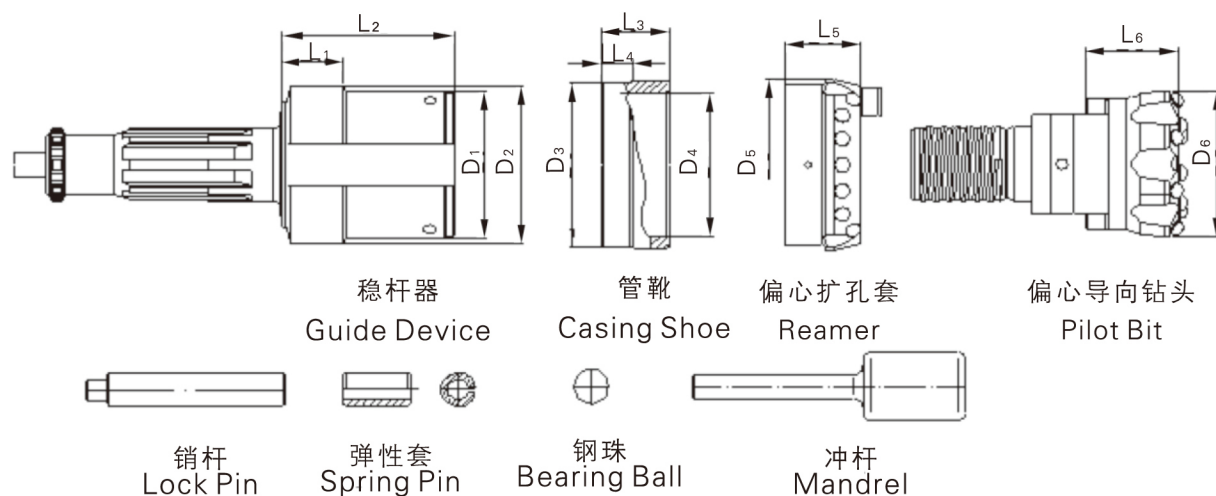
HOD140 偏心钻具
HOD140 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 171mm 最小内径 (Minimum I.D) : 155.6mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API2 ³ / ₈ " Reg 外径 (O.D) : 89mm 板手槽厚 (Wrench Flats) : 65mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 205mm
4	配用冲击器 DTH—Hammer	HD55、Cop54、SD5、DHD350R、QL50
5	管靴 Casing Shoe	L3=90mm L4=63mm D3=155.3mm D4=143mm
6	稳杆器 Guide Device	L1=55mm L2=160mm D1= 141mm D2=154mm
7	偏心扩孔套 Reamer	D5=138mm L5=69.5mm 最大扩孔直径(Reaming Diameter): 185mm 偏心扩孔套有 $\phi 14$ 合金齿 7 粒 Reamer has 7 $\times \phi 14$ Buttons
8	偏心导向钻头 Pilot Bit	D6=138mm L6=66.5mm 边齿 (Gauge button) : 8 $\times \phi 16$ 中齿 (Face button) : 8 $\times \phi 14$

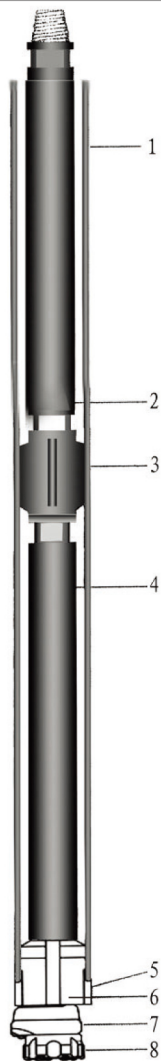
技 术 参 数
Technical Data





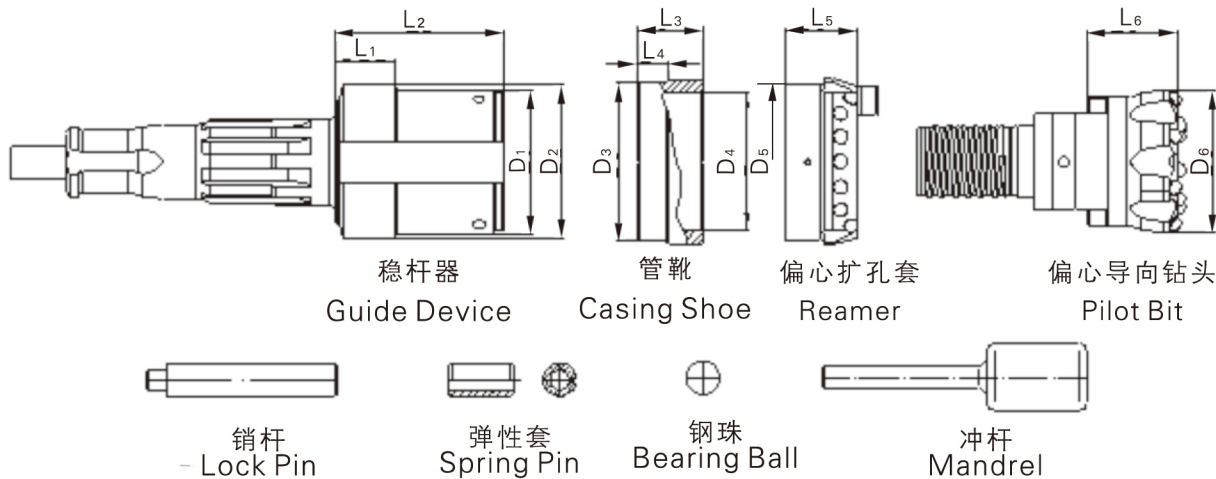
HOD165 偏心钻具
HOD165 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 195mm 最小内径 (Minimum I.D) : 182.6mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 3 1/2" Reg 外径 (O.D) : 114mm 扳手槽厚 (Wrench Flats) : 95mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 225mm
4	配用冲击器 DTH—Hammer	HD65、Cop64、SD6、DHD360、QL60
5	管靴 Casing Shoe	L3=95mm L4=55mm D3=181.5mm D4=166mm
6	稳杆器 Guide Device	L1=61.5mm L2=181.5mm D1= 165 mm D2=178mm
7	偏心扩孔套 Reamer	D5=164mm L5=79.5mm 最大扩孔直径(Reaming Diameter): 211mm 偏心扩孔套有 ϕ 14合金齿 7粒 Reamer has 7 $\times$ ϕ 14 Buttons
8	偏心导向钻头 Pilot Bit	D6=165mm L6=82.5mm 边齿 (Gauge button) : 8 $\times$ ϕ 16 中齿 (Face button) : 8 $\times$ ϕ 16

技 术 参 数
Technical Data



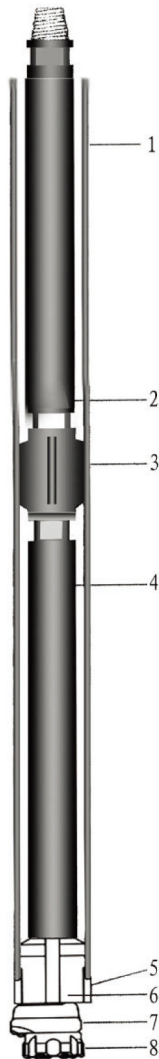


HOD190 偏心钻具

HOD190 Eccentric Overburden Drilling Equipment

偏 心 钻 具

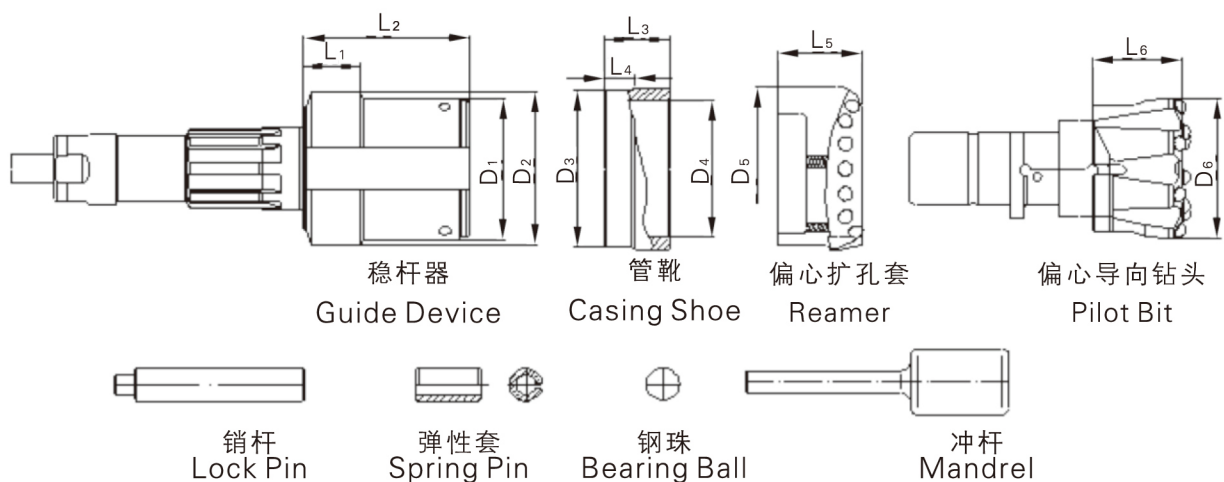
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 222mm 最小内径 (Minimum I.D) : 205mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 3 1/2" Reg 外径 (O.D) : 114mm 板手槽厚 (Wrench Flats) : 95mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 285mm
4	配用冲击器 DTH—Hammer	HD65、Cop64、SD6、DHD360、QL60
5	管靴 Casing Shoe	L3=110mm L4=70mm D3=204.5mm D4=193mm
6	稳杆器 Guide Device	L1=62.5mm L2=184.5mm D1=191mm D2=203mm
7	偏心扩孔套 Reamer	D5=185.5mm L5=90.2mm 最大扩孔直径(Reaming Diameter): 237mm 偏心扩孔套有 $\phi 16$ 合金齿 7 粒 Reamer has 7 $\times \phi 16$ Buttons
8	偏心导向钻头 Pilot Bit	D6=190mm L6=82mm 边齿 (Gauge button) : 9 $\times \phi 18$ 中齿 (Face button) : 9 $\times \phi 16$

技 术 参 数

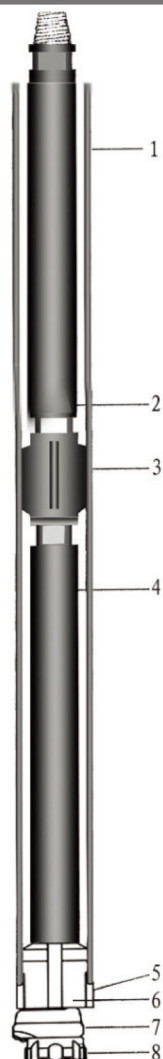
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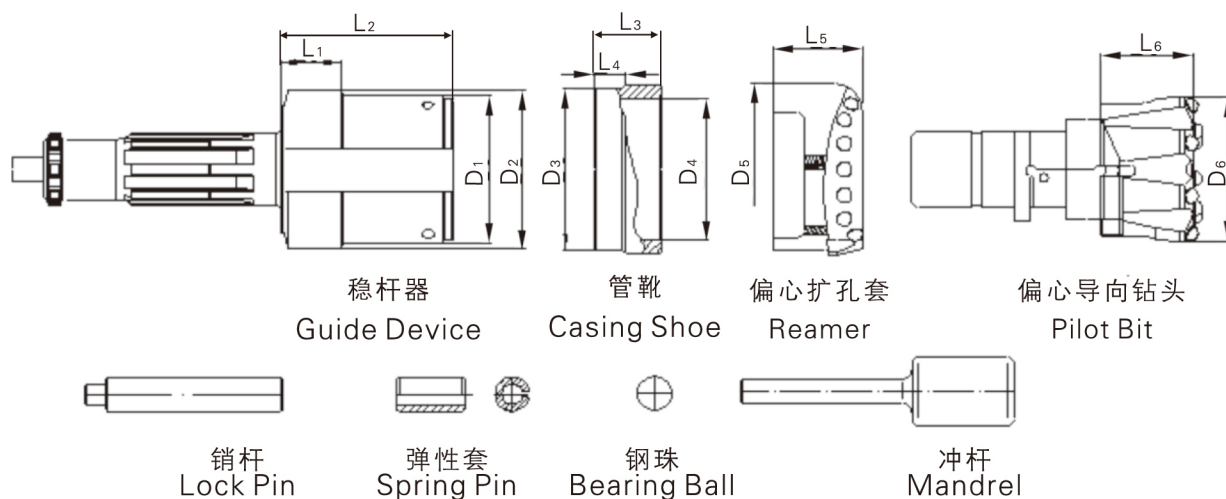
HOD240 偏心钻具
HOD240 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 273mm 最小内径 (Minimum I.D) : 260.4mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 3 1/2" Reg 外径 (O.D) : 114mm 扳手槽厚 (Wrench Flats) : 95mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 343mm
4	配用冲击器 DTH—Hammer	HD85、Cop84、SD8、DHD380、QL80
5	管靴 Casing Shoe	L3=110mm L4=65mm D3=259mm D4=241mm
6	稳杆器 Guide Device	L1=70mm L2=190mm D1=240mm D2=256mm
7	偏心扩孔套 Reamer	D5=238mm L5=100mm 最大扩孔直径(Reaming Diameter): 308m 偏心扩孔套有 $\phi 16$ 合金齿 14 粒 Reamer has 14 $\times \phi 16$ Buttons
8	偏心导向钻头 Pilot Bit	D6=240mm L6=89.5mm 边齿 (Gauge button) : 12 $\times \phi 16$ 中齿 (Face button) : 18 $\times \phi 16$

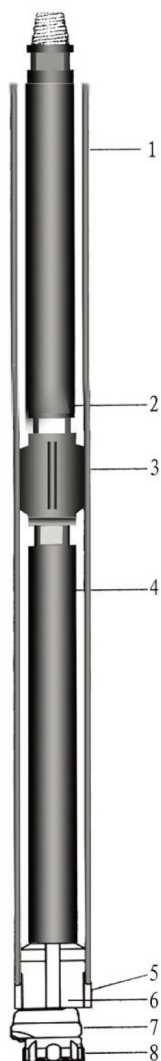
技 术 参 数
Technical Data





HOD280偏心钻具
HOD280 Eccentric Overburden Drilling Equipment

偏 心 钻 具
Overburden Drilling Equipment



1	套管 Casing Tube	最大外径 (Maximum O.D) : 324mm 最小内径 (Minimum I.D) : 305mm
2	钻管 Drill Pipe	连接螺纹 (Connection Thread) : API 4 1/2" Reg 外径 (O.D) : 114mm 板手槽厚 (Wrench Flats) : 95mm
3	导向接头 Guide Sleeve	有效长度 (Effective length) : 305mm
4	配用冲击器 DTH—Hammer	SD10、NUMA100
5	管靴 Casing Shoe	L3=125mm L4=75mm D3=304mm D4=281mm
6	稳杆器 Guide Device	L1=97mm L2=254mm D1=280mm D2=303 mm
7	偏心扩孔套 Reamer	D5=266mm L5=120mm 最大扩孔直径(Reaming Diameter): 378mm 偏心扩孔套有 $\phi 18$ 合金齿22粒 Reamer has 22 $\times \phi 18$ Buttons
8	偏心导向钻头 Pilot Bit	D6=280mm L6=135mm 边齿 (Gauge button) : 12 $\times \phi 18$ 中齿 (Face button) : 27 $\times \phi 16$

技 术 参 数
Technical Data

