

wooke
ROCK DRILL EQUIPMENT
五环欧科

旋风快冲潜孔钻具 DTH Hammer TND Series



TND Series

C目录
ONTENT

企业简介	-----	1
Company Profile	-----	1
钻头尾柄说明	-----	3
Bit Shank Identification Chart	-----	3
有尾管旋风快冲(TND Hammer With Foot Valve)	-----	7
TND-IR3.5	-----	7
TND-IR340	-----	8
TND-QL40	-----	9
TND-SD4	-----	10
TND-IR350	-----	11
TND-QL50	-----	12
TND-SD5	-----	13
TND-IR360	-----	14
TND-QL60	-----	15
TND-SD6	-----	16
TND-IR380	-----	17
TND-QL80	-----	18
TND-SD8	-----	19
无尾管旋风快冲(TND Hammer Without Foot Valve)	-----	21
TND-2.5N	-----	21
TND-3.5N	-----	22
TND-M30	-----	23
TND-340N	-----	24
TND-M40	-----	25
TND-350N	-----	26
TND-M50	-----	27
TND-QL50N	-----	28
TND-360N	-----	29
TND-M60	-----	30
TND-QL60N	-----	31
TND-380N	-----	32
TND-M80	-----	33
TND-QL80N	-----	34

企业简介

COMPANY INTRODUCTION

五环钻机具有限责任公司创立于1995年，位于世界水电名都——宜昌。是一家经三峡工程打造，引领行业发展的创新型企业，是国家高新技术企业、湖北省隐形冠军企业、中国钎钢钎具协会常务理事单位。

公司专注于制造高压潜孔冲击器、钻头、钻杆；顶锤式螺纹钻头、钎尾、连接套；反循环式潜孔冲击器、钻头；各类偏心、同心跟管钻具。应用于露天石场、采矿、水利水电、地质勘探等工程领域。

“专注品质，追求卓越”。公司拥有多项颠覆性专利和高压潜孔钻具制造技术；独创旋风、威猛系列潜孔冲击器，领先全国及世界，并成功实现了产品转型升级、传统生产向智能化生产的跨越。综合实力处于国内行业领先地位。

Established in 1995, Wooke Rock Drill Equipment Co Ltd is located in the city of Yichang, known for the worldwide famous hydroelectric project “Three Gorges Dam”. With the products testified by Three Gorges Project, we are an innovative enterprise pioneering the industry development. Our company has been awarded as “National High-Tech Enterprise”, “State Invisible Enterprise Champion”, and is a current “Executive Member of China Rock-Drill Steel and Tools Association”.

Our company focuses on manufacturing high air pressure DTH hammers, bits, drill pipes, top hammer threaded button bits, shank adapters, coupling sleeves, RC hammers and bits, and a variety of eccentric and symmetric casing systems, which are widely used in open-pit quarry, mining, water and hydropower projects, geological exploration etc.

“Focus on quality, strive for excellence” is our motto. Our company has a number of disruptive product patents and intellectual properties in high air pressure DTH rock drilling tools manufacturing technologies. We have exclusively designed and launched TND series、Wooke series DTH products, both are cutting-edge domestically and internationally, and have successfully transformed from traditional production to intelligentized automatic production. Our comprehensive competitiveness is ranking among the leading positions in China.






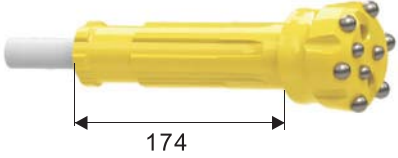
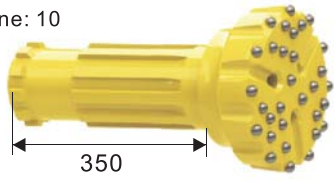

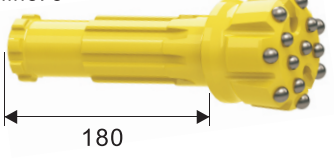
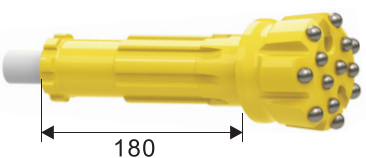


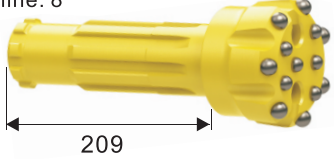
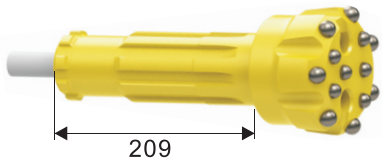


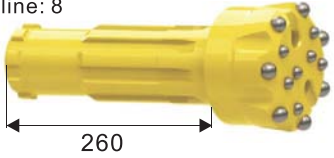


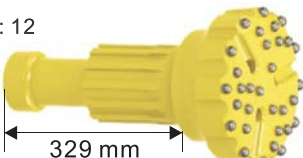


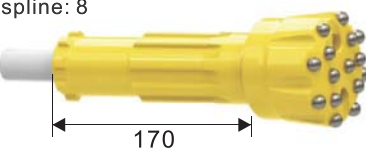

▲ 技术研发中心
Technology research and Development Center



▲ 意大利吉埃斐公司生产热处理生产线
Italy Ji Aifei produced heat treatment production line




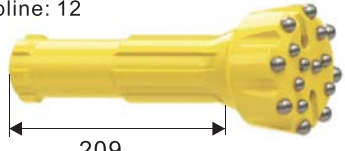

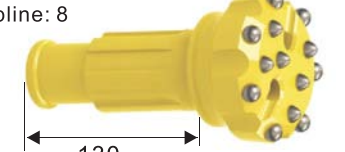
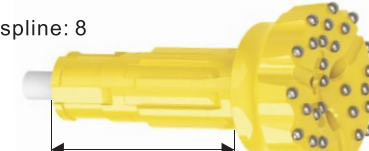



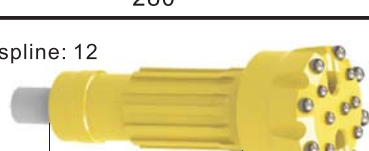




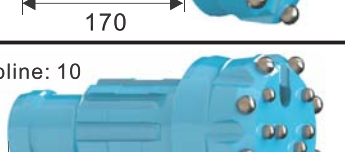

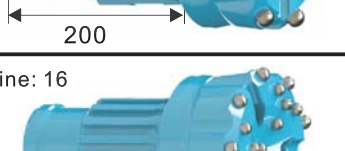
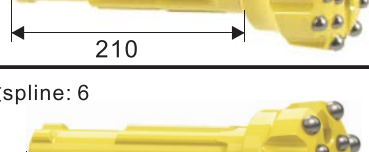







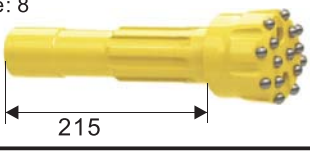


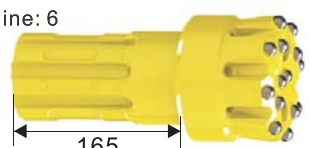
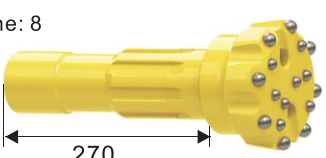


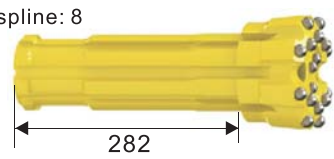
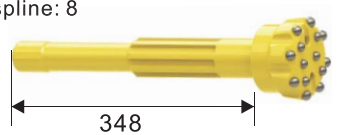

▲ 现代高档数控生产线(金加工)
Modern CNC production lines (metal processing)

<p>花键数spline: 6</p>  <p>2.5N 174</p>  <p>CWG76 174</p>	<p>花键数spline: 10</p>  <p>380N 350</p>  <p>DHD380 350</p>
<p>花键数spline: 8</p>  <p>3.5N 180</p>  <p>DHD3.5 180</p>	<p>花键数spline: 12</p>  <p>DHD110 396</p> <p>花键数spline: 8</p>  <p>Mission 30 224</p>
<p>花键数spline: 8</p>  <p>340N 209</p>  <p>DHD340A,IR4, Secoroc COP44 209</p>	<p>花键数spline: 12</p>  <p>Mission 40 228</p> <p>花键数spline: 12</p>  <p>Mission 50 260</p>
<p>花键数spline: 8</p>  <p>350N 260</p>  <p>DHD350R Secoroc COP54 260</p>	<p>花键数spline: 12</p>  <p>Mission 60 60W 65 231</p> <p>花键数spline: 12</p>  <p>Mission 80 329 mm</p>
<p>花键数spline: 8</p>  <p>360N 309</p>  <p>DHD360,IR SF6, Secoroc COP64 309</p>	<p>花键数spline: 8</p>  <p>Mach33 170</p> <p>花键数spline: 8</p>  <p>Mach44 180</p>

钻头尾柄说明

Bit Shank Identification Chart

<p>花键数spline: 8</p>  <p>SD4</p> <p>260</p>	<p>花键数spline: 6</p>  <p>BR3</p> <p>164</p>
<p>花键数spline: 8</p>  <p>SD5</p> <p>260</p>	<p>花键数spline: 12</p>  <p>BR4</p> <p>209</p>
<p>花键数spline: 8</p>  <p>SD6</p> <p>324</p>	<p>花键数spline: 8</p>  <p>XF90K</p> <p>130</p>
<p>花键数spline: 8</p>  <p>SD8</p> <p>321</p>	<p>花键数spline: 6</p>  <p>Wooke25</p> <p>141</p>
<p>花键数spline: 10</p>  <p>QL40</p> <p>280</p>	<p>花键数spline: 6</p>  <p>Wooke30</p> <p>130</p>
<p>花键数spline: 12</p>  <p>QL50</p> <p>240</p>	<p>花键数spline: 8</p>  <p>Wooke46</p> <p>143</p>
<p>花键数spline: 12</p>  <p>QL60</p> <p>253</p>	<p>花键数spline: 8</p>  <p>Wooke56</p> <p>170</p>
<p>花键数spline: 16</p>  <p>QL80</p> <p>332</p>	<p>花键数spline: 10</p>  <p>Wooke66</p> <p>200</p>
<p>花键数spline: 10</p>  <p>MD4</p> <p>210</p>	<p>花键数spline: 16</p>  <p>Wooke86</p> <p>220</p>
<p>花键数spline: 6</p>  <p>BR2</p> <p>165</p>	<p>花键数spline: 16</p>  <p>Wooke100</p> <p>280</p>

花键数spline: 8  245 COP34	花键数spline: 8  384 COPROD89
花键数spline: 12  209 TD40	花键数spline: 7  388 COPROD102
花键数spline: 8  215 COP32	花键数spline: 8  396 COPROD127
花键数spline: 7  190 COP42	花键数spline: 6  165 FZT140
花键数spline: 8  270 COP52	花键数spline: 8  281.5 RE054
花键数spline: 9  265 COP62	花键数spline: 8  282 DR53
花键数spline: 8  348 COPROD76	花键数spline: 8  261 PR54R

钻头头部形状与选型 Bit head design and selection



平面球齿型
Flat front
Spherical

适用钻凿硬岩，坚硬岩石及磨蚀性强岩层。
Applications:
For drilling in hard and abrasive rock.



平面边球中尖型
Flat front
Spherical+Ballistic

适用钻凿中硬岩，硬岩及中等磨蚀性岩石。
Applications:
For drilling in medium-hard to hard and moderately abrasive rock.



凸面边球中尖型
Convex front
Spherical+Ballistic

适用中硬岩及磨蚀性中等岩层。
Applications:
For drilling in medium-hard and moderately abrasive rock.



凸面全尖型
Convex front
Ballistic

适用非磨蚀性岩层的高速钻凿。
Applications:
For drilling at high penetration rates in non abrasive rock.



凹面球齿型
Concave front
Spherical

适用中硬岩，并有很小钻孔偏差。
Applications:
For drilling in medium-hard, minimum hole deviation control.

一种旋风快冲®(专利)结构设计——快速、节能、可靠

High Air Pressure DTH Hammer Series (With Foot Valve)

TND®(Patent)Advanced Structure Design—Fast,Reliable,Energy-saving

● 为了延长钻凿高磨蚀性岩石时外套管的使用寿命，后接头有三件套式，可及时更换耐磨套。

In order to increase working life of the piston case when drilling very abrasive rocks, the driver sub is designed to be made up of three pieces and only the wear-proof casing need to be replaced timely.

● 经热处理硬化实体活塞与内缸导向结构合理，能达到最高效率和产生很高冲击功，比相同规格产品提高钻速10~30%。

Heat treated piston and internal cylinder guiding system are reasonably structured to achieve the highest efficiency and the largest impacting power. The penetration speed is 10%-30% faster than other products of the same type.

● 旋风快冲®结构优化设计：内缸进风孔少，气槽刚性强，不易损坏。

TND® optimized structure design: Fewer air holes on internal cylinder, higher stiffness of air slot.

● 采用数控加工方法解决了多头螺纹旋合导向问题，使得钻头上机工作简单方便。前接头表面进行硬化处理，更耐磨，寿命更长。

The multiple threads are CNC machined to achieve high-accuracy, Making the bit easy and smooth to get assembled. Driver sub is heat treated to achieve better abrasiveness and longer life.

● 标准API螺纹

Standard API Thread

● 后接头有合金切削柱齿(供选择)。

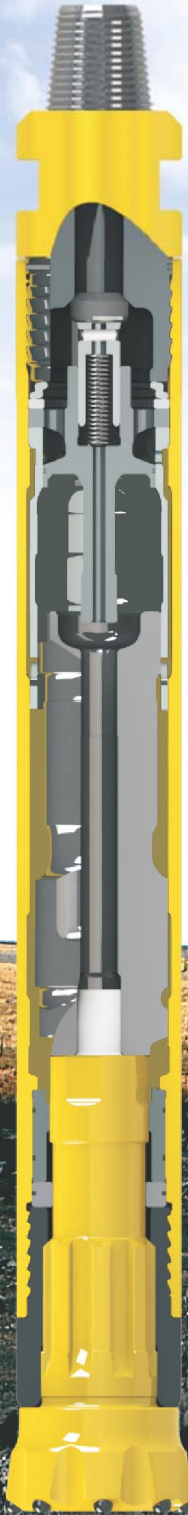
Top sub with cement carbide button(Alternative).

● 内部零件牢固地装配成一体，消除了相互磨损并增加可靠性。

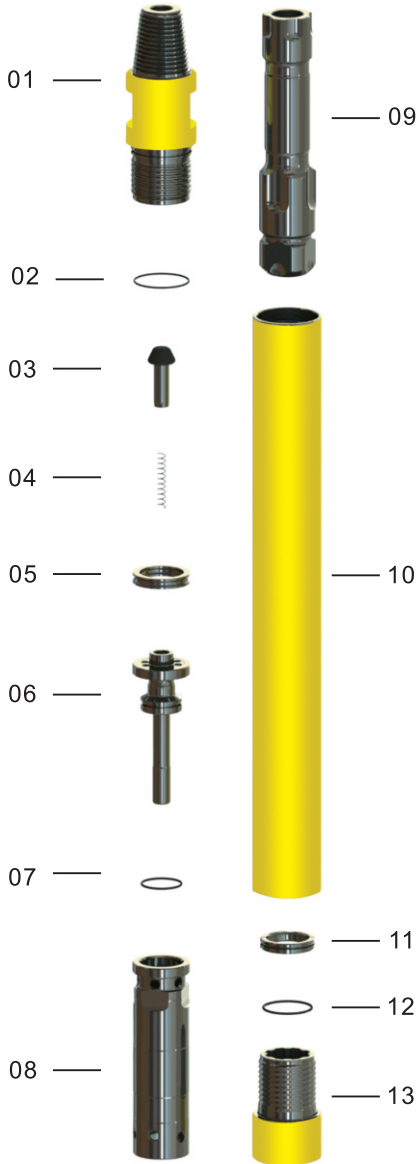
Internal parts are tightly assembled to avoid interactive wear and hammer's reliability is increased.

● 外套管选用优质合金钢，热处理后工作寿命长，可靠性好。

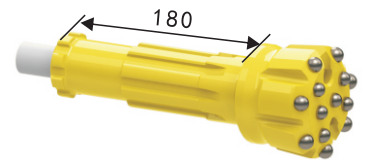
Piston case: Using superior alloy steel, even better reliability and longer life after heat treatment.



旋风快冲 TND[®]-IR3.5



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	5.08	TND-HJT-3.5
02 O型圈 O-Ring	0.01	O-HJT-3.5
03 逆止阀 Check Valve Dart	0.14	TND-NZF-3.5
04 弹簧 Spring	0.02	TH-3.5
05 抗振垫 Steel Washer	0.10	TND-KZD-3.5
06 配气杆 Rigid Valve	0.82	TND-PQG-3.5
07 O型圈 O-Ring	0.01	O-PQG-3.5
08 内缸 Internal Cylinder	1.2	TND-NG-3.5
09 活塞 Piston	5.08	TND-HS-IR3.5
10 外套管 Piston Case	8.24	TND-WTG-IR3.5
11 卡环 Bit Retainer Ring	0.12	KH-3.5
12 O型圈 O-Ring	0.01	O-KH-3.5
13 前接头 Driver Sub	1.79	TND-QJT-3.5
密封件 Seal Kit	0.03	SK-IR3.5
02 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	15.14	CSB-IR3.5
01 × 1		
10 × 1		
13 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank DHD3.5		
钻头直径 Bit dia 90; 100; 105		



八花键 8 splines

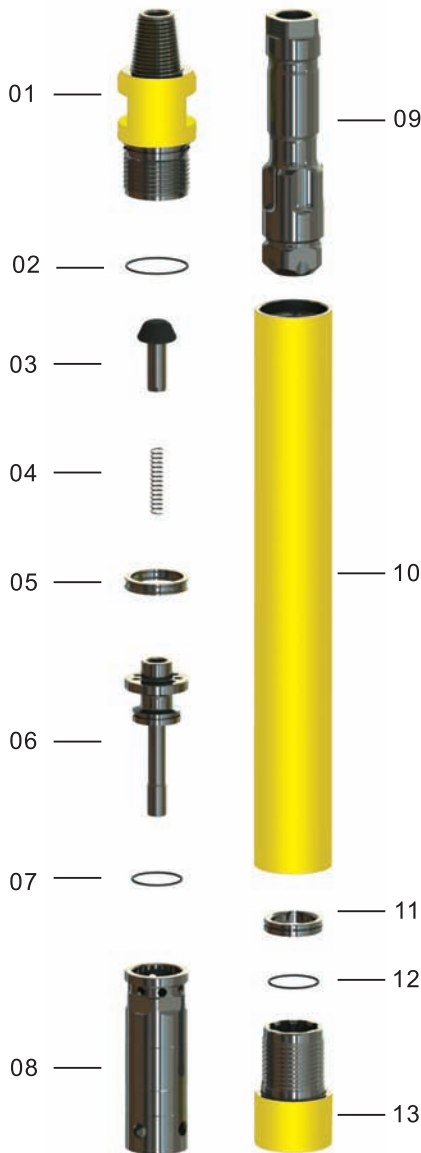
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
22.62	80	807		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
φ90-φ105	8-25	4.5	9.5	12.5

有尾管高压潜孔冲击器

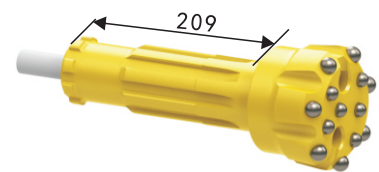
High Air Pressure DTH Hammers(with foot valve)

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ROCK DRILL EQUIPMENT
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旋风快冲 TND®-IR340



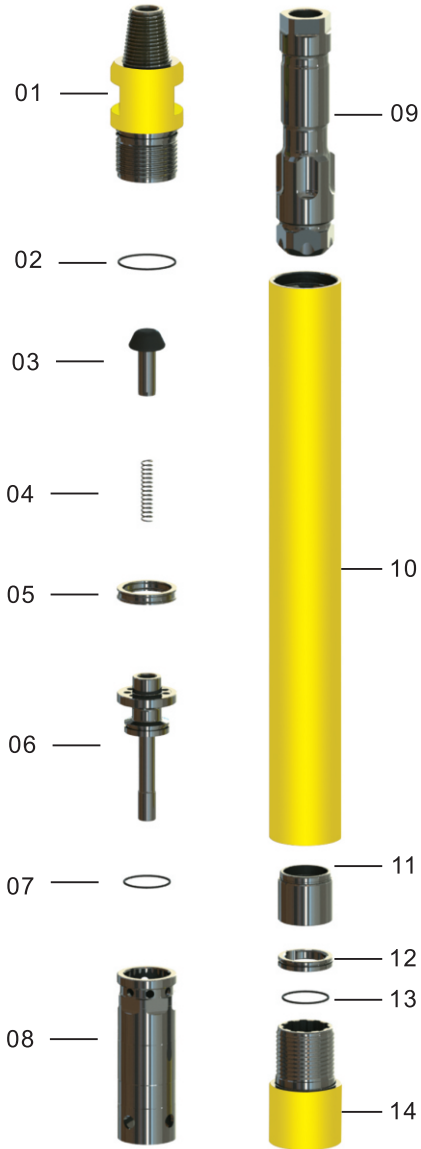
部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 $\frac{3}{8}$ "API REG	7	TND-HJT-4
02 O型圈 O-Ring	0.01	O-HJT-4
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.15	TND-KZD-4
06 配气杆 Rigid Valve	1.4	TND-PQG-4
07 O型圈 O-Ring	0.01	O-PQG-4
08 内缸 Internal Cylinder	2	TND-NG-4
09 活塞 Piston	8.7	TND-HS-IR340
10 外套管 Piston Case	15	TND-WTG-IR340
11 卡环 Bit Retainer Ring	0.34	KH-340
12 O型圈 O-Ring	0.01	O-KH-340
13 前接头 Driver Sub	4	TND-QJT-340
密封件 Seal Kit	0.03	SK-IR340
02 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	26.03	CSB-IR340
01 × 1		
10 × 1		
13 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank DHD340A		
钻头直径 Bit dia 108; 115; 121; 127; 130		



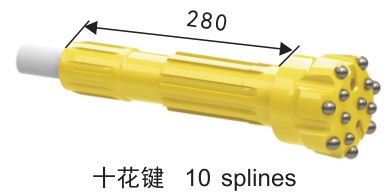
八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
38	99	882		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ105-Φ130	8-25	5	10.2	15

旋风快冲 TND®-QL40



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	7	TND-HJT-4
02 O型圈 O-Ring	0.01	O-HJT-4
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.15	TND-KZD-4
06 配气杆 Rigid Valve	1.4	TND-PQG-4
07 O型圈 O-Ring	0.01	O-PQG-4
08 内缸 Internal Cylinder	2	TND-NG-4
09 活塞 Piston	8.2	TND-HS-QL40
10 外套管 Piston Case	15	TND-WTG-QL40
11 保持套 Retainer Sleeve	0.77	TND-BCT-QL40
12 卡环 Bit Retainer Ring	0.34	KH-QL40
13 O型圈 O-Ring	0.01	O-KH-QL40
14 前接头 Driver Sub	4	TND-QJT-QL40
密封件 Seal Kit	0.03	SK-QL40
02 × 1		
07 × 1		
13 × 1		
易耗件 Consumable	26.03	CSB-QL40
01 × 1		
10 × 1		
14 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank QL40		
钻头直径 Bit dia 108; 115; 121; 127; 130		



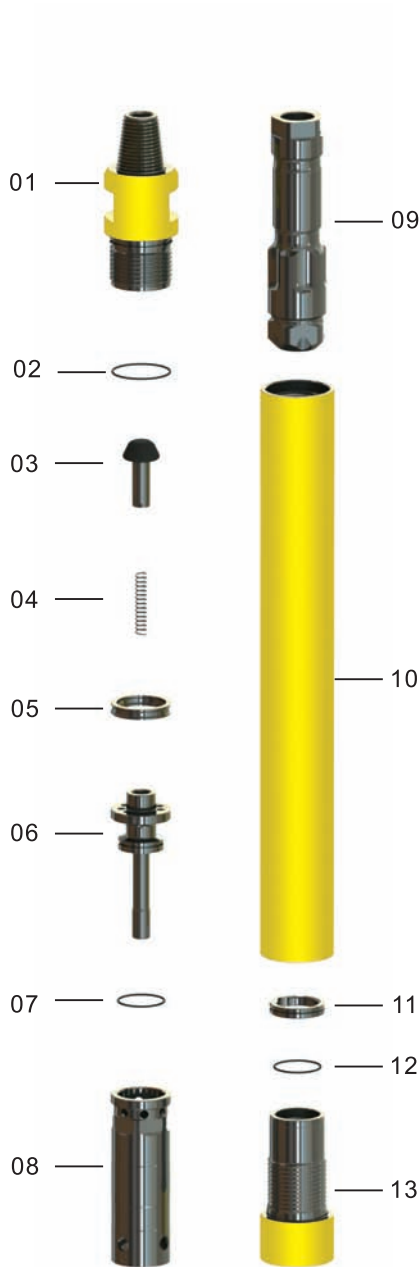
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
39.5	99	953		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 105-Φ 130	8-25	5	10.2	15

有尾管高压潜孔冲击器

High Air Pressure DTH Hammers(with foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

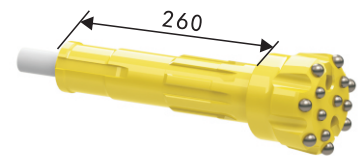
旋风快冲 TND®-SD4



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 $\frac{3}{8}$ "API REG	7	TND-HJT-4
02 O型圈 O-Ring	0.01	O-HJT-4
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.15	TND-KZD-4
06 配气杆 Rigid Valve	1.4	TND-PQG-4
07 O型圈 O-Ring	0.01	O-PQG-4
08 内缸 Internal Cylinder	2	TND-NG-4
09 活塞 Piston	8.2	TND-HS-SD4
10 外套管 Piston Case	15	TND-WTG-SD4
11 卡环 Bit Retainer Ring	0.34	KH-SD4
12 O型圈 O-Ring	0.01	O-KH-SD4
13 前接头 Driver Sub	4	TND-QJT-SD4
密封件 Seal Kit	0.03	SK-SD4
02 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	26.03	CSB-SD4
01 × 1		
10 × 1		
13 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
SD4

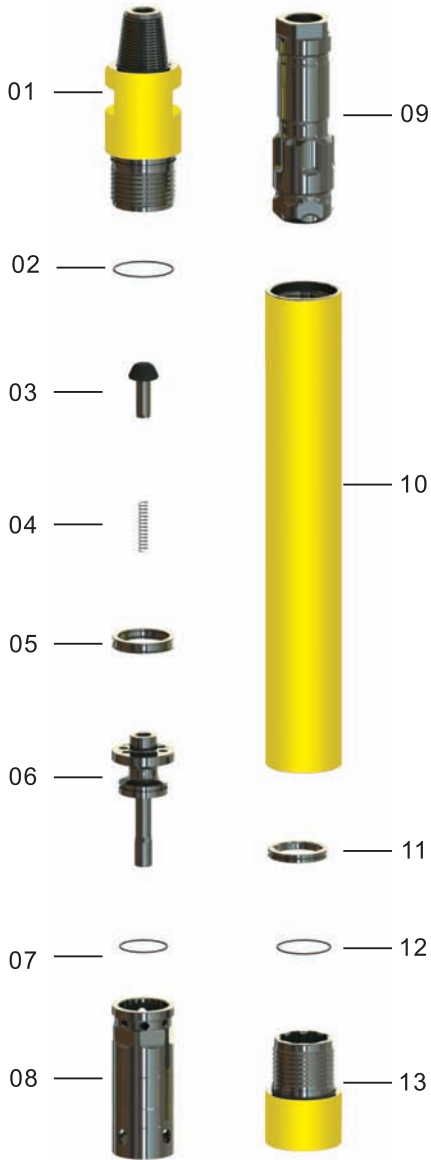
钻头直径 Bit dia
108; 115; 121; 127; 130



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
39	99	933		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ105-Φ130	8-25	5	10.2	15

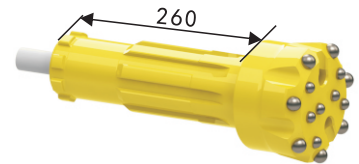
旋风快冲 TND®-IR350



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A *
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.27	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	14.58	TND-HS-IR350
10 外套管 Piston Case	25.11	TND-WTG-IR350
11 卡环 Bit Retainer Ring	0.33	KH-350
12 O型圈 O-Ring	0.01	O-KH-350
13 前接头 Driver Sub	6.96	TND-QJT-350
密封件 Seal Kit	0.04	SK-IR350
02 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	51.11	CSB-IR350
01 × 1		
10 × 1		
13 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
DHD350R

钻头直径 Bit dia
140; 148; 152



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
74	126	1028		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 133-Φ 152	8-30	7.5	14.7	19.5

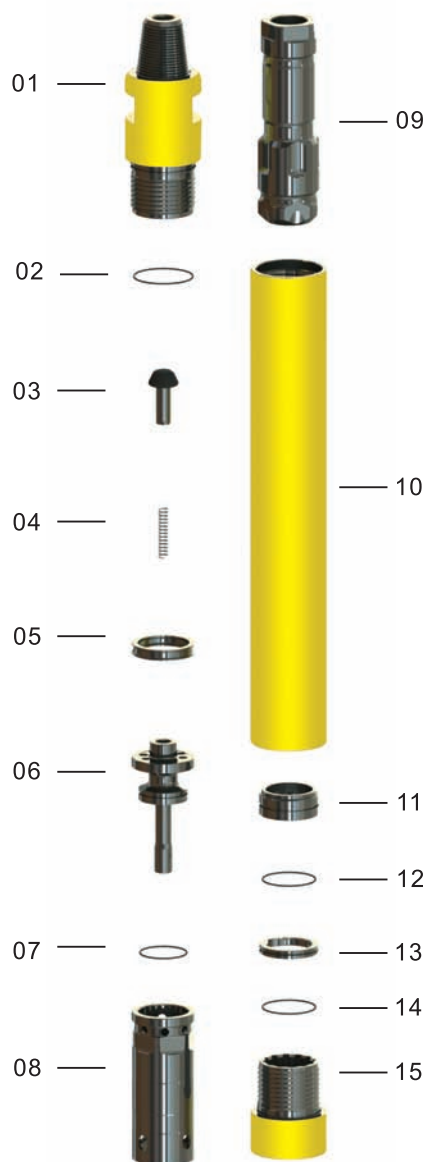
“*” 表示选配螺纹 (“*” Optional Thread type)

有尾管高压潜孔冲击器

High Air Pressure DTH Hammers(with foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

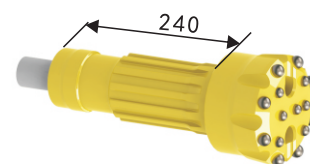
旋风快冲 TND®-QL50



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A *
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.27	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	15.13	TND-HS-QL50
10 外套管 Piston Case	25.11	TND-WTG-QL50
11 保持套 Retainer Sleeve	0.59	TND-BCT-QL50
12 O型圈 O-Ring	0.01	O-BCT-QL50
13 卡环 Bit Retainer Ring	0.33	KH-QL50
14 O型圈 O-Ring	0.01	O-KH-QL50
15 前接头 Driver Sub	6.96	TND-QJT-QL50
密封件 Seal Kit	0.04	SK-QL50
02 × 1 14 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	51.11	CSB-QL50
01 × 1		
10 × 1		
15 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
QL50

钻头直径 Bit dia
140; 148; 152

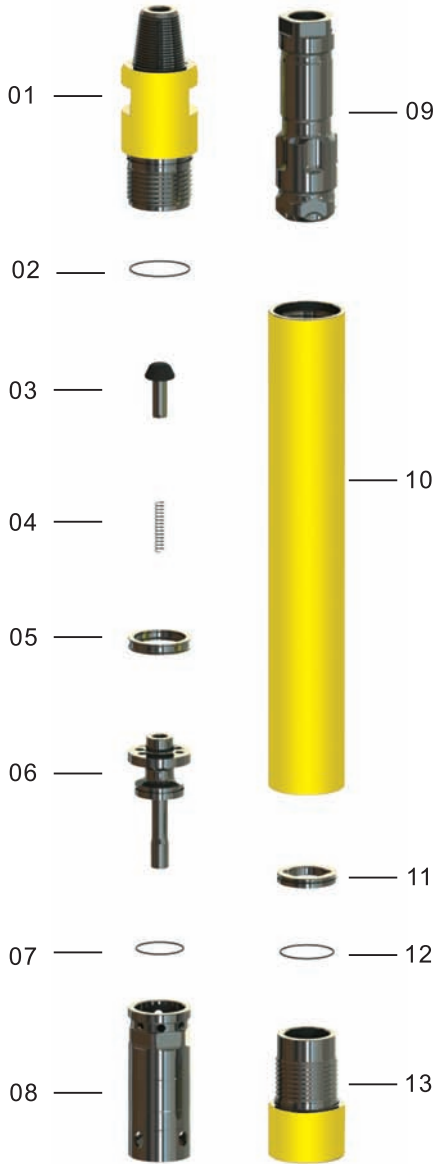


十二花键 12 splines

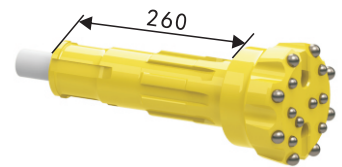
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
74	126	1008		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 133-Φ 152	8-30	7.5	14.7	19.5

“*”表示选配螺纹 (“*” Optional Thread type)

旋风快冲TND®-SD5



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A *
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.27	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	15.33	TND-HS-SD5
10 外套管 Piston Case	25.11	TND-WTG-SD5
11 卡环 Bit Retainer Ring	0.51	KH-SD5
12 O型圈 O-Ring	0.01	O-KH-SD5
13 前接头 Driver Sub	6.96	TND-QJT-SD5
密封件 Seal Kit	0.03	SK-SD5
02 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	51.10	CSB-SD5
01 × 1		
10 × 1		
13 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank SD5		
钻头直径 Bit dia 140; 148; 152		
八花键 8 splines		



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
74	126	1043		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 133-Φ 152	8-30	7.5	14.7	19.5

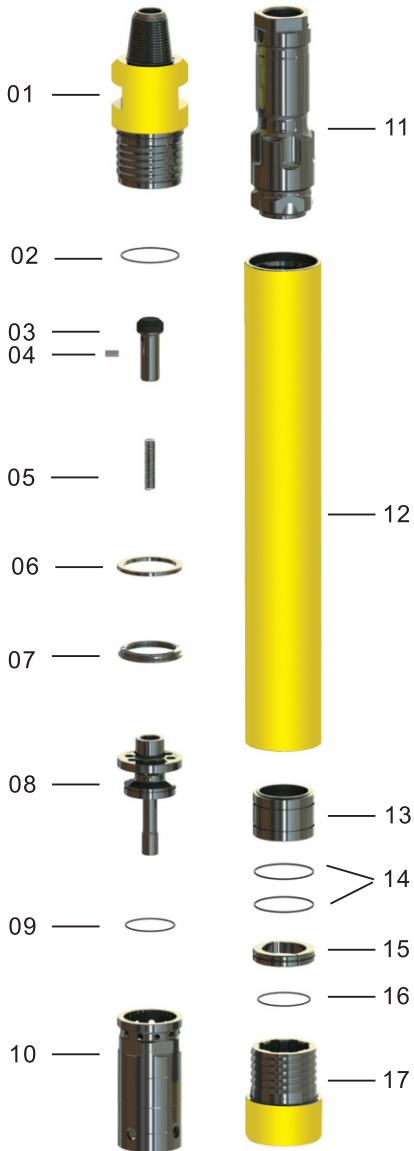
表示选配螺纹 (Optional Thread type)

有尾管高压潜孔冲击器

High Air Pressure DTH Hammers(with foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

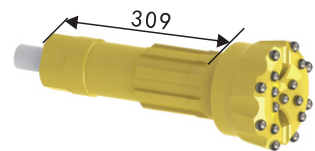
旋风快冲 TND®-IR360



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3½"API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (可选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	23.87	TND-HS-IR360
12 外套管 Piston Case	32.57	TND-WTG-IR360
13 保持套 Retainer Sleeve	2.62	TND-BCT-360
14 O型圈 O-Ring	0.01	O-BCT-6
15 卡环 Bit Retainer Ring	0.84	TND-KH-360
16 O型圈 O-Ring	0.01	O-KH-360
17 前接头 Driver Sub	8.94	TND-QJT-360
密封件 Seal Kit	0.05	SK-IR360
02 × 1	16 × 1	
09 × 1		
14 × 2		
易耗件 Consumable	63.7	CSB-IR360
01 × 1		
12 × 1		
17 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
DHD360

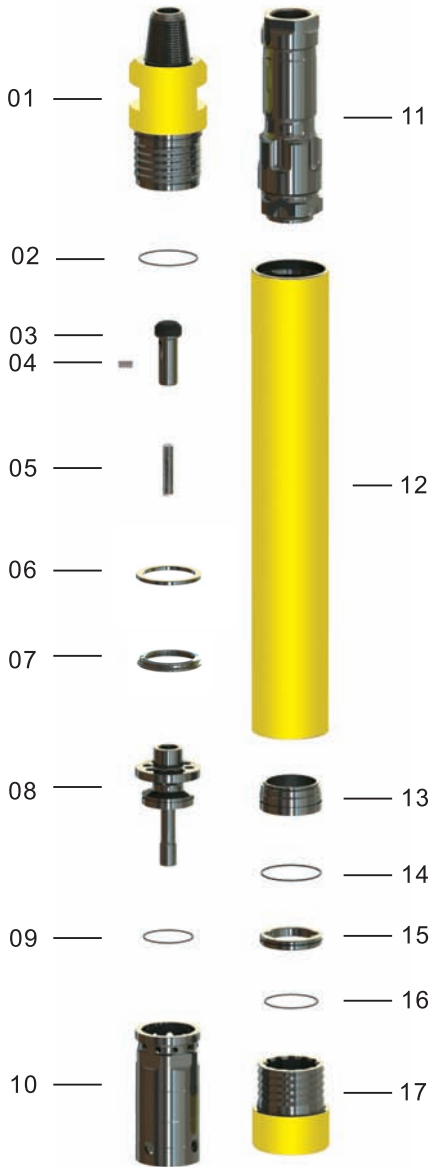
钻头直径 Bit dia
155; 159; 165; 178; 190; 203



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
112	144	1136		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 152-Φ 254	8-30	8.7	14.5	25

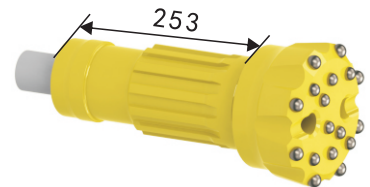
旋风快冲 TND®-QL60



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3½"API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.04	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	23.58	TND-HS-QL60
12 外套管 Piston Case	30.52	TND-WTG-QL60
13 保持套 Retainer Sleeve	1.2	TND-BCT-QL60
14 O型圈 O-Ring	0.01	O-BCT-QL60
15 卡环 Bit Retainer Ring	0.58	TND-KH-QL60
16 O型圈 O-Ring	0.01	O-KH-QL60
17 前接头 Driver Sub	7.28	TND-QJT-QL60
密封件 Seal Kit	0.04	SK-QL60
02 × 1 16 × 1		
09 × 1		
14 × 1		
易耗件 Consumable	59.98	CSB-QL60
01 × 1		
12 × 1		
17 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
QL60

钻头直径 Bit dia
155; 159; 165; 178; 190; 203



十二花键 12 splines

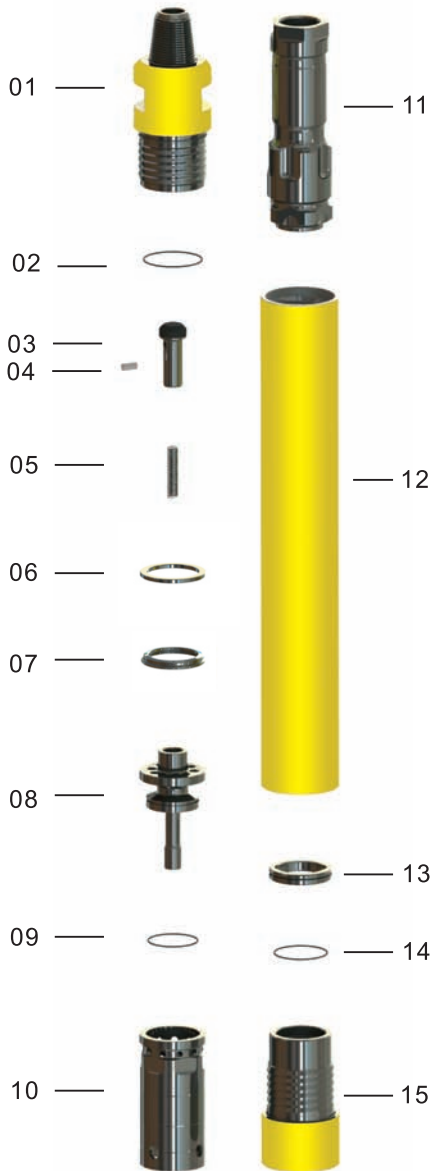
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
110	144	1081		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m3/min		
mm	bar	10bar	18bar	24bar
Φ 152-Φ 254	8-30	8.7	14.5	25

有尾管高压潜孔冲击器

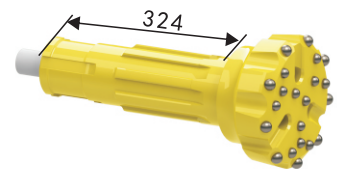
High Air Pressure DTH Hammers(with foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

旋风快冲 TND®-SD6



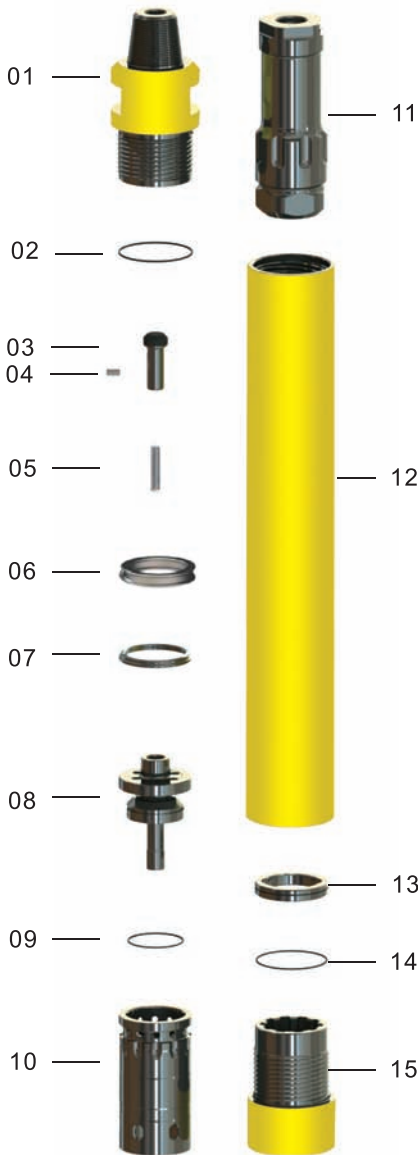
部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3 $\frac{1}{2}$ "API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	23.93	TND-HS-SD6
12 外套管 Piston Case	32.57	TND-WTG-SD6
13 卡环 Bit Retainer Ring	0.69	TND-KH-SD6
14 O型圈 O-Ring	0.01	O-KH-SD6
15 前接头 Driver Sub	11.18	TND-QJT-SD6
密封件 Seal Kit	0.03	SK-SD6
02 × 1		
09 × 1		
14 × 1		
易耗件 Consumable	65.92	CSB-SD6
01 × 1		
12 × 1		
15 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank SD6		
钻头直径 Bit dia 155; 159; 165; 178; 190; 203		



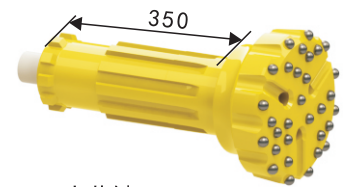
八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
113	144	1151		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 152-Φ 254	8-30	8.7	14.5	25

旋风快冲 TND®-IR380



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4 $\frac{1}{2}$ "API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 碟簧 Disc Spring	0.8	TND-DH-8
08 配气杆 Rigid Valve	8.15	TND-PQG-8
09 O型圈 O-Ring	0.01	O-PQG-8
10 内缸 Internal Cylinder	7.3	TND-NG-8
11 活塞 Piston	41.31	TND-HS-IR380
12 外套管 Piston Case	59.85	TND-WTG-IR380/QL80
13 卡环 Bit Retainer Ring	1.52	TND-KH-380
14 O型圈 O-Ring	0.01	O-KH-380
15 前接头 Driver Sub	18.21	TND-QJT-380
密封件 Seal Kit	0.03	SK-IR380
02 × 1		
09 × 1		
14 × 1		
易耗件 Consumable	118.57	CSB-IR380
01 × 1		
12 × 1		
15 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank DHD380		
钻头直径 Bit dia 194;203;216;219;222;254;270;305		



十花键 10 splines

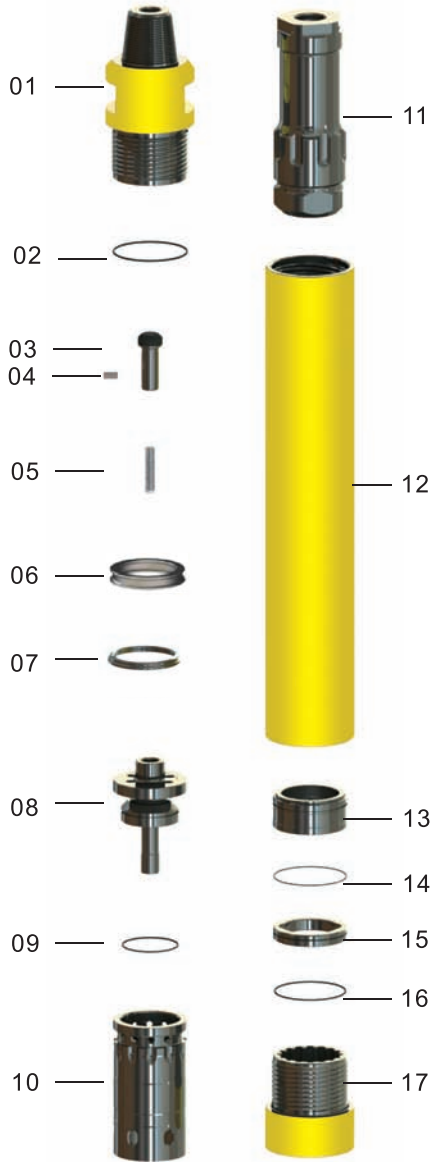
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
180	182	1227		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
φ 194-φ 305	8-30	12	26	35

有尾管高压潜孔冲击器

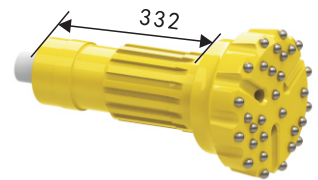
High Air Pressure DTH Hammers(with foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

旋风快冲 TND®-QL80



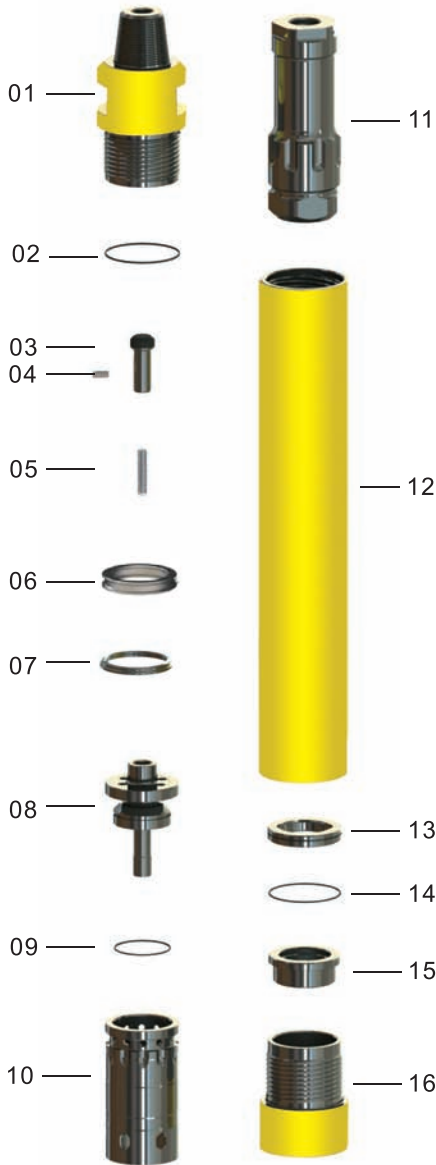
部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4½"API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.04	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 碟簧 Disc Spring	0.8	TND-DH-8
08 配气杆 Rigid Valve	8.15	TND-PQG-8
09 O型圈 O-Ring	0.01	O-PQG-8
10 内缸 Internal Cylinder	7.3	TND-NG-8
11 活塞 Piston	41.13	TND-HS-QL80
12 外套管 Piston Case	59.85	TND-WTG-IR380/QL80
13 保持套 Retainer Sleeve	3.28	TND-BCT-QL80
14 O型圈 O-Ring	0.01	O-BCT-QL80
15 卡环 Bit Retainer Ring	1.45	TND-KH-QL80
16 O型圈 O-Ring	0.01	O-KH-QL80
17 前接头 Driver Sub	13.13	TND-QJT-QL80
密封件 Seal Kit	0.04	SK-QL80
02 × 1 14 × 1		
09 × 1 16 × 1		
易耗件 Consumable	113.5	CSB-QL80
01 × 1		
12 × 1		
17 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank QL80		
钻头直径 Bit dia 194;203;216;219;222;254;270;305		



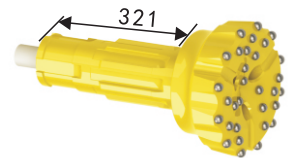
十六花键 16 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
182	182	1210		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ 194-Φ 305	8-35	12	26	35

旋风快冲 TND®-SD8

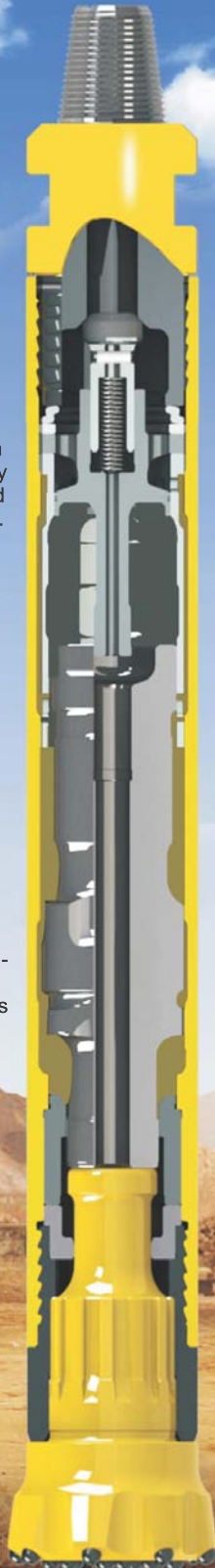


部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4½"API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 碟簧 Disc Spring	0.8	TND-DH-8
08 配气杆 Rigid Valve	8.15	TND-PQG-8
09 O型圈 O-Ring	0.01	O-PQG-8
10 内缸 Internal Cylinder	7.3	TND-NG-8
11 活塞 Piston	41.71	TND-HS-SD8
12 外套管 Piston Case	58.10	TND-WTG-SD8
13 卡环 Bit Retainer Ring	1.91	TND-KH-SD8
14 O型圈 O-Ring	0.01	O-KH-SD8
15 保持套 Retainer Sleeve	2.43	TND-BCT-SD8
16 前接头 Driver Sub	20.16	TND-QJT-SD8
密封件 Seal Kit	0.03	SK-SD8
02 × 1		
09 × 1		
14 × 1		
易耗件 Consumable	118.77	CSB-SD8
01 × 1		
12 × 1		
16 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank SD8		
钻头直径 Bit dia 194;203;216;219;222;254;270;305		



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
182	182	1198		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m3/min		
mm	bar	10bar	18bar	24bar
Φ 194-Φ 305	8-35	12	26	35



● 为了延长钻凿高磨蚀性岩石时外套管的使用寿命，后接头有三件套式，可及时更换耐磨套。

In order to increase working life of the piston case when drilling very abrasive rocks, the driver sub is designed to be made up of three pieces and only the wear-proof casing need to be replaced timely.

● 经热处理硬化实体活塞与内缸导向结构合理，能达到最高效率和产生很高冲击功，比相同规格产品提高钻速10~30%。
Heat treated piston and internal cylinder guiding system are reasonably structured to achieve the highest efficiency and the largest impacting power. The penetration speed is 10%-30% faster than other products of the same type.

● 旋风快冲[®]结构优化设计：内缸进风孔少，气槽刚性强，不易损坏。
TND[®] optimized structure design: Fewer air holes on internal cylinder, higher stiffness of air slot.

● 采用数控加工方法解决了多头螺纹旋合导向问题，使得钻头上机工作简单方便。前接头表面进行硬化处理，更耐磨，寿命更长。
The multiple threads are CNC machined to achieve high-accuracy, Making the bit easy and smooth to get assembled. Driver sub is heat treated to achieve better abrasiveness and longer life.

● 标准API螺纹

Standard API Thread

● 后接头有合金切削柱齿(供选择)。

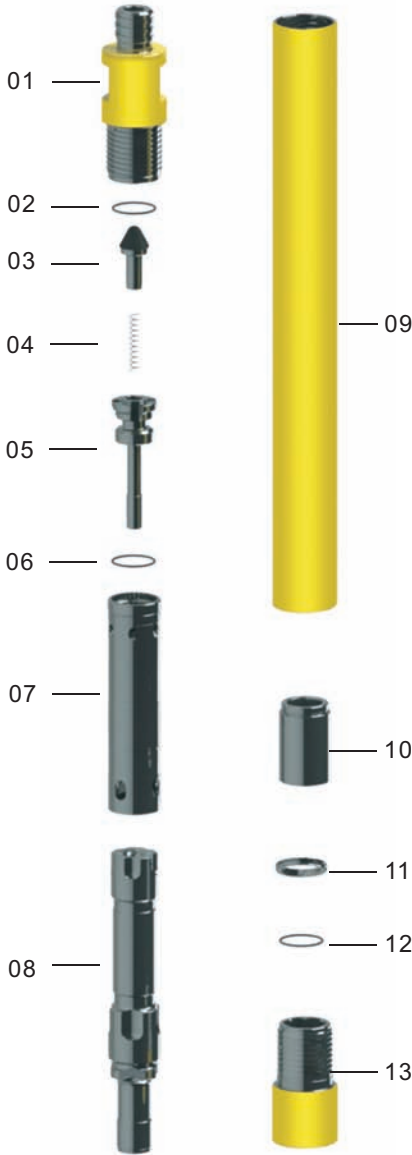
Top sub with cement carbide button (Alternative).

● 内部零件牢固地装配成一体，消除了相互磨损并增加可靠性。
Internal parts are tightly assembled to avoid interactive wear and hammer's reliability is increased.

● 外套管选用优质合金钢，热处理后工作寿命长，可靠性好。

Piston case: Using superior alloy steel, even better reliability and longer life after heat treatment.

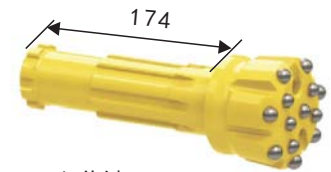
旋风快冲 TND[®]-2.5N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 T42X10X2	3.34	TND-HJT-2.5
02 O型圈 O-Ring	0.01	O-HJT-2.5
03 逆止阀 Check Valve Dart	0.10	TND-NZF-2.5
04 弹簧 Spring	0.02	TH-2.5
05 配气杆 Rigid Valve	0.45	TND-PQG-2.5
06 O型圈 O-Ring	0.01	O-PQG-2.5
07 内缸 Internal Cylinder	0.97	TND-NG-2.5
08 活塞 Piston	4.00	TND-HS-2.5N
09 外套管 Piston Case	5.96	TND-WTG-2.5N
10 导向套 Guide Sleeve	0.55	TND-DXT-2.5N
11 卡环 Bit Retainer Ring	0.06	TND-KH-2.5
12 O型圈 O-Ring	0.01	O-KH-2.5
13 前接头 Driver Sub	1.74	TND-QJT-2.5
密封件 Seal Kit	0.03	SK-2.5N
02 × 1		
06 × 1		
12 × 1		
易耗件 Consumable	11.07	CSB-2.5N
01 × 1		
07 × 1		
11 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
CWG76N

钻头直径 Bit dia
78



六花键 6 splines

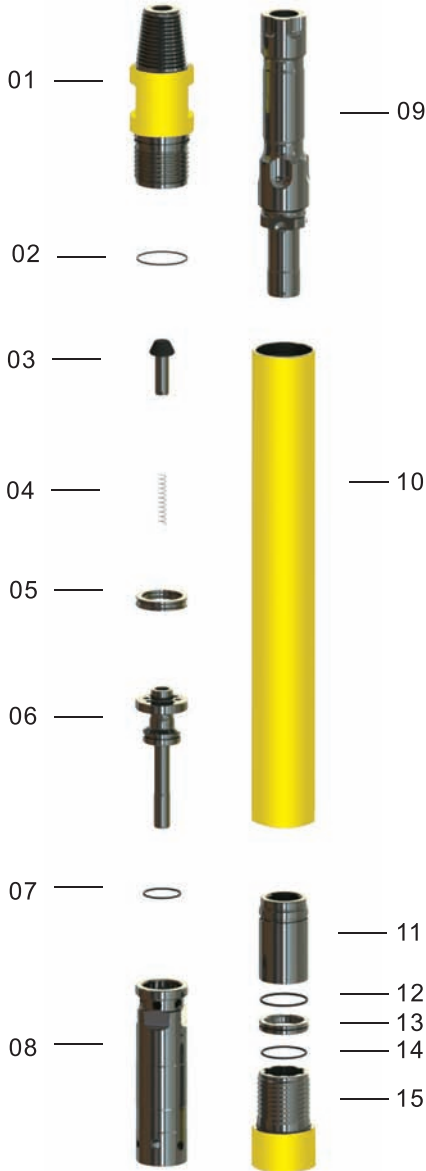
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)	
17.5	70	806	
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min	
mm	bar	10bar	18bar
Φ76-Φ80	8-18	3	8

无尾管高气压潜孔冲击器

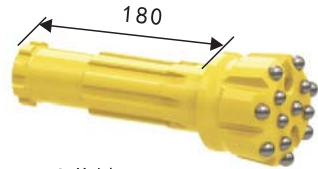
High Air Pressure DTH Hammers(without foot valve)

wooke
ROCK DRILL EQUIPMENT
五环欧科

旋风快冲 TND®-3.5N

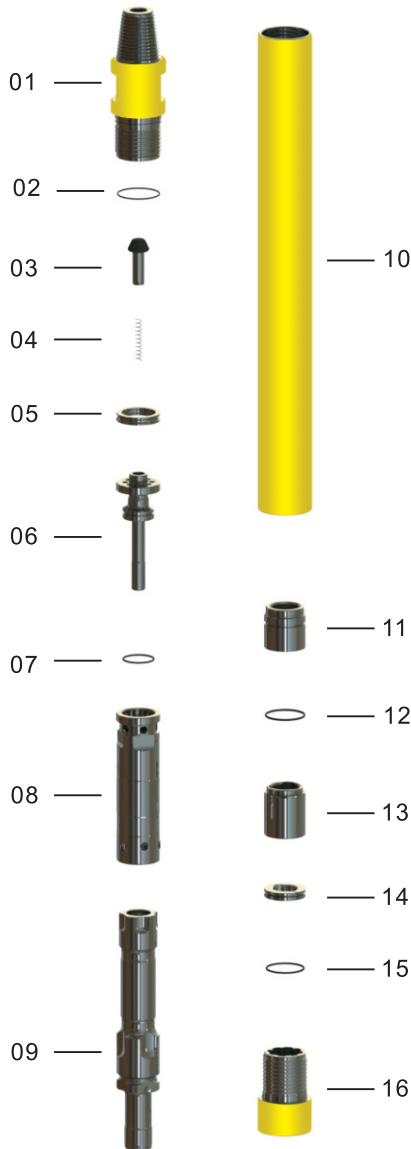


部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	5.08	TND-HJT-3.5
02 O型圈 O-Ring	0.01	O-HJT-3.5
03 逆止阀 Check Valve Dart	0.14	TND-NZF-3.5
04 弹簧 Spring	0.02	TH-3.5
05 抗震垫 Steel Washer	0.10	TND-KZD-3.5
06 配气杆 Rigid Valve	0.82	TND-PQG-3.5
07 O型圈 O-Ring	0.01	O-PQG-3.5
08 内缸 Internal Cylinder	1.20	TND-NG-3.5
09 活塞 Piston	5.27	TND-HS-3.5N
10 外套管 Piston Case	9.10	TND-WTG-3.5N
11 导向套 Guide Sleeve	0.82	TND-DXT-3.5N
12 O型圈 O-Ring	0.01	O-DXT-3.5
13 卡环 Bit Retainer Ring	0.12	TND-KH-3.5
14 O型圈 O-Ring	0.01	O-KH-3.5
15 前接头 Driver Sub	1.79	TND-QJT-3.5
密封件 Seal Kit	0.04	SK-3.5N
02 × 1		
07 × 1		
12 × 1		
14 × 1		
易耗件 Consumable	16.01	CSB-3.5N
01 × 1		
10 × 1		
15 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank 3.5N		
钻头直径 Bit dia 90;100;105		
		180
		八花键 8 splines



重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)	
24.5	80	862	
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min	
mm	bar	10bar	18bar
Φ90-Φ105	8-18	3.8	8

旋风快冲TND[®]-M30



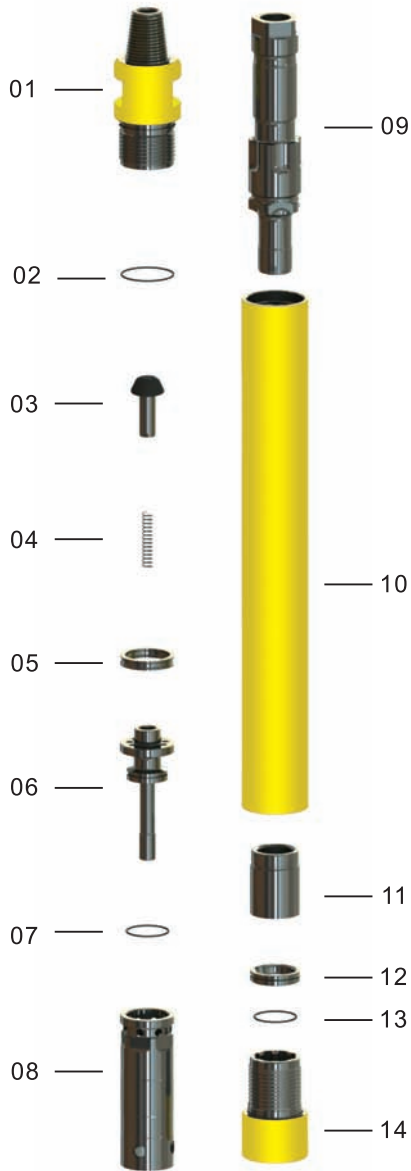
部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	5.08	TND-HJT-3.5
02 O型圈 O-Ring	0.01	O-HJT-3.5
03 逆止阀 Check Valve Dart	0.14	TND-NZF-3.5
04 弹簧 Spring	0.10	TH-3.5
05 抗振垫 Steel Washer	0.15	TND-KZD-3.5
06 配气杆 Rigid Valve	0.82	TND-PQG-3.5
07 O型圈 O-Ring	0.01	O-PQG-3.5
08 内缸 Internal Cylinder	1.20	TND-NG-3.5
09 活塞 Piston	5.08	TND-HS-3.5N
10 外套管 Piston Case	8.24	TND-WTG-M30
11 导向套 Guide Sleeve	0.82	TND-DXT-M30
12 O型圈 O-Ring	0.01	O-DXT-M30
13 保持套 Retainer Sleeve	0.30	TND-BCT-M30
14 卡环 Bit Retainer Ring	0.12	KH-M30
15 O型圈 O-Ring	0.01	O-KH-M30
16 前接头 Driver Sub	1.80	TND-QJT-M30
密封件 Seal Kit	0.04	SK-M30
02 × 1 15 × 1		
07 × 1		
12 × 1		
易耗件 Consumable	15.16	CSB-M30
01 × 1		
10 × 1		
16 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank Mission30		<p>224</p> <p>八花键 8 splines</p>
钻头直径 Bit dia 90;100;105		

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)	
23	80	907	
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min	
mm	bar	10bar	18bar
Φ90-Φ105	8-18	3.8	8

无尾管高压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)

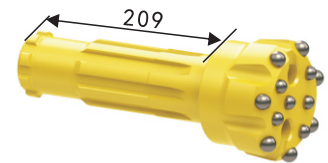
旋风快冲 TND®-340N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	7	TND-HJT-4
02 O型圈 O-Ring	0.01	O-HJT-4
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.15	TND-KZD-4
06 配气杆 Rigid Valve	1.4	TND-PQG-4
07 O型圈 O-Ring	0.01	O-PQG-4
08 内缸 Internal Cylinder	2	TND-NG-4
09 活塞 Piston	9.04	TND-HS-4N
10 外套管 Piston Case	15.7	TND-WTG-340N
11 导向套 Guide Sleeve	1.05	TND-DXT-4N
12 卡环 Bit Retainer Ring	0.21	KH-340
13 O型圈 O-Ring	0.01	O-KH-340
14 前接头 Driver Sub	3.57	TND-QJT-340
密封件 Seal Kit	0.03	SK-340N
02 × 1		
07 × 1		
13 × 1		
易耗件 Consumable	26.30	CSB-340N
01 × 1		
10 × 1		
14 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
340N

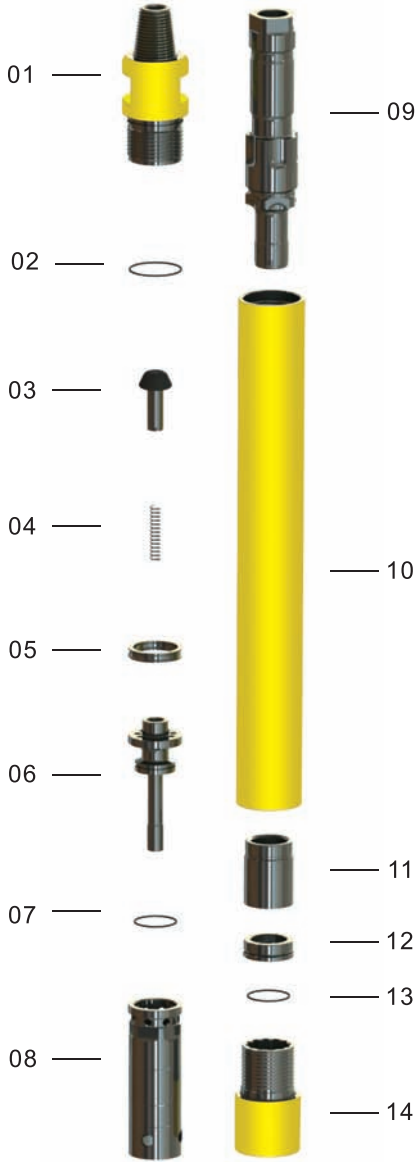
钻头直径 Bit dia
108;115;121;127;130



八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
40.5	99	937		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ105-Φ130	8-25	4.5	9	14

旋风快冲TND[®]-M40



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:2 ³ / ₈ "API REG	7	TND-HJT-4
02 O型圈 O-Ring	0.01	O-HJT-4
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.15	TND-KZD-4
06 配气杆 Rigid Valve	1.4	TND-PQG-4
07 O型圈 O-Ring	0.01	O-PQG-4
08 内缸 Internal Cylinder	2	TND-NG-4
09 活塞 Piston	9.04	TND-HS-4N
10 外套管 Piston Case	15.7	TND-WTG-340N/M40
11 导向套 Guide Sleeve	1.05	TND-DXT-4N
12 卡环 Bit Retainer Ring	0.48	KH-M40
13 O型圈 O-Ring	0.01	O-KH-M40
14 前接头 Driver Sub	3.13	TND-QJT-M40
密封件 Seal Kit	0.03	SK-M40
02 × 1		
07 × 1		
13 × 1		
易耗件 Consumable	25.86	CSB-M40
01 × 1		
10 × 1		
14 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank Mission40		
钻头直径 Bit dia 108;115;121;127;130		



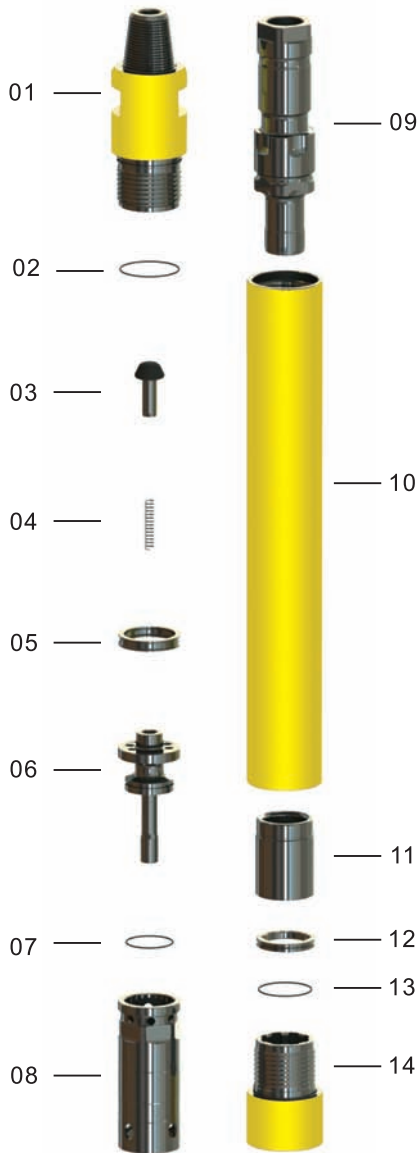
十二花键 12 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
41	99	956		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ105-Φ130	8-25	4.5	9	14

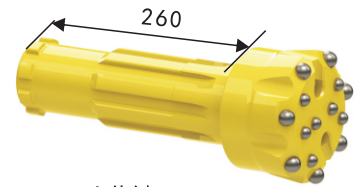
无尾管高气压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)

旋风快冲TND®-350N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A*
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.3	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5N
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	15.62	TND-HS-5N
10 外套管 Piston Case	27.45	TND-WTG-350N/M50
11 导向套 Guide Sleeve	2.48	TND-DXT-350N/M50
12 卡环 Bit Retainer Ring	0.33	KH-350
13 O型圈 O-Ring	0.01	O-KH-350
14 前接头 Driver Sub	6.96	TND-QJT-350
密封件 Seal Kit	0.03	SK-350N
02 × 1		
07 × 1		
13 × 1		
易耗件 Consumable	53.44	CSB-350N
01 × 1		
10 × 1		
14 × 1		
密封件 Seal Kit		
钻头尾柄 Bit shank 350N		
钻头直径 Bit dia 140;148;152		

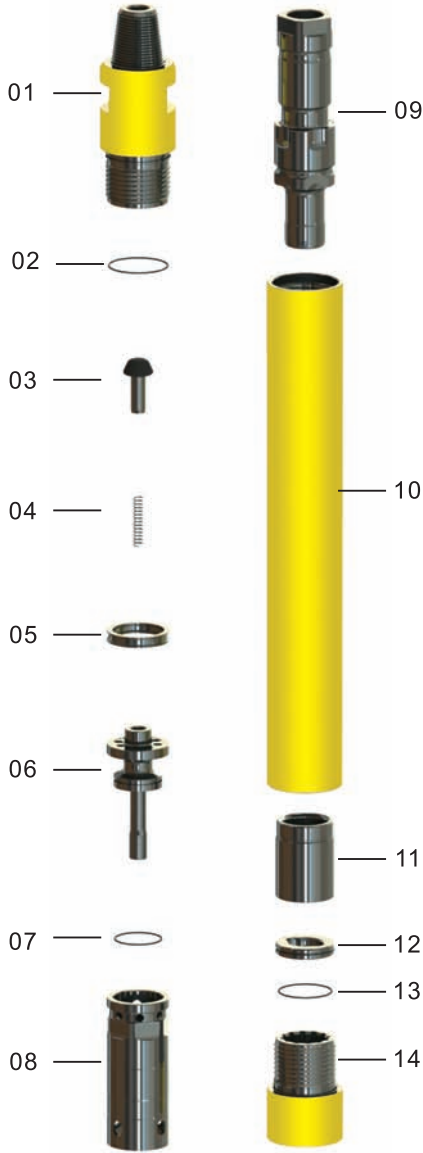


八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
74	126	1081		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ133-Φ152	8-30	6.5	12.5	17

“*”表示选配螺纹 (“*” Optional Thread type)

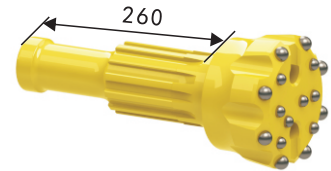
旋风快冲 TND[®]-M50



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A *
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.3	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5N
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	15.62	TND-HS-5N
10 外套管 Piston Case	27.45	TND-WTG-350N/M50
11 导向套 Guide Sleeve	2.48	TND-DXT-350N/M50
12 卡环 Bit Retainer Ring	0.65	KH-M50
13 O型圈 O-Ring	0.01	O-KH-M50
14 前接头 Driver Sub	7.16	TND-QJT-M50
密封件 Seal Kit	0.03	SK-M50
02 × 1		
07 × 1		
13 × 1		
易耗件 Consumable	53.64	CSB-M50
01 × 1		
10 × 1		
14 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
Mission50

钻头直径 Bit dia
140;148;152



十二花键 12 splines

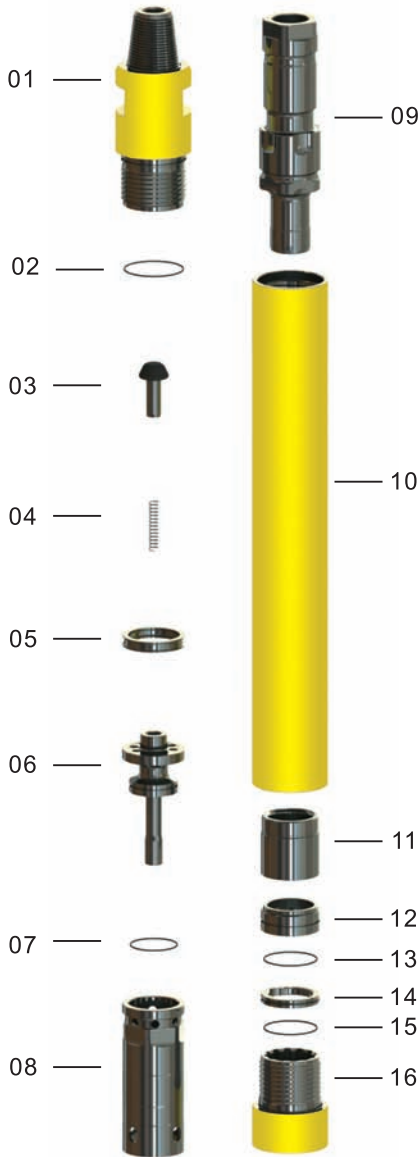
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
74	126	1079		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ133-Φ152	8-30	6.5	12.5	17

“*”表示选配螺纹 (“*” Optional Thread type)

无尾管高气压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)

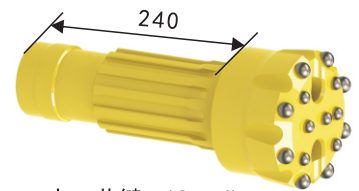
旋风快冲TND®-QL50N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub: 2 $\frac{3}{8}$ " API REG	19.0	TND-HJT-5
3 $\frac{1}{2}$ " API REG	19.5	TND-HJT-5-A *
02 O型圈 O-Ring	0.01	O-HJT-5
03 逆止阀 Check Valve Dart	0.3	TND-NZF-4/5
04 弹簧 Spring	0.05	TH-4/5
05 抗振垫 Steel Washer	0.3	TND-KZD-5
06 配气杆 Rigid Valve	2.82	TND-PQG-5N
07 O型圈 O-Ring	0.01	O-PQG-5
08 内缸 Internal Cylinder	3.15	TND-NG-5
09 活塞 Piston	15.62	TND-HS-5N
10 外套管 Piston Case	27.45	TND-WTG-QL50N
11 导向套 Guide Sleeve	1.99	TND-DXT-QL50N
12 保持套 Retainer Sleeve	0.74	TND-BCT-QL50
13 O型圈 O-Ring	0.01	O-BCT-QL50
14 卡环 Bit Retainer Ring	0.33	KH-QL50
15 O型圈 O-Ring	0.01	O-KH-QL50
16 前接头 Driver Sub	5.27	TND-QJT-QL50
密封件 Seal Kit	0.04	SK-QL50N
02 × 1 13 × 1		
07 × 1 15 × 1		
易耗件 Consumable	51.76	CSB-QL50N
01 × 1		
10 × 1		
16 × 1		
密封件 Seal Kit		

钻头尾柄 Bit shank
QL50N

钻头直径 Bit dia
140;148;152

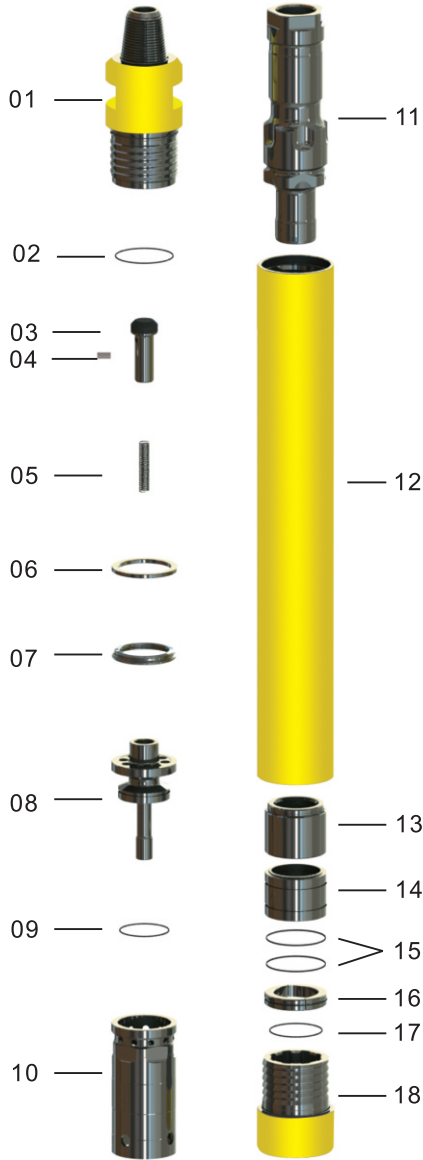


十二花键 12 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
73	126	1061		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ133-Φ152	8-30	6.5	12.5	17

“*”表示选配螺纹 (“*” Optional Thread type)

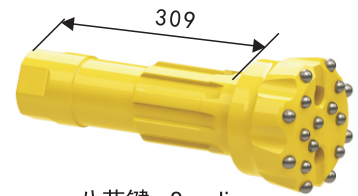
旋风快冲TND®-360N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3 $\frac{1}{2}$ "API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6N
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	24.12	TND-HS-6N
12 外套管 Piston Case	35.53	TND-WTG-360N
13 导向套 Guide Sleeve	2.92	TND-DXT-QL60N/360N
14 保持套 Retainer Sleeve	2.62	TND-BCT-360
15 O型圈 O-Ring	0.01	O-BCT-360
16 卡环 Bit Retainer Ring	0.84	TND-KH-360
17 O型圈 O-Ring	0.01	O-KH-360
18 前接头 Driver Sub	8.94	TND-QJT-360
密封件 Seal Kit	0.04	SK-360N
02 × 1 15 × 1		
09 × 1 17 × 1		
易耗件 Consumable	66.69	CSB-360N
01 × 1 18 × 1		
12 × 1 密封件 Seal Kit		

钻头尾柄 Bit shank
TND-360N

钻头直径 Bit dia
155;159;165;178;190;203



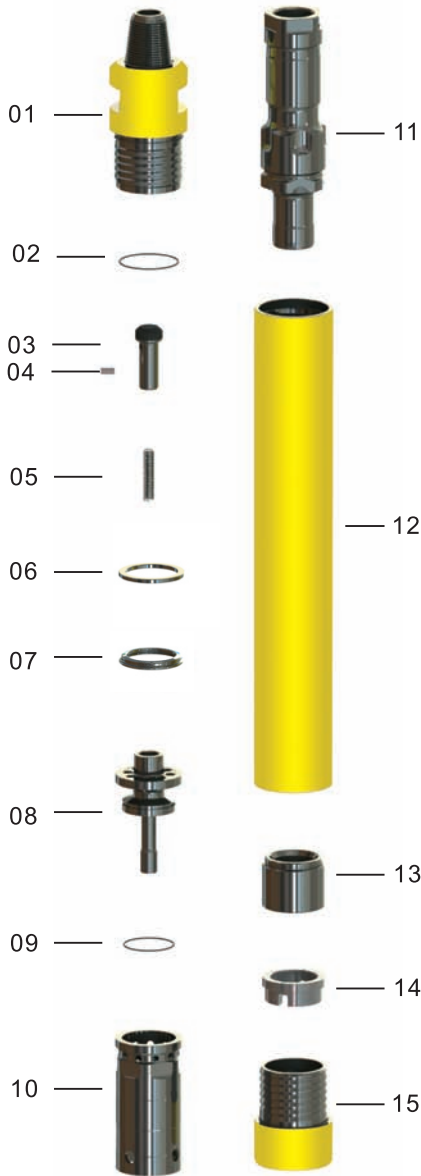
八花键 8 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
106	144	1188		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ152-Φ254	8-35	7.5	16	24

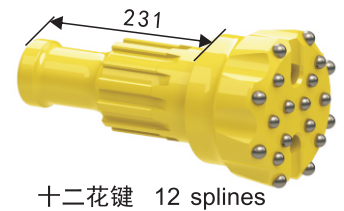
无尾管高压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)

旋风快冲TND[®]-M60



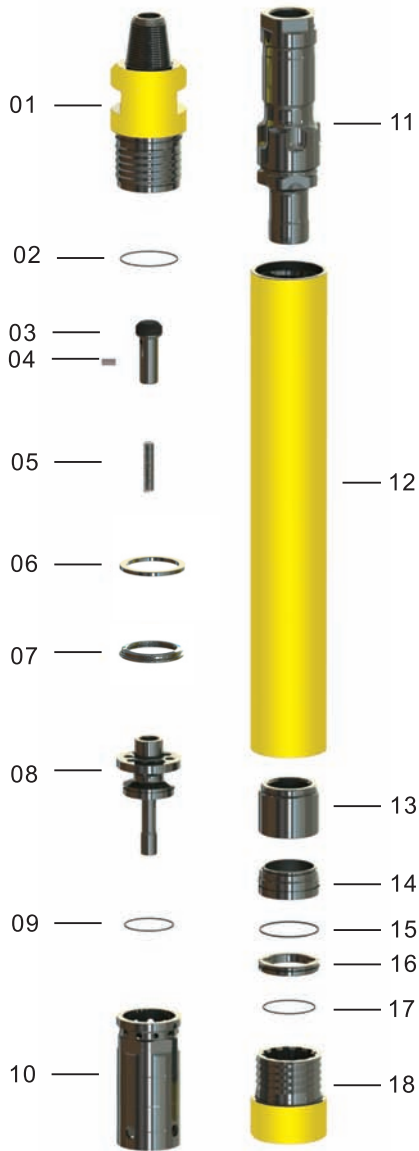
部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3 $\frac{1}{2}$ "API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6N
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	24.12	TND-HS-6N
12 外套管 Piston Case	32.57	TND-WTG-M60-A *
	31.90	TND-WTG-M60
13 导向套 Guide Sleeve	3.0	TND-DXT-M60
14 卡环 Bit Retainer Ring	0.84	TND-KH-M60
15 前接头 Driver Sub	8.94	TND-QJT-M60-A *
	7.55	TND-QJT-M60
密封件 Seal Kit	0.02	SK-M60
02 × 1		
09 × 1		
易耗件 Consumable	63.67	CSB-M60
01 × 1 密封件 Seal Kit		
12 × 1		
15 × 1		
钻头尾柄 Bit shank Mission60		
钻头直径 Bit dia 155;159;165;178;190;203		



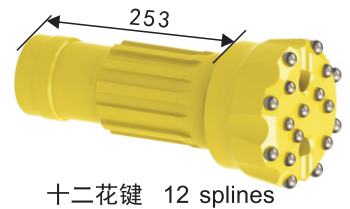
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
105	144	1108		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ152-Φ254	8-35	7.5	16	24

“*”表示前接头为单头螺纹 (“*” The Driver Sub thread is single-start)

旋风快冲TND®-QL60N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:3 $\frac{1}{2}$ "API REG	22.14	TND-HJT-6
02 O型圈 O-Ring	0.01	O-HJT-6
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 钢垫圈 Steel Washer	0.28	TND-DQ-6
07 碟簧 Disc Spring	0.35	TND-DH-6
08 配气杆 Rigid Valve	3.52	TND-PQG-6N
09 O型圈 O-Ring	0.01	O-PQG-6
10 内缸 Internal Cylinder	4.45	TND-NG-6
11 活塞 Piston	24.12	TND-HS-6N
12 外套管 Piston Case	33.42	TND-WTG-QL60N
13 导向套 Guide Sleeve	2.92	TND-DXT-QL60N/360N
14 保持套 Retainer Sleeve	1.20	TND-BCT-QL60
15 O型圈 O-Ring	0.01	O-BCT-6
16 卡环 Bit Retainer Ring	0.58	TND-KH-QL60
17 O型圈 O-Ring	0.01	O-KH-6
18 前接头 Driver Sub	7.27	TND-QJT-QL60
密封件 Seal Kit	0.04	SK-QL60N
02 × 1 15 × 1		
09 × 1 17 × 1		
易耗件 Consumable	62.87	CSB-QL60N
01 × 1 18 × 1		
12 × 1 密封件 Seal Kit		
钻头尾柄 Bit shank QL60N		
钻头直径 Bit dia 155;159;165;178;190;203		



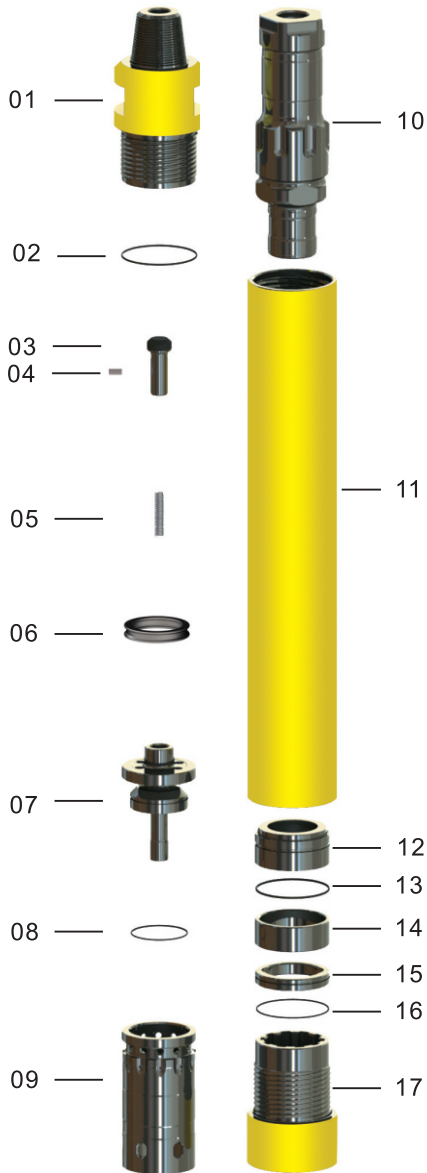
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
108	144	1132		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ152-Φ254	8-35	7.5	16	24

无尾管高压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)



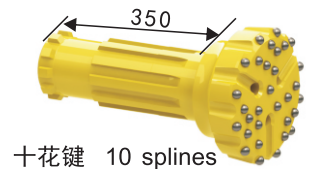
旋风快冲TND®-380N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4½"API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 配气杆 Rigid Valve	8.15	TND-PQG-6N
08 O型圈 O-Ring	0.01	O-PQG-8
09 内缸 Internal Cylinder	7.3	TND-NG-8
10 活塞 Piston	45.72	TND-HS-8N
11 外套管 Piston Case	64.97	TND-WTG-8N
12 导向套 Guide Sleeve	4.2	TND-DXT-8N
13 O型圈 O-Ring	0.01	O-DXT-380
14 定位套 Locating Sleeve	1.88	TND-DWT-380N
15 卡环 Bit Retainer Ring	1.52	TND-KH-380
16 O型圈 O-Ring	0.01	O-KH-380
17 前接头 Driver Sub	18.21	TND-QJT-380
密封件 Seal Kit	0.04	SK-380N
02 × 1 13 × 1		
08 × 1 16 × 1		
易耗件 Consumable	123.7	CSB-380N
01 × 1 17 × 1		
11 × 1 密封件 Seal Kit		

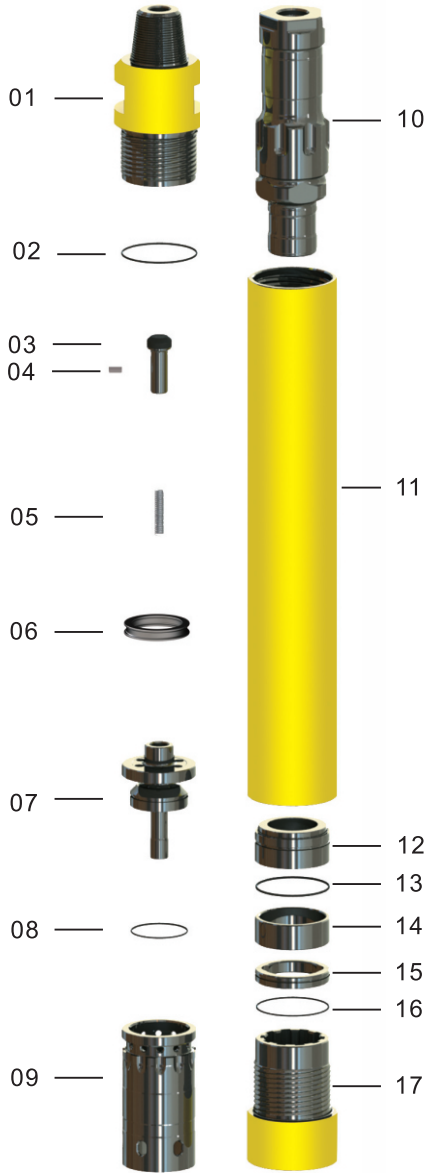
钻头尾柄 Bit shank
380N

钻头直径 Bit dia
194;203;216;219;222;254;270;305



重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
195	182	1317		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m3/min		
mm	bar	10bar	18bar	24bar
Φ194-Φ305	8-35	10	24	33

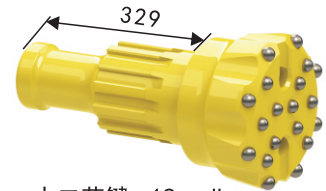
旋风快冲TND[®]-M80



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4½"API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 配气杆 Rigid Valve	8.15	TND-PQG-8
08 O型圈 O-Ring	0.01	O-PQG-8
09 内缸 Internal Cylinder	7.3	TND-NG-8
10 活塞 Piston	45.72	TND-HS-8N
11 外套管 Piston Case	64.97	TND-WTG-8N
12 导向套 Guide Sleeve	4.20	TND-DXT-8N
13 O型圈 O-Ring	0.01	O-DXT-M80
14 定位套 Locating Sleeve	2.62	TND-DWT-M80
15 卡环 Bit Retainer Ring	2.22	TND-KH-M80
16 O型圈 O-Ring	0.01	O-KH-M80
17 前接头 Driver Sub	16.20	TND-QJT-M80
密封件 Seal Kit	0.04	SK-M80
02 × 1 13 × 1		
08 × 1 16 × 1		
易耗件 Consumable	121.69	CSB-M80
01 × 1 17 × 1		
11 × 1 密封件 Seal Kit		

钻头尾柄 Bit shank
Mission80

钻头直径 Bit dia
194;203;216;219



十二花键 12 splines

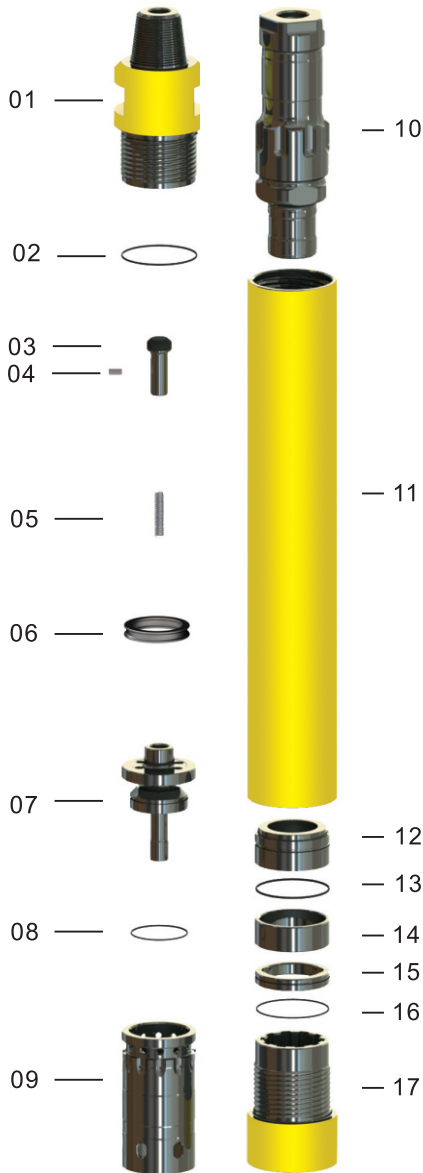
重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
193	182	1297		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ194-Φ305	8-35	10	24	33

无尾管高气压潜孔冲击器

High Air Pressure DTH Hammers(without foot valve)



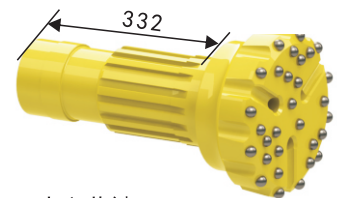
旋风快冲TND®-QL80N



部件Replacement Parts	单重Weight(kg)	件号Part No.
01 后接头 Top Sub:4 $\frac{1}{2}$ "API REG	40.48	TND-HJT-8
02 O型圈 O-Ring	0.01	O-HJT-8
03 逆止阀 Check Valve Dart	0.8	TND-NZF-8/6
04 调气塞 Choke Blank (备选) (Optional)	0.01	TND-TQS-8/6
05 弹簧 Spring	0.05	TH-8/6
06 抗震圈 Steel Washer	1.13	TND-KZQ-8
07 配气杆 Rigid Valve	8.15	TND-PQG-8
08 O型圈 O-Ring	0.01	O-PQG-8
09 内缸 Internal Cylinder	7.3	TND-NG-8
10 活塞 Piston	45.72	TND-HS-8N
11 外套管 Piston Case	64.97	TND-WTG-8N
12 导向套 Guide Sleeve	4.20	TND-DXT-8N
13 O型圈 O-Ring	0.01	O-DXT-QL80N
14 保持套 Retainer Sleeve	4.68	TND-BCT-QL80N
15 卡环 Bit Retainer Ring	1.45	TND-KH-QL80
16 O型圈 O-Ring	0.01	O-KH-QL80
17 前接头 Driver Sub	13.13	TND-QJT-QL80
密封件 Seal Kit	0.05	SK-QL80
02 × 1 13 × 1		
08 × 1 16 × 1		
易耗件 Consumable	120.1	CSB-QL80
01 × 1 17 × 1		
11 × 1 密封件 Seal Kit		

钻头尾柄 Bit shank
QL80N

钻头直径 Bit dia
194;203;216;219;222;254;270;305



十六花键 16 splines

重量Weight (kg)	外径Outside diameter (mm)	冲击器有效长度Hammer length without bit (mm)		
193.5	182	1300		
钻孔范围Hole Range	适用气压Work Pressure	耗气量Air consumption, m ³ /min		
mm	bar	10bar	18bar	24bar
Φ194-Φ305	8-35	10	24	33





宜昌市五环钻机具有限责任公司

地址：湖北省宜昌市伍家岗工业园
邮编：443000
电话：0717-6343890
传真：0717-6262008
邮箱：info@wookechina.com
网址：www.wookechina.com

WOOKE ROCK DRILL EQUIPMENT CO.,LTD

ADD:Wujiagang Industrial Zone,Yichang,Hubei,China
Tel:+86-717-6343815 / 6262131
Fax:+86-717-6262118
E-mail:info@wooke-intl.com
MSN:wooke-intl@hotmail.com
Http://www.wooke-intl.com