ND/QL Valveless Series DTH Hammer

ND/QL 无尾管系列冲击器



所配钻头无尼龙管的高风压潜孔冲击器是我公司自行设计的无阀高压冲击器，是目前世界上先进的冲击器之一。

It is a kind of high air pressure DTH hammer for ND25A bit without foot valve,which newly designed in our company. It is one of the most advanced DTH hammers in the world so far.

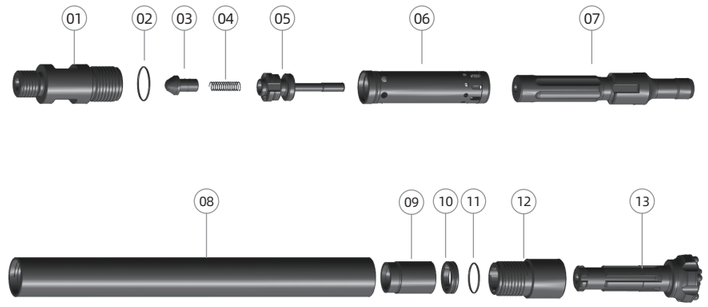
其主要特点如下：

01 钻头不需要尼龙管，因而省去了尼龙管断裂、破损和热胀冷缩而硬气的麻烦。
02 冲击器能耗低，冲击频率高，钻进速度比同类型带尼龙管冲击器快15%-30%。
03 所用部件少，结构简单。维修保养简单，费用低。
04 内部零件均硬化处理。工作寿命长，故障少。
05 接头和卡钎套采用螺纹与外缸联接，拆卸容易。

It has following advantages

01 Avoid the problem happens on foot valve. Fracture,expansion and contraction.
02 Lower air comsumption and higher impact frequency. 15-30% higher drilling efficiency than the bit with foot valve.
03 Simpler structure and less spare parts, makes easier & cheaper maintenance.
04 Heat-hardened spare parts,makes longer serving life and less problem.
05 Thread connection for top sub and drive chuck,makes easier disassembly.

ND25A



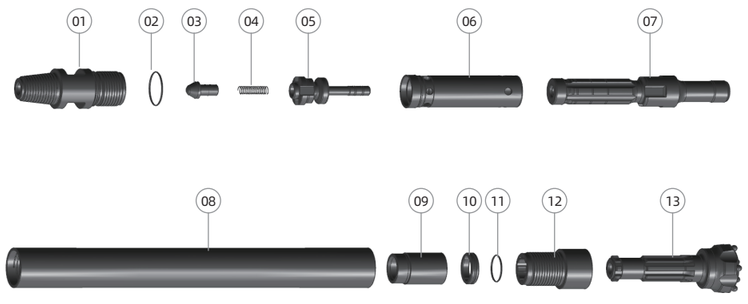
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	3.5 Kg	01-ND25A-01	09	衬套 Guided Sleeve	0.7 Kg	01-ND25A-09
02	O形圈 "O"Ring	0.01 Kg	01-ND25A-02	10	卡环 Retainer Ring	0.1 Kg	01-ND25A-10
03	逆止阀 Check Valve	0.13 Kg	01-ND25A-03	11	O形圈 "O"Ring	0.01 Kg	01-ND25A-11
04	弹簧 Spring	0.02 Kg	01-ND25A-04	12	卡钎套 Drive Chuck	1.5 Kg	01-ND25A-12
05	配气座 Valve Seat	0.56 Kg	01-ND25A-05	13	钻头 Drill Bit		01-ND25A-13
06	内缸 Inner Cylinder	1.1 Kg	01-ND25A-06				
07	活塞 Piston	3.8 Kg	01-ND25A-07				
08	外缸 Piston Case	4.5 Kg	01-ND25A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
872mm	16Kg	¢71mm	T48X10X1.5	ND25A	¢76-¢90mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.5Mpa
1.0-1.7 Mpa	30-50 r/min	3m³/min	4.5m³/min

ND35A



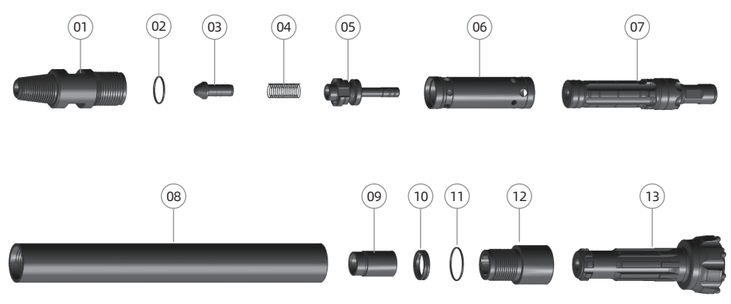
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	4.5 Kg	01-ND35A-01	09	衬套 Guided Sleeve	0.9 Kg	01-ND35A-09
02	O形圈 "O"Ring	0.01 Kg	01-ND35A-02	10	卡环 Retainer Ring	0.15 Kg	01-ND35A-10
03	逆止阀 Check Valve	0.13 Kg	01-ND35A-03	11	O形圈 "O"Ring	0.01 Kg	01-ND35A-11
04	弹簧 Spring	0.02 Kg	01-ND35A-04	12	卡钎套 Drive Chuck	1.9 Kg	01-ND35A-12
05	配气座 Valve Seat	0.76 Kg	01-ND35A-05	13	钻头 Drill Bit		01-ND35A-13
06	内缸 Inner Cylinder	1.45 Kg	01-ND35A-06				
07	活塞 Piston	4.8 Kg	01-ND35A-07				
08	外缸 Piston Case	9.5 Kg	01-ND35A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
886mm	24.2Kg	¢82mm	API2 3/8"REG	ND35A	¢90-¢115mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.5Mpa
1.0-1.7 Mpa	30-50 r/min	4m³/min	6.5m³/min

ND45A



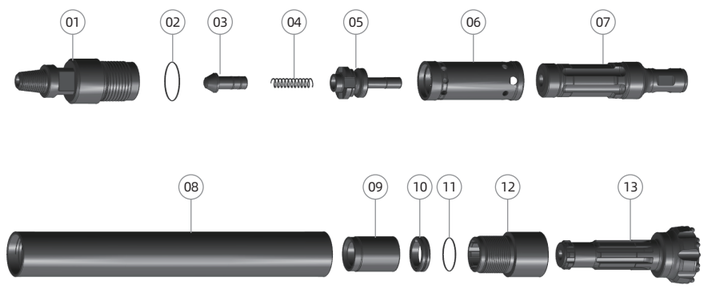
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	8.1 Kg	01-ND45A-01	09	衬套 Guided Sleeve	1 Kg	01-ND45A-09
02	O形圈 "O"Ring	0.01 Kg	01-ND45A-02	10	卡环 Retainer Ring	0.2 Kg	01-ND45A-10
03	逆止阀 Check Valve	0.3 Kg	01-ND45A-03	11	O形圈 "O"Ring	0.01 Kg	01-ND45A-11
04	弹簧 Spring	0.04 Kg	01-ND45A-04	12	卡钎套 Drive Chuck	3.6 Kg	01-ND45A-12
05	配气座 Valve Seat	1.5 Kg	01-ND45A-05	13	钻头 Drill Bit		01-ND45A-13
06	内缸 Inner Cylinder	2.1 Kg	01-ND45A-06				
07	活塞 Piston	8.4 Kg	01-ND45A-07				
08	外缸 Piston Case	15 Kg	01-ND45A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
986mm	40.5Kg	¢99mm	API2 3/8"REG	ND45A	¢110-¢135mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.8Mpa
1.0-2.2 Mpa	30-60 r/min	5m³/min	9m³/min

ND55A



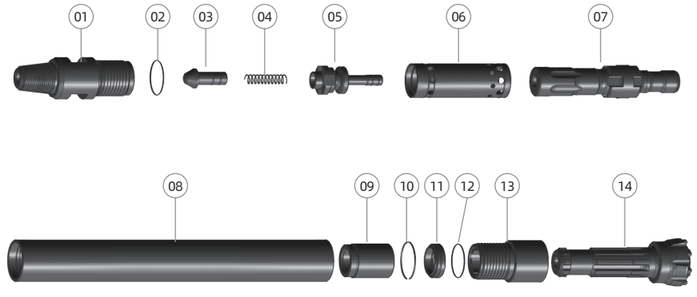
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	14 Kg	01-ND55A-01	09	衬套 Guided Sleeve	2.64 Kg	01-ND55A-09
02	O形圈 "O"Ring	0.01 Kg	01-ND55A-02	10	卡环 Retainer Ring	0.5 Kg	01-ND55A-10
03	逆止阀 Check Valve	0.6 Kg	01-ND55A-03	11	O形圈 "O"Ring	0.01 Kg	01-ND55A-11
04	弹簧 Spring	0.06 Kg	01-ND55A-04	12	卡钎套 Drive Chuck	7 Kg	01-ND55A-12
05	配气座 Valve Seat	2.15 Kg	01-ND55A-05	13	钻头 Drill Bit		01-ND55A-13
06	内缸 Inner Cylinder	3.3 Kg	01-ND55A-06				
07	活塞 Piston	15.5 Kg	01-ND55A-07				
08	外缸 Piston Case	24.2 Kg	01-ND55A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1122mm	70Kg	¢126mm	API2 3/8"REG	ND55A	¢136- ¢155mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.5Mpa
1.0-2.5 Mpa	30-60 r/min	7m³/min	13m³/min

ND55S



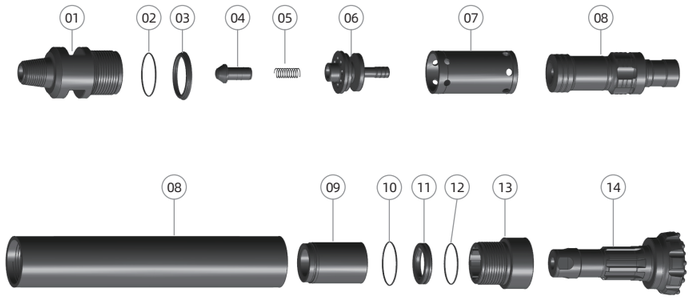
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	13.5 Kg	01-ND55S-01	09	衬套 Guided Sleeve	2.3 Kg	01-ND55S-09
02	O形圈 "O"Ring	0.01 Kg	01-ND55S-02	10	挡圈 Check Ring	0.02 Kg	01-ND55S-10
03	逆止阀 Check Valve	0.6 Kg	01-ND55S-03	11	卡环 Retainer Ring	0.5 Kg	01-ND55S-11
04	弹簧 Spring	0.06 Kg	01-ND55S-04	12	O形圈 "O"Ring	0.01 Kg	01-ND55S-12
05	配气座 Valve Seat	1.85 Kg	01-ND55S-05	13	卡钎套 Drive Chuck	5.8 Kg	01-ND55S-13
06	内缸 Inner Cylinder	3.1 Kg	01-ND55S-06	14	钻头 Drill Bit		01-ND55S-13
07	活塞 Piston	11.8 Kg	01-ND55S-07				
08	外缸 Piston Case	22.5 Kg	01-ND55S-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1119mm	62Kg	¢117mm	API2 3/8"REG	ND55S	¢127- ¢145mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.5Mpa
1.0-2.5 Mpa	30-60 r/min	6m³/min	12m³/min

ND65A
（SP681）



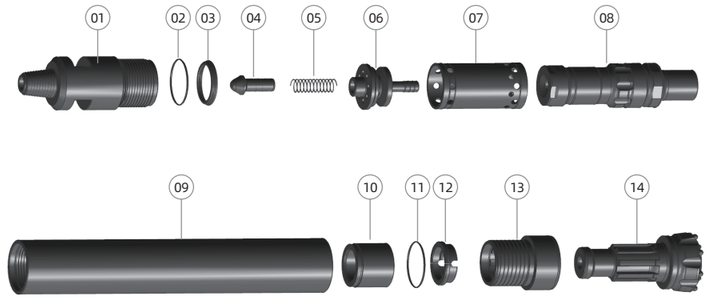
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	21.5 Kg	01-SP681-01	09	外缸 Piston Case	36.5 kg	01-SP681-09
02	O形圈 "O"Ring	0.01 Kg	01-SP681-02	10	衬套 Guided Sleeve	6.3 kg	01-SP681-10
03	碟簧 Disc Spring	0.34 Kg	01-SP681-03	11	挡圈 Check Ring	0.02 kg	01-SP681-11
04	逆止阀 Check Valve	0.56 Kg	01-SP681-04	12	卡环 Retainer Ring	1 kg	01-SP681-12
05	弹簧 Spring	0.05 Kg	01-SP681-05	13	O形圈 "O"Ring	0.01 Kg	01-SP681-13
06	配气座 Valve Seat	4.3 Kg	01-SP681-06	14	卡钎套 Drive Chuck	8.2 kg	01-SP681-14
07	内缸 Inner Cylinder	4.2 Kg	01-SP681-07	15	钻头 Drill Bit		01-SP681-15
08	活塞 Piston	23 Kg	01-SP681-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1210mm	106Kg	¢148mm	API3 1/2"REG	ND65A	¢158-¢203mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.2-2.5 Mpa	30-60 r/min	16m³/min	23m³/min

ND75A
（SP781）



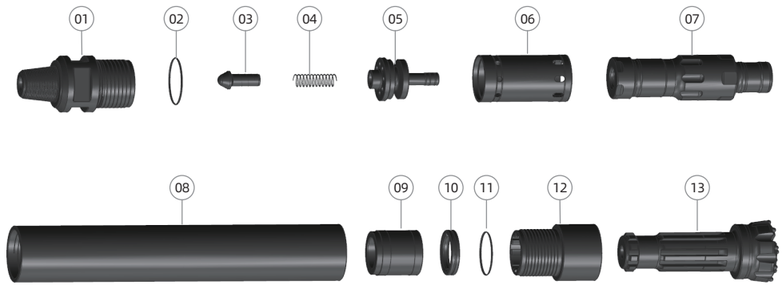
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	31.2 Kg	01-SP781-01	09	外缸 Piston Case	47 kg	01-SP781-09
02	O形圈 "O"Ring	0.01 Kg	01-SP781-02	10	衬套 Guided Sleeve	5.65 kg	01-SP781-10
03	碟簧 Disc Spring	0.5 Kg	01-SP781-03	11	挡圈 Check Ring	0.02 kg	01-SP781-11
04	逆止阀 Check Valve	0.65 Kg	01-SP781-04	12	卡环 Retainer Ring	1.3 kg	01-SP781-12
05	弹簧 Spring	0.09 Kg	01-SP781-05	13	卡钎套 Drive Chuck	11.5 kg	01-SP781-13
06	配气座 Valve Seat	5.5 Kg	01-SP781-06	14	钻头 Drill Bit		01-SP781-14
07	内缸 Inner Cylinder	5.5 Kg	01-SP781-07				
08	活塞 Piston	34.5 Kg	01-SP781-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1225mm	143.5Kg	¢165mm	API3 1/2"REG	ND75A	¢178-¢216mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.5-2.8 Mpa	30-60 r/min	21m³/min	28m³/min

ND85A
（SP880）



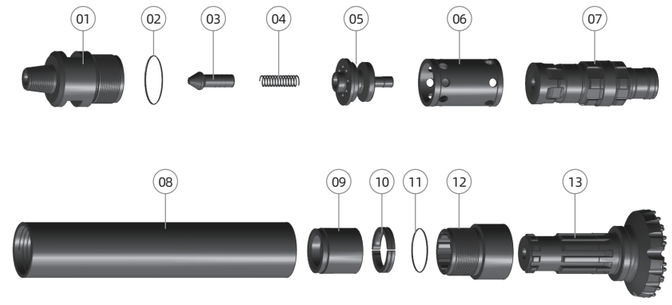
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	38.5 Kg	01-SP880-01	09	衬套 Guided Sleeve	6.1 kg	01-SP880-09
02	O形圈 "O"Ring	0.02 Kg	01-SP880-02	10	卡环 Retainer Ring	1.2 kg	01-SP880-10
03	逆止阀 Check Valve	0.65 Kg	01-SP880-03	11	O形圈 "O"Ring	0.01 Kg	01-SP880-11
04	弹簧 Spring	0.1 Kg	01-SP880-04	12	卡钎套 Drive Chuck	19.3 kg	01-SP880-12
05	配气座 Valve Seat	6.2 Kg	01-SP880-05	13	钻头 Drill Bit		01-SP880-13
06	内缸 Inner Cylinder	7.4 Kg	01-SP880-06				
07	活塞 Piston	44.5 Kg	01-SP880-07				
08	外缸 Piston Case	69.5 Kg	01-SP880-08				

技术参数 / Technical parameters

总长（不含钻头） Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1354mm	193Kg	¢ 185mm	API4 1/2"REG	ND85A	¢ 198- ¢ 254mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.5-3.3 Mpa	30-60 r/min	25m³/min	34m³/min

N100A
（SP1081）



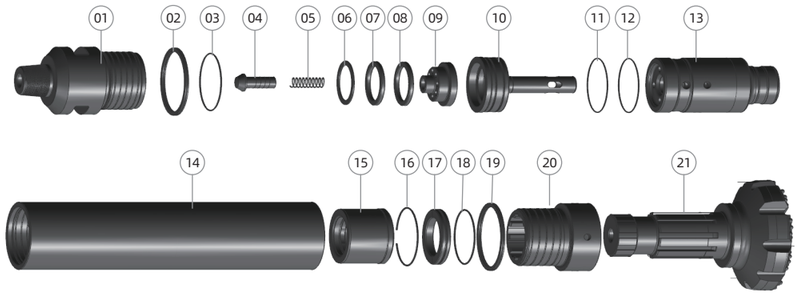
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	62 Kg	01-SP1081-01	09	衬套 Guided Sleeve	11.5 kg	01-SP1081-09
02	O形圈 "O"Ring	0.02 Kg	01-SP1081-02	10	卡环 Retainer Ring	2.2 kg	01-SP1081-10
03	逆止阀 Check Valve	1.5 Kg	01-SP1081-03	11	O形圈 "O"Ring	0.02 Kg	01-SP1081-11
04	弹簧 Spring	0.25 Kg	01-SP1081-04	12	卡钎套 Drive Chuck	26 kg	01-SP1081-12
05	配气座 Valve Seat	13.5 Kg	01-SP1081-05	13	钻头 Drill Bit		01-SP1081-13
06	内缸 Inner Cylinder	13 Kg	01-SP1081-06				
07	活塞 Piston	71.5 Kg	01-SP1081-07				
08	外缸 Piston Case	98 Kg	01-SP1081-08				

技术参数 / Technical parameters

总长（不含钻头） Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1475mm	299.5Kg	¢ 225mm	API5 1/2"REG	NUMA100A	¢ 254- ¢ 311mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.5-3.3 Mpa	30-60 r/min	36m³/min	58m³/min

N125A



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头+A10:A19 Sub	163.5 Kg	01-N125A-01	11	O形圈 "O"Ring	0.03 Kg	01-N125A-11
02	垫圈 Washer	1.5 Kg	01-N125A-02	12	O形圈 "O"Ring	0.03 Kg	01-N125A-12
03	O形圈 "O"Ring	0.03 Kg	01-N125A-03	13	活塞 Piston	137.7Kg	01-N125A-13
04	逆止阀 Check Valve	1.5 Kg	01-N125A-04	14	外缸 Piston Case	247.5Kg	01-N125A-14
05	弹簧 Spring	0.2 Kg	01-N125A-05	15	衬套 Cuided Sleeve	29.7 Kg	01-N125A-15
06	垫片 Adjuster Shim	0.7 Kg	01-N125A-06	16	挡圈 Check Ring	0.2 Kg	01-N125A-16
07	橡胶垫rubber Buffer	0.3 Kg	01-N125A-07	17	卡环 Retainer Ring	7 Kg	01-N125A-17
08	橡胶垫rubber Buffer	0.3 Kg	01-N125A-08	18	O形圈 "O"Ring	0.3 Kg	01-N125A-18
09	配气座 Valve Seat	11.8 Kg	01-N125A-09	19	垫圈 Washer	1.5 Kg	01-N125A-19
10	配气杆 Rigid Valve	27.4 Kg	01-N125A-10	20	卡钎套 Drive Chuck	67.2 Kg	01-N125A-20

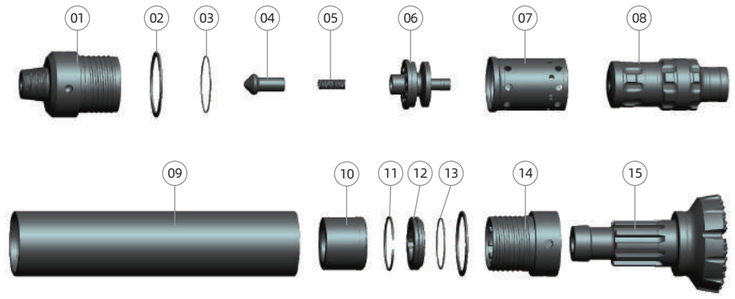
技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1785mm	698.5Kg	¢ 305mm	API6 5/8"REG	NUMA125A	¢ 330- ¢ 400mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.5-3.3 Mpa	25～45 r/min	46m³/min	58m³/min

ND140A

（SP330）



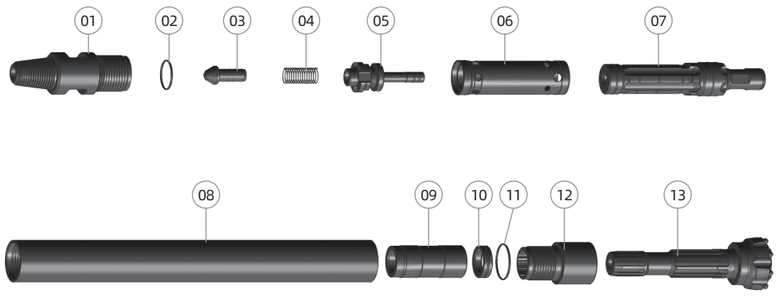
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	160 Kg	01-SP330-01	09	外缸 Piston Case	317 Kg	01-SP330-09
02	垫片 Adjuster Shim	1.5 Kg	01-SP330-02	10	衬套 Guided Sleeve	43.5 Kg	01-SP330-10
03	O形圈 "O"Ring	0.05 Kg	01-SP330-03	11	挡圈 Check Ring	0.5 Kg	01-SP330-11
04	逆止阀 Check Valve	3.4 Kg	01-SP330-04	12	卡环 Retainer Ring	12.4 Kg	01-SP330-12
05	弹簧 Spring	0.4 Kg	01-SP330-05	13	O形圈 "O"Ring	0.03 Kg	01-SP330-13
06	配气座 Valve Seat	31.5 Kg	01-SP330-06	14	垫片 Adjuster Shim	1.9 Kg	01-SP330-14
07	内缸 Inner Cylinder	28.7 Kg	01-SP330-07	15	卡钎套 Drive Chuck	77.4 Kg	01-SP330-15
08	活塞 Piston	173 Kg	01-SP330-08	16	钻头 Drill Bit		01-SP330-16

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1861mm	851Kg	¢ 332mm	API 6 5/8 REG API 7 5/8 REG	ND330	¢ 350- ¢ 550mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.5-3.3 Mpa	30-55 r/min	53m³/min	78m³/min

QL40A



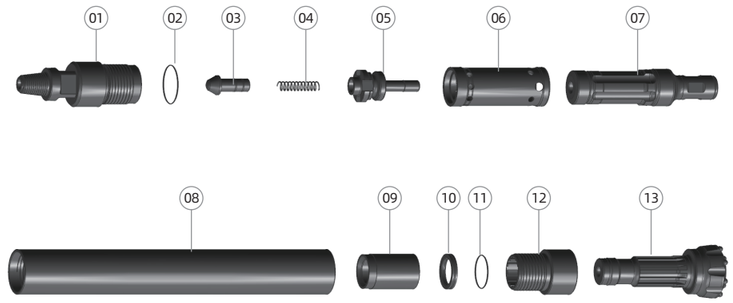
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Tup Sub	8.1 Kg	01-Ql40A-01	09	衬套 Guided Sleeve	2.3 Kg	01-QL40A-09
02	O形圈 "O"Ring	0.01 Kg	01-QL40A-02	10	卡环 Retainer Ring	0.27 Kg	01-QL40A-10
03	逆止阀 Check Valve	0.3 Kg	01-QL40A-03	11	O形圈 "O"Ring	0.01 Kg	01-QL40A-11
04	弹簧 Spring	0.04 Kg	01-QL40A-04	12	卡钎套 Driver Chuck	3.3 Kg	01-QL40A-12
05	配气座 Valve Seat	1.5 Kg	01-ND45A-05	13	钻头 Drill Bit		01-QL40A-13
06	内缸 Inner Cylinder	2.1 Kg	01-QL40A-06				
07	活塞 Piston	8.4 Kg	01-QL40A-07				
08	外缸 Piston Case	16.4 Kg	01-QL40A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1057mm	42.7Kg	¢ 99mm	API2 3/8"REG	QL40A	¢ 110- ¢ 135mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.8Mpa
1.0-2.2 Mpa	30-60 r/min	5m³/min	9m³/min

QL50A



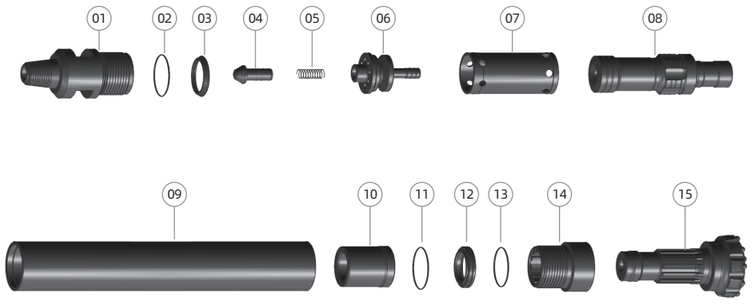
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	14 Kg	01-QL50A-01	09	衬套 Guided Sleeve	2.75 Kg	01-QL50A-09
02	O形圈 "O"Ring	0.01 Kg	01-QL50A-02	10	卡环 Retainer Ring	0.45 Kg	01-QL50A-10
03	逆止阀 Check Valve	0.6 Kg	01-QL50A-03	11	O形圈 "O"Ring	0.01 Kg	01-QL50A-11
04	弹簧 Spring	0.06 Kg	01-QL50A-04	12	卡钎套 Drive Chuck	5.4 Kg	01-QL50A-12
05	配气座 Valve Seat	2.15 Kg	01-QL50A-05	13	钻头 Drill Bit		01-QL50A-13
06	内缸 Inner Cylinder	3.3 Kg	01-QL50A-06				
07	活塞 Piston	15.5 Kg	01-QL50A-07				
08	外缸 Piston Case	24.2 Kg	01-QL50A-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1102mm	68.5Kg	¢ 126mm	API2 3/8"REG	QL50A	¢ 136- ¢ 155mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.0Mpa	1.8Mpa
1.0-2.5 Mpa	30-60 r/min	7m³/min	13m³/min

QL680



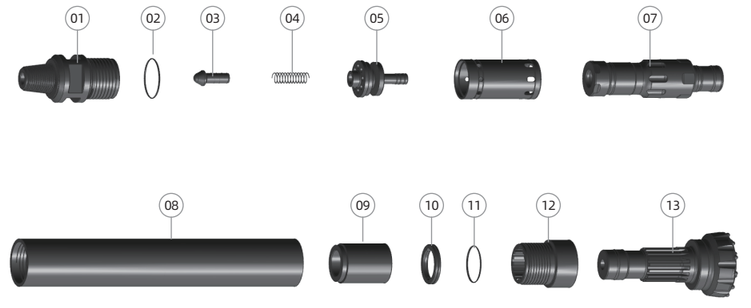
Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	21.5 Kg	01-QL680-01	09	外缸 Piston Case	34.3 Kg	01-QL680-09
02	O形圈 "O"Ring	0.01 Kg	01-QL680-02	10	衬套 Guided Sleeve	5.4 Kg	01-QL680-10
03	碟簧 Disc Spring	0.34 Kg	01-QL680-03	11	挡圈 Check Ring	0.02 Kg	01-QL680-11
04	逆止阀 Check Valve	0.56 Kg	01-QL680-04	12	卡环 Retainer Ring	0.92 Kg	01-QL680-12
05	弹簧 Spring	0.05 Kg	01-QL680-05	13	O形圈 "O"Ring	0.01 Kg	01-QL680-13
06	配气座 Valve Seat	4.3 Kg	01-QL680-06	14	卡钎套 Drive Chuck	7.5 Kg	01-QL680-14
07	内缸 Inner Cylinder	4.2 Kg	01-QL680-07	15	钻头 Drill Bit		01-QL680-15
08	活塞 Piston	23 Kg	01-QL680-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1155mm	102Kg	¢148mm	API3 1/2"REG	QL60A	¢158-¢203mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
		1.8Mpa	2.4Mpa
1.2-2.7 Mpa	30～60 r/min	16m³/min	23m³/min

QL880



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	38.5 Kg	01-QL880-01	09	衬套 Guided Sleeve	10.5 kg	01-QL880-09
02	O形圈 "O"Ring	0.02 Kg	01-QL880-02	10	卡环 Retainer Ring	1.2 kg	01-QL880-10
03	逆止阀 Check Valve	0.65 Kg	01-QL880-03	11	O形圈 "O"Ring	0.01 Kg	01-QL880-11
04	弹簧 Spring	0.1 Kg	01-QL880-04	12	卡钎套 Drive Chuck	14.5 kg	01-QL880-12
05	配气座 Valve Seat	6.2 Kg	01-QL880-05	13	钻头 Drill Bit		01-QL880-13
06	内缸 Inner Cylinder	7.4 Kg	01-QL880-06				
07	活塞 Piston	44.5 Kg	01-QL880-07				
08	外缸 Piston Case	64.5 Kg	01-QL880-08				

技术参数 / Technical parameters

总长（不含钻头）Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1335mm	188Kg	¢185mm	API4 1/2"REG	QL80A	¢198-¢254mm

适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption	
			2.4Mpa
1.5-3.3 Mpa	30～60 r/min	25m³/min	34m³/min