



***DALI HELP YOU
TO REMOVE VARIOUS
BLOCKAGES OF PIPELINES***

DALI Drain Cleaners



The Beijing New Asia Dali Machinery Co.,Ltd is a professional manufacturer of drain cleaners in China.

The DALI drain cleaner series are applicable to removal of various blockages of pipelines. The series adopt flexible shafts, the combination of high-speed rotating system and manual propelling or automatic feeding system to drive the drill to remove effectively various debris, greases, roots, wastes and chemical deposits etc. stuck on pipeline walls.

The DALI drain cleaner series, including hand, power type, automatic and pneumatic type, are the choice machines for maintaining and cleaning both indoor and outdoor pipelines. they are selling well both in China and others countries with superb quality and service.

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- Ideal for quick and safe removal of obstructions in the toilet.
- Specially designed to traverse tough traps.
- Vinyl guard protects damage to toilets

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1001	D-1	Φ9,5×0,9m	3/8"×3'	1.1
2.1002	D-3H	Φ12,7×0,9m	1/2"×3'	1.4



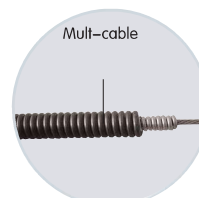
Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1003	D-2	Φ8×0,75m	5/16"×2 1/2'	0.9
2.1004	D-4	Φ8×1,25m	5/16"×4'	1.1



Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1005	D-3	Φ12,7×0,9m	1/2"×3'	1.7
2.1006	D-6	Φ12,7×1,8m	1/2"×6'	2.2
2.1007	D-3DH	Φ12,7×0,9m	1/2"×3'	1.7
2.1008	D-6DH	Φ12,7×1,8m	1/2"×6'	2.2



Specially designed to traverse tough traps.



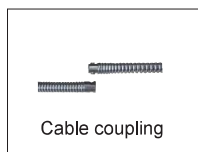
Three-tier composite cable
Anti-Kinking.



Basic Equipment:



Catalog No.	Type.	Spec.	Weight (kg)
2.1009	D-12	1 piece Φ12mm *1M super flexible soft shaft with bulb auger	1.33
		2 piece Φ12mm *1M soft shaft	
		1 piece quick connector	



• Optional configuration



NO: 2.1010 GQ-25S

GQ-25S

- Applicable for household small pipes of 50mm (2") in lavatories, bathrooms, kitchens, different types are provided to choose.
- Soft shafts of $\Phi 6\text{mm}$ ($1/4"$) and $\Phi 8\text{mm}$ ($5/16"$) are more suitable for removing pipe blockages in complex small diameter pipes like traps.
- Simple in structure, Easy-to-handle.

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1010-11	GQ-25S-1	$\Phi 6 \times 1.5\text{m}$	$1/4" \times 5'$	0.3
2.1010-12	GQ-25S-2	$\Phi 6 \times 3\text{m}$	$1/4" \times 10'$	0.5
2.1010-13	GQ-25S-3	$\Phi 6 \times 4.5\text{m}$	$1/4" \times 15'$	0.7
2.1010-22	GQ-25S-4	$\Phi 8 \times 3\text{m}$	$5/16" \times 10'$	0.8
2.1010-23	GQ-25S-5	$\Phi 8 \times 4.5\text{m}$	$5/16" \times 15'$	1.2
2.1010-24	GQ-25S-6	$\Phi 8 \times 6\text{m}$	$5/16" \times 20'$	1.6



NO: 2.1012 GQ-48S

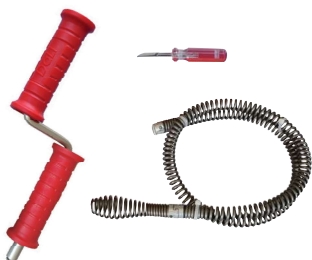
GQ-48S, D-48S

- Soft shafts are suitable for removing all kinds of complex indoor pipe blockages.
- Applicable for household small pipes of $\Phi 50\text{mm}$ (2") in lavatories, bathrooms and kitchens, different types are provided to choose.
- Soft shafts are suitable for removing all kinds of complex indoor pipe blockages.
- The crank handle is simple and flexible, and the soft shaft is easy to extend and retract.
- Simple in structure, Easy-to-handle. Release the locking screw, insert a soft shaft of certain length into the pipe, latch the lock and rotate the handle, and press it, repeated operation will easily remove the pipe blockages.



NO: 2.1016 D-48S

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1012-22	GQ-48S-1	$\Phi 8 \times 3\text{m}$	$5/16" \times 10'$	1.0
2.1012-23	GQ-48S-2	$\Phi 8 \times 4.5\text{m}$	$5/16" \times 15'$	1.4
2.1012-24	GQ-48S-3	$\Phi 8 \times 6\text{m}$	$5/16" \times 20'$	1.8
2.1016-22	D-48S-1	$\Phi 8 \times 3\text{m}$	$5/16" \times 10'$	1.28
2.1016-23	D-48S-2	$\Phi 8 \times 4.5\text{m}$	$5/16" \times 15'$	1.58



NO: 2.1017 D-3S

D-3S

- Applicable for household small pipes of $\Phi 32-75\text{mm}$ ($1 1/4"-3"$) in lavatories, bathrooms, kitchens, different types are provided to choose.
- Flexible soft shafts of $\Phi 16\text{mm}$ ($5/8"$) are more suitable for removing pipe blockages in complex small diameter pipes like traps.
- The soft shafts can be extended. Easy-to-handle.

Catalog No.	Type.	Description	Spec.		Weight (kg)
			mm × m	in. × ft	
2.1017-11	D-3s-16a	Hand+ flexible soft shaft + key	$\Phi 16 \times 2.3\text{m}$	$5/8" \times 7 1/2'$	2.0
2.1017-12	D-3s-16b	Hand+ soft shaft +cutter + key	$\Phi 16 \times 2.3\text{m}$	$5/8" \times 7 1/2'$	2.0
2.1017-13	D-3s-16c	Hand+ soft shaft +cutter + key	$\Phi 16 \times 4.6\text{m}$	$5/8" \times 15'$	3.1



NO: 2.1011 GQ-38S

GQ-38S

- Applicable for household small pipes of 50mm (2") in lavatories, bathrooms, kitchens, different types are provided to choose.
- Flexible soft shafts of $\Phi 6$ ($\frac{1}{4}$ ") mm are more suitable for removing pipe blockages in complex small diameter pipes like traps.
- Flexible soft shafts are put in ABS plastics drum, light and handy.
- Simple in structure, easy-to-handle. Unlock the lock, and insert a soft shaft of certain length into the pipe, latch the lock and rotate the handle, press the handle, and repeated operation will easily remove the pipe blockages.

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1011-13	GQ-38S-2	$\Phi 6 \times 4.5m$	$\frac{1}{4}'' \times 15'$	1.3
2.1011-14	GQ-38S-3	$\Phi 6 \times 6m$	$\frac{1}{4}'' \times 20'$	1.6

GQ-50S

- Applicable for household small pipes of $\Phi 20mm-75mm$ ($\frac{3}{4}''-3''$) in lavatories, bathrooms and kitchens, different types are provided to choose.
- Soft shafts are suitable for removing all kinds of complex indoor pipe blockages.
- Flexible soft shafts are put in large metal drum, to ensure cleaner and more convenient use.
- Simple in structure, easy-to-handle. Release the locking screw, insert a soft shaft of certain length into the pipe, latch the lock and rotate the handle, and press it, repeated operation will easily remove the pipe blockages.



NO: 2.1013 GQ-50S

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1013-23	GQ-50S-1	$\Phi 8 \times 4.5m$	$\frac{5}{16}'' \times 15'$	2.5
2.1013-24	GQ-50S-2	$\Phi 8 \times 6m$	$\frac{5}{16}'' \times 20'$	2.9
2.1013-33	GQ-50S-3	$\Phi 10 \times 4.5m$	$\frac{3}{8}'' \times 15'$	2.8
2.1013-34	GQ-50S-4	$\Phi 10 \times 6m$	$\frac{3}{8}'' \times 20'$	3.3





D-50SZ

- Unique design with power and manual, easy to connect with any drill.
- Applicable for household small pipes of $\Phi 20\text{mm}-75\text{mm}$ ($3/4"-3"$) in lavatories, bathrooms and kitchens, different types are provided to choose.
- Soft shafts are suitable for removing all kinds of complex indoor pipe blockages.
- Flexible soft shafts are put in large metal drum to ensure cleaner and more convenient use.
- Auto-Feed device feed and back the soft shaft.
- Simple in structure, easy-to-handle. Release the locking screw, insert a soft shaft of certain length into the pipe. latch the lock and rotate the handle, and press it, repeated operation will easily remove the pipe blockages.
- It can be driven by drills. Have a conversion device, remove the handle, the hexagon bolt into drills than tighten.



Specially designed connect with drill machine

Basic Equipment:

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1014-24	D-50SZ-1	$\Phi 8 \times 6\text{m}$	$5/16" \times 20'$	2.6
2.1014-25	D-50SZ-2	$\Phi 8 \times 7.6\text{m}$	$5/16" \times 25'$	3.2

NO: 2.1014 D-50SZ



D-60SZ

- Unique design with power and manual, easy to connect with any drill.
- Applicable for both indoor small pipes of $\Phi 20\text{mm}-75\text{mm}$ ($3/4"-3"$) in lavatories.
- The ABS plastics drum with high strength, light weight, large capacity. Soft shafts of $\Phi 8\text{mm}$ ($5/16"$) and $\Phi 10\text{mm}$ ($3/8"$) can be used.
- Entirely sealed structure, flexible soft shafts are put in drum, to ensure cleaner and more convenient use.
- Auto-Feed device feed and back the soft shaft.
- Simple in structure, easy-to-handle. Release the locking screw, insert a soft shaft of certain length into the pipe. latch the lock and rotate the handle, and press it, repeated operation will easily remove the pipe blockages.
- It can be driven by drills. Have a conversion device, remove the handle, the hexagon bolt into drills than tighten.



Basic Equipment:

Catalog No.	Type.	Spec.		Weight (kg)
		mm × m	in. × ft	
2.1015	D-60SZ	$\Phi 8 \times 10.7\text{M}$	$5/16" \times 35'$	4.1
2.1015-A	D-60SZ-1	$\Phi 10 \times 7.6\text{M}$	$3/8" \times 25'$	4.0

NO: 2.1015 D-60SZ



NO: 2.4013 D-10A



Super plus

NO: 2.4015 D-16A

D-10,D-10A,D-16,D-16A

- Force pump for use by plumbers and drain cleaning operatives. Quickly and easily removes blockages in drain, toilet pans, sinks, baths and waste pipes
- Four adaptors for use on different sewer lines.
- Flexible, In all directions adjustable handle, Optimal adaption to the cleaning job.
- Optimal sealed system and therefore the highest suction and pressure power with the adaptor sealing lip and main body

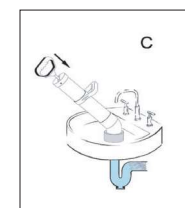
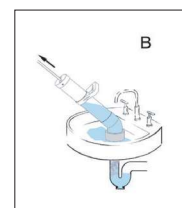
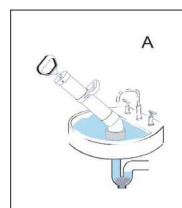
Basic Equipment:

Catalog No.	Type.	Description.	Weight(kg)
2.4012	D-10	Main machine Adaptor I Adaptor III	1.8
2.4013	D-10A	Main machine Adaptor I Adaptor II Adaptor III	2.2
2.4014	D-16	Main machine Adaptor II Adaptor III	2.38
2.4015	D-16A	Main machine Adaptor I Adaptor II Adaptor III	2.6



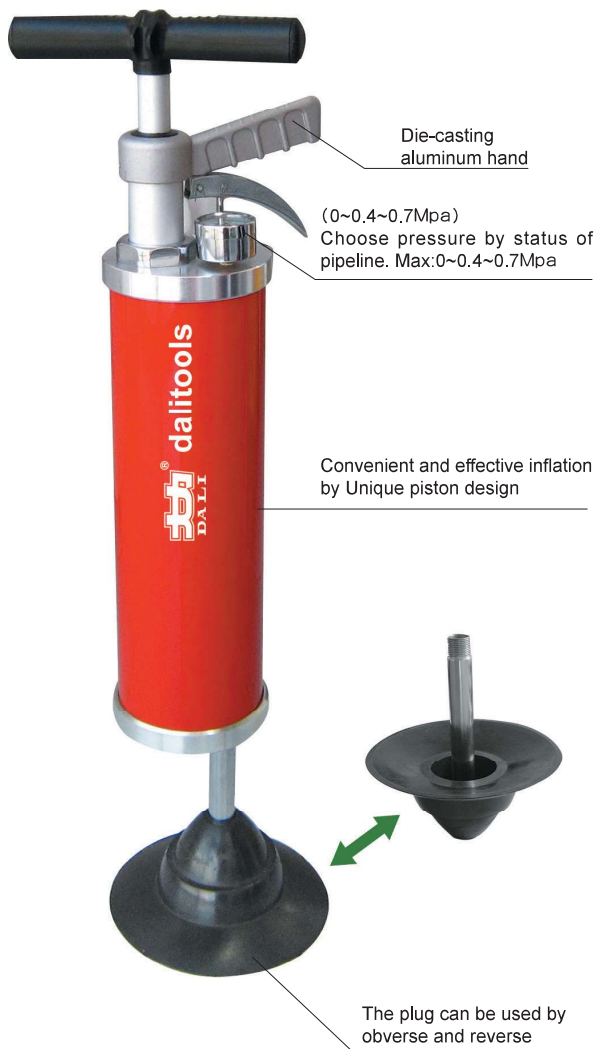
Three adaptors for use on different sewer lines.

Three colors for you choice



GQ-4

- Applicable for blockages in indoor facilities as in vegetable-rinsing basins, washing basins, kitchens, bathrooms and lavatories, and bathing facilities.
- Create a shock wave that strikes a clog at **0.7Mpa**. Air pump clears clogged drains powerfully, quickly, and safely.
- Easy and safe in operation. Inflate the pump with enough shock wave for the seriousness of the blockage, usually less than **0.7 Mpa**; press the seal piston on the pipe opening and release quickly, the sudden air pressure will remove the blockages in the pipe.
- Used to seal off drain openings. Rubber plugs both directions fit for different diameter and shapes.
- Using air release extension pipes will accommodate complex working environment.



Basic Equipment:

Catalog No.	Type.	Description.	Weight(kg)
2.4011	GQ-4	Main machine F-9-e Air release extension pipe F-9-f Adaptor F-9-f Connector	3.8



NO: 2.4011 GQ-4

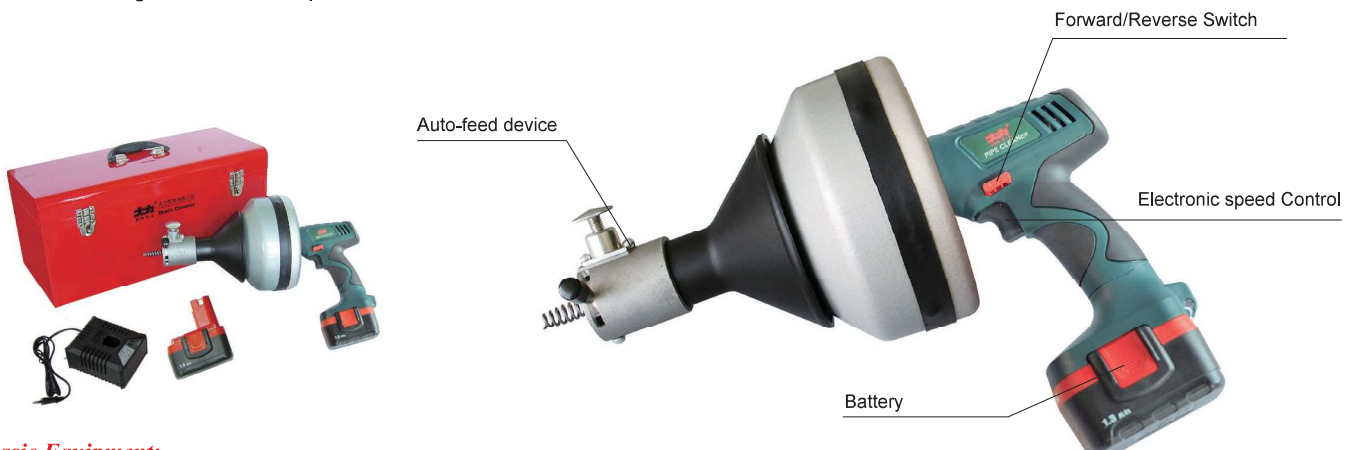


- 1 Connect the plug with the intensify plastic pipe by shape of nozzle. The plug can be used by obverse and reverse.
- 2 Push and press the handle up and down. Choose pressure by status of pipeline. 0~0.4~0.7Mpa
- 3 Push down the plug at the nozzle. Lift up the handle quickly. Put out shock wave gas and clean up the jam. Repeat operate.
- 4 If there are some jam on top of the nozzle or the pipeline strait, join the air release extension pipe with the plug. Hole the plug by both hands and put out gas quickly.
- 5 (warning) Pay attention to the manometer when operation. Figure should be lower than red caution line.



D-50B,D-50ZB,D-50ZB-1

- Applicable for both indoor and outdoor small pipes of $\Phi 20-65\text{mm}$ ($3/4''-2 1/2''$) in lavatories.
- Using $\Phi 8\text{mm}$ ($5/16''$) enhanced inner core flexible soft shafts, improve torque transmission, against twisting and winding.
- Entirely sealed structure, flexible soft shafts are put in large metal barrels, to ensure cleaner and more convenient use.
- To release or engage the cable by hand with a quick movement of D-50B the Grip Shield.
- To feed and back the cable just control D-50ZB Auto-feed device. Max Feed speed is 5m/Min.
- Shift with stepless 0-550 rpm speed adjustable, for adeptly passage through curved pipes.
- 14.4V ,Low speed high power charged drill, the maximum torque is 20N.m.
- Includes two pieces 1.3Ah capacious Ni-Cd battery, a charger
- Rated voltage 220V, 110V optional.



Basic Equipment:

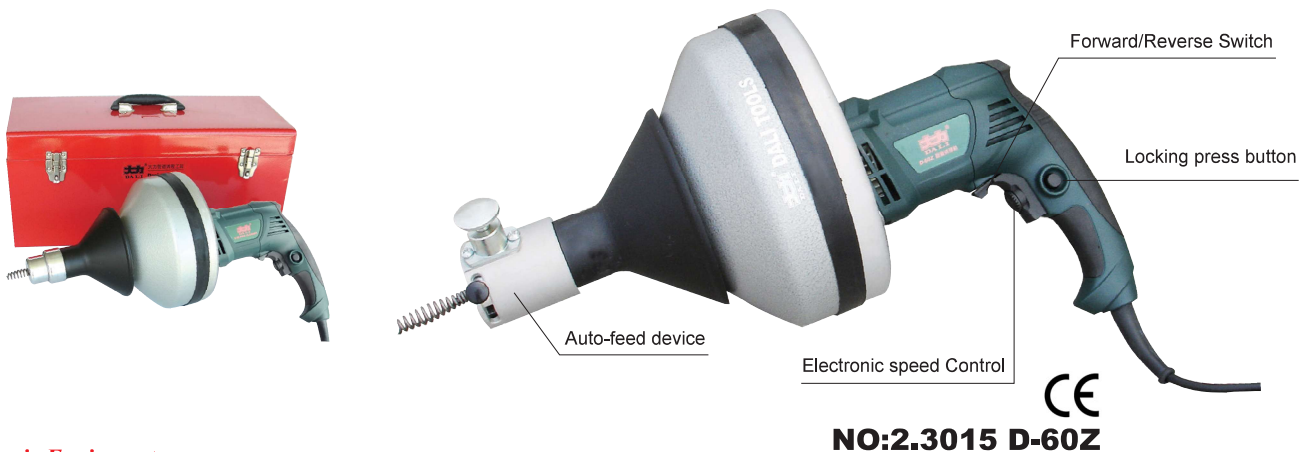
Catalog No.	Type.	Description.	Weight(kg)
2.3011	D-50B	Main machine	3.64
		R-2-24 $\Phi 8\text{mm} \times 6\text{m}$ ($5/16'' \times 20'$) inner core soft shaft	1.7
		F-9-g 14.4V Battery $\times 2$	1.25
		F-9-h Charger	0.51
		F-6-b Toolbox	4.06
2.3012	D-50ZB	Main machine	3.49
		R-2-24 $\Phi 8\text{mm} \times 6\text{m}$ ($5/16'' \times 20'$) inner core soft shaft	1.7
		F-9-g 14.4V Battery $\times 2$	1.25
		F-9-h Charger	0.51
		F-6-b Toolbox	4.06
2.3012-1	D-50ZB-1	Main machine	3.9
		R-2-24 $\Phi 8\text{mm} \times 6\text{m}$ ($5/16'' \times 20'$) inner core soft shaft	1.7
		F-9-g 14.4V Battery $\times 2$	1.25
		F-9-h Charger	0.51
		F-6-b Toolbox	4.06

NO:2.3012 D-50ZB



D-60,D-60Z,D-60Z-1

- Applicable for both indoor and outdoor small pipes of $\Phi 20-65\text{mm}$ ($3/4''-2\ 1/2''$) in lavatories.
- Using $\Phi 8\text{mm}$ ($5/16''$) enhanced inner core flexible soft shafts, improve torque transmission, against twisting and winding.
- Entirely sealed structure, flexible soft shafts are put in large metal barrels, to ensure cleaner and more convenient use.
- To release or engage the cable by hand with a quick movement of D-60 the Grip Shield
- To feed and back the cable just control D-60Z Auto-feed device. Max Feed speed is 5m/Min
- Shift with stepless 0-600 rpm speed adjustable, for adept passage through curved pipes.
- Motor power:705W
- Rated voltage:220V, 110V optional.



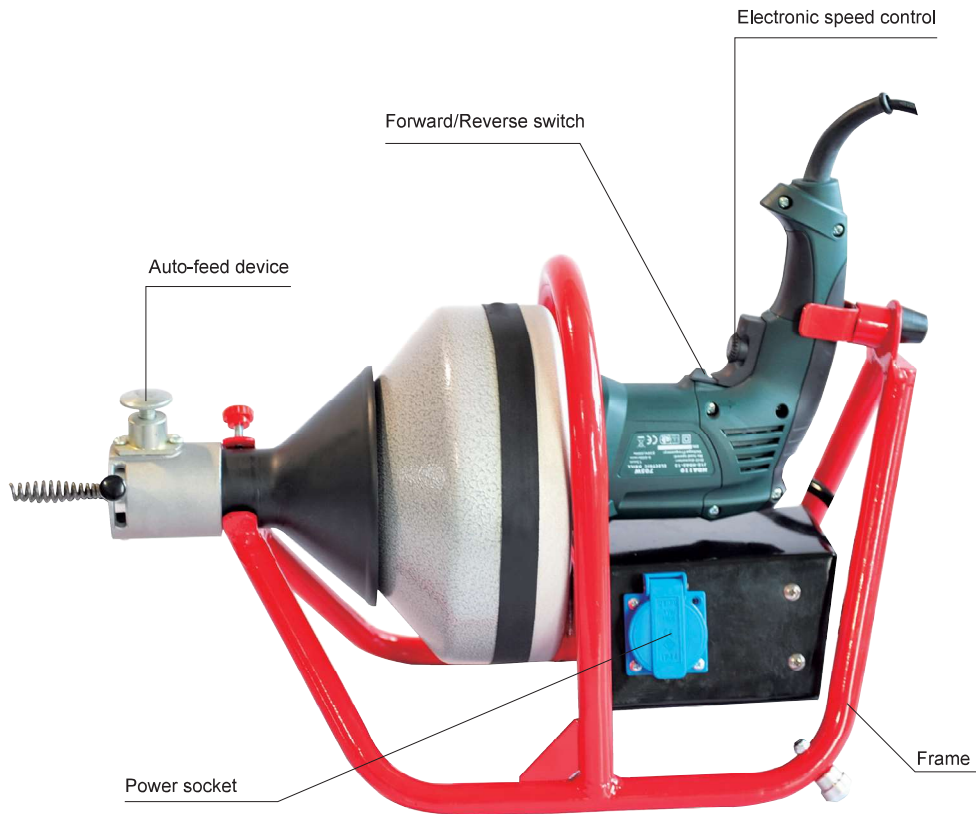
Basic Equipment:

Catalog No.	Type.	Description.	Weight(kg)
2.3014	D-60	Main machine	5.03
		R-2-25 $\Phi 8\text{mm} \times 7.6\text{M}$ ($5/16'' \times 25'$) inner core soft shaft	2.12
		F-6-b Toolbox	4.06

2.3015	D-60Z	Main machine	4.93
		R-2-25 $\Phi 8\text{mm} \times 7.6\text{M}$ ($5/16'' \times 25'$) inner core soft shaft	2.12
		F-6-b Toolbox	4.06

2.3015-1	D-60Z-1	Main machine	5.33
		R-2-25 $\Phi 8\text{mm} \times 7.6\text{M}$ ($5/16'' \times 25'$) inner core soft shaft	2.12
		F-6-b Toolbox	4.06





NO:2.3015-2 D-70

Basic Equipment :

Catalog No.	Type.	Description.		Weight(kg)
2.3015-2	D-70		Main Machine	4.93
		R-2-26	Φ8mm×10.7M (⁵ / ₁₆ " ×35') inner core soft shaft	2.97
		F-1-h	Frame	3.0
2.3015-3	D-70-1		Main Machine	4.93
		R-2-35	Φ10mm×7.6M (³ / ₈ " ×25') inner core soft shaft	2.63
		F-1-h	Frame	3.0

- The unique model design satisfies requirements of different operating situations.
- It can be used respectively after assembled or disassembled

D-70

- Applicable for both indoor and outdoor small pipes of $\Phi 20-65\text{mm}$ ($3/4''-2\ 1/2''$) in lavatories.
- Using $\Phi 8\text{mm}$ ($5/16''$) and $\Phi 10\text{mm}$ ($3/8''$) enhanced inner core flexible soft shafts, improve torque transmission, against twisting and winding.
- The unique model design satisfies requirements of different operating situations.
- It can be used respectively after assembled of disassembled.
- With air foot switch, more safety, easy and effective in operation.
- Entirely sealed structure, flexible soft shafts are put in large metal barrels, to ensure cleaner and more convenient use.
- Auto-Feed device feed and back soft shaft with maximum speed of 5m/min.
- Shift with stepless 0-600 rpm speed adjustable, for adept passage through curved pipes.
- Motor power:705W.
- Rated voltage:220V, 110V optional.



The coupling method of assembling and disassembling the simple motor drum and the frame.



Insert the hand held complete machine to the relevant clip position and lock the screw properly



Insert the power supply cord plug of the electric drill into the supply socket on the frame. Connect the power plug on the frame with the socket power reliably.



Adjust the electric drill to the appropriate rotation speed before using and push down the locking press button to hold the electric drill switch on the normally open position.



Auto-Feed device can drive the soft shaft feed and back automatically



The dredging and cleaning operation can be carried out with two different angles of the frame



A air foot switch provides ON/OFF Control of the motor



It can be used respectively after assembled or disassembled

The ABS plastic drum with high strength is light and strong and the capacity is large.



D-62A

- Applicable for both indoor and outdoor small pipes of $\Phi 20-65\text{mm}$ ($3/4''-2\frac{1}{2}''$) in lavatories.
- Using $\Phi 8\text{mm}$ ($5/16''$) and $\Phi 10\text{mm}$ ($3/8''$) enhanced inner core flexible soft shafts, improve torque transmission, against twisting and winding.
- Entirely sealed structure, flexible soft shafts are put in strong ABS drum, to ensure cleaner and more convenient use.
- Shift with stepless 0-600 rpm speed adjustable, for adept passage through curved pipes.
- Auto-feed device Feed and back soft shaft with maximum speed of 5m/min.
- Motor power:705W.
- Rated voltage:220V, 110V optional.

Basic Equipment :

Catalog No.	Type.	Description.		Weight(kg)
2.3013A-1	D-62A-1		Main machine	4.02
		R-2-26	$\Phi 8\text{mm} \times 10.7\text{M}$ ($5/16'' \times 35'$) inner core soft shaft	2.97
		F-6-b	Toolbox	4.06
2.3013A-2	D-62A-2		Main machine	4.02
		R-2-35	$\Phi 10\text{mm} \times 7.6\text{M}$ ($3/8'' \times 25'$) inner core soft shaft	2.63
		F-6-b	Toolbox	4.06

The ABS plastic drum with high strength is light and strong and the capacity is large.



NO:2.3013B D-62B



D-62B

- Applicable for both indoor and outdoor small pipes of $\Phi 20-65\text{mm}$ ($3/4''-2 1/2''$) in lavatories.
- Using $\Phi 8\text{mm}$ ($5/16''$) and $\Phi 10\text{mm}$ ($3/8''$) enhanced inner core flexible soft shafts, improve torque transmission, against twisting and winding.
- Entirely sealed structure, flexible soft shafts are put in strong ABS drum, to ensure cleaner and more convenient use.
- Shift with stepless 0-550 rpm speed adjustable, for adept passage through curved pipes.
- Auto-feed device feed and back soft shaft with maximum speed of 5m/min.
- 14.4V ,Low speed high power charged drill, the maximum torque is 20N.m.
- Includes two pieces 1.3Ah capacious Ni-Cd battery, a charger.
- Rated voltage 220V, 110V optional.

Basic Equipment :

Catalog No.	Type.	Description.	Weight(kg)
2.3013B-1	D-62B-1	Main machine	3.65
		R-2-26 $\Phi 8\text{mm} \times 10.7\text{M}$ ($5/16'' \times 35'$) inner core soft shaft	2.97
		F-9-g 14.4V Battery $\times 2$	1.25
		F-9-h Charger	0.51
		F-6-b Toolbox	4.06
2.3013B-2	D-62B-2	Main machine	3.65
		R-2-35 $\Phi 10\text{mm} \times 7.6\text{M}$ ($3/8'' \times 25'$) inner core soft shaft	2.63
		F-9-g 14.4V Battery $\times 2$	1.25
		F-9-h Charger	0.51
		F-6-b Toolbox	4.06



Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2011	GQ-75	2.2001	Main machine	12.2
		RH1-1	Φ16mm soft shafts	9.26
		ZHa-1	Φ16mm drills 8 pieces	0.42
		F-3-a	Φ4 key	0.03
		F-2-a	Φ8mm*5m soft shaft combination	2.38
		F-5-a	Protection gloves	0.25
		F-6-a	Accessory barrel	2.0



GQ-75

- Applicable for all kinds of indoor pipes of $\Phi 20-100\text{mm}$ ($3/4"-4"$).
- Lightweight, strong, convenient flexible in operation, using soft shafts of $\Phi 8\text{mm}$ ($5/16"$) and $\Phi 16\text{mm}$ ($5/8"$) can be used.
- Soft shaft of $\Phi 8\text{mm}$ ($5/16"$) are used to clean pipes of $\Phi 20-75\text{mm}$ in diameter, especially applicable to complex pipes of small diameters like traps.
- Flexible soft shafts of $\Phi 16\text{mm}$ ($5/8"$) are used to clean small complex.
- Using sectional helical flexible shafts of $\Phi 16\text{mm}$ ($5/8"$) , pipes of $\Phi 32-100\text{mm}$ ($1 1/4"-4"$) in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 400 rpm, and the soft shaft stops when the handle is released.
- Input Power:390W.
- Rated Voltage:220V,110V optional, frequency 50Hz,60Hz optional.

RH1-1 $\Phi 16\text{mm}$ soft shafts

<p>NO:2.2111 RH1-1 $\Phi 16\text{mm}$ Soft shaft</p>		2.0131	R-3-1	1 piece $\Phi 16\text{mm} \times 2.3\text{m}$ flexible soft shafts
		2.0141	R-4-1	7 pieces $\Phi 16\text{mm} \times 2.3\text{m}$ soft shafts
		2.0316	F-1-f	$\Phi 430$ soft shaft holder

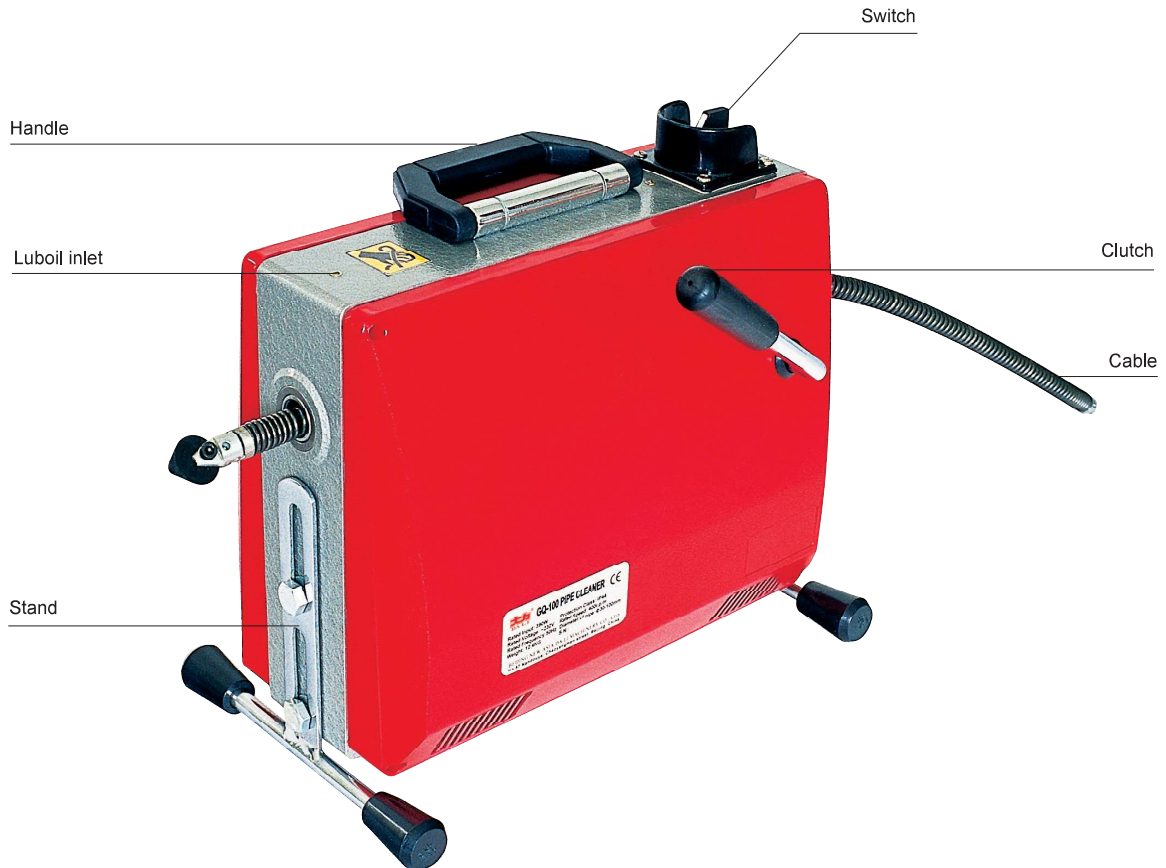
ZHa-1 $\Phi 16\text{mm}$ drills

<p>NO:2.0211 T-1-a Straight Auger</p>	<p>NO:2.0221 T-2-a Bulb Auger</p>	<p>NO:2.0231 T-3-a Flexible Bulb Auger</p>	<p>NO:2.0251 T-5-a Retrieving Auger</p>	<p>NO:2.0261 T-6-a 4-Blade cutter</p>	<p>NO:2.0271 T-7-a Grease Cutter</p>	<p>NO:2.0281 T-8-a Sawtooth cutter</p>	<p>NO:2.0291 T-9-a "C"- cutter</p>
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Accessories

<p>NO:2.0316 F-6-a Accessory barrel</p>	<p>NO:2.0321 F-2-a $\Phi 8\text{mm} \times 5\text{m}$ soft shaft combination</p>	<p>NO:2.0331 F-3-a $\Phi 4$ Key</p>	<p>NO:2.0351 F-5-a Protection gloves</p>	<p>NO:2.0371 F-7-a optional 1.8m Protection tube</p>
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optional purchase part



CE
NO:2.2012 GQ-100

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2012	GQ-100	2.2002	Main machine	13.0
		RH1-2	Φ16mm soft shafts	7.26
		ZHa-2	Φ16mm drills 4 pieces	0.18
		F-3-a	Φ4 key	0.03
		F-5-a	Protection gloves	0.25

GQ-100

- Applicable for all kinds of indoor pipes of $\Phi 32-100\text{mm}(1\frac{1}{4}''-4'')$.
- Compact structure, lightweight and easy operation.
- Press the handle, with the locking function, save man power in operation.
- Support is provided, to adjust the height and angle of the machine to accommodate different working environment.
- Using sectional helical flexible shafts of $\Phi 16\text{mm}(\frac{5}{8}'')$, pipes of $\Phi 32-100\text{mm}(1\frac{1}{4}''-4'')$ in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 400 rpm, and the soft shaft stops when the handle is released.
- Input Power: 390W.
- Rated voltages: 220V, 110V, optional; frequency of 50Hz, 60Hz, optional.



RH1-2 $\Phi 16\text{mm}$ soft shafts

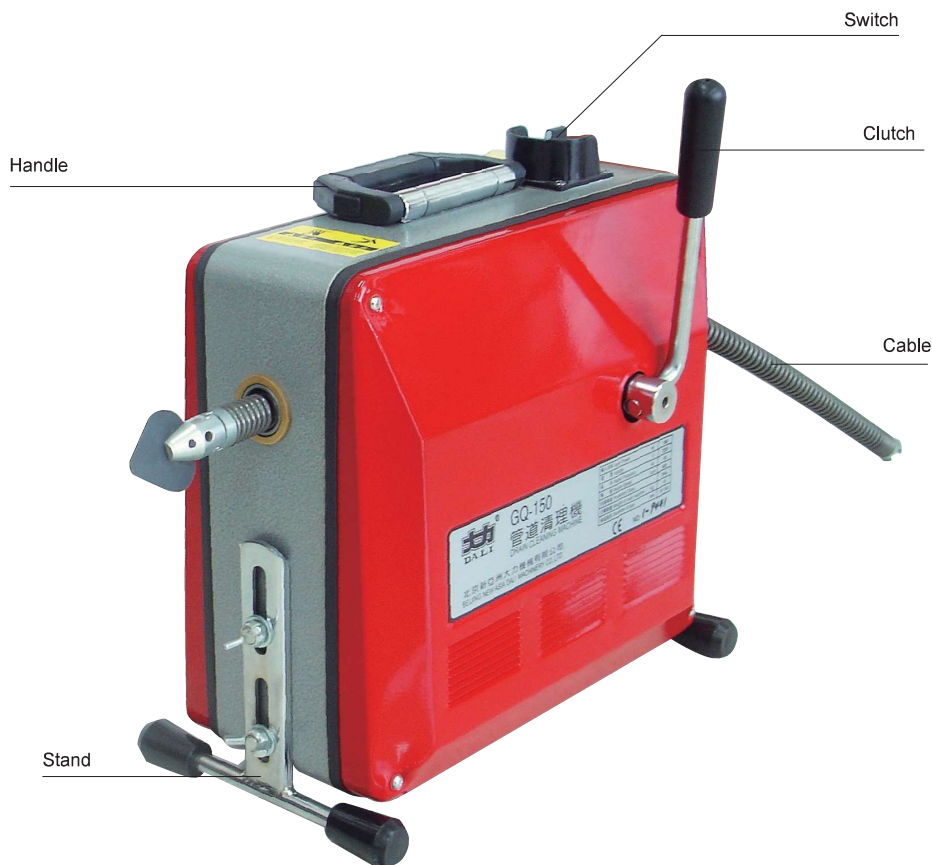
<p>NO.2112 RH1-2 $\Phi 16\text{mm}$ soft shafts</p>		2.0141	R-4-1	6 pieces $\Phi 16\text{mm} \times 2.3\text{m}$ soft shafts
		2.0315	F-1-e	$\Phi 360$ soft shaft holder

ZHa-2 $\Phi 16\text{mm}$ drills

<p>NO:2.0211 T-1-a Straight Auger</p>	<p>NO:2.0251 T-5-a Retrieving Auger</p>	<p>NO:2.0261 T-6-a 4-edged cutter</p>	<p>NO:2.0271 T-7-a Grease Cutter</p>
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Accessories

<p>NO:2.0331 F-3-a $\Phi 4$ Key</p>	<p>NO:2.0351 F-5-a Protection gloves</p>
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CE
NO:2.2013 GQ-150

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2013	GQ-150	2.2003	Main machine	17.1
		RH1-3	Φ16mm soft shafts	6.77
		RH2-1	Φ22mm soft shafts	11.7
		ZHa-3	Φ16mm drills 4 pieces	0.25
		ZHb-1	Φ22mm drills 4 pieces	0.48
		F-3-a	Φ4 key	0.03
		F-3-b	Φ5.5 key	0.04
		F-2-b	Φ8mm*5m soft shaft combination	3.30
		F-5-a	Protection gloves	0.25
		F-6-a	Accessory barrel	2.0

GQ-150

- Applicable for all kinds of indoor pipes of $\Phi 20-150\text{mm}$ ($3/4''-6''$).
- Multifunctional, heavy duty, compact structure, wide application scope, using soft shafts of $\Phi 8\text{mm}$ ($5/16''$), $\Phi 16\text{mm}$ ($5/8''$) and $\Phi 22\text{mm}$ ($7/8''$).
- Support is provided, to adjust the height and angle of the machine to accommodate different working environment.
- Using soft shafts of $\Phi 8\text{mm}$ ($5/16''$), the cleaning diameter range is $\Phi 20-75\text{mm}$, especially suitable for small diameter pipes or complex pipes like traps.
- Using flexible soft shafts of $\Phi 16$ ($5/8''$), it is more suitable for small complex pipelines.
- Using sectional helical flexible shafts of $\Phi 16\text{mm}$ ($5/8''$), pipes of $\Phi 32-100\text{mm}$ ($3/4''-4''$) in diameter can be cleaned, the soft shafts can be lengthened at will.
- Using sectional helical flexible shafts of $\Phi 22\text{mm}$ ($7/8''$), pipes of $\Phi 50-150\text{mm}$ ($2''-6''$) in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 400 rpm, and the soft shaft stops when the handle is released.
- Input Power:390W.
- Rated voltage: 220V, 110V, optional, frequency of 50Hz, 60Hz optional.



RH1-3 $\Phi 16\text{mm}$ soft shafts

<p>NO:2.2113 RH1-3 $\Phi 16\text{mm}$ soft shafts</p>		2.0131	R-3-1	1 piece $\Phi 16\text{mm} \times 2.3\text{m}$ flexible soft shafts
		2.0141	R-4-1	5 pieces $\Phi 16\text{mm} \times 2.3\text{m}$ soft shafts
		2.0316	F-1-f	$\Phi 430$ soft shaft holder

RH2-1 $\Phi 22\text{mm}$ soft shafts

<p>NO:2.2113 RH2-1 $\Phi 22\text{mm}$ soft shafts</p>		2.0142	R-4-2	3 pieces $\Phi 22\text{mm} \times 4.6\text{m}$ soft shafts
		2.0316	F-1-f	$\Phi 430$ soft shaft holder

ZHa-3 $\Phi 16\text{mm}$ drills

 NO:2.0211 T-1-a Straight Auger	 NO:2.0231 T-3-a Flexible Bulb Auger	 NO:2.0251 T-5-a Retrieving Auger	 NO:2.0261 T-6-a 4-Blade Cutter
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ZHb-1 $\Phi 22\text{mm}$ drills

 NO:2.0212 T-1-b Straight Auger	 NO:2.0242 T-4-b Funnel Auger	 NO:2.0262 T-6-b 4-Blade Cutter	 NO:2.0272 T-7-b Grease Cutter
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Accessories

 NO:2.0361 F-6-a Accessory barrel	 NO:2.0322 F-2-b $\Phi 8\text{mm} \times 5\text{m}$ soft shaft combination	 NO:2.0331 F-3-a $\Phi 4$ Key	 NO:2.0332 F-3-b $\Phi 5.5$ Key	 NO:2.0351 F-5-a Protection gloves	 NO:2.0373 F-7-c Optional 1.8m Protection tube
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optional purchase part



Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2017	D-150	2.2007	Main machine	18.2
		RH1-3	Φ16mm soft shafts	6.77
		RH2-1	Φ22mm soft shafts	11.7
		ZHa-3	Φ16mm drills 4 pieces	0.25
		ZHb-1	Φ22mm drills 4 pieces	0.48
		F-3-a	Φ4 key	0.03
		F-3-b	Φ5.5 key	0.04
		F-2-b	Φ8mm*5m soft shaft combination	3.30
		F-5-a	Protection gloves	0.25
		F-6-a	Accessory barrel	2.0

D-150




- Applicable for all kinds of indoor pipes of $\Phi 20-150\text{mm}$ ($\frac{3}{4}$ "-6").
- Multifunctional, heavy duty, compact structure, wide application scope, using soft shafts of $\Phi 8\text{mm}$ ($\frac{5}{16}$ "), $\Phi 16\text{mm}$ ($\frac{5}{8}$ ") and $\Phi 22\text{mm}$ ($\frac{7}{8}$ ").
- Support is provided, to adjust the height and angle of the machine to accommodate different working environment.
- Using soft shafts of $\Phi 8\text{mm}$ ($\frac{5}{16}$ "), the cleaning diameter range is $\Phi 20-75\text{mm}$, especially suitable for small diameter pipes or complex pipes like traps.
- Using flexible soft shafts of $\Phi 16$ ($\frac{5}{8}$ "), it is more suitable for small complex pipelines.
- Using sectional helical flexible shafts of $\Phi 16\text{mm}$ ($\frac{5}{8}$ "), pipes of $\Phi 32-100\text{mm}$ ($\frac{3}{4}$ "-4") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Using sectional helical flexible shafts of $\Phi 22\text{mm}$ ($\frac{7}{8}$ "), pipes of $\Phi 50-150\text{mm}$ (2"-6") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 400 rpm, and the soft shaft stops when the handle is released.
- Input power: 570W
- Rated voltage: 220V, 110V, optional, frequency of 50Hz, 60Hz optional.







RH1-3 $\Phi 16\text{mm}$ soft shafts

 NO:2.2113 RH1-3 $\Phi 16\text{mm}$ soft shafts		2.0131	R-3-1	1 piece 16mm x 2.3M flexible soft shafts
		2.0141	R-4-1	5 pieces $\Phi 16\text{mm} \times 2.3\text{m}$ soft shafts
		2.0316	F-1-f	$\Phi 430$ soft shaft holder





RH2-1 $\Phi 22\text{mm}$ soft shafts

 NO:2.2113 RH2-1 $\Phi 22\text{mm}$ soft shafts		2.0142	R-4-2	3 pieces $\Phi 22\text{mm} \times 4.6\text{m}$ soft shafts
		2.0316	F-1-f	$\Phi 430$ soft shaft holder







ZHa-3 $\Phi 16\text{mm}$ drills

 NO:2.0211 T-1-a Straight Auger	 NO:2.0231 T-3-a Flexible Bulb Auger	 NO:2.0251 T-5-a Retrieving Auger	 NO:2.0261 T-6-a 4-Blade Cutter
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ZHb-1 $\Phi 22\text{mm}$ drills

 NO:2.0212 T-1-b Straight Auger	 NO:2.0242 T-4-b Funnel Auger	 NO:2.0262 T-6-b 4-Blade Cutter	 NO:2.0272 T-7-b Grease Cutter
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Accessories

 NO:2.0361 F-6-a Accessory barrel	 NO:2.0322 F-2-b $\Phi 8\text{mm} \times 5\text{m}$ soft shaft combination	 NO:2.0331 F-3-a $\Phi 4$ Key	 NO:2.0332 F-3-b $\Phi 5.5$ Key	 NO:2.0351 F-5-a Protection gloves	 NO:2.0373 F-7-c Optional 1.8m Protection tube
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optional purchase part

With human engineering design and 50mm handle ball, the holding is tight and firm.






CE
NO:2.2014 GQ-200

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2014	GQ-200	2.2004	Main machine	36.57
		RH3-1	Φ30mm soft shafts	27.5
		ZHc-1	Φ30mm drills 6 pieces	1.90
		F-3-b	Φ5.5 key	0.04
		F-5-a	Protection gloves	0.25
		F-7-b	Protection tube	1.50
		F-9-a	Drill shelf	0.12

RH3-1 Φ30mm soft shafts

 NO:2.2114 RH3-1 Φ30mm soft shafts	 2.0143	R-4-3	4 pieces Φ30mm×4.6m soft shafts
	 2.0317	F-1-g	Φ500 soft shaft holder

GQ-200

- Applicable for all kinds of outdoor pipes of $\Phi 50-200\text{mm}$ (2"-8").
- The choice type of multifunction, heavy duty type, the main machine and soft shafts have walking wheels, one man is capable of doing complex pipe cleaning jobs easily.
- Special drill shelf are easy to maintain and use.
- Using sectional helical flexible shafts of $\Phi 30\text{mm}$ (1¼"), pipes of $\Phi 50-200\text{mm}$ (2"-8") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 700 rpm, and the soft shaft stops when the handle is released.
- Input Power: 1100W.
- Rated voltage: 220V, 110V, optional, frequency of 50Hz, 60Hz optional.



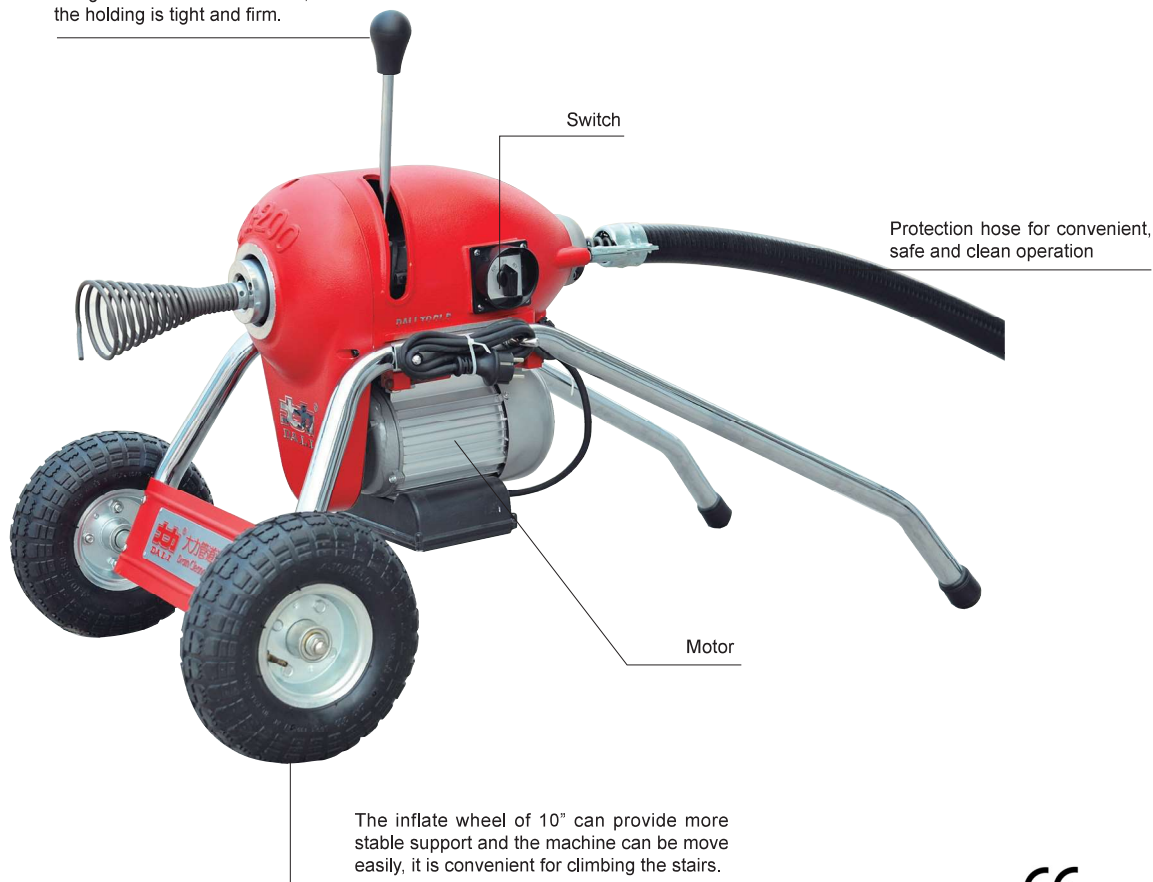
ZHc-1 $\Phi 30\text{mm}$ drills

NO:2.0213 T-1-C Straight Auger	NO:2.0243 T-4-C Funnel Auger	NO:2.0253 T-5-C Retrieving Auger	NO:2.0273 T-7-C Grease Cutter	NO:2.0283 T-8-C Sawtooth cutter	NO:2.0293 T-9-C "C"- Cutter

Accessories

NO:2.0372 F-7-b Protection tube	NO:2.0391 F-9-a Drill Shelf	NO:2.0332 F-3-b $\Phi 5.5$ Key	NO:2.0351 F-5-a Protection gloves

With human engineering design and 50mm handle ball, the holding is tight and firm.



CE
NO:2.2018 D-200

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2018	D-200	2.2008	Main machine	37
		RH3-1	Φ30mm soft shafts	27.5
		ZHc-1	Φ30mm drills 6 pieces	1.90
		F-3-b	Φ5.5 key	0.04
		F-5-a	Protection gloves	0.25
		F-7-b	Protection tube	1.50
		F-9-a	Drill shelf	0.12

RH3-1 Φ30mm soft shafts

 NO:2.2114 RH3-1 Φ30mm soft shafts	 2.0143	R-4-3	4 pieces Φ30mm×4.6m soft shafts
	 2.0317	F-1-g	Φ500 soft shaft holder

D-200





- Applicable for all kinds of outdoor pipes of $\Phi 50-200\text{mm}$ (2"-8").
- The choice type of multifunction, heavy duty type, the main machine and soft shafts have walking wheels, one man is capable of doing complex pipe cleaning jobs easily.
- Special drill shelf are easy to maintain and use.
- Using sectional helical flexible shafts of $\Phi 30\text{mm}$ (1 $\frac{1}{4}$ "), pipes of $\Phi 50-200\text{mm}$ (2"-8") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 700 rpm, and the soft shaft stops when the handle is released.
- Input Power: 1100W.
- Rated voltage:220V, 110V, optional, frequency of 50Hz ,60Hz optional.



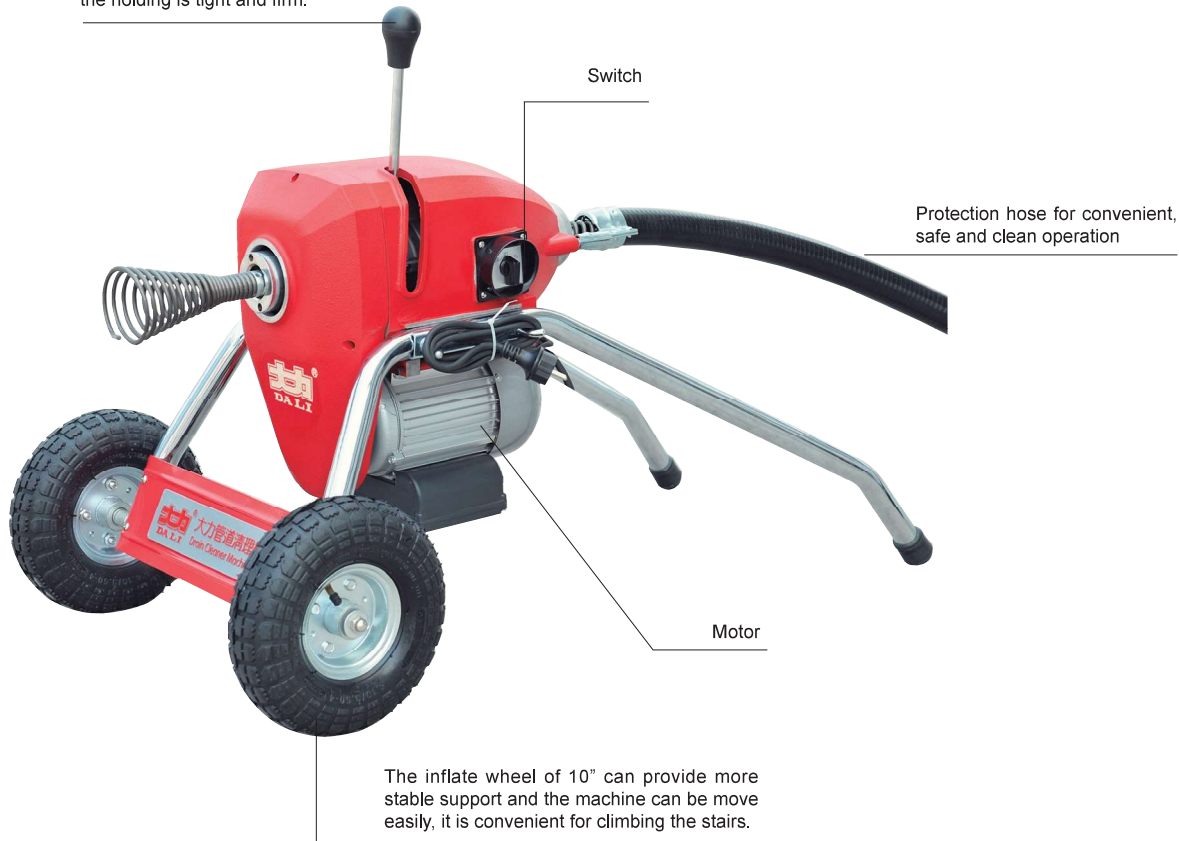
ZHc-1 $\Phi 30\text{mm}$ drills

					
NO:2.0213 T-1-C Straight Auger	NO:2.0243 T-4-C Funnel Auger	NO:2.0253 T-5-C Retrieving Auger	NO:2.0273 T-7-C Grease Cutter	NO:2.0283 T-8-C Sawtooth cutter	NO:2.0293 T-9-C "C"- Cutter

Accessories

			
NO:2.0372 F-7-b Protection tube	NO:2.0391 F-9-a Drill Shelf	NO:2.0332 F-3-b $\Phi 5.5$ Key	NO:2.0351 F-5-a Protection gloves

With human engineering design and 50mm handle ball, the holding is tight and firm.



CE
NO:2.2019 D-200-1

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2019	D-200-1	2.2009	Main machine	38.2
		RH3-1	Φ30mm soft shafts	27.5
		ZHc-1	Φ30mm drills 6 pieces	1.90
		F-3-b	Φ5.5 key	0.04
		F-5-a	Protection gloves	0.25
		F-7-b	Protection tube	1.5
		F-9-a	Drill shelf	0.12

RH3-1 Φ30mm soft shafts

 NO:2.2114 RH3-1 Φ30mm soft shafts		2.0143	R-4-3	4 pieces Φ30mm×4.6m soft shafts
		2.0317	F-1-g	Φ500 soft shaft holder

D-200-1





- Applicable for all kinds of outdoor pipes of $\Phi 50-200\text{mm}$ (2"-8").
- The choice type of multifunction, heavy duty type, the main machine and soft shafts have walking wheels, one man is capable of doing complex pipe cleaning jobs easily.
- Special drill shelf are easy to maintain and use.
- Using sectional helical flexible shafts of $\Phi 30\text{mm}$ (1¼"), pipes of $\Phi 50-200\text{mm}$ (2"-8") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 700 rpm, and the soft shaft stops when the handle is released.
- Input Power: 1100W.
- Rated voltage: 220V, 110V, optional, frequency of 50Hz, 60Hz optional.



ZHc-1 $\Phi 30\text{mm}$ drills

					
NO:2.0213 T-1-C Straight Auger	NO:2.0243 T-4-C Funnel Auger	NO:2.0253 T-5-C Retrieving Auger	NO:2.0273 T-7-C Grease Cutter	NO:2.0283 T-8-C Sawtooth cutter	NO:2.0293 T-9-C "C"- Cutter

Accessories

			
NO:2.0372 F-7-b Protection tube	NO:2.0391 F-9-a Drill Shelf	NO:2.0332 F-3-b $\Phi 5.5$ Key	NO:2.0351 F-5-a Protection gloves






NO:2.2019A D-200-1A

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.2019A	D-200-1A	2.2009A	Main machine	43.0
		RH3-1	Φ30mm soft shafts	27.5
		ZHc-1	Φ30mm drills 6 pieces	1.90
		F-3-b	Φ5.5 key	0.04
		F-5-a	Protection gloves	0.25
		F-7-b	Protection tube	1.50
		F-9-a	Drill shelf	0.12

RH3-1 Φ30mm soft shafts

 NO:2.2114 RH3-1 Φ30mm soft shafts		2.0143	R-4-3	4 pieces Φ30mm×4.6m soft shafts
		2.0317	F-1-g	Φ500 soft shaft holder



NO:2.2019A D-200-1A



NO:2.2018A D-200A



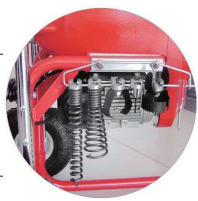
More room for reserve accessories

D-200-1A

- Applicable for all kinds of outdoor pipes of $\Phi 50-200\text{mm}$ (2"-8").
- The choice type of multifunction, heavy duty type, the main machine and soft shafts have walking wheels, one man is capable of doing complex pipe cleaning jobs easily.
- Special drill shelf are easy to maintain and use.
- Using sectional helical flexible shafts of $\Phi 30\text{mm}$ (1¼"), pipes of $\Phi 50-200\text{mm}$ (2"-8") in diameter can be cleaned, the soft shafts can be lengthened at will.
- Press the clutch, the rotating speed is up to 700 rpm, and the soft shaft stops when the handle is released.
- Input Power: 1100W.
- Rated voltage:220V, 110V, optional, frequency of 50Hz ,60Hz optional.



With side mounted motor capacitance connecting box and anti collision frame, the collision can be prevented more effectively



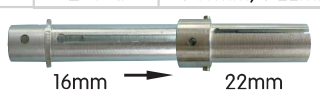
Drilling tool hanging rack can hold all drilling tools



Adjustable hand Convenient climb with 10" inflatable



Catalog No.	Type.	Description.
2.0511	Z-1-a	$\Phi 16\text{mm}, \Phi 22\text{mm}$ cable adaptor




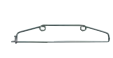


Options: 16mm , 22mm cable adaptor

- Equipped with 16, 22mm cable adapter, improve the using function
- Easy to install, insert adaptor into machine by relative guide pin,

ZHc-1 $\Phi 30\text{mm}$ drills

 NO:2.0213 T-1-C Straight Auger	 NO:2.0243 T-4-C Funnel Auger	 NO:2.0253 T-5-C Retrieving Auger	 NO:2.0273 T-7-C Grease Cutter	 NO:2.0283 T-8-C Sawtooth cutter	 NO:2.0293 T-9-C "C"- Cutter
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Accessories

 NO:2.0372 F-7-b Protection tube	 NO:2.0391 F-9-a Drill Shelf	 NO:2.0332 F-3-b $\Phi 5.5$ Key	 NO:2.0351 F-5-a Protection gloves
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NO:2.2015 GQ-600

Basic Equipment:

Catalog No.	Type.	Description.	Weight(kg)	
2.2015	GQ-600	2.2005	Main machine	117.5
		RH4-1	30 pieces Φ 8mm soft shafts	16.5
		ZHd-1	Φ 22mm drills 4 pieces	1.57
		F-3-a	Φ 4 key	0.04
		F-5-a	Protection gloves	0.25
		F-9-b	Bumper	2.13

RH4-1 Φ 8mm soft shafts

 NO:2.2115 RH4-1 Bar elastic	2.0161	R-6-1	30 pieces Φ 8mm \times 1.5m soft shafts
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GQ-600

- Applicable for pipes of $\Phi 200-600\text{mm}$ (8"-24") in civil projects.
- Mobile, heavy duty, easy and more powerful operation.
- Four-wheel cart easily rolls to the job.
- Using removable sectional flexible shafts of $\Phi 8\text{mm}$ ($\frac{5}{16}$ "), with large bending resistance, twisting resistance and ductility resistance. It can be extended to any length.
- Four-speed transmission, all adjustable: 180rpm-600rpm. Allows the operator to vary the flexible shaft spinning speed to fit the application.
- Input power: 2200W.
- Rated voltage: 220V, 110V optional; frequency of 50Hz, 60Hz optional.



ZHd-1 $\Phi 22\text{mm}$ drills

NO:2.0214 T-1-d Straight Auger	NO:2.0254 T-5-d Retrieving Auger	NO:2.0274 T-7-d Spade Cutter	NO:2.0284 T-8-d Sawtooth Gutter

Accessories

NO:2.0392 F-9-b Bumper	NO:2.0331 F-3-a Key	NO:2.0351 F-5-a Protection gloves

D-300F

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}$ ($1\frac{1}{4}\text{'-}4\text{'}$) in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}$ ($\frac{3}{8}\text{'}$ or $\frac{1}{2}\text{'}$) inner-core cable,
- Entirely sealed structure, flexible soft shafts are put in drum to ensure cleaner and more convenient use.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Drum spin at 300rpm.
- Input power:390W
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



NO:2.3010 D-300F



NO:2.3010A D-300AF

Optional parts with 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.







Inner-core cable High Intensity Anti-twisting Anti-kinking

High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3010	D-300F		Main machine	17.8
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}$ ($\frac{1}{2}\text{'}\times 50\text{'}$) inner-core cable	10.5
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

			
NO:2.0276 T-7-f Grease Cutter	NO:2.0296 T-9-f "C" Cutter	NO:2.0226 T-2-f Bulb Auger	NO:2.0286 T-8-f Side Cutter Blades

Note:
Drum Capacity:12.7mm*15m/10mm*23m
inner core cable optional

D-300K

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}$ ($1\frac{1}{4}\text{'-}4\text{'}$) in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}$ ($\frac{3}{8}\text{'}$ or $\frac{1}{2}\text{'}$) inner-core cable,
- Open cage drum easily to inspect cable working and reserve for avoiding rusty problem.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Drum spin at 300rpm.
- Input power:390W.
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



NO:2.3010AK D-300AK

Optional parts with 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.



NO:2.3010K D-300K



Inner-core cable High Intensity Anti-twisting Anti-kinking
High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3010K	D-300K		Main machine	16.8
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}$ ($\frac{1}{2}\text{'}\times 50\text{'}$) inner-core cable	10.5
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

<p>NO:2.0276 T-7-f Grease Cutter</p>	<p>NO:2.0296 T-9-f "C" Cutter</p>	<p>NO:2.0226 T-2-f Bulb Auger</p>	<p>NO:2.0286 T-8-f Side Cutter Blades</p>
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Note:
Drum Capacity:12.7mm*15m/10mm*23m
inner core cable optional

D-330ZF

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}(1\frac{1}{4}\text{"}\sim 4\text{"})$ in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}(\frac{3}{8}\text{"}$ or $\frac{1}{2}\text{"})$ inner-core cable,
- Entirely sealed structure, flexible soft shafts are put in drum, to ensure cleaner and more convenient use.
- With 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Auto-Feed device feed and back soft shaft with maximum speed of 5m/min.
- Drum spin at 300rpm.
- Input power:390W
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



NO:2.3017 D-330ZF







Inner-core cable High Intensity Anti-twisting Anti-kinking

High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3017	D-330ZF		Main machine	24.5
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}(1\frac{1}{2}\text{"}\times 50')$ inner-core cable	10.5
		F-9-j	Auto-Feed device	1.78
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

 NO:2.0276 T-7-f Grease Cutter	 NO:2.0296 T-9-f "C" Cutter	 NO:2.0226 T-2-f Bulb Auger	 NO:2.0286 T-8-f Side Cutter Blades
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Note:

Drum Capacity:12.7mm*15m/10mm*23m
inner core cable optional

D-330ZK

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}(1\frac{1}{4}''\text{-}4'')$ in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}(3/8''$ or $1/2'')$ inner-core cable,
- Open cage drum easily to inspect cable working and reserve for avoiding rusty problem.
- With 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Auto-Feed device feed and back soft shaft with maximum speed of 5m/min.
- Drum spin at 300rpm.
- Input power:390W
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



NO:2.3017K D-330ZK







Inner-core cable High Intensity Anti-twisting Anti-kinking

High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3017K	D-330ZK		Main machine	23.7
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}(1\frac{1}{2}''\times 50')$ inner-core cable	10.5
		F-9-j	Auto-Feed device	1.78
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

 NO:2.0276 T-7-f Grease Cutter	 NO:2.0296 T-9-f "C" Cutter	 NO:2.0226 T-2-f Bulb Auger	 NO:2.0286 T-8-f Side Cutter Blades
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Note:

Drum Capacity:12.7mm*15m/10mm*23m
inner core cable optional

D-360ZF

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}(1\frac{1}{4}''\text{-}4'')$ in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}(\frac{3}{8}''$ or $\frac{1}{2}''$) inner-core cable,
- Entirely sealed structure, flexible soft shafts are put in drum, to ensure cleaner and more convenient use.
- With 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Auto-Feed device feed and back soft shaft with maximum speed of 5m/min.
- Drum spin at 300rpm.
- Input power:390W
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



Inner-core cable High Intensity Anti-twisting Anti-kinking





High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

NO:2.3019 D-360ZF

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3019	D-360ZF		Main machine	24.5
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}$ ($\frac{1}{2}''\times 50'$) inner-core cable	10.5
		F-9-j	Auto-Feed device	1.78
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

 NO:2.0276 T-7-f Grease Cutter	 NO:2.0296 T-9-f "C" Cutter	 NO:2.0226 T-2-f Bulb Auger	 NO:2.0286 T-8-f Side Cutter Blades
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Note:

Drum Capacity:12.7mm*15m/10mm*23m
inner core cable optional

D-360ZK



- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}(1\frac{1}{4}\text{"}\sim 4\text{"})$ in lavatories, bathrooms and kitchens. With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}(\frac{3}{8}\text{"}$ or $\frac{1}{2}\text{"})$ inner-core cable,
- Open cage drum easily to inspect cable working and reserve for avoiding rusty problem.
- With 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.
- Built-in Ground fault circuit interrupter (GFCI) and air foot switch, more convenient and safety operation.
- Auto-Feed device feed and back soft shaft with maximum speed of 5m/min.
- Drum spin at 300rpm.
- Input power:390W
- Rated voltage:220V;110V optional Frequencies of 50HZ; 60HZ optional.



Inner-core cable High Intensity Anti-twisting Anti-kinking





High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.

NO:2.3019K D-360ZK

Basic Equipment:

Catalog No.	Type.	Description.		Weight(kg)
2.3019K	D-360ZK		Main machine	23.7
		R-8-1	$\Phi 12.7\text{mm}\times 15\text{m}(\frac{1}{2}\text{"}\times 50')$ inner-core cable	10.5
		F-9-j	Auto-Feed device	1.78
		ZHa-6	$\Phi 16\text{mm}$ drills 4 pieces	0.16

ZHa-6 $\Phi 16\text{mm}$ drills

 NO:2.0276 T-7-f Grease Cutter	 NO:2.0296 T-9-f "C" Cutter	 NO:2.0226 T-2-f Bulb Auger	 NO:2.0286 T-8-f Side Cutter Blades
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Note:
 Drum Capacity:12.7mm*15m/10mm*23m
 inner core cable optional

D-360KS,D-360KS-1

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}$ ($1\frac{1}{4}\text{'-}4\text{'}$) in lavatories, bathrooms and kitchens.
- With $\Phi 10\text{mm}$ or $\Phi 12.7\text{mm}$ ($\frac{3}{8}\text{'}$ or $\frac{1}{2}\text{'}$) inner-core cable,
- Open cage drum easily to inspect cable working and reserve for avoiding rusty problem.
- With 8" solid rubber wheel and removable handle, easily moving, light and handy, save time and effort.
- Auto-Feed device feed and back soft shaft.

Basic Equipment :

Catalog No.	Type.	Description.	Weight(kg)
2.1018	D-360KS	Main machine	5.72
		R-8-1 $\Phi 12.7\text{mm}\times 15\text{M}$ ($1/2\text{'}\times 50\text{'}$) inner-core cable	16
		T-9-F $\Phi 16\text{mm}\text{'C'}$ cutter	0.06

Optional Inner-core cable, drills and accessories

	Catalog No.	Type.	Description.	Weight(kg)
 Inner-core cable	2.0183-8	R-8-4	$\Phi 10\text{mm}\times 23\text{M}$ ($3/8\text{'}\times 75\text{ft}$)	9.8
	2.0183-9	R-8-5	$\Phi 10\text{mm}\times 30\text{M}$ ($3/8\text{'}\times 100\text{ft}$)	12.8
	2.0184-8	R-8-2	$\Phi 12.7\text{mm}\times 23\text{M}$ ($1/2\text{'}\times 75\text{ft}$)	16.1
	2.0184-9	R-8-3	$\Phi 12.7\text{mm}\times 30\text{M}$ ($1/2\text{'}\times 100\text{ft}$)	21.1



Inner-core cable High Intensity Anti-twisting Anti-kinking

High quality steel wire coiled around the steel wire rope tightly and special treated, the inner-core cable can meet the requirement of every heavy duty job.



Handle



Prevent falling off of soft shaft



NO:2.1018 D-360KS



D-360KS-1

$\Phi 16\text{mm}$ drills

 NO2.0276 T-7-f Grease Cutter	 NO2.0296 T-9-f "C" Cutter	 NO2.0226 T-2-f Bulb Auger	 NO2.0286 T-8-f Side Cutter Blades
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Accessories

• Optional configuration

 Handle	 NO2.0393-B F-9-J Auto-Feed device
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D-1000

- Applicable for both indoor and outdoor of $\Phi 32\sim 100\text{mm}$ ($1\frac{1}{4}\text{'-}4\text{'}$) in lavatories, bathrooms and kitchens. With $\Phi 12.5\text{mm}$ ($\frac{1}{2}\text{'}$) Inner-core cable.
- Entirely sealed structure, flexible soft shafts are put in drum, to ensure cleaner and more convenient use.
- Drum spin at 250rpm, cable feeding speed 5m/min.
- Input power:390W.
- Rated voltage: 220V; 110V optional, Frequencies of 50HZ; 60HZ optional.



The drum can be adjusted to fit different working position



Inner-core cable High Intensity Anti-twisting Anti-kinking

High quality steel wire coiled around the steel wire rope tightly and special treated ,the inner-core cable can meet the requirement of every heavy duty job.



CE
NO:2.3018 D-1000

Basic Equipment:



Catalog No.	Type.	Description.		Weight(kg)
2.3018A	D-1000A		Main machine	37.8
		R-8-1	$\Phi 12.7\times 15\text{m}$ ($\frac{1}{2}\text{'}\times 50\text{'}$)inner-core cable	10.5
		ZHa-5	$\Phi 16\text{mm}$ drills 4 pieces	0.19
		F-7-d	Protection tube	0.54
		F-3-a	$\Phi 4$ Key	0.03
2.3018B	D-1000B		Main machine	37.8
		R-8-2	$\Phi 12.7\times 23\text{m}$ ($\frac{1}{2}\text{'}\times 75\text{'}$)inner-core cable	16.1
		ZHa-5	$\Phi 16\text{mm}$ drills 4 pieces	0.19
		F-7-d	Protection tube	0.54
		F-3-a	$\Phi 4$ Key	0.03





ZHa-5 $\Phi 16\text{mm}$ drills













Accessories











Sketch	Description	Catalog No	Type	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Straight Auger	2.0211	T-1-a	16	135	75	Φ16	GQ-75 GQ-100
	Bulb Auger	2.0221	T-2-a	16	100	75	Φ16	GQ-75
	Flexible Bulb Auger	2.0231	T-3-a	16	130	95	Φ16	GQ-75 D-800
	Retrieving Auger	2.0251	T-5-a	16	135	55	Φ16	GQ-75 GQ-100 D-800
	4-Blade Cutter	2.0261	T-6-a	16	35	35	Φ16	GQ-75 GQ-100
	Grease Cutter	2.0271	T-7-a	16	37	25	Φ16	GQ-75 GQ-100 D-800
	Sawtooth Cutter	2.0281	T-8-a	16	28	45	Φ16	GQ-75
	"C"-Cutter	2.0291	T-9-a	16	40	20	Φ16	GQ-75 D-800

Sketch	Description	Catalog No	Type	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Bulb Auger	2.0225	T-2-e	16	100	75	Φ12.7	D-1000
	Retrieving Auger	2.0255	T-5-e	16	135	55	Φ12.7	D-1000
	Grease Cutter	2.0275	T-7-e	16	37	25	Φ12.7	D-1000
	Sawtooth Cutter	2.0285	T-8-e	16	28	45	Φ12.7	D-1000







Sketch	Description	Catalog No	Type	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Straight Auger	2.0212	T-1-b	22	190	165	Φ22	GQ-150
	Funnel Auger	2.0242	T-4-b	22	140	165	Φ22	GQ-150
	4-Blade Cutter	2.0262	T-6-b	22	65	100	Φ22	GQ-150
	Grease Cutter	2.0272	T-7-b	22	57	60	Φ22	GQ-150

Sketch	Description	Catalog No	Type	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Straight Auger	2.0213	T-1-c	30	265	370	Φ30	GQ-200
	Funnel Auger	2.0243	T-4-c	30	195	575	Φ30	GQ-200
	Retrieving Auger	2.0253	T-5-c	30	205	365	Φ30	GQ-200
	Grease Cutter	2.0273	T-7-c	30	80	160	Φ30	GQ-200
	Sawtooth cutter	2.0283	T-8-c	30	75	270	Φ30	GQ-200
	"C"-cutter	2.0293	T-9-c	30	120	150	Φ30	GQ-200



Sketch	Description	Catalog No.	Type.	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Straight Auger	2.0214	T-1-d	22	250	360	Φ8 Bar Elastic	GQ-600
	Retrieving Auger	2.0254	T-5-d	22	250	330	Φ8 Bar Elastic	GQ-600
	Grease Cutter	2.0274	T-7-d	22	240	320	Φ8 Bar Elastic	GQ-600
	Sawtooth cutter	2.0284	T-8-d	22	250	430	Φ8 Bar Elastic	GQ-600

Sketch	Description	Catalog No.	Type.	Diameter (mm)	Length (mm)	Weight (g)	Applicable soft shaft	Applicable Type
	Bulb Auger	2.0226	T-2-f	16	70	75	Φ12.7	D-300,D-330
	Grease Cutter	2.0276	T-7-f	16	35	35	Φ12.7	D-300,D-330
	Side Cutter Blades	2.0286	T-8-f	16	50	55	Φ12.7	D-300,D-330
	"C"-Cutter	2.0296	T-9-f	16	85	55	Φ12.7	D-300,D-330



The premise of speed, efficiency and durability in pipeline cleaning is the adoption of special quality soft shafts.









 <p>Flexible soft shafts Flexible soft shafts combining drills and soft shafts have high intensity, good flexibility, they are more suitable to pass through complex pipelines like traps.</p>	 <p>Enhanced inner inner core flexible soft shafts Soft shafts enhanced with strengthened plastic inner core improve the intensity and flexibility of soft shafts, better torque transmission, bending resistance, extension resistance, and effectively prevent wastes from winding.</p>
 <p>Helical sectional elastic soft shafts Winded with quality spring steel wires, after strict heating treatment, to insure enough mechanic strength and flexibility, bending resistance, twisting resistance and ductility resistance.</p>	 <p>Enhanced strong soft shafts Heavy duty enhanced close winding soft shafts, can enhance mechanical strength and bending resistant qualities, more suitable for complex working environment and automatic feeding operations.</p>
 <p>Bar Elastic soft shafts Specially for civil projects, large pipeline facilities, large diameters, long distance, large torque, bending resistance, twisting resistance, capable of extending for any length, and more powerful.</p>	 <p>Transition connectors Adeptly connect $\Phi 22$ and $\Phi 16$ soft shafts, to use both kinds of soft shafts simultaneously. Quality features of good soft shafts</p>

Quality features of good soft shafts

 <p>Advanced anti-erosion treatment Soft shafts are treated with surface blunting and overall plating, anti-erosion</p>	 <p>The connection of soft shafts and joint locking Elastic soft shafts and joint machine are connected with an adept locking, and prevent the potential risks associated with common soft shafts. The engaging and disconnecting of soft shafts</p>
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The engaging and disconnecting of soft shafts

 <p>Transition slider slot connection The connection of soft shafts and drills is made by inserting in the slider slot direction, the connection is more reliable, easier and faster.</p>	 <p>Quick disassemble Put in the key, the connection is slid off, time and labor is saved.</p>
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Sketch.	Catalog No.	Type.	Diameter (mm)	Length (m)	Applicable (mm)	Weight (kg)
 Flexible soft shaft	2.0111-3	R-1-13	6	4.5	20-50	0.66
	2.0111-4	R-1-14		6.0		0.88
	2.0112-3	R-1-23	8	4.5	20-75	1.1
	2.0112-4	R-1-24		6.0		1.6
	2.0112-5	R-1-25		7.6		1.9
	2.0112-6	R-1-26	10	10.7	20-100	2.6
	2.0113-4	R-1-34		6.0		2.0
	2.0113-5	R-1-35		7.6		2.5
2.0113-6	R-1-36		10.7		3.5	
 Inner core flexible soft shaft	2.0122-4	R-2-24	8	6.0	32-100	1.67
	2.0122-5	R-2-25		7.6		2.12
	2.0122-6	R-2-26	10	10.7		2.97
	2.0123-5	R-2-35		7.6	2.63	
 Sectional flexible soft shaft	2.0131	R-3-1	16	2.3	32-100	0.88
 Sectional elastic soft shaft	2.0141	R-4-1	16	2.3	32-100	1.17
	2.0142	R-4-2	22	4.6	50-150	3.59
	2.0143	R-4-3	30	4.6	50-200	6.27
 Enhanced elastic soft shaft	2.0151	R-5-1	16	2.3	32-100	Special order
	2.0152	R-5-2	22		50-150	
 Bar elastic soft shaft	2.0161	R-6-1	8(22)	1.5	200-600	0.55
 Enhanced inner core cable	2.0173-7	R-7-1	10	15	32-100	6.5
	2.0173-8	R-7-2		23		9.8
	2.0173-9	R-7-3		30		12.8
 Enhanced inner core cable	2.0184-7	R-8-1	12.7	15		10.5
	2.0184-8	R-8-2		23		16.1
	2.0184-9	R-8-3		30		21.0

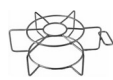


Basic Configurations of Soft Shafts

















Catalog No.	Type.	Description	Weight(kg)	Configured type
2.2111	RH1-1	F-1-f; R-3-1;R-4-1*7	10.0	GQ-75
2.2112	RH1-2	F-1-e; R-4-1*6	7.26	GQ-100
2.2113	RH1-3	F-1-f; R-3-1; R-4-1*5	6.77	GQ-150
	RH2-1	F-1-f; R-4-2*3	11.69	
2.2114	RH3-1	F-1-g; R-4-3*4	27.5	GQ-200
2.2115	RH4-1	R-6-1*30	16.5	GQ-600

Basic configurations of drills

Catalog No.	Type.	Description.	Weight(g)	Configured type
2.2211	ZHa-1	T-1-a, T-2-a, T-3-a, T-5-a, T-6-a, T-7-a, T-8-a, T-9-a	415	GQ-75
2.2212	ZHa-2	T-1-a, T-5-a, T-6-a, T-7-a	180	GQ-100
2.2213	ZHa-3	T-1-a, T-3-a, T-5-a, T-6-a	255	GQ-150
	ZHb-1	T-1-b, T-4-b, T-6-b, T-7-b	480	GQ-150
2.2214	ZHc-1	T-1-c, T-4-c, T-5-c, T-7-c, T-8-c, T-9-c	1900	GQ-200
2.2215	ZHd-1	T-1-d, T-5-d, T-7-d, T-8-d	1450	GQ-600
2.2216	ZHa-4	T-3-a, T-5-a, T-7-a, T-9-a	180	D-800
2.2217	ZHa-5	T-3-e, T-5-e, T-7-e, T-8-e	190	D-1000
2.2218	ZHa-6	T-2-f, T-7-f, T-8-f, T-9-f	220	D-300, D-330

 <p><i>Straight Auger</i> Used to detect blockages or remove them, usually in the first work stage.</p>	 <p><i>Bulb Auger</i> Used in inserting through complex structures in pipelines with soft shafts, and remove the blockages. They have good</p>	 <p><i>Flexible Bulb Auger</i> Used in pipelines difficult to clean, with good flexibility, and good introducing functions.</p>	 <p><i>Funnel Auger</i> Used in the second stage of cleaning, capable of removing blockages on the inner surface of the pipes left over by straight helical drills.</p>
 <p><i>Retrieving Auger</i> Used to bring back soft shafts or drills left in pipes, and clean blockages caused by weaving materials.</p>	 <p><i>4-Blade Cutter</i> High intensity, used for removing hard materials such as chemical deposits.</p>	 <p><i>Grease Cutter</i> Clean grease and deposits on inner surface of pipelines.</p>	 <p><i>Sawtooth Cutter</i> Used to remove blockages caused by roots, branches, debris or grease on pipeline walls.</p>
 <p><i>"C"-Cutter</i> Used to clean usual items such as grease, soap on pipeline walls.</p>	 <p><i>"C"-Cutter</i> Used to clean usual items such as grease, soap on pipeline walls.</p>	 <p><i>Sawtooth Cutter</i> Used to remove blockages caused by roots, branches, debris or grease on pipeline walls.</p>	 <p><i>With Drop Head Cutter</i> Specially desinged to traverse tough traps.</p>

Sketch	Catalog No.	Type.	Description(mm)	weight(kg)	ApplicableType
	2.0315	F-1-e	Φ360mm soft shaft holder	0.6	GQ-100
	2.0316	F-1-f	Φ430mm soft shaft holder	1.0	GQ-75 GQ-150
	2.0317	F-1-g	Φ500mm soft shaft holder	3.1	GQ-200
	2.0318	F-1-h	Frame	3.0	D-70
	2.0321	F-2-a	Φ8mm*5m soft shaft combination	3.2	GQ-75
	2.0322	F-2-b	Φ8mm*5m soft shaft combination	3.30	GQ-150 D-150

Sketch	Catalog No.	Type.	Description(mm)	weight(kg)	ApplicableType
	2.0511	Z-1-a	16mm , 22mm cable adaptor	0.42	D-200A D-200-1A
	2.0362	F-6-a	Toolbox	3.8	D-50B D-50ZB D-60 D-60Z
	2.0371	F-7-a	Protection tube	0.86	GQ-75
	2.0373	F-7-c	Protection tube	1.12	GQ-150 D-150
	2.0372	F-7-b	Protection tube	1.50	GQ-200
	2.0374	F-7-d	Protection tube	0.54	D-800 D-1000
	2.0381	F-8-a	Fixing blocks	0.17	GQ-75
	2.0382	F-8-b	Fixing blocks	0.21	GQ-100
	2.0383	F-8-c	Fixing blocks	0.32	GQ-150
	2.0384	F-8-d	Clutch brakes	0.36	GQ-200
	2.0392	F-9-b	Bumper	2.13	GQ-600
	2.0393	F-9-c	Auto-feed device	0.50	D-50ZB D-60Z
	2.0393-A	F-9-c	Auto-feed device	0.78	D-50ZB-1 D-60Z-1
	2.0393-B	F-9-J	Auto-feed device	1.78	D-800 D-1000
	2.0395	F-9-e	Air release extension pipe	0.26	GQ-4
	2.0396-1	F-9-f	Connector	0.18	GQ-4
	2.0396-2	F-9-f	Adaptor	0.68	GQ-4
	2.0331	F-3-a	Φ4 Key	0.03	GQ-75 GQ-100 GQ-150 D-800
	2.0332	F-3-b	Φ5.5 Key	0.04	GQ-150 D-150 GQ-200 D-200



BEIJING NEW ASIA DALI MACHINERY CO.,LTD
NO.9 YONGCHANG NANLU BDA BEIJING CHINA
100176

<http://www.dalitools.com.cn>
E-mail:dali@dalitools.com.cn
bjdali@dalitools.com.cn
Tel:0086-10-67802061 84117545
Fax:0086-10-67802061