



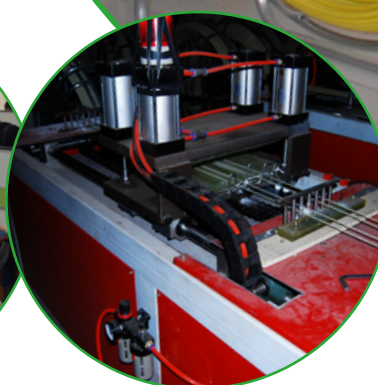
YUANBO ENGINEERING CO., LTD.

Duct Rodder



About us

Yuanbo Engineering Co., Ltd. located in Hengshui city, Hebei province, China, specializes in manufacturing duct rodder for more than 10 years. Our technology is following the world most advanced technology. Our workers is skillful and conscientious and our sales team can speak English fluently and have good knowledge of the producing process and products. The goods will be checked carefully by our professional inspector before delivering to the customers. Our after-sales service is also firstclass. If you have any question about the products, we will try our best to solve it. With high quality products and considerate service, we win the trust of customers in Peru, India, Saudi Arabic and so on.



Duct rodder, also called fiberglass duct rodder, is a powerful auxiliary tool used for rope traction in the pipe. Smooth and flexible surface of the duct rodder can easily make the rope or cable pass through the narrow channel. And according to the construction, the duct rodder can be divided into fiberglass duct rodder and traceable duct rodder.

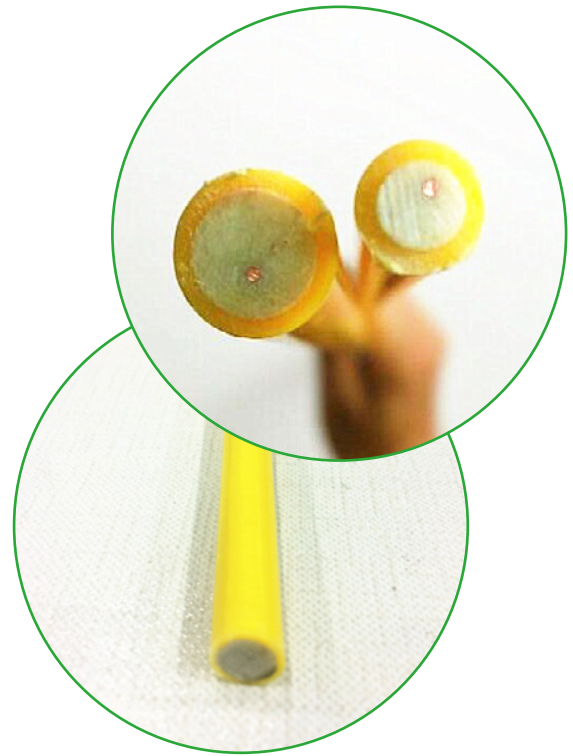
According to the movement type, it can also can be divided into duct rodder with wheel and portable duct rodder.

Fiberglass duct rodder, an excellent auxiliary tool, is commonly used in track construction where cable and electric wire is hard to be pulled into cable, pipes and conduits.



Fiberglass duct rodder

Fiberglass duct rodder is mainly composed of core rod and reinforcement outer layer. The rod is made of alkali free fiberglass by the pultrusion process which features strong toughness, big pulling force, break resistant and aging resistant. The outer layer is made of highly durable, scratch resistant polyethylene which can protect the core from mechanical damage. In addition, we can also produce duct rodder with metal wire in fiberglass rod. This kind of duct rodder is also called traceable duct rodder or detectable duct rodder. With a piece of copper wire or steel wire, duct rodder can be traceable easily in pipes. After the producing of the fiberglass rod, we will install detachable cooper head on two sides of the rod which will draw the rope in pipe or conduits. Available with rod grapple, you can use it for replacing the detachable copper head when the conduit is plugged by sand, soil or other things. What's more, each duct rodder will come with a sturdy steel frame with different sizes according to the diameter and length of the rod. And according to the customers' special requirements, the duct rodders also can be equipped with hand operated breaks or wheels.



Suitable conduit diameter

Item	Rod diameter (mm)	Conduit diameter (mm)
FGDR-01	4	10-30
FGDR-02	5	20-32
FGDR-03	6	25-76
FGDR-04	7	30-80
FGDR-05	8	40-90
FGDR-06	9	50-120
FGDR-07	10	75-140
FGDR-08	11	76-150
FGDR-09	12	76-160
FGDR-10	13	76-170
FGDR-11	14	76-190
FGDR-12	15	76-200
FGDR-13	16	> 100



Detachable copper head on two sides of the fiberglass rod.

Rod diameter: 3-16 mm.

Copper/steel wire diameter: 0.1-1 mm.

ABS coating thickness: 1.5 mm or customized.

Rod length: 50-600 m.

Color: yellow, white, red, orange, blue, green, black.

Working temperature: -40 °C to +80 °C
(-40 °F to 176 °F).

Minimum bend radius: 102 mm for 4 mm rod diameter.

Max pull strength: 4.5 ton for 16 mm diameter rod.

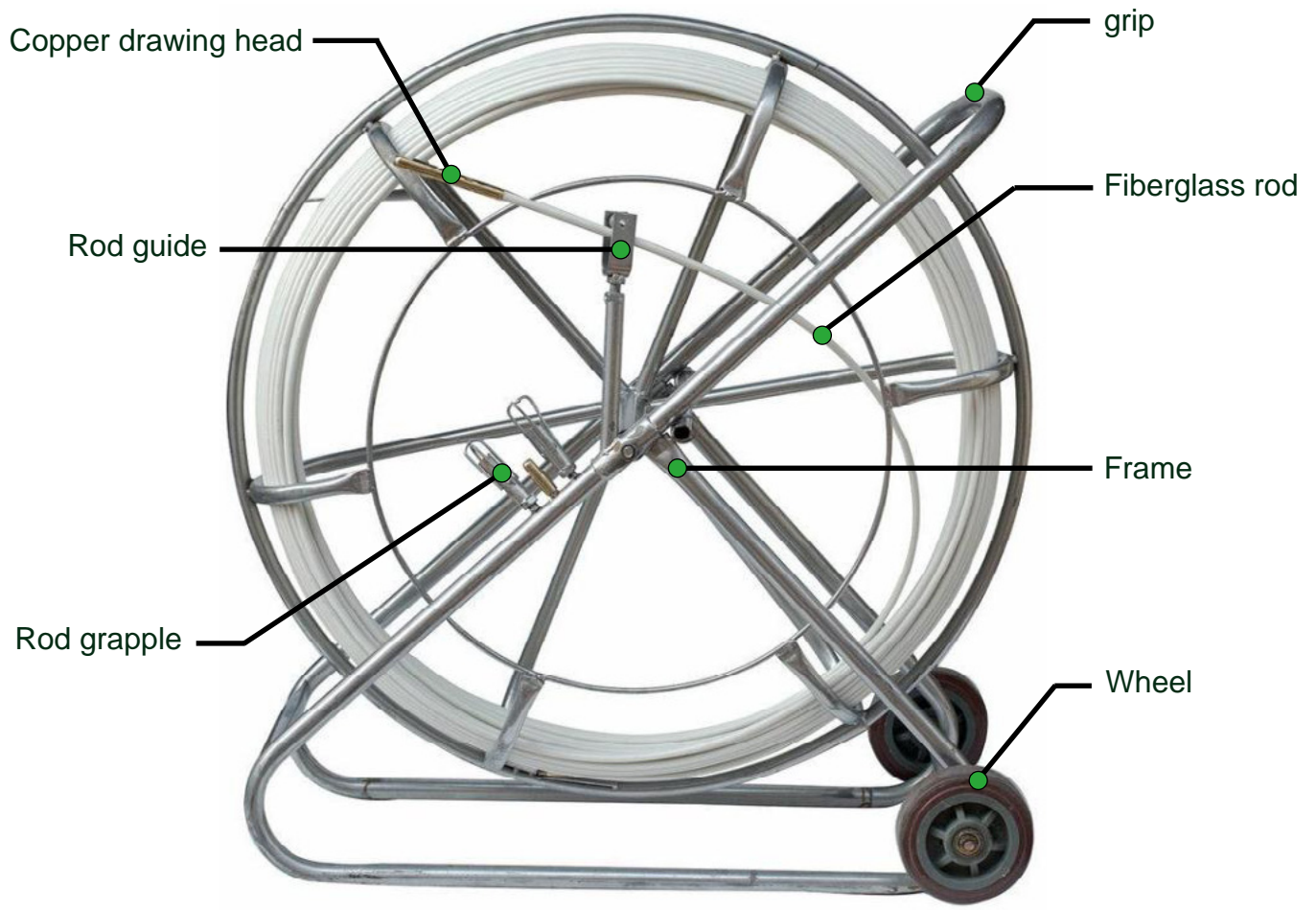
Package: plastic wrap, carton or wooden case.



Duct rodder frame

Duct rodder frame, used to place, push and draw back the fiberglass rod, commonly is composed of six components: fiberglass rod, copper head, rod guide, rod grapple, grip, steel frame. The welded frame, made of high quality steel, is strong enough to withstand the weight of the fiberglass rod. With powder coated or galvanized, the frame is rust resistant and corrosion resistant. At the same time, duct rodder

with different color available can suit customers' various requirements. With the help of frame, the duct rodder is more easier to move at the job site. In addition, duct rodder with hand operated brake and rubber wheel also available. Generally, the medium sized duct rodder will be equipped with polyurethane wheels and large sized duct rodder will be equipped with rubber wheel.





Duct rodder frame

Specification

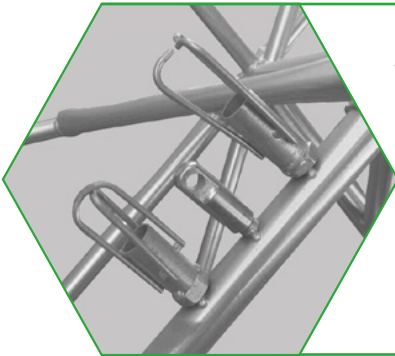
Frame diameter (mm): 400, 500, 800, 1000, 1100, 1200, 1300, 1400, etc.

Finish: galvanized, powder coated.

Color: silver, green, red, black, blue.

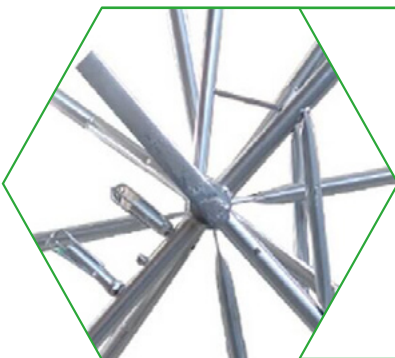
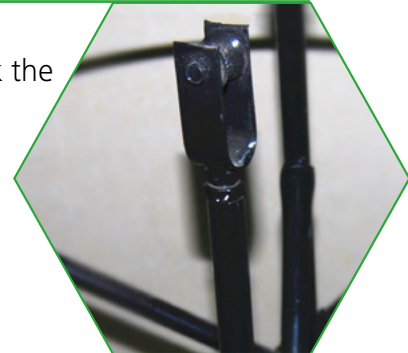
Wheel: solid rubber wheel, polyurethane wheel, or no wheel.

Special equipment: some with hand brake or wheels.



The duct rodder is also equipped with the rod grapple on the steel frame. Rod grapple set on the end of the rod is commonly used to pass through the conduit when the conduit is plugged by sand, soil or other things.

Rod guide of the duct rodder is used to push and draw back the fiberglass rod. The fiberglass rod can easily pass through the rod guide avoiding unnecessary friction and wear. At the same time, we can also produce the rod guide with double pulley to satisfy your diversified demands.



Duct rodder frame can be equipped with a hand brake to help it stop. A light adjustable brake prevents the rod from reeling out of the basket under its own tension.

Our solid rubber wheel is strong enough to hold more than 1 ton weight rod. The wheels can help the duct rodder move easily at the job site, which will save energy of the workers. The solid rubber wheel is heavier than the common pneumatic wheel, but the solid rubber wheel is more strong and durable in the tough job site environment.



Portable duct rodder

Duct rodder without rubber wheels is also called portable duct rodder which applied for rod diameter less than 10 mm. Portable duct rodder shows good performance in wire or cable pulling in pipes, conduits or ducts. Without wheels, it is easy to carry or put in the boot of the car.



Portable Duct Rodder Specification

Item	Rod diameter (mm)	Bend radius (mm)	Rod length (m)	Conduit diameter (mm)	Frame size (cm)
PDR-4	4	100	50-300	10-30	40 × 50 × 16, 84 × 94 × 50, 109 × 112 × 50
PDR-5	5	100	50-300	20-32	45 × 50 × 16, 60 × 75 × 17
PDR-6	6	100	90-300	25-76	71 × 81 × 24, 61 × 72 × 28
PDR-8	8	150	150-350	40-90	110 × 120 × 40
PDR-10	10	178	90-365	75-140	71 × 81 × 33, 87 × 92 × 40, 120 × 130 × 45



Wheeled duct rodder

Duct rodder with rubber wheels, is also called wheeled duct rodder. Wheeled duct rodder performs obviously advantage over portable duct rodder when the conduit or pipe is very long or complicated. With a rubber wheel on the steel frame, duct rodder is easier to transport at the working condition. Different from portable duct rodder, wheeled duct rodder is often manufactured with rod diameter changing from 11 mm to 16 mm.

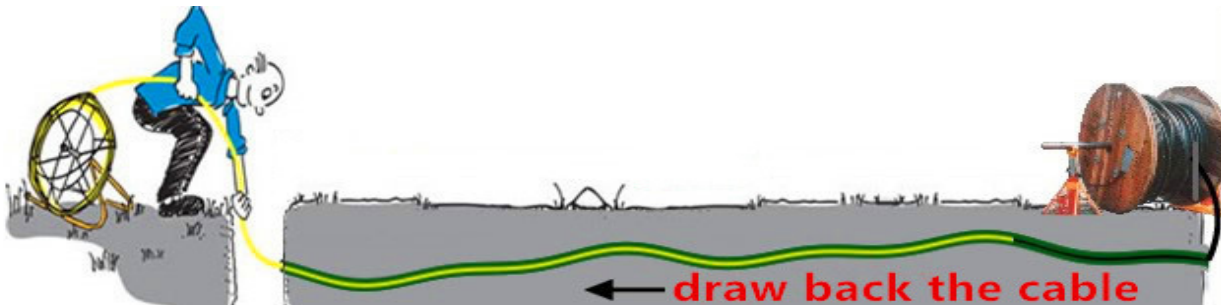
Wheeled Duct Rodder Specification

Item	Rod diameter (mm)	Bend radius (mm)	Rod length (m)	Conduit diameter (mm)	Frame size (cm)
WDR-11	11	390	150-300	76-150	120 × 126 × 40, 100 × 120 × 45
WDR-12	12	450	150-300	76-160	120 × 126 × 40, 120 × 130 × 45
WDR-13	13	500	150-300	76-170	130 × 136 × 55
WDR-14	14	550	150-300	76-190	130 × 136 × 55
WDR-15	15	600	150-500	76-200	150 × 160 × 55
WDR-16	16	650	150-500	≥ 100	150 × 160 × 55



How to correctly use the conduct rodder ?

1. We choose the right duct rodder according to the conduit diameter and the complexity of the construction.
2. We put the fiberglass rod on the rod guide and then push the rod out of the steel frame into the relevant pipe or conduit, until the rod reaching the other side.
3. We fix the cable or electric wire on the copper head tightly, then drawing the rod. At this time, the cable or electric wire will reach the right position.
4. We should place the fiberglass rod on the right position and store the duct rodder in a shady place.



Notice

- The copper drawing head should be well protected, avoiding breaking off.
- When contracting the fiberglass rod, the other end of the rod should be fixed tightly in the ring of the steel frame.
- Fiberglass duct rodder is tough enough but a little brittle, thus, when using, you should maintain it in its minimum bending radius.
- Fiberglass duct rodder can withstand the temperature ranging from $-40\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$. So during the process of the construction, the duct rodder should avoid touching subcooled or overheated objects or environments. After using, the duct rodder should be placed in a cool place, avoiding long time exposure to sunlight and rain.
- The traction force of the duct rodder is relevant to the rod diameter, so you should not use the high power machine for traction, otherwise the rod may be broken. In addition, it should also avoid rolling of the vehicles or other heavy objects, otherwise, the service life of the duct rodder will be shortened.
- During construction of large cable, you can use the duct rodder for drawing a piece of steel rope, then using the rope drawing the cable. In this way, the service life of the duct rodder will be greatly improved. In addition, you can use various kinds of pulley for improving the working efficiency.

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