

# Assured Quality at Factory Prices — Count on Us



## PRODUCT CATALOG

# Concrete Pump Pipe & Parts

Straight pipe · twin-wall and wear-resistant pipe · elbows · rubber end hoses · couplings and clamps  
· cleaning balls, pistons and grease

- Pipe DN80–DN150, standard 3 m lengths, wall 4.5–8.0 mm
- Materials ST52, 45Mn2, 55Mn, 37Mn5, 20# steel Wear layer above HRC60 · service life 3–5× ordinary pipe
- Elbows 10°–90°, radius R275 / R281 / R285 / R180
- Hoses DN125 × 3 m or 4 m, –40°C to +85°C
- For Putzmeister, Schwing, Zoomlion, Sany, XCMG, Doosan and IHI pumps



## HEBEI RENLONG PIPE FITTINGS CO., LTD.

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## Company Profile

Hebei Renlong Pipe Fittings Co., Ltd. manufactures and exports concrete pump pipe and spare parts for concrete pump trucks and placing booms: straight pipe, twin-wall and wear-resistant pipe, elbows and bends, rubber end hoses, couplings and clamps, cleaning sponge balls, rubber pistons, lithium grease and weld-on collar flanges.

The products are made for the equipment used every day on building sites: Putzmeister, Schwing, Zoomlion, Sany, XCMG, Doosan, IHI, CIFA, Junjin, Everdigm, Kyokuto and Yutong pumps. Wear parts are produced from 45Mn2, 55Mn, 37Mn5 and ST52 material, with quenched wear layers where the concrete is most abrasive.

Our factory is in Yanshan County, Cangzhou City, Hebei Province, close to Tianjin and the Xingang International Port, and our quality management follows ISO 9001-registered processes with material certificates in accordance with EN 10204 3.1. We ship to Europe, the Middle East, Southeast Asia and Africa, including Algeria, Tunisia and Morocco.

**Product line:** concrete pump pipe and parts — straight pipe, twin-wall and wear-resistant pipe, elbows and bends, rubber end hoses, couplings, clamps, weld-on collar flanges, cleaning balls, pistons and grease.

**Sizes:** DN80, DN100, DN125 and DN150; standard 3 m lengths; wall thickness 4.5–8.0 mm.

**Materials:** ST52, 45Mn2, 55Mn, 37Mn5, 20# steel; wear-resistant layer above HRC60.

**Brands served:** Putzmeister, Schwing, Zoomlion, Sany, XCMG, Doosan, IHI, CIFA, Junjin, Everdigm.

**Registered capital:** USD 2.5 million | business licence, export licence and bank certificate available on request.

### Why Renlong

- Wear life 3–5 times that of ordinary pump pipe.
- End types SK, M/F and ZX to match the main pump brands.
- ISO 9001 quality management, EN 10204 3.1 certificates.
- Pipe, elbows, hoses, clamps and spares from one supplier.
- Free quotation within 2 working hours.
- Export packing and documentation for sea freight worldwide.



## Product Range



### Straight pipe

3 m lengths, 2"-6",  
hardened and non-  
hardened



### Wear-resistant pipe

Twin-wall and quenched  
wear layer



### Elbows & bends

10°-90°, DN100-DN150



### Rubber end hoses

DN125 × 3 m / 4 m, wire  
braided



### Clamps & couplings

Forged and cast, with  
rubber gasket



### Cleaning balls

DN80, DN100, DN125,  
DN150



### Rubber pistons

Single and multi-layer



### Lithium grease

00# and 000# semi-fluid

## What the range covers

- **Pipe:** straight pipe, single wall, twin wall, wear-resistant and hardened pipe, boom pipe and deck pipe.
- **Elbows:** 10°, 15°, 20°, 30°, 45°, 60° and 90°; radius R275, R281, R285, R180; single wall, twin wall, flange and hinge elbows.
- **Hoses:** rubber end hoses, wire-braided hoses and flanged hoses for the end of the placing boom.
- **Accessories:** couplings and clamps, weld-on collar flanges, cleaning sponge balls, rubber pistons and lithium grease.

## Related product line

Butt-welding fittings, industrial flanges and steel pipe for plant and pipeline use are covered in a separate catalog: *Steel Pipe, Fittings & Flanges*.

## Straight Pipe

Concrete pump pipe in standard 3 m lengths, from 2" to 6", hardened and non-hardened, supplied with heavy-duty fittings.



- End types SK, M/F and ZX available on request for Doosan, Schwing, Putzmeister, Sany, Zoomlion, IHI and XCMG pumps.
- Truck pipe material is mainly 45Mn2; boom pipe is usually 20# steel. Other materials available: ST52, 55Mn2, 37Mn5 and 45#.
- The low-pressure 125 type has a 133 mm outside diameter (140 mm for the high-pressure type); the 150 type is 159 mm (168 mm high pressure).

### Straight pipe parameters (DN125)

| Name                     | Size  | Wall thickness (mm)          | Pipe length (m) | Working pressure            |
|--------------------------|-------|------------------------------|-----------------|-----------------------------|
| ST52 seamless steel pipe | DN125 | 4.5 / 5.0 / 6.0 / 7.75 / 8.0 | 3               | 85 bar                      |
| Schwing M/F pipe         | DN125 | 4.5 / 5.0 / 6.0 / 7.8        | 3               | 130 bar (200 bar at 7.8 mm) |
| Putzmeister ZX pipe      | DN125 | 4.5 / 5.0 / 6.0 / 7.8        | 3               | 130 bar (200 bar at 7.8 mm) |
| Single wall pipe         | DN125 | 4.5 / 5.0 / 6.0 / 8.0        | 3               | 85 bar                      |
| Twin wall pipe           | DN125 | 4.5 / 5.0 / 6.0 / 8.0        | 3               | 85 bar                      |

Other diameters and lengths are produced to order; tell us the pump model and the pipeline layout and we will confirm the pipe, wall thickness and end type.



## Twin-Wall & Wear-Resistant Pipe

For abrasive concrete, long pumping distances and high-rise work, where ordinary pipe wears out quickly.



### Construction

- Alloy steel pipe, welded and then quenched at high temperature, forming a **2.0 mm wear-resistant inner layer** with a hardness above **HRC60**.
- Both ends are welded with a standard 125A flange, hardness above 60.
- Single-layer high wear-resistant hardened straight pipe: material 45Mn2 / 55Mn alloy structural steel.

### Wear life and selection

- Service life is **3–5 times** that of ordinary pump pipe, which reduces the number of pipe changes and the cost per cubic metre pumped.
- The most common materials are 45Mn and 55Mn; the concrete transport capacity of 45Mn pipe is above 20,000 m<sup>3</sup>. The 55Mn material works better and is priced higher.
- Wall thickness 4.5 mm for pump trucks below 40 m; above 40 m use 4.8 mm.

### Where it is used

- High-rise buildings and long horizontal runs on the pump truck.
- Boom (placing boom) pipe, where weight and wear both matter.
- Concrete with crushed aggregate, where the abrasive wear is highest.

## Elbows & Bends

Wear-resistant elbows and bends for concrete pump trucks, placing booms and distributing machines, in the angles and radii used by the main pump brands.



### Dimensions

- Size: DN100, DN125, DN150 and others
- Radius: R275, R281, R285, R180 and others
- Degree: 10°, 15°, 20°, 30°, 45°, 60°, 90°

### Materials and types

- Carbon steel elbows, high wear-resistant elbows and other material on request
- Cast manganese and alloy cast iron options
- Single wall, twin wall, flange elbow and hinge elbow

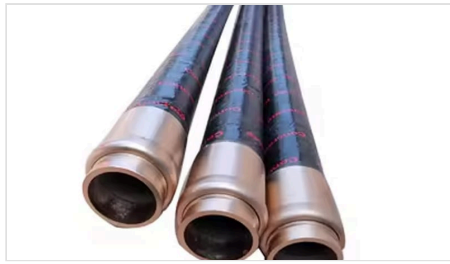
### Ordering

- A wide range of specifications is available, and **OEM service** is offered for own-brand and private-label parts.
- Quality certification: ISO 9001.
- Brands served: Schwing, Putzmeister, CIFA, Zoomlion, Sany, Kyokuto and others.

### Hinge elbow

The hinge elbow connects two pipe sections at an angle and allows the pipeline to be adjusted on site — useful where space is restricted and the concrete line has to be routed around obstacles. Regular inspection of the hinge and lubrication of the mechanism keep it working smoothly.

## Hoses, Couplings & Clamps



### Rubber end hoses

- Designed for end-to-end connection on concrete pump trucks and placing booms; suited to pumping concrete in construction machinery.
- Working temperature  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ; features environmental friendliness, high-pressure resistance, excellent wear resistance and long-lasting durability.
- Inner diameter to customer specification, typically **DN125 × 4 m** or **DN125 × 3 m**. Multi-layer wire-braided hoses with flanged ends (5", 148 flange) are also available.
- The hose allows flexible adjustment of the pouring position, and small pours can be placed by swinging the hose by hand.



### Couplings, clamps and weld-on collar flanges

- Also called concrete clamp, coupling, hose clamp, pipe clamp or joint clamp; always used together with a rubber gasket.
- **Forged clamps** are heavy duty, with a working pressure of not less than **130 bar**; **cast clamps** are more widely used and come in different pressure ratings by material and process.
- Supplied in the sizes and shapes that match the flange dimensions of Schwing, Putzmeister, CIFA, Sany, Zoomlion and other brands.
- **Weld-on collar flange** (5.5" and other sizes): high-quality steel, raised face and pre-drilled bolt holes, welded directly onto the pipe for a permanent, leak-proof connection that can still be unbolted for maintenance.

## Cleaning Balls, Pistons & Grease



### Cleaning sponge balls — DN80, DN100, DN125, DN150

- Made of natural rubber with foaming agent and special additives: strong water absorption, soft texture, good abrasion and ageing resistance, stable chemical properties.
- DN80 for smaller pipes, DN100 for routine maintenance, DN125 for general cleaning, DN150 for heavy-duty removal of thick sludge.
- Used in wastewater treatment, food and beverage, chemical processing, oil and gas, and HVAC pipelines, and for cleaning the concrete delivery line after pouring.

### Rubber pistons

- Single-layer and multi-layer pistons in high-quality rubber compounds, sized to the pump cylinder; the piston seals the cylinder and pushes the concrete through the delivery line.
- Regular inspection is essential: replace the piston at the first sign of cracking, tearing or deformation, and keep the cylinder clean.

### Concrete pump truck grease

- Extreme-pressure complex lithium-based grease, grades **00#** and **000#** semi-fluid.
- Good lubricity, mechanical and oxidation stability, water resistance and rust protection; working range generally  $-20^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ .
- For bearings, gears, chains, bushings and pins of concrete pump trucks, placing booms and distributing machines.



## Quality Commitment

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At Renlong we strive to satisfy our customers' needs as they define them and to achieve their expectations while delivering value, using ISO 9001:2008-registered processes to coordinate the activities that direct and control the performance of our organisation.

Our quality assurance team, together with our sales staff, reviews every material and customer specification at the quotation stage — pipe diameter, wall thickness, end type and wear layer — so that the parts fit the pump as soon as the customer receives them.

A quality documentation package accompanies every shipment, including a manufacturer's certified material test report in accordance with EN 10204 3.1. There are no short cuts when it comes to quality: in compliance the first time, every time.

### What this means for pump parts

- Wear layer hardness and thickness checked on the quenched pipe and elbows.
- Dimensions and flange/end dimensions checked against the pump model before packing.
- Third-party testing assigned by the customer is welcome.
- Spare-part selection advice: we help match pipe, elbow, clamp and hose to your pump and pipeline.



## Applications

Concrete pump pipe and parts for concrete pump trucks, placing booms and distributing machines, on building sites, bridges, tunnels and water conservancy works.

- High-rise building construction — vertical and horizontal pipe runs, high pumping pressure
- Bridge construction — piers and deck pouring, complex pipeline layouts
- Tunnel and metro works — long delivery lines, high wear
- Water conservancy projects — dams and sluices, large concrete volumes
- Road, airport and port construction
- Industrial plants, warehouses and chimneys

### Typical service conditions

| Application               | Recommended pipe                     | Why                                                             |
|---------------------------|--------------------------------------|-----------------------------------------------------------------|
| High-rise, over 40 m      | Wear-resistant pipe, 4.8 mm wall     | Higher pumping pressure and abrasion; 4.5 mm is used below 40 m |
| Long horizontal runs      | Twin-wall or wear-resistant pipe     | Service life 3–5 times that of ordinary pipe                    |
| Boom / placing boom       | Boom pipe in 20# steel, lighter wall | Weight on the boom matters as much as wear                      |
| Aggregate concrete        | 45Mn / 55Mn quenched pipe and elbows | Wear layer above HRC60 resists crushed aggregate                |
| Frequent pipeline changes | Forged clamps, $\geq 130$ bar        | Heavy-duty couplings for repeated assembly on site              |

Tell us the pump model, delivery distance, height and concrete mix and we will recommend the pipe, wall thickness and elbow material for the job.

## Licences & Certificates

- Business licence (registered capital USD 2.5 million)
- Export licence
- Bank certificate
- CE certificate
- ISO 9001 certificate
- Credit certificate

Copies of the certificates are available on request, and every shipment is accompanied by the material documentation for the order.



ISO 9001 certificate



CE certificate



Business licence



Export licence



Bank certificate



Credit certificate

## Contact Us

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Welcome to China. It will be our great pleasure to have you visit our plant for product research and business discussions. We provide pick-up service at Beijing Capital International Airport and Tianjin Binhai International Airport. Please feel free to contact us.

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Please contact us for a free quotation within 2  
working hours.

**Materials · quantities** are all we need to quote.

# MANUFACTURER