



Rebar Couplers



Heng Xiang Rebar Connection Equipment Factory

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Catalogue



1. About us



2. Product Category



3. Product Specification



4. Partners



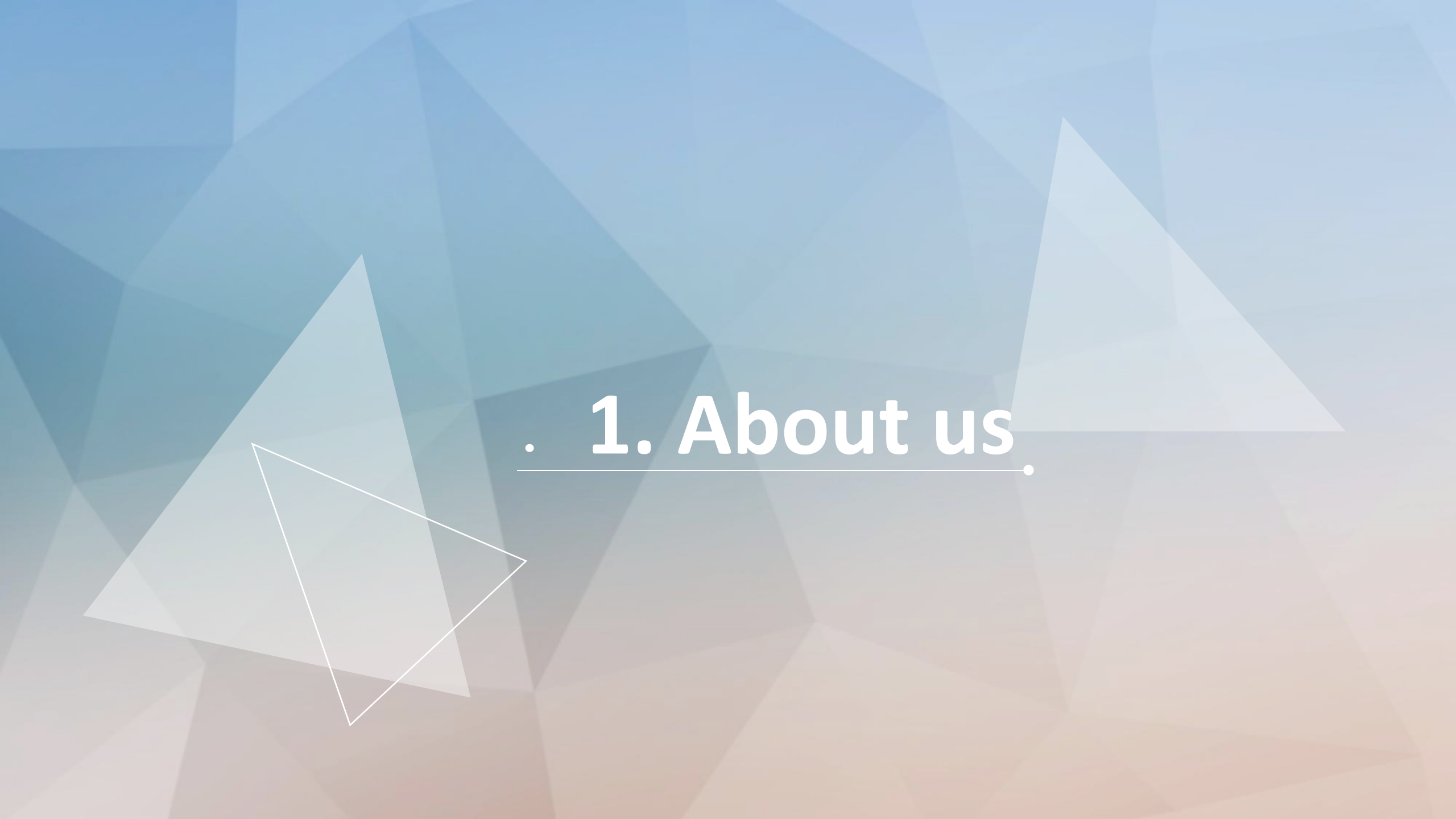
5. Product Packing



6. Product Transportation



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. 1. About us.

Heart-to-heart business, win-win cooperation

Company Introduction

Since 2010, Heng Xiang Rebar Connection Equipment Factory was born and managed to become the leading manufacturer of Rebar Couplers and Rebar Mechanical Splicing Machinery with design, R & D, production, sales and service.

Today it is a thriving company with sustained growth of its people and constant commitment to technology. Based on professional engineering team and advanced technology, we are able to provide professional solutions to satisfy different customers. Our products are very popular with over 40% China's market share and already have been exported to USA, UK, Japan, Korea, India, Russia, Cambodia etc. more than 30 countries all over the world.

Heng Xiang Rebar Connection Equipment Factory is engaged to improve products quality to produce brand products with operating philosophy: superior quality, real price, credit business and honest personnel to satisfy our new and old customers for mutual benefit.

Heng Xiang Sketch



Test
Experiment



2. Product Category

Rebar Couplers

Parallel Thread Rebar
Couplers

Cold Extrusion Rebar
Couplers

Grout Filled Rebar
Couplers



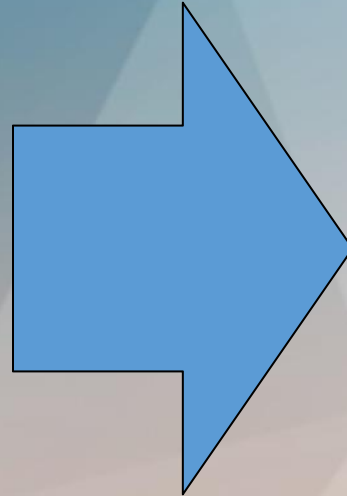
3. Product Specification.



Product Specification

1. Parallel Thread Rebar Couplers

Steel sleeve used for rebar mechanical joint to carry tension and pressure in rebar axial direction



Material & Usage



45# Carbon Steel
Pipe

Material



Parallel Thread
Rebar Couplers

Rebar diameter
to be connected



$\Phi 12-\Phi 40\text{mm}$

Product Specification & Mechanical Specification

Product Specification:

Rebar Couplers types: Standard Type, Left-handed and Right handed Type, Reducing Type, which is able to meet the requirement of rebar mechanical splicing in direction of horizontal, vertical, oblique for same and different diameter rebar with adjustable length.

Mechanical Specification:

The ultimate tensile bearing capacity standard value of the straight thread rebar couplers should not be less than 1.10 times of that of ultimate bearing capacity of the connected steel bar. The yield bearing capacity standard value shall not be less than that of the yield bearing capacity of the connected steel bars.

Item	Performance Index
Yield Strength (Mpa)	205-350
Tension Strength (Mpa)	335-500
Elongation after fracture (δ_s / %)	≥ 20

Parallel Thread Rebar Couplers Size

Size	Length (mm)	Outer diameter (mm)	Inner diameter (mm)	Thread Pitch	Thread angel (mm)
Φ12	35	19		75° / 60°	2.0
Φ14	35	21			2.5
Φ16	40	24	14.7		
Φ18	45	27	16.5		
Φ20	50	31	18.5		
Φ22	55	33	20.5		
Φ25	60	37	23.5		3.0
Φ28	65	41	26.3		
Φ32	75	47	30.3		
Φ36	85	53	34.5		
Φ40	90	58	37.5		

Parallel Thread Rebar Couplers Engineering Projects

Engineering Projects



High Speed Train



Tunnel System



Urban Construction

Parallel Thread Rebar Couplers Construction Projects

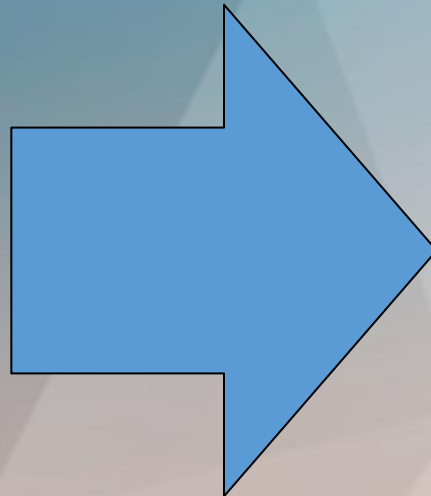
Construction Projects



Product Specification

2. Cold Extrusion Rebar Couplers

To connect two bars ends with special sleeve, then to press the special sleeve by hydraulic machine to form nicks, it is a kind of connection way upon the mechanical interaction force.



Material & Usage



20# Carbon
Steel Pipe

Material



Cold Extrusion
Rebar Couplers

Rebar diameter
to be connected



Φ14-Φ40mm

Product Specification & Mechanical Specification

Product Specification:

Can extrude rebar with same and different diameter $\Phi 16\text{-}\Phi 40$ mm in direction of vertical, horizontal and oblique, suitable for high-rise frame construction, tunnels, bridges and other large projects

Mechanical Specification:

The ultimate tensile bearing capacity standard value of the cold extrusion rebar couplers should not be less than 1.10 times of that of ultimate bearing capacity of the connected steel bar. The yield bearing capacity standard value shall not be less than that of the yield bearing capacity of the connected steel bars.

Item	Performance Index
Yield Strength (Mpa)	205-350
Tension Strength (Mpa)	335-500
Elongation after fracture ($\delta_s/\%$)	≥ 20

Working principle and Mechanism

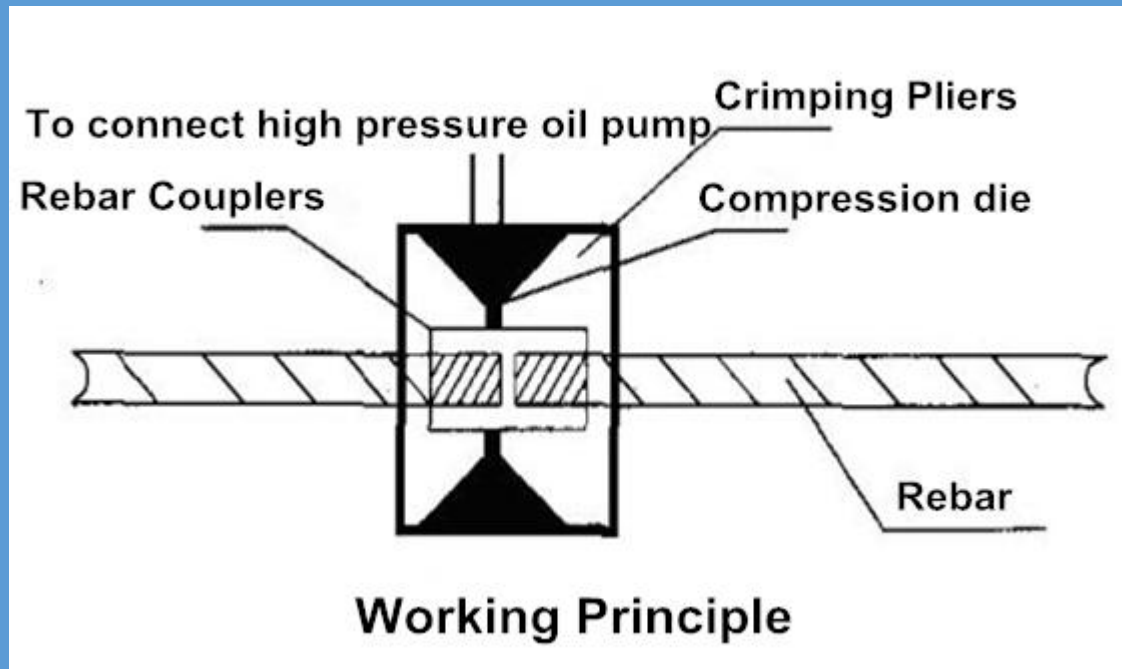
Cold Extrusion Press Machine for Rebar Couplers is composed of compression joint device, ultra-high pressure pump station, ultra-high pressure hose etc.

To connect different diameter bars with different types of dies and compression joint device.

Put rebar couplers with two rebar ends inside into compression joint device, which is connected with ultra-high pressure pump, start ultra-high pressure pump, press rebar couplers via compression joint device to achieve the purpose to connect two rebar ends.

Working Principle

Schematic Diagram of Working Principle



Cold Extrusion Rebar Couplers Size

Size	Length (mm)	Outer Diameter (mm)	Thickness (mm)
Φ14	85	28	4.5
Φ16	100	30	4.5
Φ18	118	34	5.7
Φ20	120	36	6
Φ22	132	40	6.8
Φ25	150	45	7.5
Φ28	168	50	8
Φ32	192	55	9
Φ36	216	63	10
Φ40	240	70	11

Cold Extrusion Rebar Couplers Engineering Case

Engineering Case



High Speed Train



Tunnel System



Urban Construction

Cold Extrusion Rebar Couplers Construction Projects

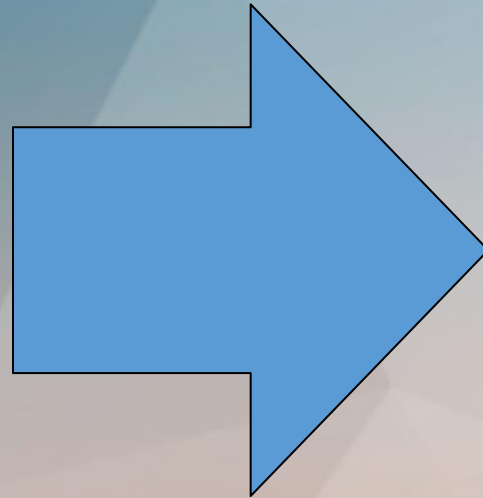
Construction Projects



Product Specification

3. Grout Filled Rebar Couplers

Adopting casting processing or mechanical processing technology to connect two rebar ends via grout filled rebar couplers.



Grout Filled Rebar Couplers Specification

Technology authority - high strength joints can be up to 100% steel tensile, compressive strength. Current industry standard " Technical specification for application of grout filled rebar couplers connection " JGJ355, "Grout filled rebar couplers for rebar connection" JG/T398 "Rebar couplers grouting material" JG/T308, Chinese Standard (JGJ107), American Standard (ACI318, ACI349), British Standard (BS8110), French Standard (NF35-20-1), German Standard (DIN1045) , ISO15835 and other relevant domestic and foreign standards

Item	Performance Index
Yield Strength (Mpa)	205-350
Tensile Strength (Mpa)	335-500
Elongation after fracture ($\delta_s/\%$)	≥ 20

Products Advantages:

1. **Stable performance** – Adopting grouting filled way, no impose any external force and heat then shall not cause any expansion and contraction or residual stress for the rebar;
2. **Good applicability** - Applicable to all prefabricated walls, columns, beams of rebar connections; Applicable to wide range of rebar with diameter 12mm ~ 40mm, also applicable to different grades, different surface and different diameter rebar connection;
3. **Energy-saving and consumption reduction** - Assembly concrete structure is characterized by design standardization and component parts. To transform site construction into site assembling, effectively ensured the quality of the project and realized the green construction purpose. Grouting connection technology provides strong support for the development of prefabricated assembly structure;
4. **Easy installation** - The lifting of components and the connection of rebar operation is separated, that is to say, first lifting, then inject grouting material, no need to keep components hanging for a long time, low construction difficulty and high efficiency; Due to the gap of 10 mm to 15 mm between inner surface of rebar couplers and the surface of the rebar, so it is easy to absorb the position deviation and the assembling error about the component manufacturing for high assembling success rate.

Product Usage:

Product Usage - Rebar connection in Prefabricated Concrete Structure

1. Steel bar connection with after concrete pouring
2. Reinforced cages connection
3. Reinforced mesh connection
4. Cut off steel bar connection in the construction site
5. Ring steel bars connection
6. Reinforced cages, bending steel bars and other conditions of steel bars connection

Grout Filled Rebar Couplers Size

Size	GTB14-A	GTB16-A	GTB18-A	GTB20-A	GTB22-A	GTB25-A	GTB28-A
5mm	26.6	28.6	32	34	36	39	42
8mm	26.9	28.9	32.7	34.7	36.7	39.7	42.7
10mm	27.2	29.2	33.2	35.2	37.2	40.2	43.2
Note	Above size is mm, the tolerance of the opening hole size is $\pm 0.2\text{mm}$						

Grout Filled Rebar Couplers Engineering Projects

Engineering Projects



Tunnel System



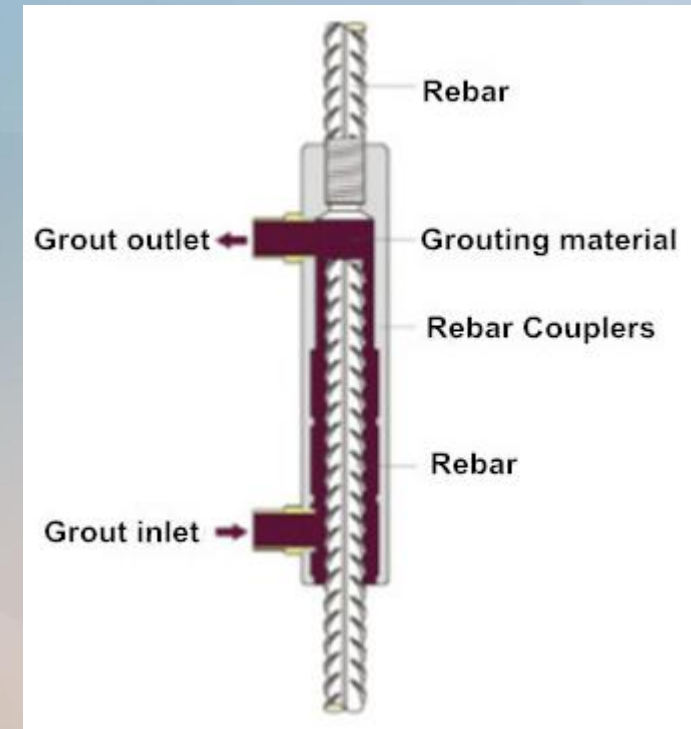
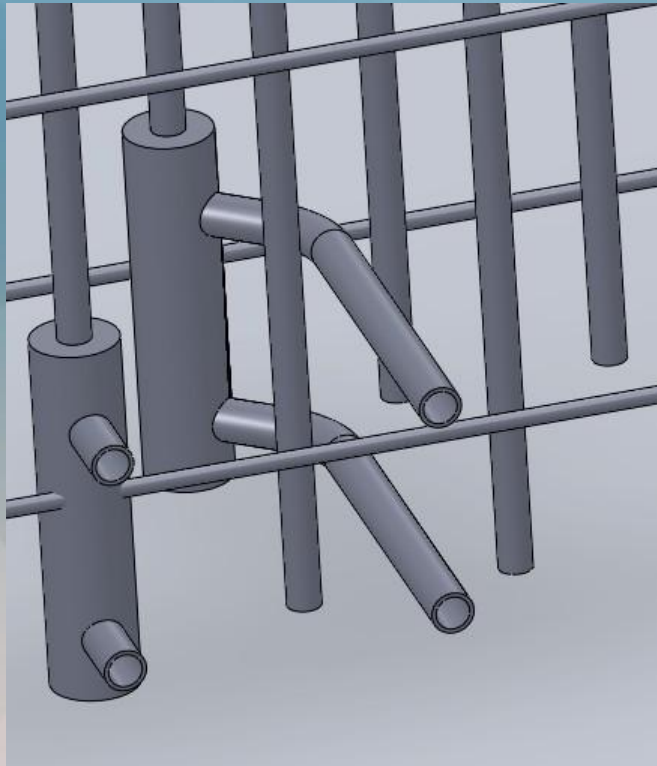
Viaduct



Urban Construction

Grout Filled Rebar Couplers Construction Projects Schematic Diagram

Engineering Projects



4. Partners

Partners



Exporting Countries In The World



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5. Product Packing

Product Packing



Woven Bags



Pallets



Wooden Case

6. Product Transportation

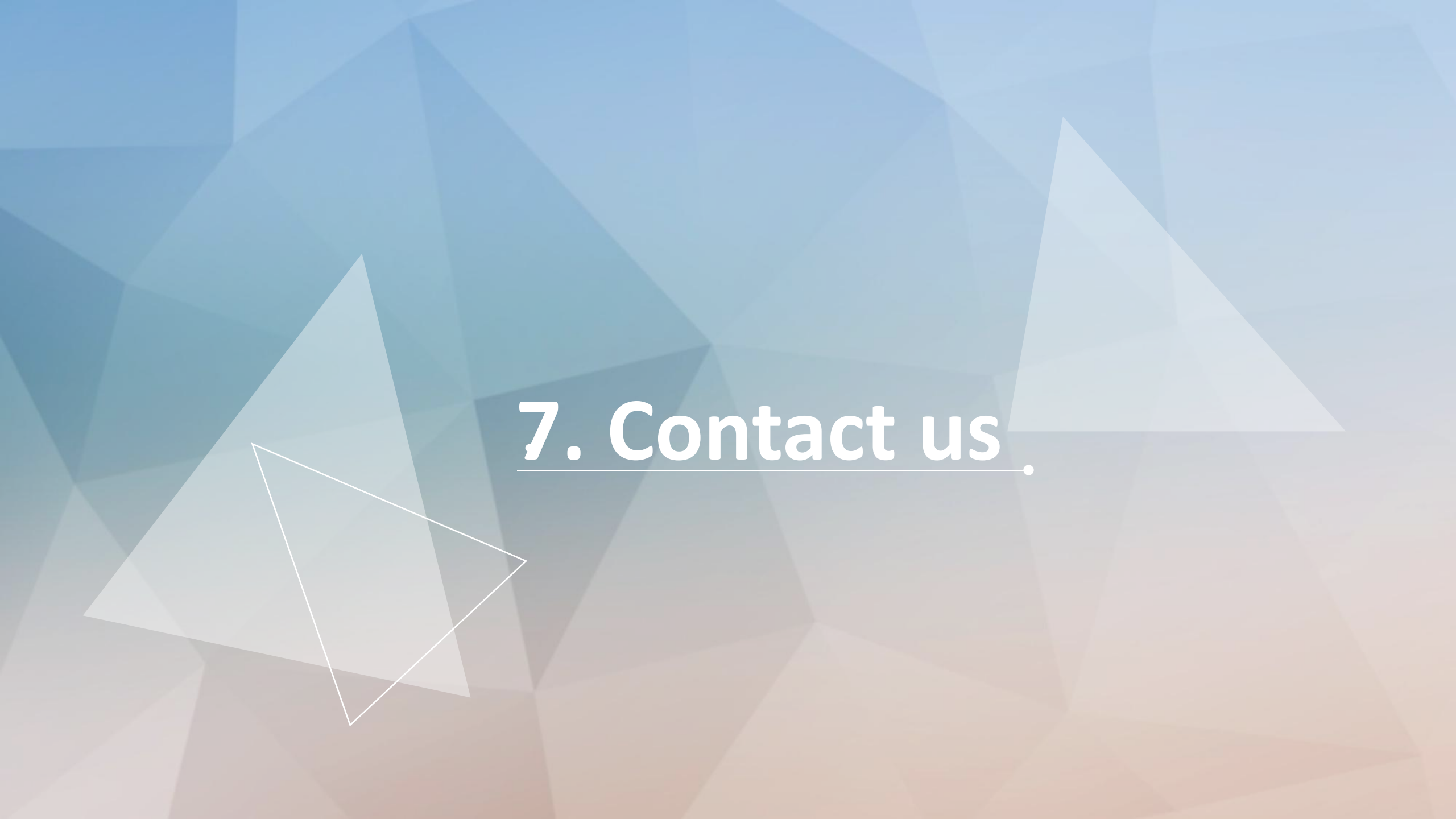
Product Transportation



International shipping : By sea



Inland : By truck



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