

KRIDHAN

Passionate about Innovation & Quality

www.kridhan.in

COMPANY PROFILE

Our Story began in 2006 when we were a Mumbai based steel product manufacturer, under the name Readymade Steel (RMS). RMS pioneered the concept of "ready to use" steel for the construction industry in India. We started manufacturing of Rebar couplers and Sonic tube in year 2008 & 2018 respectively. Today we are one of the leading manufacturing company of engineered steel products & proudly provide services & solutions for Rebar Coupler & Sonic Tube across the globe.

We have been involved, over these year into major Residential, Commercial, Industrial and Infrastructural projects, which provides us with very rich and unique experience and expertise of the domain.

Some of our major projects involves Mumbai Ahmedabad Bullet Train, Mumbai Metro Projects, Pune Metro Project, Kanpur Metro Project, Chennai Metro Project, Bangalore Metro Project, Patna Metro Project, Delhi Metro Project, Hyderabad Metro Project, Lucknow Metro Project, Kochi Metro Project, Mumbai Mono-Rail, Uppur Thermal Power Plant, Thermal Power Plant Vijayawada, DLF Midtown, Narmada River Project, Cable Bridge Karimnagar, Lodha World One, Lodha Minerva, Reliance DAICEC Project, Omkar Alta Monte, Sundilla Barrage Project, Annaram River Barrage, Bharati World Mark, Raheja Revanta, Mauritius Elevated Metro.

Kridhan's approach and commitment to our clients enables us to be predictable. We have always put quality and customer satisfaction as our top priority thus ensuring that our clients receive value, quality and certainty. With our exceptional track record in terms of execution, we are well placed to tap the growing infrastructure opportunities in India by leveraging our superior technology.

Vision:

Be the most preferred choice of brand that provides the value added & cost effective solutions to construction industry

Mission:

- We work closely at ground level with our valued customers to understand their needs
- Being agile to create the win-win situation for customers by addressing their concerns
- Make every attempt to add a value to the clients and for the organization

Our Segments

Metro
Dam
Bullet Train
Residential
Commercial
LNG & Thermal Power Plant
Bridges / Flyover
Expressways
Ports

KRIDHAN PRODUCT CATALOGUE

Mechanical Rebar Coupler / Splice

PRODUCT SPECIFICATION:

Kridhan Couplers are Parallel Threaded Mechanical Splicing systems (Mechanical coupler) designed and manufactured for the connection of concrete reinforcement bars ranging from a diameter of 12mm to 40mm. Kridhan Couplers have been manufactured in compliance with IS 16172, ACI 318, BS 8110, ASME Sec III Div 2. Also, they are designed and manufactured following the quality management system of ISO 9001.

ADVANTAGES:

1. Reduces rebar congestion problems.
2. Reduces rebar steel wastage.
3. Easy to install thereby shortening construction cycle time.
4. No staggering of spliced rebars required.
5. No reduction in rebar cross-section due to cold upsetting process.
6. Effective and economical alternative to conventional reinforcement lapping.
7. Enables multiple re-uses of formwork.

TYPES OF COUPLER:

1. Standard Coupler



2. Position Coupler



3. Position Coupler with Locknut



4. Reducer Coupler



THREAD MANUFACTURING PROCESS:

Rebar threads are manufactured by combining engineering and skills of 3 types of machinery, namely: Threading machine, Forging machine, and Power pack.



IDENTIFICATION:

Kridhan couplers are marked with the following, to enable traceability of the raw material and production batch reference.

BRAND MAKE

KRIDHAN

DIAMETER

32

BATCH NO.

2111

KRIDHAN 32 2111



COUPLER COMPLIANCE:

- 1) IS 16172 CODE: Code Requirement is: 109 % time of F_y (Yield strength of rebar being used). So for 500 grade bar, $F_y = 500$ Mpa, Coupler should withstand min strength: 109 % of 500 = 545 Mpa.
- 2) ACI 318 CODE: ACI 318 Code Requirement is: 125 % time of F_y (Yield strength of rebar being used). So for 500 grade bar, $F_y = 500$ Mpa, Coupler should withstand min strength: 125 % of 500 = 625 Mpa.
- 3) BS 8110 CODE: BS 8110 Code Requirement is: 115 % time of F_y (Yield strength of rebar being used). So for 500 grade bar, $F_y = 500$ Mpa, Coupler should withstand min strength: 115 % of 500 = 575 Mpa.
- 4) Along with these, Kridhan Coupler is qualified as per UK CARES, ASME-Section III Div.2, and Caltrans

THIRD PARTY TESTING OF COUPLERS:

M/s Kridhan Couplers are tested for the following tests:

- 1) Static Tensile Test
- 2) Slip test
- 3) Cyclic Loading test (100 cycles)
- 4) Low fatigue Cycle Test (10,000 cycles)
- 5) High fatigue Cycle test (2,000,000 cycles)
- 6) SN Curve Testing

Kridhan Couplers successfully pass the above-mentioned tests.

Kridhan Couplers have been tested by the following NABL Accredited, ISO Certified, and Government Approved Laboratories:

- 1) Bureau Veritas - Uttar Pradesh, India
- 2) SGS-CSTC Standards Technical Services Co. Ltd. - Singapore.
- 3) CSIR - Structural Engineering Research Centre, Chennai, India.

SONIC TUBES

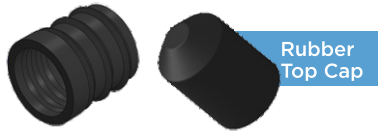
PRODUCT SPECIFICATION:

Sonic Tube is a tube that acts as an integrated part of the pile occupied for the pile integrity test called the Crosshole Sonic Logging test. They have been used in special infrastructure project like ports, special bridges, Metro Projects, Railway projects, etc. The mild steel the Sonic grade is used to make the Sonic Tube. Sonic Tubes are manufactured as per our manufacturing standards with respective tolerances.

NOMINAL DIAMETER	KST-50 (50 MM)	KST-100 (100 MM)	KST-150 (150 MM)
LENGTH	5.8m	5.8m	5.8m



Sonic Tube Assembly



Rubber
Top Cap



ADVANTAGES:

- 1) Easy & Quick installation within the rebar cage.
- 2) No welding is required at job sites.
- 3) User-friendly; fast & easy handling by workers.
- 4) No other equipment is required for installation.
- 5) No time for preparation.
- 6) Quick & easy visual inspection at actual sites.
- 7) Each tube is pressure tested in the factory for leakage.

Kridhan Sonic Tube manufacturing plant is situated in Khopoli, Maharashtra.

VARIANTS OF SONIC TUBES:

- 1) Standard Sonic Tube + Rubber Gasket



IN-HOUSE TESTING:

M/s Kridhan Sonic Tubes are tested for following tests:

- 1) Tensile test for Sonic Tube
- 2) Pull-out test for Ears
- 3) Hydrostatic Pressure test
- 4) Crush test.

M/s Kridhan Sonic Tube successfully passes the above-mentioned tests.



KRIDHAN ANCHOR PLATE

PRODUCT SPECIFICATION:

The most basic question on concrete structures today is about the bond and anchor performance between steel and concrete. It has a lot of effects on the structural strength of steel, crack control, reinforcement structure, and security structure. Currently, rebar hooks are the most common method used to reinforce concrete structures. Through 90° or 135° hooked rebar, performance is enhanced and anchor length is reduced, but bent or curved arc radius often brings many problems, such as rebar congestion on the beam-column joint area, hooked rebars interfering with other rebars, anchor length does not meet the requirements and so on. When using larger diameter rebar, these problems become a lot more prominent. Anchor Plate can enhance rebar mechanical anchoring performance, optimize steel anchor conditions, reduce the length of the steel anchor and save steel anchor length. It is convenient and improves concrete pouring quality.



ADDITIONAL FEATURES:

- 1) Safety - better anchorage
- 2) Efficiency - simple technology, faster installation
- 3) Economy - minimized embedment length, saves 40-50% steel, lower-priced
- 4) Quality - reduce congestion, solve the difficulty of pouring concrete, and improves the construction quality

APPLICATION:



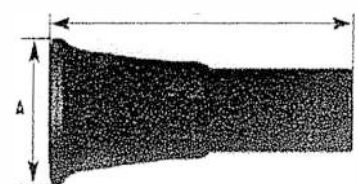
KRIDHAN THREAD INSERT ANCHORS

PRODUCT SPECIFICATION:

Kridhan Thread Insert Anchors, used with parallel-threaded reinforcing bars, can facilitate concrete construction joints. They make it possible for engineers to design slab-column connections without restrictions on rebar length and bar diameter for bending and anchoring. They provide an ideal option for clogged bars and situations where rebars are bent multiple times before the final concrete pour. The internally-threaded anchors are simply cast into the wall and connected with parallel-thread rebar. It can also be customized to be used in thin-walled precast panels, with limited space for reinforcement. This is quicker, easier, safer, and replaces hooked rebars and stirrups. It simplifies rebar scheduling and reduces rebar congestion in the wall. Moreover, EC2 lap lengths can be accommodated, and are available in a wide range of bar diameters. From a construction perspective, Kridhan Thread Inserts avoid over-congestion of the reinforcing, reduce the risk of injury through manually bending bars, and have faster cycle times in high-rise buildings.

TECHNICAL SPECIFICATION:

BAR DIA.(MM)	A(MM)	B(MM)
12	38	100
16	50	118
20	64	148
25	80	191
32	101	210



Material: Nodular cast iron



GROUT COUPLER

PRODUCT SPECIFICATION

Splicing joints in precast components are often considered structural weak points, with the connection of adjacent rebars being critical for overall integrity. Traditional methods such as lap splicing, welding, and mechanical splicing, while commonly used are often unsuitable due to limited space at joint areas and inefficiencies in certain conditions like post-casting, steel cage splicing, or on-site inspections of cut rebars. To address these challenges, we developed the Grout Coupler Splicing System, offering a reliable, efficient, and space-friendly solution that overcomes the limitations of conventional techniques and enhances construction convenience.

Advantages

- High Strength Connection
- Easy Installation
- Versatile Application
- Enhanced Construction Speed
- Material Savings
- Compact Design

TYPES

• Full Grout Coupler



The full-grouting coupler utilizes the grouting method at both ends ensuring a secure and stable connection. It features a longer sleeve compared to the half-grouting coupler, making it ideal for rebar splicing in both vertical components (such as walls and columns) and transverse components (such as beams).

• Half Grout Coupler



The half-grouting coupler features one side with parallel threads and the other side for grouting. It is relatively shorter in size and is primarily designed for rebar splicing in vertical components such as walls and columns.

Dimensions & Availability

Full Grout Coupler

Bar Dia.	OD(mm)	Length (mm)	Weight (Kg)
12	38	246	0.70
16	42	310	1.12
20	48	380	1.65
25	55	467	2.94
28	63	516	3.40
32	69	583	4.76
36	78	745	7.50
40	92	810	11.30

Half Grout Coupler

OD(mm)	Length (mm)	Weight (Kg)
32	138	0.40
38	174	0.59
42	211	0.86
50	256	1.40
56	292	2.00
63	300	2.70

LIFTING ANCHORS

PRODUCT SPECIFICATION

Precast lifting anchors are essential components used in the construction industry for handling and transporting precast concrete elements. They provide a secure and efficient way to lift, move, and position heavy precast components during construction processes. Precast lifting anchors are typically made from high-quality materials such as carbon steel, stainless steel or ductile cast iron.

APPLICATIONS

- Concrete wall panels
- Facade elements
- Cladding panels
- Precast beams & columns
- Precast girders and deck slabs

TYPES OF ANCHORS

Bolt anchors



Eye Anchors



Threaded Rebar Lifting Anchor



FootLock Anchor



Lifting Hoist Ring



Rubber Recess Former



PIPE ROOFING SYSTEM

• FOREPOLING • CANOPY TUBES • TUBE UMBRELLA SYSTEM

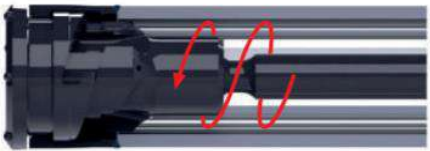
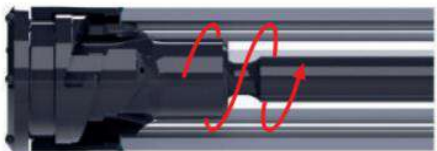
For complex geotechnical drilling requirements, Kridhan Infratech offers advanced case-advancing systems that deliver dependable performance across various construction methods such as forepoling, well drilling, and anchoring. These drilling systems employ casing tubes that penetrate overburden layers in an umbrella pattern and are later grouted to ensure stability. The casing solution allows for smooth and efficient installation of casing tubes into the ground while operating with low torque requirements. Kridhan Infratech provides a complete portfolio of solutions designed to perform reliably in weak ground conditions and are compatible with both top-hammer jumbo rigs and DTH drilling rigs.

Applications

- Forepoling and anchoring operations
- Piling and underpinning projects
- Site investigation and geotechnical studies
- Water and geothermal well drilling
- Horizontal and directional drilling

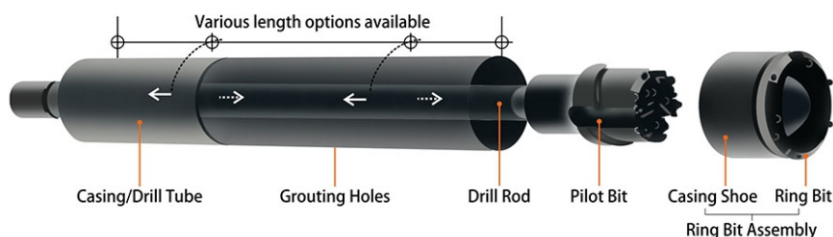
Technological Features

Kridhan Infratech's casing systems incorporate a robust locking mechanism that helps prevent damage or disturbance in complex ground conditions or near existing foundations, ensuring safer and more controlled drilling operations. The systems operate by:

-  1. A pilot bit is driven through the casing tube.
-  2. The tube is then rotated to locked position with the ring bit.
-  3. The casing system is ready to drill.
-  4. To finish drilling the pilot bit is rotated in the opposite direction and pulled out.

Pipe Roofing System

	KFS 76 (E)	KFS 76	KFS 88 (E)	KFS 88	KFS 114 (E)	KFS 114	KFS 139
Diameter of Pipe (mm)	76.1	76.1	88.9	88.9	114.3	114.3	139
Thickness of Pipe (mm)	5.60	6.00	6.50	8.00	6.50	8.00	10.00
Pilot Bit Thread	R32	R32	T38	T38	T38	T38	T45



Kridhan Infratech also supplies a full suite of forepoling drilling tools, including pilots, ring bits, casing tubes, starter casings, drill rods, grouting plugs, and shanks. These systems are suitable for use in both permanent and temporary casing applications.

IN-HOUSE TESTING FACILITY



Kridhan Infratech's provides in-house testing services for Grout Couplers & Sonic Tubes - ensuring strength, reliability, and quality compliance at every stage. We are assessed the following tests:



- Tensile Test for Sonic Tube
- Pull Out Testing of Tubes
- Testing for Fixing Ears
- Hydrostatic Pressure Test
- Crush Test

OUR SEGMENTS

METRO & MONORAIL SYSTEMS

- Mumbai Metro (Underground & Monorail)
- Delhi Metro (Underground)
- Bangalore Metro
- Pune Metro
- Hyderabad Metro
- Kochi Metro
- Lucknow Metro
- Kanpur Metro
- Chennai Metro
- Nagpur Metro

THERMAL & NUCLEAR POWER

- Uppur Thermal Power Plant
- Vijaywada Thermal Power Plant
- Nuclear Power Project at Kaiga - Unit 4 & 5

HIGH SPEED RAIL

- Ahmedabad - Mumbai Bullet Train Project

RESIDENTIAL & COMMERCIAL SPACES

- Lodha - World One
- DLF Midtown
- Oberoi - Garden City
- Revanta - by Raheja
- Omkar Alta Monte
- Bharti World Mark
- Simplex One Avighna Park
- Bombay ICC Tower 1 & Tower 2

CRITICAL INFRASTRUCTURE & IRRIGATION

- Sundila Barrage Project
- Annaram River Barrage
- LNG Tank, Adani Port Dharma
- LNG Tank - at Dahej
- Multiple Railway Station Buildings
- Multiple Projects (Bridges, Flyovers, ROB's Dams & Irrigation)

INTERNATIONAL PROJECTS

- Mauritius Metro Rail (Elevated Metro)
- Tema-Akosombo Rail Project - Ghana

CERTIFICATION



OUR PROJECTS



OUR CLIENTS:



HYDERABAD METRO RAIL LIMITED
(A Government of Telangana Enterprise)



Kridhan Infratech Pvt Ltd

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