

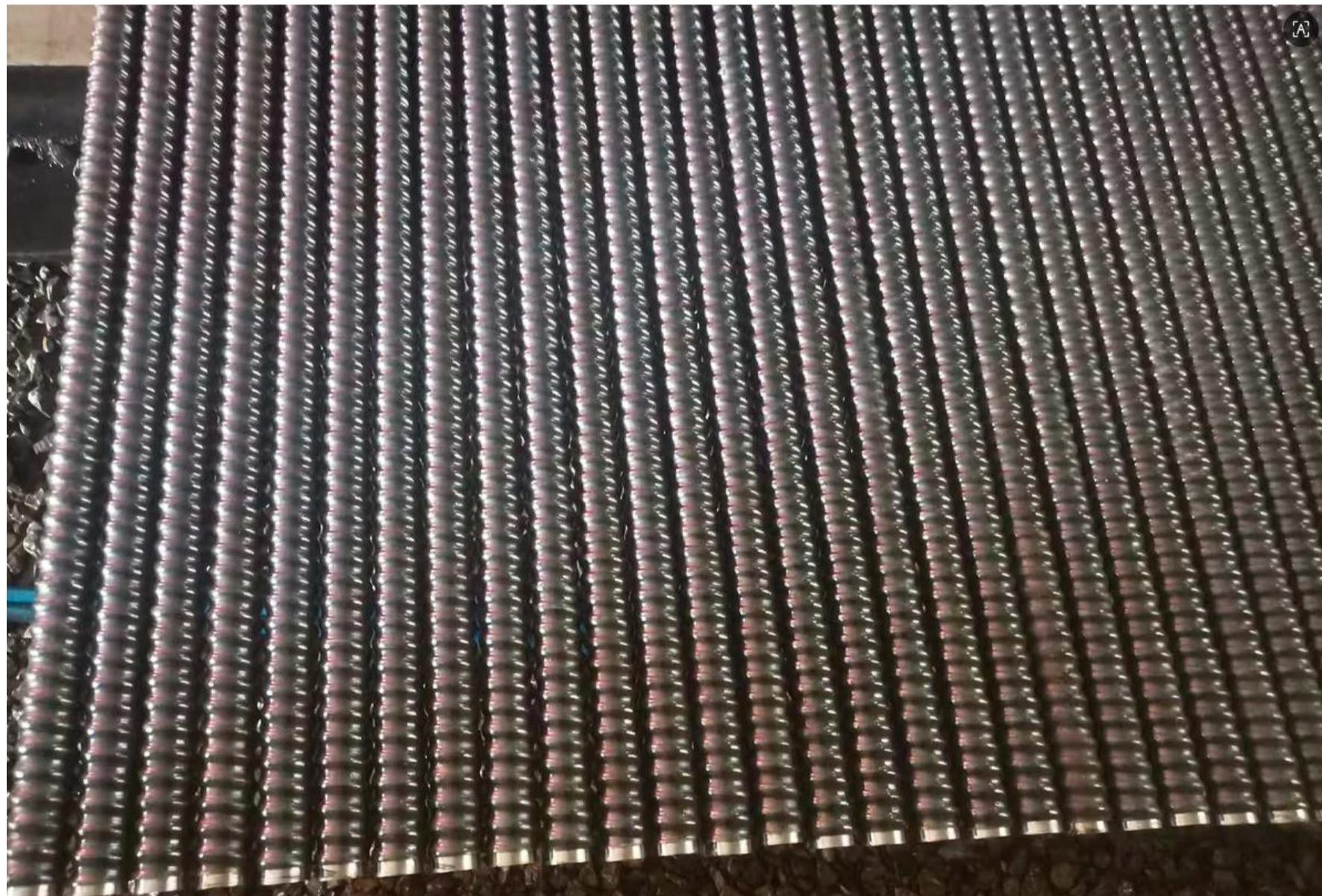


LIAOCHENG MINGJI ENGINEERING MATERIAL CO.,LTD

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Hollow Anchor Rod

Hollow anchor bar means a rod that transfers the structures or geotechnical load to a stable rock formations, anchor bolt consists of bar, drill bit, coupling, plate, grouting stopper and nut. Widely used as an efficient anchoring means, in tunnel pre-support, slope, coast, mine, water conservancy projects, building foundation, roadbed reinforcement and geological disaster treatment such as landslip, crack, sink age. It's irreplaceable in narrow construction environment. Hollow anchor bar is made of seamless tube with high strength.

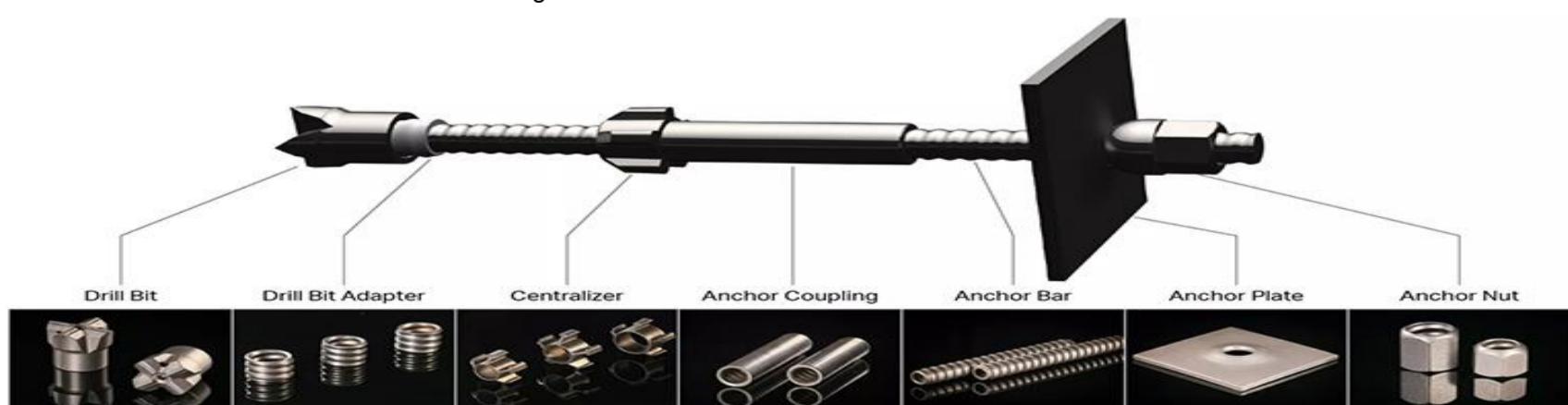


Full threaded steel self drilling rock bolt / Hollow anchor bar / Anchor rods

The Self Drilling Anchor system is comprised of a hollow threaded anchor bar with a sacrificial drill bit that performs drilling, anchoring and grouting in a single operation. Self drilling anchor system is mainly used in slope stabilization, tunneling pre-support, foundations with micro piles etc jobs, which is widely used in mining, tunneling, railway, metro construction etc projects.

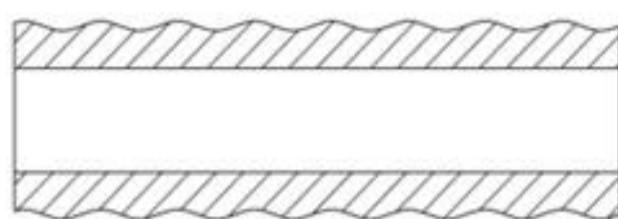
Advantages and Characteristics as below:

1. No casings required, because anchor bars can be drilled into loose soils without needing casings to support the boreholes.
2. Fast drilling and installation, because drilling, installation and grouting are in a single operation.
3. Both rope threads and trapezoid threads are robust and ideal for rotary-percussive drilling and ensuring a high level of bond with the borehole gout.
4. The hollow core not only serves for flushing during drilling, but also for grouting after drilling.
5. Continuous threads ensure the bars can be cut and coupled at any point, or extended.
6. Different anchor bits are available for different ground conditions.

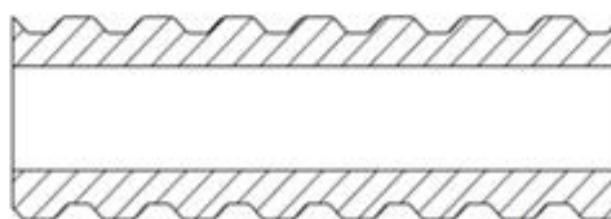


Product Specification

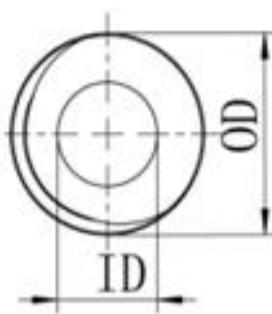
Anchor Bar



R thread hollow bar



T thread hollow bar



R-Thread Anchor Rod Technical Data

	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Outside diameter (mm)	25	32	32	38	51	51	76	76
Internal diameter (mm)	14	19	16	19	36	33	52	45
Ultimate load capacity (KN)	200	280	360	500	550	800	1600	1900
Yield load capacity (KN)	150	230	280	400	450	630	1200	1500
Tensile strength, Rp0.2 (N/mm²)	800	800	800	800	800	800	800	800
Yield strength, Rp0.2 (N/mm²)	650	650	650	650	650	650	650	650
Weight (Kg/m)	2.3	3.2	3.6	5.5	6.5	8.0	16.0	19.7
Thread type (left-hand)	ISO 10208				ISO 1720		MAI T76 Standard	
Steel grade	En10083-1 (Alloy structure steel) Compared to carbon steel, alloy structure steel has high anti-corrosion capacity and high mechanical.							

R thread anchor bar or called rock rod, soil nail, which is a kind of threaded hollow bar, bar surface with an rope thread according to ISO 10208 & 1720. It was firstly invented by MAI on 1960S to solve the low construction speed on complicated underground works, nowadays; it is very popular all around the world.

Thread size: R25, R32, R38, R51, T76.

Thread standard: ISO10208, ISO1720 etc.

T-Thread Anchor Rod Technical Data

Bar Type	Outside Diameter (mm)	Inside Diameter (mm)	Cross section (mm ²)	Ultimate Load KN	Yield Point KN	Weight (kg/m)	Thread Left/ Right Hand
T30/11	30	11	446	320	260	3.3	Lift or right
T30/14	30	14	395	260	220	2.9	Lift or right
T30/16	30	16	382	220	180	2.7	Lift or right
T40/16	40	16	879	660	525	7.0	Lift or right
T40/20	40	20	726	539	430	5.6	Lift or right
T52/26	52	26	1337	929	730	10.0	Lift or right
T73/53	73	53	1160	1630	970	12.3	Lift or right
T73/56	73	56	1094	1414	785	11.1	Lift or right
T73/45	73	45	2265	1630	1180	17.8	Lift or right

T thread anchor bar surface with a trapezoidal thread, this design of connection is much stronger and reliable when compared with rope thread, we supply full sizes from T30 to T103.

Thread size: T30, T40, T52, T73, T103, T127, T130.

Thread standard: ISO10208, ISO1720 etc.

Anchor Plate

	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Dimention (mm)	150*150	200*200	200*200	200*200	200*200	250*250	250*250	250*250
Thickness (mm)	8	10	12	12	20	40	40	40
Hole diameter (mm)	30	35	35	41	60	60	80	80
Weight (KG/PC)	1.4	3	3.7	3.6	8.8	18.5	18	18

Cold deformed with geometry

Anchor Coupling

	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Outside diameter (mm)	35	42	42	52	63	63	95	95
Length (mm)	120	145	160or190	180	180	200	200	200
Weight	0.45	0.7	0.75	1.4	1.7	1.9	6.4	6.4
Machined steel coupling middle stop								

The hollow bar is continuously threaded, it can be cut and coupled anywhere along its length.

The coupling enables direct end-to-end energy transmission between each bar, reducing losses and ensuring maximum percussive energy at the drill bit.

Drill Bit

	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Diameter (mm)	41,51	51,76,90		90,100,110,115,130			130,150,160,180,200	
Hardened cross bit (EX)	Hardened cross bit for loose to medium dense condition with small boulders.							
Tungsten cross bit (EXX)	TC cross bit for soft to medium rock formations							
Hardened button bit (ES)	Hardened button bit for unconsolidated rock with boulders.							
Tungsten carbon button bit (ESS)	Button bit with TC inserts for medium rock formations.							
Hardened arch bit (EC)	Hardened drill bit with optimized geometry for unconsolidated soil with small boulders.							
Tungsten carbon arch bit (ECC)	TC drill bit with optimized geometry for soft to medium rock formations.							
Hardened drop center bit (EY)	Hardened cross bit for loose to medium dense ground conditions							
TC drop center bit (EY)	TC drill bit for soft to medium rock formations.							
Casting clay bit (EW)	Casting clay bit with optimized geometry for very soft to soft clay.							
Machined steel bit or Casting steel bit								

The sacrificial drill bit is an important part of the self drilling anchoring system.

Choose suitable bits according to different soil type.

Anchor Nut

	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Key size (mm)	41	46	46	50	75	75	100	100
Length (mm)	135	45	45	55	70	70	80	80
Weight (kg/pc)	0.25	0.35	0.35	0.5	1.55	1.55	3.6	3.6
Machined steel nut or casting steel nut								

The hexagonal and spherical nuts are made from high precision steel (40Cr, HRC 20-25) to meet the stringent demands on anchor specifications and the daily uses of reinforcement work.

All nuts exceed the ultimate strength of the rod.

Company details

Our company is a manufacturer, located in Liaocheng City, Shandong province, China. Our city is very famous in seamless steel pipe. We firstly produce the seamless steel pipe, then thread them. One stop supply from material to finished product. complete industrial chain to assure the best price.

Annual production capacity of over 30000 tons. Maintain inventory of over 2000 tons year-round and ensure fast delivery.

Our advantage

Lower cost and competitive price

Fast delivery

Larger stock

Free sample

Strong production capacity ensures long-term cooperation

We welcome your visiting in future.

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