SW Kelly bar

- Specialized in the production of a full range of Kelly bar for 20 years
- The preferred Kelly bar brand for hard stratum and deep hole drilling
- Remanufacturing of well–chosen used Kelly bar
- Complete sets of equipment of cluster DTH hammer
- Pile foundation construction



SW SHENWEI FOUNDATION

Xuzhou Shenwei Foundation Machinery Technology Co., Ltd.

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Zip: 221004

Tel: 0086-516-69850505

Fax: 0086-516-69850500

Beijing Shenwei Foundation Machinery Technology Co., Ltd.

Add: No. 6-F, HouxiandaiCheng park, Baiziwan Road, ChaoYang District, Beijing

Zip: 100024

Tel: 0086-10-87747857

24-hours service Hotline: **400-1100-575**

Http: //www.kellybar.com

E-mail:info@kellybar.com

Technical specifications are subject to change without prior notice and incurring responsibility for equipments previously sold. Error and misprints reserved.

2024.11



INNOVATION CREATES EXCELLENCE

Xuzhou Shenwei Foundation Machinery Technology Co., Ltd.

Beijing Shenwei Foundation Machinery Technology Co., Ltd.

SW kelly bar

- 20 years of professional experience
- 1000 sets of annual production
- 10000 sets being in use for jobsite working
- 60000 m² premises for mass production



SW kelly bar

- Plentiful stocks and Rapid delivery
- Full range of Kelly bars matched with various drilling rigs
- Authorized supplier of drilling rig manufacturers in China



Brief Introduction

XuZhou Shenwei Foundation Machinery Technology Co., Ltd， a professional manufacturer of Kelly bar, possesses a leading position of Kelly bar's manufacturer and the largest scale of production in China. The advantages of our Kelly bar, such as low weight, high strength, high abrasion-resistance, high-reliability are safeguarded technologically by superior process, advanced machining equipments and special fixtures. Large scale of alloy tube imported form Germany Mannesmann or locally-made in stock ensures us to supply Kelly bar matched with any model of drilling rigs in short time (ex-works in about 7days). Now SW Kelly bars have been supplied to all kinds of drilling rigs ,such as Bauer, XCMG, NSR, Sany, Zoomlion, Sunward, Jintai, Soilmec, Casagrande, IMT, CMV, Mait and so on. SW Kelly bars have been working on construction sites in many countries all over the world, such as Germany, America, Turkey, India, Russia, Ukraine ,Singapore ,Malaysia, and so on. SW Kelly bars are in successful use even in the toughest operating conditions. Several service centers and rich experience of repairing Kelly bar on jobsite or in workshop benefit customers to enjoy rapid service.





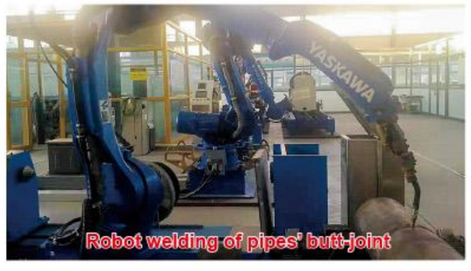




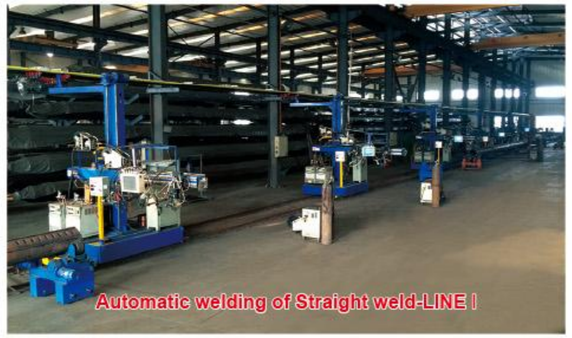


















SW kelly bar Intelligent Manufacturing

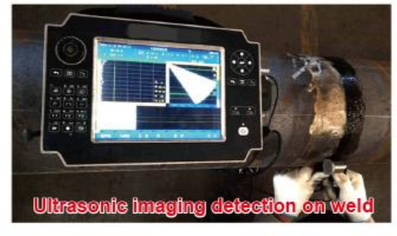




















SW kelly bar Certificate

Certificate



Enterprise Honors

Excellent supplier Authorized



SW kelly bar

Common Model of Kelly bar（MZ(JS)D-n×L

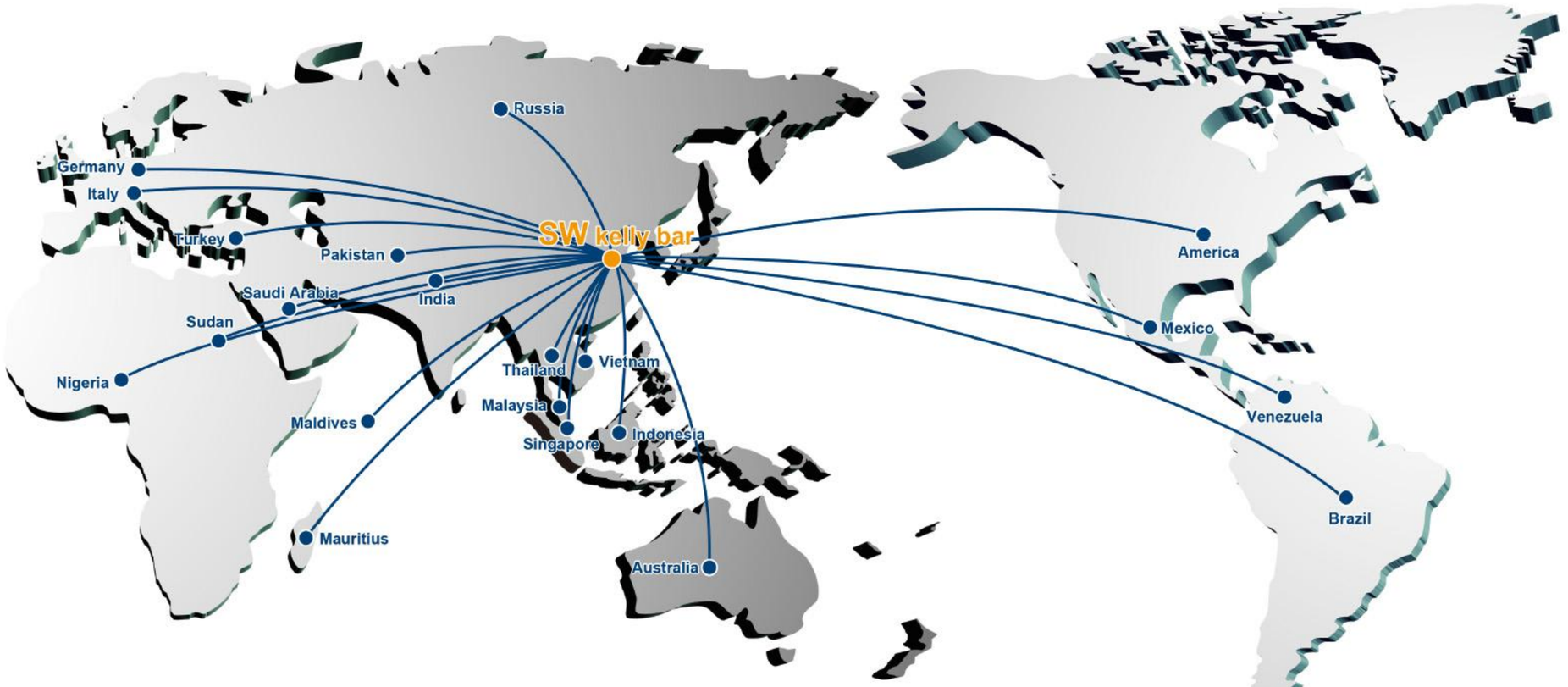
Number	Outer Diameter D(mm)	Nominal Legth L(m)	No.of sections	Nominal Torque (KN.m)	Nominal drilling depth(m)	Drilling rigs matched with
1	630	10~25	4 or 5	600	36~120	NSR, XCMG, SANY, YUTONG
2	575	10~21	4 or 5	500	36~100	NSR, XCMG, SANY, YUTONG,SUNWARD
3	559	10~21	4 or 5	500	36~100	NSR,BAUER
4	530	10~20	4 or 5	360	36~95	ZOOMLION,NSR
5	508	10~18.7	3 or 4	280、360	28~70	ZOOMLION,YUTONG, XCMG,NSR,SAN,SUNWARD,CASAGRANDE
6	470	10~25	3 or 4	280、400	28~95	YUTONG, XCMG,SUNWARD,NSR,SANY,BAUER
7	470	10~16.5	5	280	28~78	YUTONG, XCMG,SUNWARD,NSR,SANY
8	440	10~15	3 or 4	250	28~56	MAIT;SUNWARD,SANY,YUTONG,NSR, ZOOMLION,XCMG
9	426	10~15	3 or 4	250	28~56	CMV,IMT,CASAGRANDE,XCMG
10	419	10~15	3 or 4	250	28~56	CMV,IMT,CASAGRANDE,XCMG
11	406	10~15	3 or 4	230	28~56	CMV,,XCMG, ZOOMLION
12	406	10~15	3 or 4	300	28~56	SOILMEC,BAUER
13	394	10~16	3	360	28~45	BAUER
14	394	10~17	4	280	28~65	BAUER
15	377	10~14	3 or 4	220	28~54	BAUER,MAIT
16	368	10~14	3 or 4	220	28~54	BAUER,MAIT
17	355	10~13	3 or 4	140	28~50	CMV, SOILMEC, NSR, XCMG, YUTONG
18	340(343)	10~13	3 or 4	230	28~50	BAUER
19	299	10~13	3 or 4	140	28~50	BAUER,SOILMEC

★ Matched with drilling rigs: XCMG, Zoomlion, Sany, CRRC,Sunward,Yutong,Tysim, Jintai, Bauer,Soilmec, Liebherr, Casagrande, Mait, IMT, CMV, etc.

Features of SW Kelly bar

- Designed according to advanced Modular-element principle with six ribs laid on tubes.
- The advantages of our Kelly bar, such as low weight, high strength, high abrasion-resistance, high-reliability are safeguarded technologically by superior process, advanced machining equipments and special fixtures.
- All Kelly bars are available in interlocking, friction and partially lockable version. Length, Kelly stub and Kelly eye's dimension can be on request.
- Complete model series and flexible design and manufacture ensure the ability to supply Kelly bar to matched with any model of drilling rigs.
- Take use of seamless alloy tube imported from Germany Mannesmann or locally-made. Special hot-treatment enhances the material's strength more than 800Mpa.
- Ribs made of alloy hot-treated specially enjoys both high hardness and perfect welding performance, high abrasion-resistance leads to high-reliability.
- Several service centers and rich experience of repairing Kelly bars on jobsite or in workshop benefit customers to enjoy rapid service.

SW kelly bar Working on construction sites all over the world





In 2021, sent to Vietnam



In 2022, sent to Singapore



In 2023, sent to South Asia



In 2009, sent to Germany



In 2011, 80 sets sent to South America



In 2016, sent to Malaysia



In 2009, sent to Siberia, Russia



In 2014, sent to India construction site



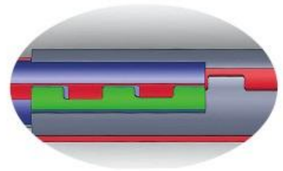
In 2014, sent to Singapore construction site



In 2024, sent to Japan in batches

SW kelly bar

High strengh、High abrasion-resistance、
High-reliability Prolong service life





1 Steel tube

- Seamless alloy tube same as hydro–cylinder
- Much higher nominal loading torque of Kelly bars
- Shot Blasting before welding



Tube Type	Yield strength (MPa)	Tensile strength (MPa)	Reference Standard
Seamless tube same as Hydro-cylinder	≥835	≥980	GB/T 17396

2 External strips

- Alloy material heat–treated
- High hardness and high abrasion–resistance



3 Locking plate

- Alloy material heat–treated
- High hardness and high abrasion–resistance
- Robot cutting
- Tail structure reduce cracking tendency

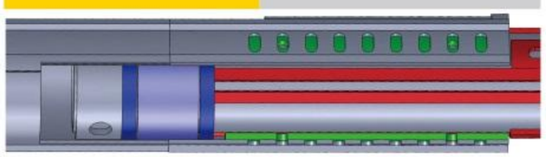




4 Upper guide ring

- Three moving rings
- Wear–resistance
- Impact resistance



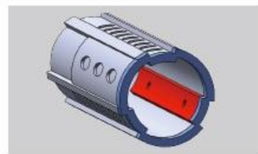




5 Drive shell

- Robot cutting and welding
- Integral arc plate
- High wear resistance







6 Terminal joint

- Robot cutting and welding
- Overlapping of intermal and external plates
- Small tendency for cracking



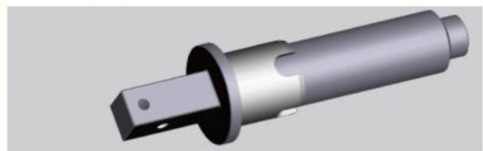




7 Anti-friction plate

- Full–rotating
- Reduce wear on pipe ends and stopper plate









8 Tool joint

- Integral forging with length not less than 1.2 meters
- Significantly reduce weld load

SW kelly bar Typical model

Specific to Bauer Liebherr drilling rigs

SW kelly bar		Drilling rig
SW/JS343-4x9	BK25/343/4/32	BG15
SW/JS368-4x13.5	BK20/368/4/48	BG20
SW/MZ406-5x15.8	BK22/394/5/72	BG22
SW/JS394-4x14.5	BK25/394/4/52	BG25
SW/MZ406-5x16.4	BK25/394/5/76	BG25
SW/JS394-3x18	BK36/394/3/48	BG36
SW/JS470-4x23	BK38/470/4/82	BG40
SW/JS470-4x19	BK40/470/4/68	BG40
SW/JS559-5x20.4	BK48/559/5/90	BG48
SW/JS559-4x22.3	BK48/559/4/80	BG48

SW kelly bar	Drilling rig
SW/JS368-3×11.3	LB20
SW/JS368-4×12	LB20
SW/JS419-3×13.5	LB28
SW/JS419-4×13.3	LB35
SW/JS470-4×15	LB36
SW/JS470-4×19.5	LB36
SW/JS508-4×18.9	LB410









Remark: SW Kelly bars can be specific to the whole series of BAUER drilling rigs, according to each rig's latest specification.

SW kelly bar Typical model

Specific to Soilmec drilling rigs

SW kelly bar	Drilling rig
SW/MZ406-5X13	R518
SW/MZ406-5X16.5	R622
SW/JS355-4×10	SR45
SW/JS406-3×12	SR70
SW/JS406-4X16.5	R622
SW/JS406-4X13	SR60
SW/JS406-4X15.5	SR80C
SW/JS406-3X15.5	SR80C
SW/JS559-4X18	SR100








Remark: SW Kelly bars can be specific to the whole series of Soilmec drilling rigs, according to each rig's latest specification.

SW kelly bar Typical model

Specific to Casagrande drilling rigs

SW kelly bar	Drilling rig
SW/JS355-4X13	B170
SW/JS419-4X13.5	B200XP
SW/JS419-3X16.6	B200XP
SW/JS419-4X14.6	B300
SW/JS508-3×14.5	B300
SW/JS508-4×16.5	B300
SW/JS508-4X14	C800H40
SW/JS508-4X16.5	B300XP









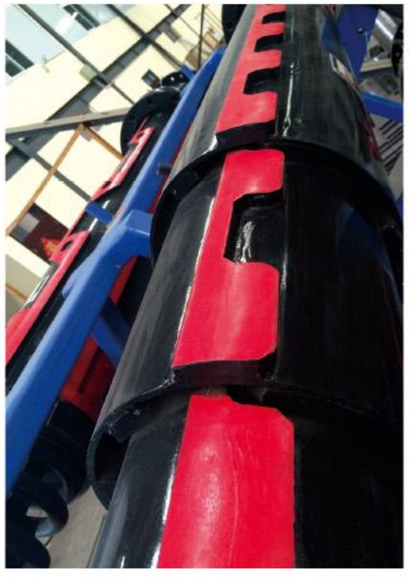


Remark: SW Kelly bars can be specific to the whole series of Casagrande drilling rigs, according to each rig's latest specification.

SW kelly bar Typical model

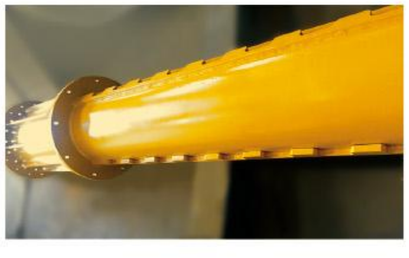
Specific to IMT MAIT CMV drilling rigs

SW kelly bar	Drilling rig
SW/JS406-4X13	AF180
SW/JS406-4X14.5	AF220
SW/JS377-4X11	HR160
SW/MZ440-5X14.5	HR180
SW/JS440-4X14.5	HR180
SW/JS355-4X12	TH14
SW/MZ406-5X13	TH18
SW/JS406-4X13	TH18
SW/MZ406-5X14	TH22
SW/JS406-4X14	TH22









Remark: SW Kelly bars can be specific to the whole series of IMT,MAIT,CMV drilling rigs, according to each rig's latest specification.

SW kelly bar Concentration & Innovation for 20 years



In 2005,Beijing-tianjin high-speed railway jobsite
SW friction Kelly bar SW/MZ406-5x13
Drilling rig: Soilmec R518
Drilling depth 60m



In 2005,Beijing-tianjin high-speed railway jobsite
SW friction Kelly bar SW/MZ440-5x14
Drilling rig: Mait HR180
Drilling depth 65m



In 2006,Zhengzhou-Xi'an high-speed railway jobsite
SW friction Kelly bar SW/MZ406-5x15.8
Drilling rig: Bauer BG22
Drilling depth 72m



In 2007,Jinzhou,Hubei jobsite
SW inter-locking Kelly bar SW/JS406-4x13
Drilling rig: IMT AF180
Drilling depth 47m



In 2006,Zhengzhou-Xi'an high-speed railway jobsite
SW friction Kelly bar SW/MZ406-5x14
Drilling rig: CMV TH20
Drilling depth 65m



In 2007, Tianjin jobsite
SW friction Kelly bar SW/MZ406-5x14
Drilling rig: Casangrande B200E
Drilling depth 65m

SW kelly bar Concentration & Innovation for 20 years



In 2010,Zhengzhou Yellow-River bridge jobsite
SW friction Kelly bar
SW/MZ508-6X18.7 , Drilling rig: XCMG XR360
SW/MZ508-6X17.6 , Drilling rig: NSR TR360
SW/MZ470-6X16.5 , Drilling rig: YUTONG YTR260
Max-hole diameter: 2m Max-drilling depth: 105m



In 2016,Yunan jobsite
SW inter-locking Kelly bar SW/JS575-4x22
Drilling rig: SWDM45
hole diameter: 2.5m drilling depth: 83m



In 2006, Nanjing jobsite
SW inter-locking Kelly bar SW/JS406-4x14
Drilling rig: Jintai SD22
Drilling depth 52m



In 2011,Chongqing jobsite
SW inter-locking Kelly bar SW/JS575-4x17,
SW/JS630-4x18
Drilling rig: Sany SR360,SR420
hole diameter: 2.5m drilling depth: 60m



In 2021, Yangtze river bridge jobsite
SW inter-locking Kelly bar SW/JS575-5x20
Drilling rig: Zoomlion ZR360
hole diameter: 2m drilling depth: 80m

SW kelly bar Concentration & Innovation for 20 years



Hubei Shishou bridge jobsite
SW friction Kelly bar SW/MZ470-5X25
Drilling rig: Bauer BG38
Hole diameter: 2m Drilling depth: 120m



Malaysia jobsite
SW inter-locking Kelly bar SW/JS394-3x14.5
Drilling rig: Casangrande B275XP



Guangdong Zhuhai jobsite
SW friction Kelly bar SW/MZ575-6X17.5
Drilling rig: Sany SR385
hole diameter: 2 m drilling depth: 95m



Guangdong Zhuhai jobsite
SW inter-locking Kelly bar SW/JS575-5x22
Drilling rig: NSR TR460
Hole diameter: 2.5m Drilling depth: 102m



Guizhou jobsite
SW inter-locking Kelly bar SW/JS575-5x19
Drilling rig: XCMG XRS1050
hole diameter: 2m drilling depth: 85m



Maldives jobsite
SW friction Kelly bar SW/MZ530-6x17.6
Drilling rig: NSR TR360
hole diameter: 2 m drilling depth: 90m

SW kelly bar Spare parts

Repair kits

- One SW repair kit package includes all components for repair
- Corresponding code-management for Kelly bar, breakdown and repairs kit
- Plenty of repair kits
- Professional service team



Other customized accessories



Disc spring



Dismountable tool joint



Drive stub part



Kelly guide



Rotary drive flange pipe



Swivel

Shock absorber/ kelly guide bearing

Rotary drive shell

Complete set of reverse-circulation cluster pneumatic DTH hammer equipment

- **Air swivel:**
  a small size yet large channel, ensuring unobstructed air intake.
- **Fragments collection and discharge device:**
  With multiple paths for fragments of stone entry and a single pipe for discharge, environmentally friendly in construction.
- **Inner discharging drill pipe:**
  Double–layer and multi–channel drill pipe enables inner slag–discharging. Its uniform diameter from top to bottom helps prevent hole collapse.
- **Connector:**
  The high–strength V–shaped fragments–collecting structure comes with a guiding function, allows for the switch from forward to reverse circulation discharging.
- **Cluster hammer:**
  Special unified specification sub–hammers are designed for hammer–lifting and air–sealing. They are cost–effective, achieving high fragment–discharging efficiency in both inner and outer pipes, avoid repeated crushing at the hammer bottom, and increasing construction efficiency.
- **Hydraulic opening–and–closing gripper:**
  It ensures accurate hole positioning and is easy to operate.
- **Comprehensive technical support:**
  Provide complete construction methods based on user needs and existing equipment conditions; Customization and restructuring of complete sets of equipment; Collaborative construction.



