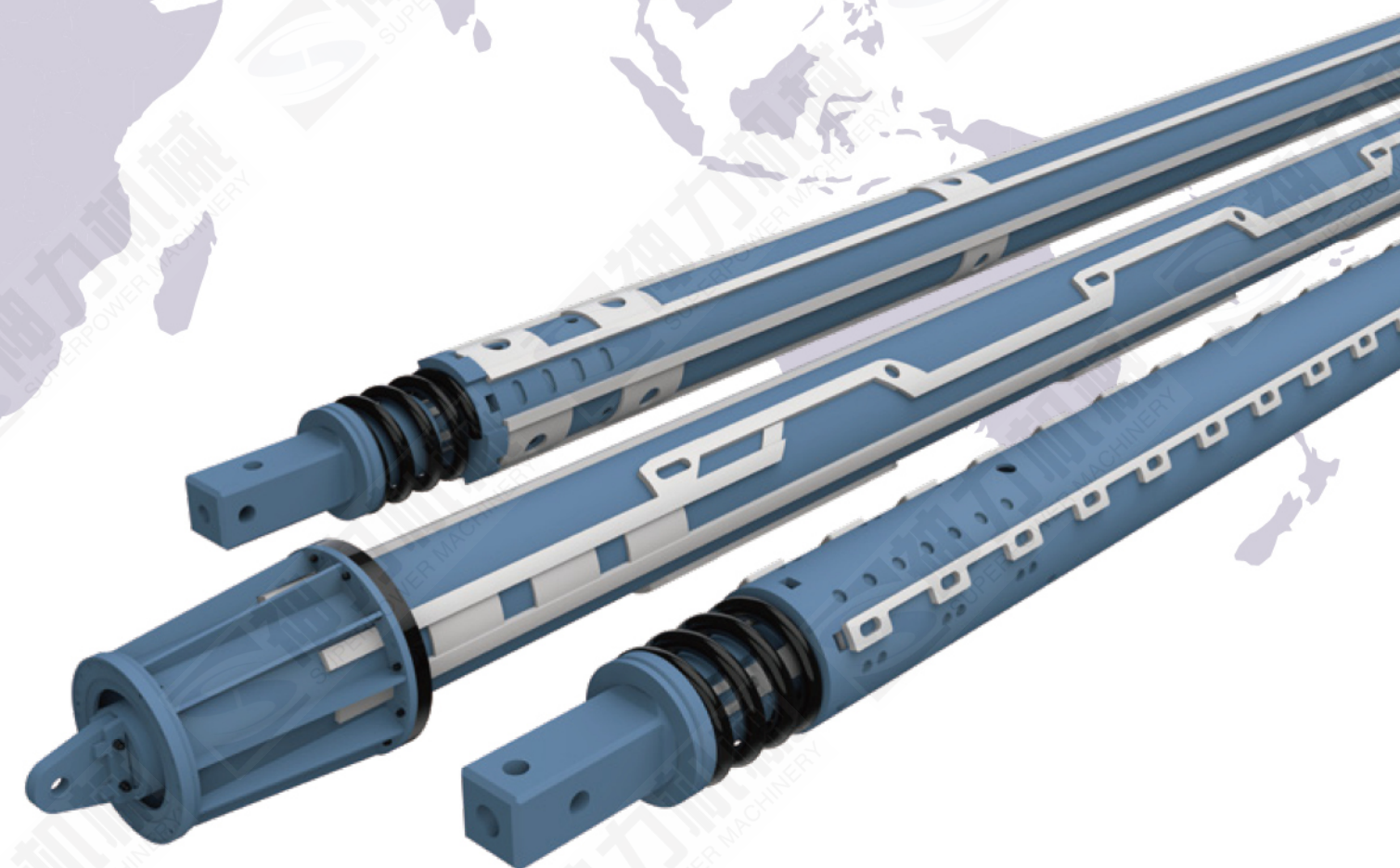




**PROFESSIONALISM
BUILDS
QUALITY**

KELLY BAR PRODUCT MANUAL



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XUZHOU SUPERPOWER MACHINERY TECHNOLOGY Co., Ltd.



XUZHOU SUPERPOWER MACHINERY
TECHNOLOGY Co., Ltd.

ENTERPRISE PROFILE

Xuzhou Superpower Machinery Technology Co., Ltd. was established in 2003 with a registered capital of 30 million yuan and covers an area of over 70 acres. It is one of the earliest companies in China to independently design and manufacture Kelly bars for rotary drilling rigs.

Throughout more than 20 years of development, we have consistently focused on Kelly bar products for rotary drilling rigs, adhering to independent research and development and in-house manufacturing of parts. With a professional R&D team and advanced Kelly bar production lines, we can produce over 600 sets of Kelly bars annually. Our company de-

signs and manufactures various types of interlocking Kelly bars, multi-lock Kelly bars, and friction Kelly bars, covering both standard and non-standard specifications ranging from 299mm to 930mm. We provide advanced, reliable products and practical construction solutions tailored to customer needs.

Over the years, we have provided Kelly bar support services for major domestic rotary drilling rig manufacturers, including XCMG, SANY, ZOOMLION, YuTong Heavy Industry, TaiYuan Heavy Industry, and New Direction Equipment. With our first-class R&D capabilities, stable and reliable products,

and efficient professional services, we have been repeatedly awarded the title of "Excellent Supplier" by various drilling rig manufacturers. Additionally, we actively expand into international markets, exporting Kelly bars in bulk to Russia, India, Singapore, Qatar, Brazil, South Africa, the UAE, and other countries, where they are well-received by users.

We actively promote digitalization and automation, implementing PDM, ERP, and MES systems to enable collaborative data sharing from product design and material procurement to warehousing management, production planning, and manufacturing. In the manufacturing process, we have

increased our investment in automation equipment, including 18 automatic Kelly bar welding machines, 2 welding robot workstations for key Kelly bar components, and 2 robot cutting workstations, significantly enhancing production efficiency and product quality.

With a spirit of continuous innovation, solid professional expertise, a relentless pursuit of leading technology, and a meticulous approach to product quality, we will continue to create industry-leading products.

Kelly bar

Interlocking Kelly bar

The difference between Interlocking Kelly bar and Friction Kelly bar is that each section of the Interlocking Kelly bar has locking devices for active pressurization

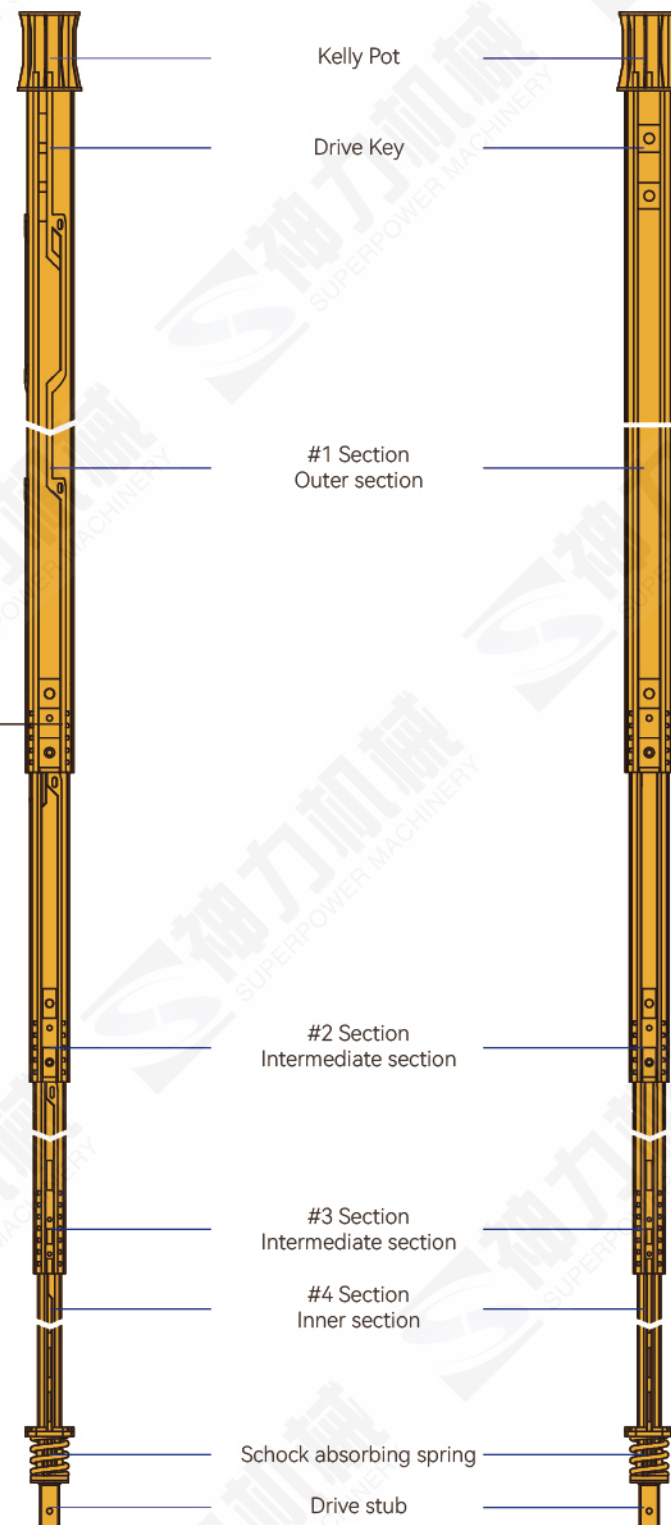


Unlocked



locked

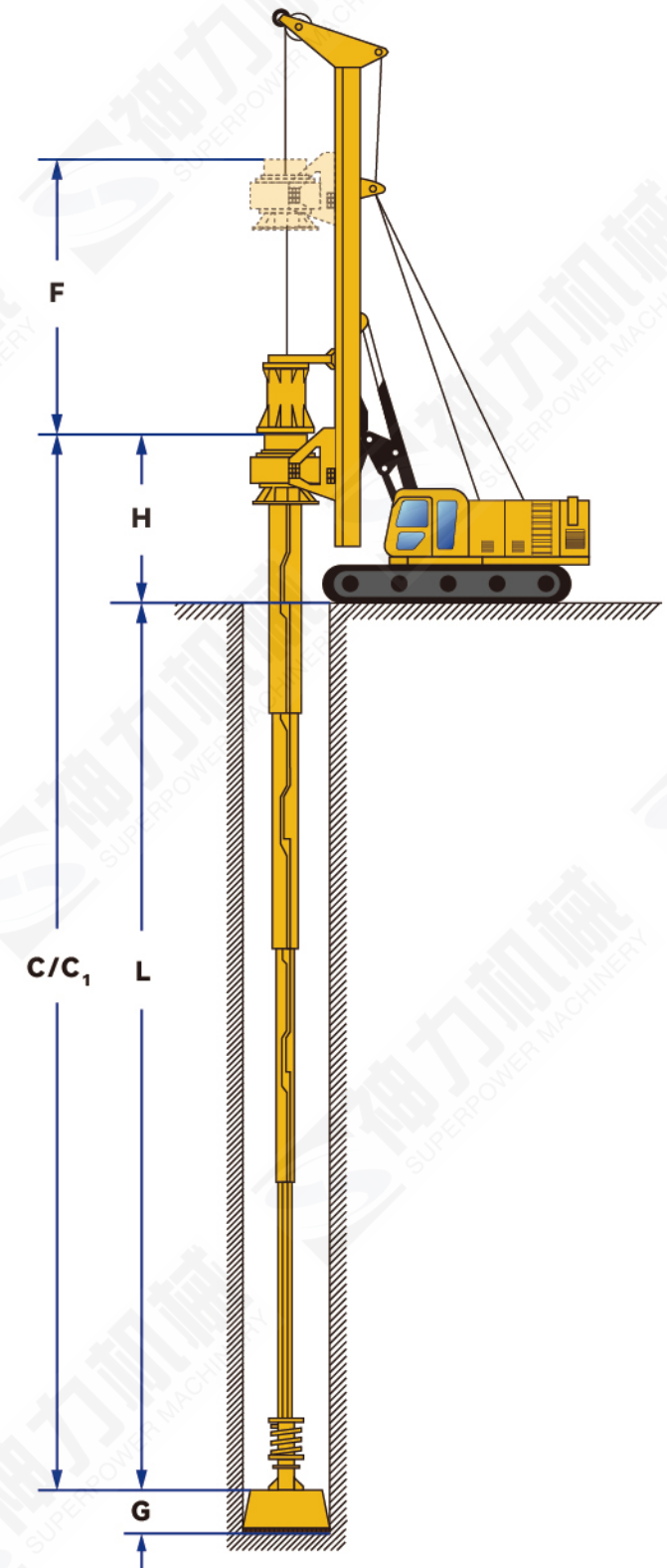
Friction Kelly bar



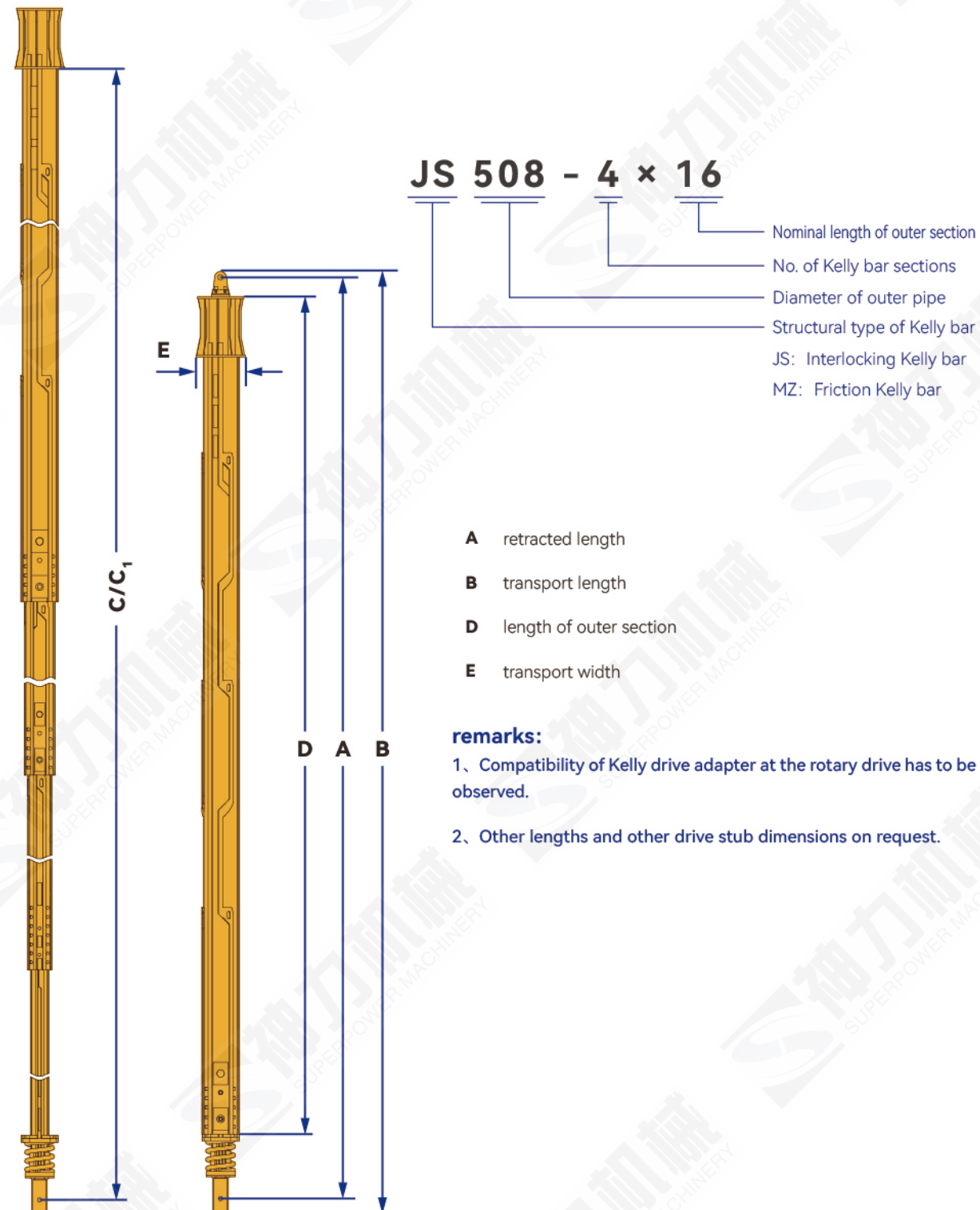
Calculation of drilling depth

- F** movement distance of stroke system
- H** height of stroke above ground level
- G** height of drilling tool
- C** fully extended length of Kelly bar(unlocked)
- C₁** fully extended length of Kelly bar(locked)
- L** drilling depth
- L = C + G - H** max. drilling depth(unlocked)
- L = C₁ + G - H** max. drilling depth(locked)

★ Maximum drilling depth is subject to type of drilling rig, capacity of winch and type of drilling tool.



Definitions of Kelly bar dimensions and type classifications

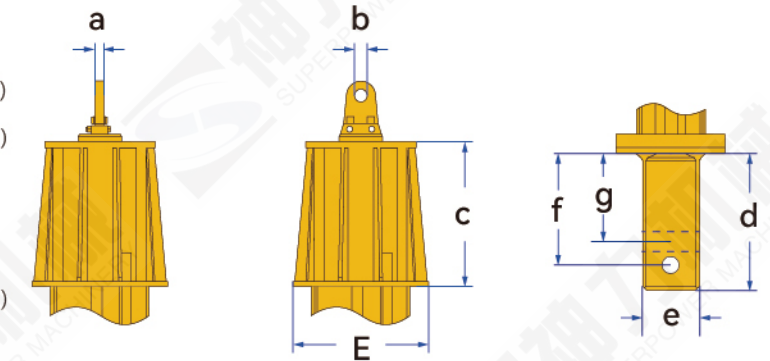


remarks:

- 1、Compatibility of Kelly drive adapter at the rotary drive has to be observed.
- 2、Other lengths and other drive stub dimensions on request.

SK299 Series Kelly bar

- Lifting eye (a) : 50 (customizable)
- Lifting eye (b) : 50 (customizable)
- Kelly pot length (c) : 800 (customizable)
- Transport width (E) : 510 (customizable)
- Drive stub (d) : 480 (customizable)
- Drive stub (e) : 200*200 (customizable)
- Drive stub (f) : 390 (customizable)
- Drive stub (g) : 290 (customizable)



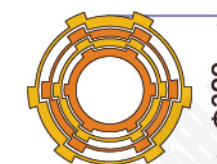
299-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS299-3×6	7240	7410	6050	17230	16830	2550	160	110
JS299-3×7	8240	8410	7050	20230	19830	2850	160	110
MZ299-3×6	7240	7410	6050	17330	/	2450	160	/
MZ299-3×7	8240	8410	7050	20330	/	2750	160	/

299-4 Series Kelly bar

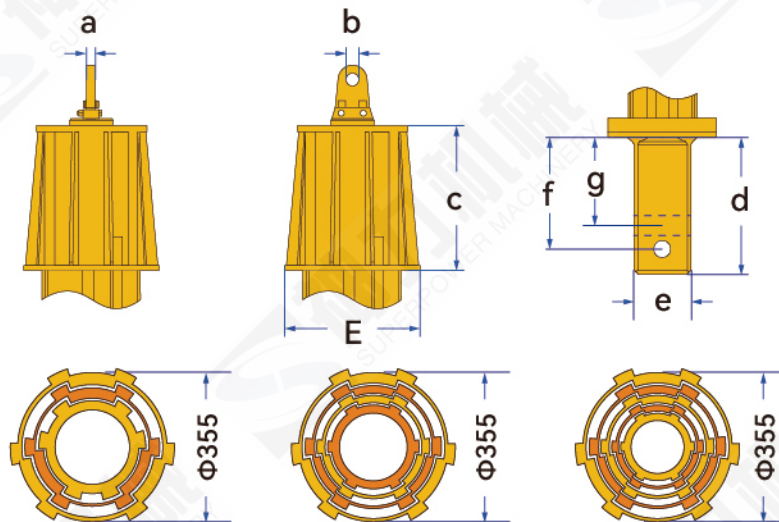
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS299-4×6	7240	7410	6050	22820	22320	2450	100	70
JS299-4×7	8240	8410	7050	26820	26320	2750	100	70
MZ299-4×6	7240	7410	6050	22840	/	2350	100	/
MZ299-4×7	8240	8410	7050	26840	/	2650	100	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



SK355 Series Kelly bar

Lifting eye (a) : 50 (customizable)
Lifting eye (b) : 50 (customizable)
Kelly pot length (c) : 600 (customizable)
Transport width (E) : 530 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

355-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS355-3×10	11250	11420	10050	28740	28340	4250	200	140
JS355-3×12	13250	13420	12050	34740	34340	5000	200	140
MZ355-3×10	11250	11420	10050	28840	/	4100	200	/
MZ355-3×12	13250	13420	12050	34840	/	4850	200	/

355-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS355-4×11	12240	12410	11050	42070	41570	5200	160	110
JS355-4×12	13240	13410	12050	46070	45570	5600	160	110
MZ355-4×11	12240	12410	11050	42270	/	5050	160	/
MZ355-4×12	13240	13410	12050	46270	/	5450	160	/

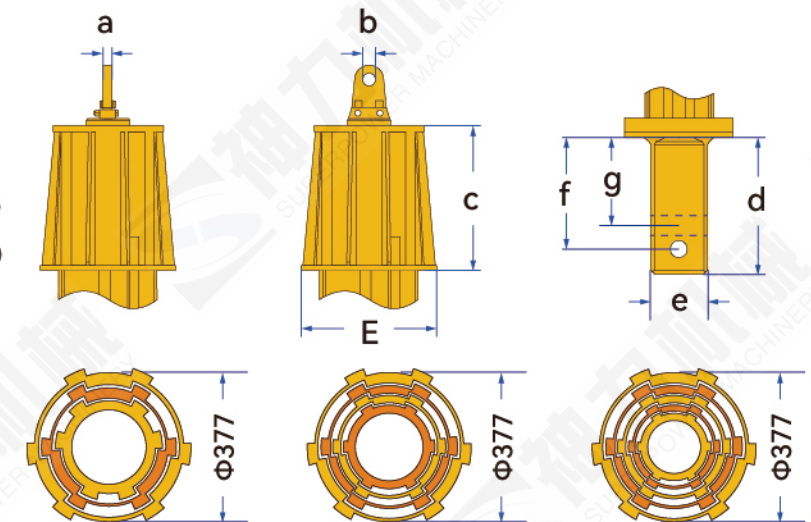
355-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ355-5×10	11240	11410	10050	47540	/	4500	100	/
MZ355-5×12	13240	13410	12050	57540	/	5200	100	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK377 Series Kelly bar

Lifting eye (a) : 50 (customizable)
Lifting eye (b) : 50 (customizable)
Kelly pot length (c) : 610 (customizable)
Transport width (E) : 620 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

377-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS377-3×10	11250	11420	10050	28740	28340	5100	250	180
JS377-3×12.5	13750	13920	12550	36240	35840	6200	250	180
MZ377-3×10	11250	11420	10050	28840	/	4950	250	/
MZ377-3×12.5	13750	13920	12550	36340	/	6050	250	/

377-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS377-4×10	11250	11420	10050	38065	37565	5800	180	130
JS377-4×12.5	13750	13920	12550	48065	47565	7000	180	130
MZ377-4×10	11250	11420	10050	38185	/	5700	180	/
MZ377-4×12.5	13750	13920	12550	48185	/	6900	180	/

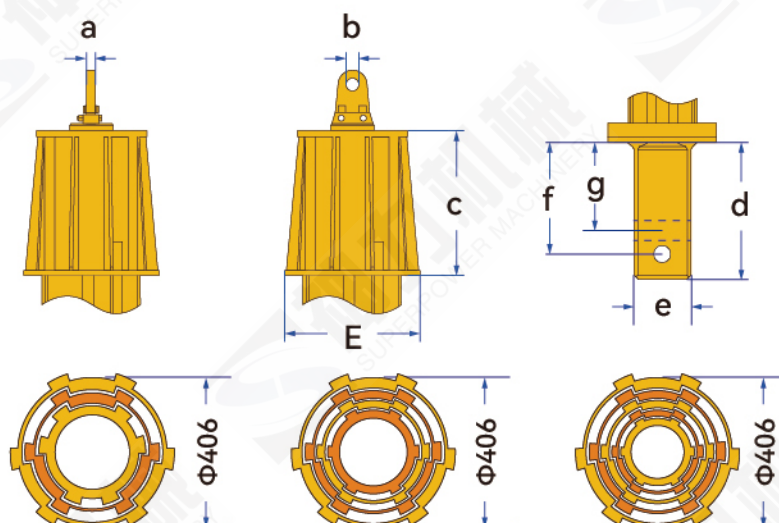
377-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ377-5×10	11260	11430	10050	47125	/	5760	160	/
MZ377-5×12.5	13760	13930	12550	59625	/	7200	160	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK406 Series Kelly bar

Lifting eye (a) : 50 (customizable)
Lifting eye (b) : 50 (customizable)
Kelly pot length (c) : 800 (customizable)
Transport width (E) : 620 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

406-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS406-3×10	11170	11340	10050	28695	28295	5950	300	210
JS406-3×14.5	15670	15840	14550	42195	41795	8100	300	210
MZ406-3×10	11170	11340	10050	28795	/	5800	300	/
MZ406-3×14.5	15670	15840	14550	42295	/	7950	300	/

406-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS406-4×11	12250	12420	11050	41420	40920	6950	250	180
JS406-4×14.5	15750	15920	14550	55420	54920	8800	250	180
MZ406-4×11	12250	12420	11050	41540	/	6750	250	/
MZ406-4×14.5	15750	15920	14550	55540	/	8600	250	/

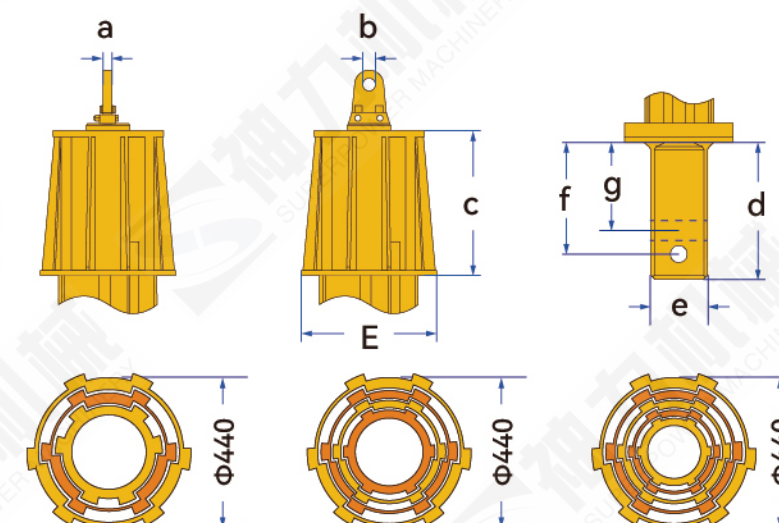
406-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ406-5×13.5	14760	14930	13550	64430	/	8500	180	/
MZ406-5×15.5	16760	16930	15550	74430	/	9600	180	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK440 Series Kelly bar

Lifting eye (a) : 50 (customizable)
Lifting eye (b) : 50 (customizable)
Kelly pot length (c) : 800 (customizable)
Transport width (E) : 650 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

440-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS440-3×13	14280	14450	13050	37555	37155	8500	350	250
JS440-3×14.5	15780	15950	14550	42055	41655	9300	350	250
MZ440-3×12	13280	13450	12050	34655	/	7750	350	/
MZ440-3×15	16280	16450	15050	43655	/	9400	350	/

440-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS440-4×13.5	14750	14920	13550	51265	50765	9600	280	200
JS440-4×15.5	16750	16920	15550	59265	58765	10900	280	200
MZ440-4×14	15250	15420	14050	53545	/	9400	280	/
MZ440-4×15	16250	16420	15050	57545	/	10700	280	/

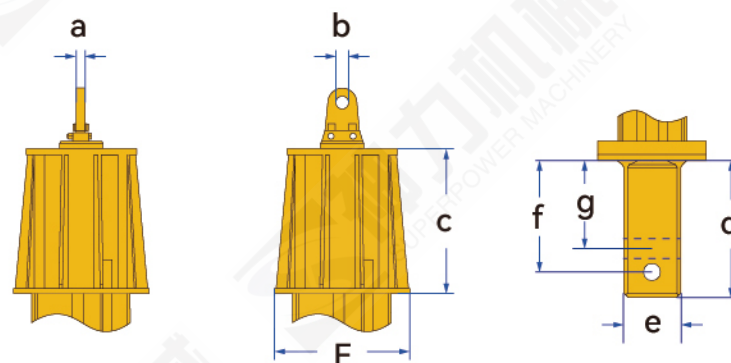
440-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ440-5×13	14260	14430	13050	61395	/	9500	220	/
MZ440-5×15	16260	16430	15050	71395	/	10700	220	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK508 Series Kelly bar

Lifting eye (a) : 55 (customizable)
Lifting eye (b) : 60 (customizable)
Kelly pot length (c) : 800 (customizable)
Transport width (E) : 740 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

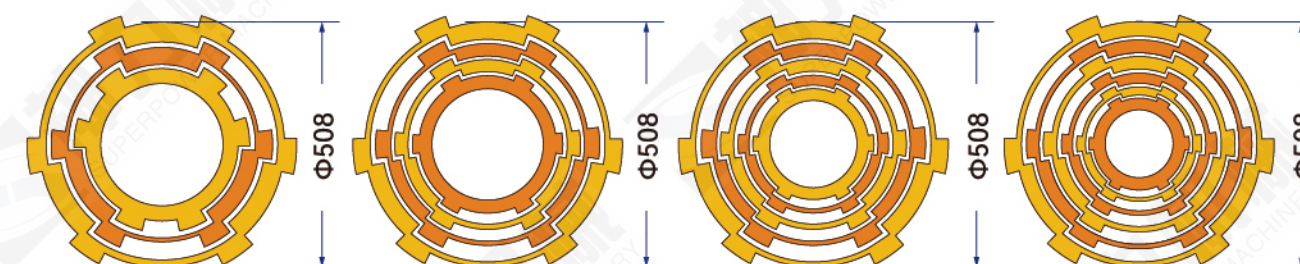
508-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS508-3×12	13215	13390	12050	34080	33680	9850	450	320
JS508-3×14	15215	15390	14050	40080	39680	11150	450	320
MZ508-3×15	16215	16390	15050	43180	/	11550	450	/
MZ508-3×16	17215	17390	16050	46180	/	12200	450	/

508-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS508-4×16	17305	17480	16050	60650	60150	13800	360	250
JS508-4×17	18305	18480	17050	64650	64150	14600	360	250
MZ508-4×16	17305	17480	16050	60930	/	13300	360	/
MZ508-4×17	18305	18480	17050	64930	/	14200	360	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



508-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ508-5×15	16305	16480	15050	71000	/	12800	360	/
MZ508-5×16	17305	17480	16050	76000	/	13550	360	/
MZ508-5×17	18305	18480	17050	81000	/	14300	360	/
MZ508-5×18	19305	19480	18050	86000	/	15000	360	/

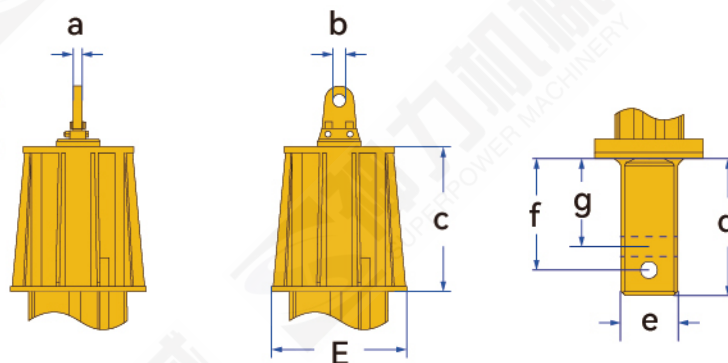
508-6 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ508-6×15.5	16790	16980	15550	88045	/	13500	220	/
MZ508-6×16	17310	17480	16050	91045	/	13900	220	/
MZ508-6×17	18310	18480	17050	97045	/	14700	220	/
MZ508-6×18	19310	19480	18050	103045	/	15400	220	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK530 Series Kelly bar

- Lifting eye (a) : 55 (customizable)
 Lifting eye (b) : 60 (customizable)
 Kelly pot length (c) : 800 (customizable)
 Transport width (E) : 780 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 250*250 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



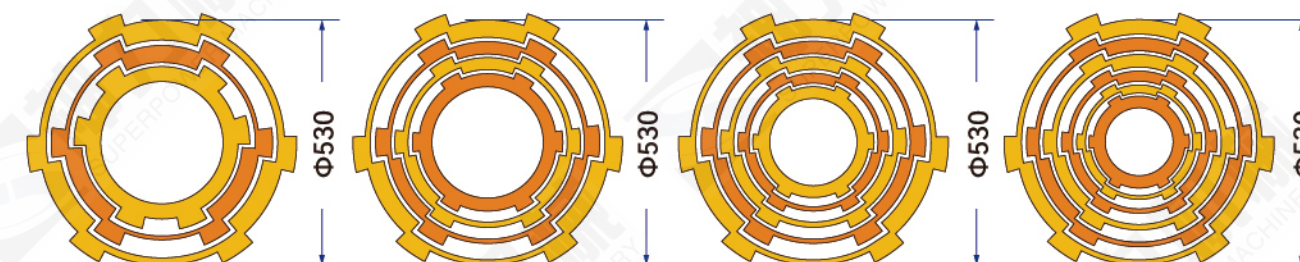
530-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS530-3×15	16245	16420	15050	42960	42560	12800	500	350
JS530-3×17	18245	18420	17050	48960	48560	14200	500	350
MZ530-3×15	16245	16420	15050	43060	/	12550	500	/
MZ530-3×16	17245	17420	16050	46060	/	13250	500	/

530-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS530-4×14.5	15735	15910	14550	54280	53780	14000	400	280
JS530-4×16	17235	17410	16050	60280	59780	15500	400	280
MZ530-4×18	19235	19410	18050	68560	/	17050	400	/
MZ530-4×19	20235	20410	19050	72560	/	17900	400	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



530-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ530-5×16	17255	17430	16050	75450	/	15000	360	/
MZ530-5×17	18255	18430	17050	80450	/	15800	360	/
MZ530-5×18	19255	19430	18050	85450	/	16600	360	/
MZ530-5×19	20255	20430	19050	90450	/	17400	360	/

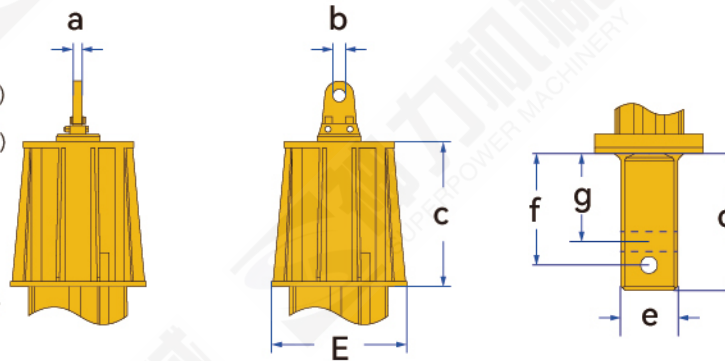
530-6 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ530-6×15.5	16755	16930	15500	87995	/	15500	220	/
MZ530-6×16	17255	17430	16050	90995	/	16000	220	/
MZ530-6×17	18255	18430	17050	96995	/	16750	220	/
MZ530-6×18	19255	19430	18050	102995	/	17600	220	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK580 Series Kelly bar

- Lifting eye (a) : 80 (customizable)
 Lifting eye (b) : 80 (customizable)
 Kelly pot length (c) : 800 (customizable)
 Transport width (E) : 860 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 250*250 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



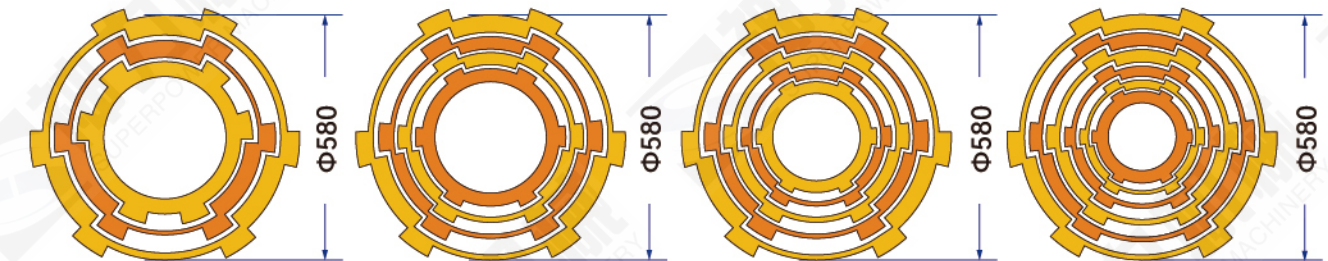
580-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS580-3×17	18310	18510	17050	48810	48410	15000	600	420
JS580-3×18	19310	19510	18050	51810	51410	15800	600	420
MZ580-3×19	20310	20510	19050	54940	/	16400	600	/
MZ580-3×20	21310	21510	20050	57940	/	17200	600	/

580-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS580-4×19	20270	20470	19050	72080	71580	19900	460	320
JS580-4×20	21270	21470	20050	76080	75580	20850	460	320
MZ580-4×18	19270	19470	18050	68360	/	18600	460	/
MZ580-4×21	22270	22470	21050	80360	/	21300	460	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



580-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS580-5×17.5	18780	18980	17550	82045	81445	20200	460	320
JS580-5×20	21280	21480	20050	94545	93945	22700	460	320
MZ580-5×20	21270	21470	20050	94955	/	22150	460	/
MZ580-5×21	22270	22470	21050	99955	/	23150	460	/

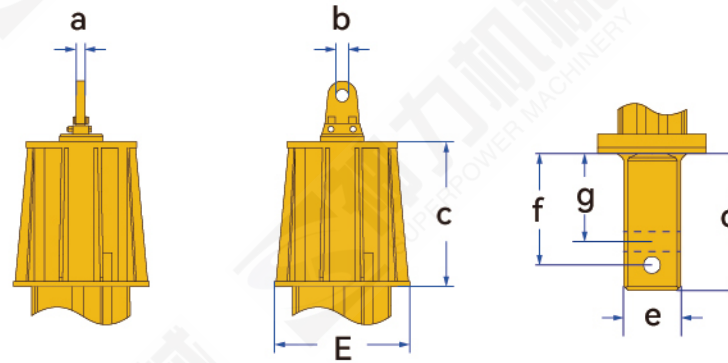
580-6 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ580-6×16	17360	17560	16050	90015	/	18150	360	/
MZ580-6×17	18360	18560	17050	96015	/	19150	360	/
MZ580-6×19	20360	20560	19050	108015	/	21150	360	/
MZ580-6×20	21360	21560	20050	114015	/	22150	360	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK630 Series Kelly bar

- Lifting eye (a) : 80 (customizable)
 Lifting eye (b) : 80 (customizable)
 Kelly pot length (c) : 800 (customizable)
 Transport width (E) : 880 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 250*250 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



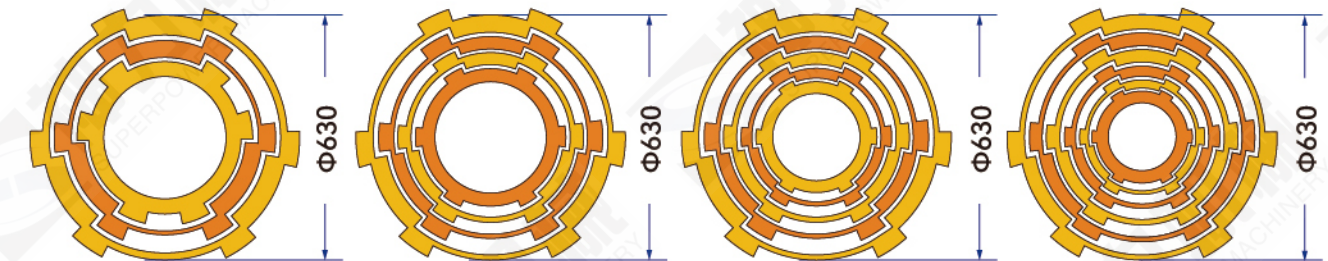
630-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS630-3×18	19460	19660	18050	51570	51070	19900	700	490
JS630-3×22	23460	23660	22050	63570	63070	24300	700	490
MZ630-3×20	21460	21660	20050	57700	/	21700	700	/
MZ630-3×21	22460	22660	21050	60700	/	22800	700	/

630-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS630-4×22	23390	23600	22050	83785	83285	28500	600	420
JS630-4×24	25390	25600	24050	91785	91285	30350	600	420
MZ630-4×20	21390	21600	20050	76065	/	24700	600	/
MZ630-4×21	22390	22600	21050	80065	/	25800	600	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



630-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS630-5×18	19390	19600	18050	83955	83355	24900	550	390
JS630-5×24	25390	25600	24050	113955	113355	32400	550	390
MZ630-5×20	21390	21600	20050	94385	/	26300	550	/
MZ630-5×21	22390	22600	21050	99385	/	27500	550	/

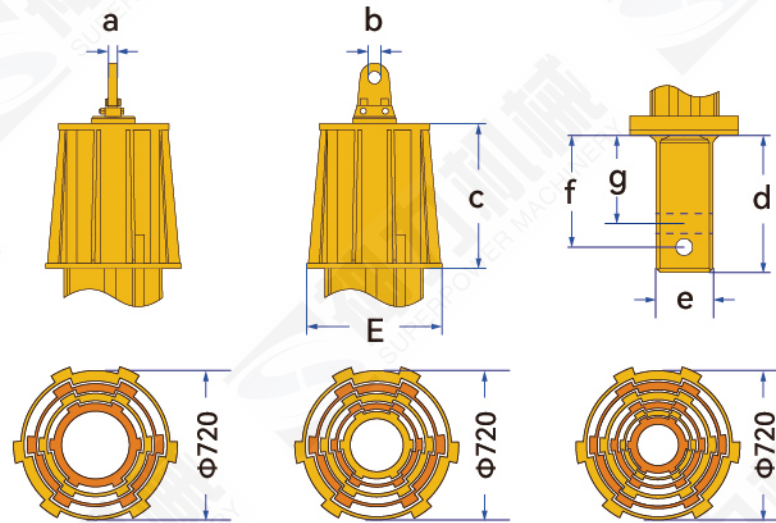
630-6 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ630-6×18	19390	19600	18050	101585	/	23500	420	/
MZ630-6×19	20390	20600	19050	107585	/	24700	420	/
MZ630-6×20	21390	21600	20050	113585	/	25800	420	/
MZ630-6×22	23390	23600	22050	125585	/	28150	420	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK720 Series Kelly bar

- Lifting eye (a) : 110 (customizable)
 Lifting eye (b) : 110 (customizable)
 Kelly pot length (c) : 900 (customizable)
 Transport width (E) : 1100 (customizable)
 Drive stub (d) : 600 (customizable)
 Drive stub (e) : 300*300 (customizable)
 Drive stub (f) : 480 (customizable)
 Drive stub (g) : 330 (customizable)



720-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS720-4×25	26675	26930	25050	94750	93950	35700	1000	700
JS720-4×27.5	29175	29430	27550	104750	103950	38700	1000	700
MZ720-4×24	25675	25930	24050	91150	/	31800	1000	/
MZ720-4×25	26675	26930	25050	95150	/	33000	1000	/

720-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS720-5×20	21675	21930	20050	92320	91320	33800	800	560
JS720-5×21	22675	22930	21050	97320	96320	35200	800	560
MZ720-5×20	21675	21930	20050	92920	/	31000	800	/
MZ720-5×21	22675	22930	21050	97920	/	32500	800	/

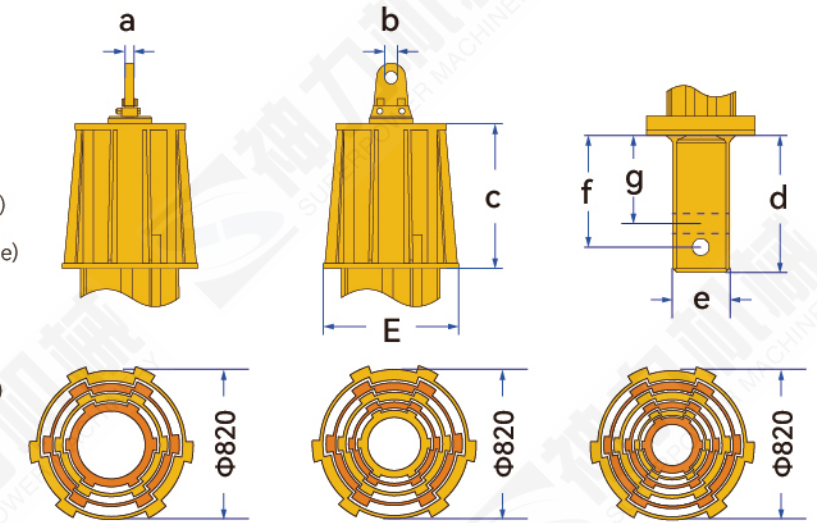
720-6 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ720-6×18	19675	19930	18050	100150	/	29900	550	/
MZ720-6×19	20675	20930	19050	106150	/	31300	550	/
MZ720-6×20	21675	21930	20050	112150	/	32800	550	/
MZ720-6×22	23675	23930	22050	124150	/	35560	550	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK820 Series Kelly bar

- Lifting eye (a) : 110 (customizable)
 Lifting eye (b) : 110 (customizable)
 Kelly pot length (c) : 900 (customizable)
 Transport width (E) : 1300 (customizable)
 Drive stub (d) : 600 (customizable)
 Drive stub (e) : 400*400 (customizable)
 Drive stub (f) : 440 (customizable)
 Drive stub (g) : 290 (customizable)



820-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS820-4×25	26655	26950	25050	94460	93660	47300	1400	980
JS820-4×27.5	29155	29450	27550	104460	103660	51300	1400	980
MZ820-4×24	25695	25950	24050	90840	/	45400	1400	/
MZ820-4×25	26655	26950	25050	94840	/	46950	1400	/

820-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS820-5×28	29655	29950	28050	131860	130860	55500	1100	770
JS820-5×30	31655	31950	30050	141860	140860	59300	1100	770
MZ820-5×29	30655	30950	29050	137440	/	52700	1100	/
MZ820-5×30	31655	31950	30050	142440	/	56500	1100	/

820-6 Series Kelly bar

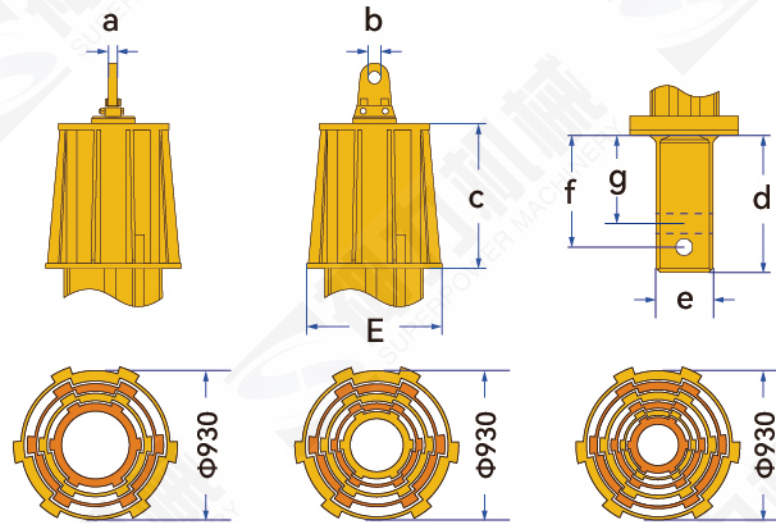
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ820-6×27	28655	28950	27050	152740	/	54500	800	/
MZ820-6×28	29655	29950	28050	158740	/	56500	800	/
MZ820-6×29	30655	30950	29050	164740	/	58500	800	/
MZ820-6×30	31655	31950	30050	170740	/	60500	800	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK930 Series Kelly bar

Lifting eye (a) : 110 (customizable)
Lifting eye (b) : 110 (customizable)
Kelly pot length (c) : 900 (customizable)
Transport width (E) : 1400 (customizable)

Drive stub (d) : 600 (customizable)
Drive stub (e) : 400*400 (customizable)
Drive stub (f) : 440 (customizable)
Drive stub (g) : 290 (customizable)



930-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS930-4×25	26635	26930	25050	94440	93640	49900	1600	1120
JS930-4×27.5	29135	29430	27550	104440	103640	54900	1600	1120
MZ930-4×24	25635	25930	24050	90820	/	47000	1600	/
MZ930-4×25	26635	26930	25050	94820	/	48900	1600	/

930-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS930-5×28	29635	29930	28050	131840	130840	67500	1400	980
JS930-5×30	31635	31930	30050	141840	140840	71500	1400	980
MZ930-5×29	30635	30930	29050	137420	/	68000	1400	/
MZ930-5×30	31635	31930	30050	142420	/	70000	1400	/

930-6 Series Kelly bar

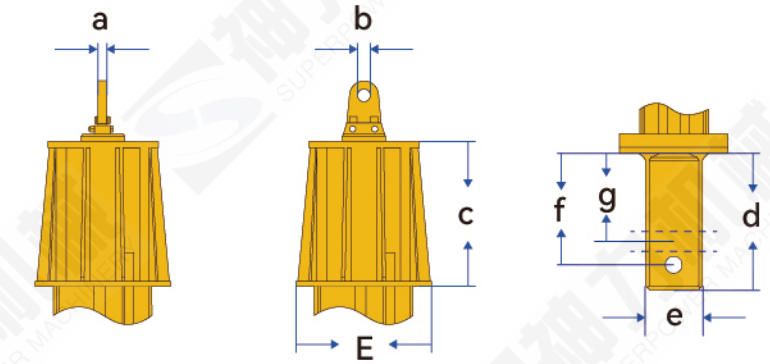
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ930-6×27	28655	28950	27050	152740	/	72000	1200	/
MZ930-6×28	29655	29950	28050	158740	/	74700	1200	/
MZ930-6×29	30655	30950	29050	164740	/	77400	1200	/
MZ930-6×30	31655	31950	30050	170740	/	80000	1200	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK343 Series Kelly bar

Lifting eye (a) : 50 (customizable)
Lifting eye (b) : 50 (customizable)
Kelly pot length (c) : 800 (customizable)
Transport width (E) : 530 (customizable)

Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)



343-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS343-3×9	10250	10420	9050	25740	25340	3950	200	140
JS343-3×12	13250	13420	12050	34740	34340	4950	200	140
MZ343-3×9	10250	10420	9050	25840	/	3800	200	/
MZ343-3×12	13250	13420	12050	34840	/	4800	200	/

343-4 Series Kelly bar

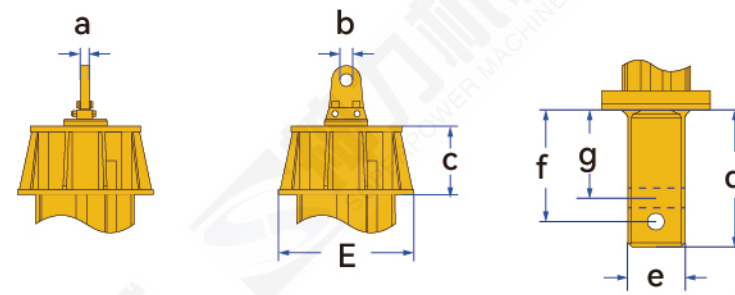
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS343-4×9	10240	10410	9050	34150	33650	4700	160	110
JS343-4×12	13240	13410	12050	46150	45650	6000	160	110
MZ343-4×9	10240	10410	9050	34270	/	4550	160	/
MZ343-4×12	13240	13410	12050	46270	/	5850	160	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



SK368 Series Kelly bar

- Lifting eye (a) : 50 (customizable)
 Lifting eye (b) : 50 (customizable)
 Kelly pot length (c) : 482 (customizable)
 Transport width (E) : 650 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 200*200 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



368-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS368-3×10	11250	11420	10050	28740	28340	4600	220	150
JS368-3×13	14250	14420	13050	37740	37340	5800	220	150
MZ368-3×10	11250	11420	10050	28840	/	4400	220	/
MZ368-3×13	14250	14420	13050	37840	/	5600	220	/

368-4 Series Kelly bar

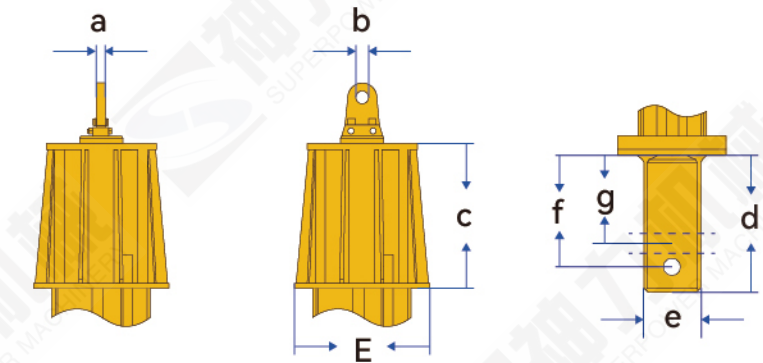
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS368-4×10	11245	11420	10050	37265	36765	5300	200	140
JS368-4×13	14245	14420	13050	49265	48765	6700	200	140
MZ368-4×10	11245	11420	10050	37385	/	5150	200	/
MZ368-4×13	14245	14420	13050	49385	/	6550	200	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



SK394 Series Kelly bar

- Lifting eye (a) : 42 (customizable)
 Lifting eye (b) : 60 (customizable)
 Kelly pot length (c) : 950 (customizable)
 Transport width (E) : 740 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 200*200 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



394-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS394-3×10	11250	11420	10050	28445	28045	5500	300	210
JS394-3×13	14250	14420	13050	37445	37045	6800	300	210
MZ394-3×10	11250	11420	10050	28845	/	5350	300	/
MZ394-3×13	14250	14420	13050	37845	/	6650	300	/

394-4 Series Kelly bar

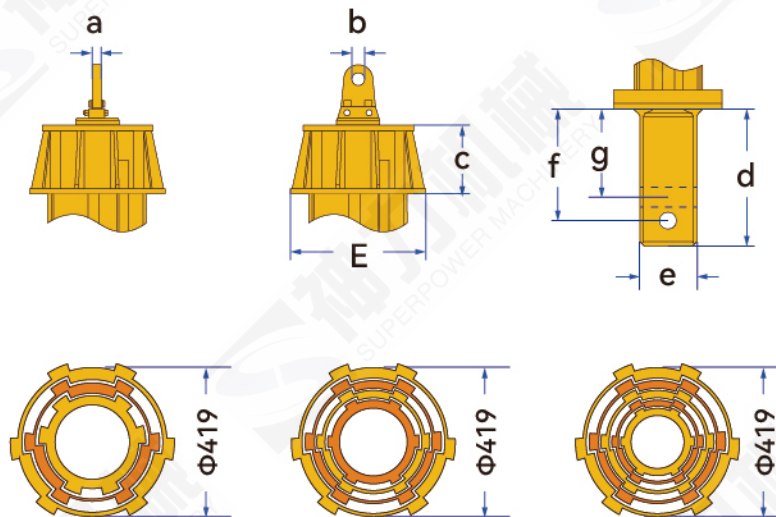
Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS394-4×10	11250	11420	10050	37525	37025	6300	250	180
JS394-4×13	14250	14420	13050	49525	49025	7800	250	180
MZ394-4×10	11250	11420	10050	37645	/	6100	250	/
MZ394-4×13	14250	14420	13050	49645	/	7600	250	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



SK419 Series Kelly bar

Lifting eye (a) : 40 (customizable)
Lifting eye (b) : 60 (customizable)
Kelly pot length (c) : 300 (customizable)
Transport width (E) : 750 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

419-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS419-3×10	11170	11340	10050	28695	28295	6500	360	250
JS419-3×14.5	15670	15840	14550	42195	41795	9000	360	250
MZ419-3×12	13170	13340	12050	34795	/	6300	360	/
MZ419-3×13	14170	14340	13050	37795	/	8800	360	/

419-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS419-4×13.5	14750	14920	13550	50960	50460	9300	300	210
JS419-4×18	19250	19420	18050	68960	68460	12100	300	210
MZ419-4×14	15250	15420	14050	53080	/	9100	300	/
MZ419-4×15	16250	16420	15050	57080	/	11900	300	/

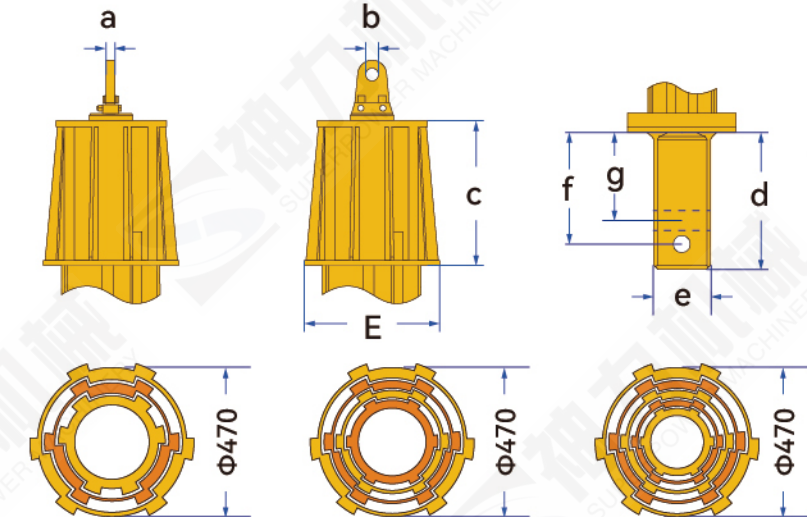
419-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ419-5×13.5	14760	14930	13550	64430	/	9500	180	/
MZ419-5×15.5	16760	16930	15550	74430	/	10700	180	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK470 Series Kelly bar

Lifting eye (a) : 40 (customizable)
Lifting eye (b) : 80 (customizable)
Kelly pot length (c) : 1150 (customizable)
Transport width (E) : 820 (customizable)



Drive stub (d) : 480 (customizable)
Drive stub (e) : 200*200 (customizable)
Drive stub (f) : 390 (customizable)
Drive stub (g) : 290 (customizable)

470-3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS470-3×13	14330	14500	13050	37500	37100	9300	460	320
JS470-3×14	15330	15500	14050	40500	40100	9900	460	320
MZ470-3×13	14330	14500	13050	37600	/	9200	460	/
MZ470-3×14	15330	15500	14050	40600	/	9700	460	/

470-4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS470-4×15	16320	16490	15050	57010	56510	12750	420	290
JS470-4×18	19320	19490	18050	69010	68510	15100	420	290
MZ470-4×12	13320	13490	12050	45290	/	10300	420	/
MZ470-4×14	15320	15490	14050	53290	/	11850	420	/

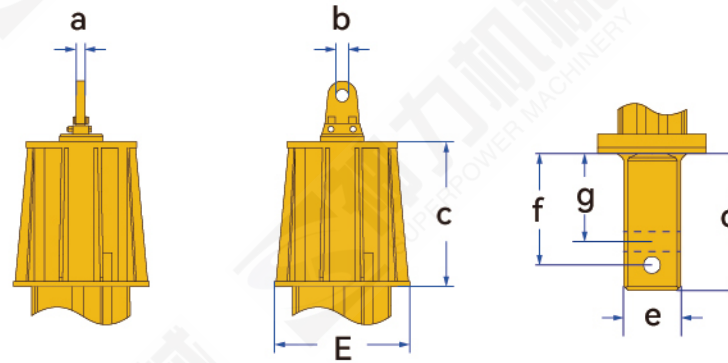
470-5 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
MZ470-5×13	14330	14500	13050	61425	/	10300	280	/
MZ470-5×15	16330	16500	15050	71425	/	11650	280	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.

SK560 (559) Series Kelly bar

- Lifting eye (a) : 80 (customizable)
 Lifting eye (b) : 80 (customizable)
 Kelly pot length (c) : 850 (customizable)
 Transport width (E) : 780 (customizable)
 Drive stub (d) : 480 (customizable)
 Drive stub (e) : 250*250 (customizable)
 Drive stub (f) : 390 (customizable)
 Drive stub (g) : 290 (customizable)



560 (559) -3 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS560-3×14	15300	15520	14050	40460	40060	11900	500	350
JS560-3×18	19300	19520	18050	52460	52060	14700	500	350
MZ560-3×15	16280	16500	15050	43540	/	12400	500	/
MZ560-3×17	18280	18500	17050	49540	/	13750	500	/

560 (559) -4 Series Kelly bar

Kelly bar type	A (mm)	B (mm)	D (mm)	C (mm)	C1 (mm)	Theoretical weight (kg)	Rated torque (kNm)	Rated pressure (kN)
JS560-4×15	16300	16500	15050	56305	55805	16000	500	350
JS560-4×18	19300	19500	18050	68305	67805	18750	500	350
MZ560-4×17	18300	18500	17050	64585	/	17600	500	/
MZ560-4×16	17300	17500	16050	60585	/	16650	500	/

※Other lengths and other drive stub dimensions on request; Weight tolerance ±5%.



Kelly bar for low working space

- 1、Suitable for highly constrained work environments
- 2、The hoisting swivel elevator is installed inside the Kelly bar to shorten the Kelly bar installation distance
- 3、Multi-section composition to meet the requirements of drilling depth
- 4、The Kelly bar structure can be customized, which can be adapted to the rotary drilling rig of various brands



Full interlocking Kelly bar

- 1、The pipes are made of high strength alloy steel with excellent toughness and wear resistance
- 2、The inner and outer drive key are forged with high strength wear-resistant steel
- 3、The inner and outer lock points are cut together to ensure the tight fit of each lock point
- 4、The drive stub is forged with high-quality alloy steel, which has high strength and better wear resistance
- 5、The whole series of Kelly bars can chose spring, disc spring, rubber pad and other shock absorption forms
- 6、The Kelly bar structure can be customized, which can be adapted to the rotary drilling rig of various brands



Assembly parts of Kelly bar



Shock absorbing spring



Drainage tray



Rubber pad assembly



Shock-absorbing pad



Disc spring



Extension part



Drive sleeve



Extension part/10m

All spare parts can be customized to your needs

Repair Kits-Outer Section

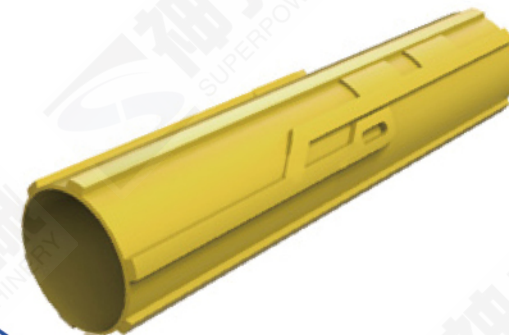
The functionality of Kelly bars can be significantly extended by replacing the most heavily stressed components in regular intervals. Please refer to the 《Kelly Bar Use and Maintenance Manual》 provided by our company.

We also offer complete repair kits for every type of standard Kelly bar. This allows the maintenance and repair works to be carried out by the customer's own according to the 《Kelly bar maintenance and repair instructions》 provided by our company. Depending on actual requirements, repair kit can either be ordered as complete sets or as individual components.

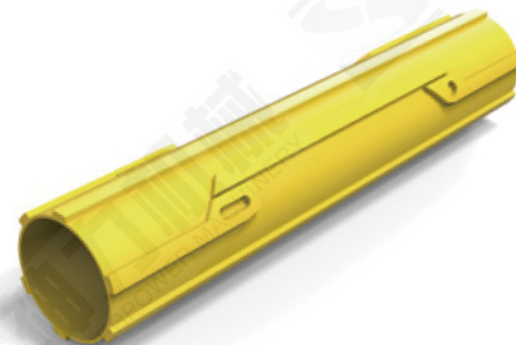
When placing an order for maintenance or repair standard Kelly bar, please include the type of Kelly bar and its serial number. When repairing other brand Kelly bar, please provide the relevant dimensions according to the figure below, or contact our service engineer for on-site measurement.

Remarks:

1. Use the original repair parts to ensure the quality of the parts
2. When carry out your own repairs, the work may only be performed by fully qualified specialized welding personnel in accordance with the 《Kelly bar maintenance and repair instructions》 provided by our company



The upper part of outer section

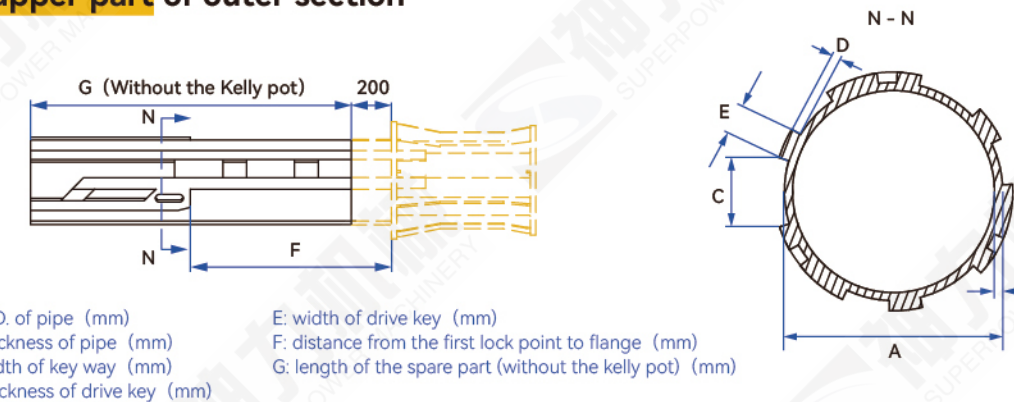


The middle part of outer section

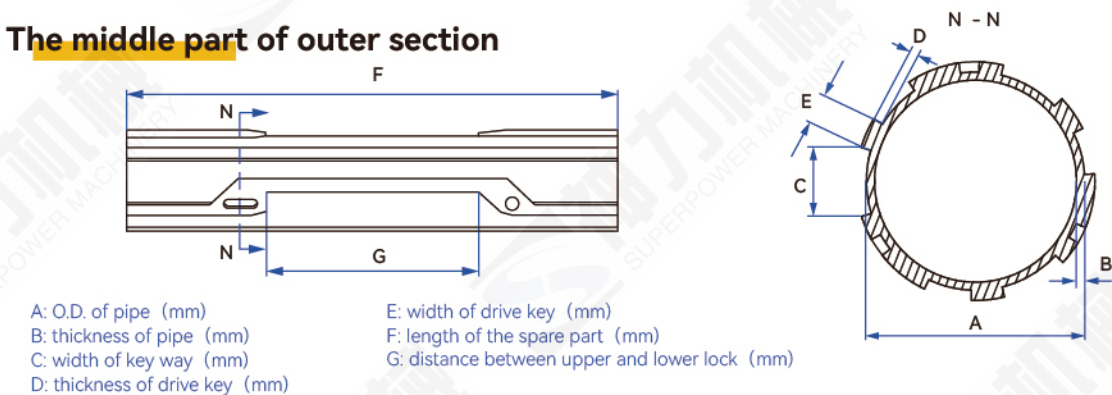


The driver device of outer section

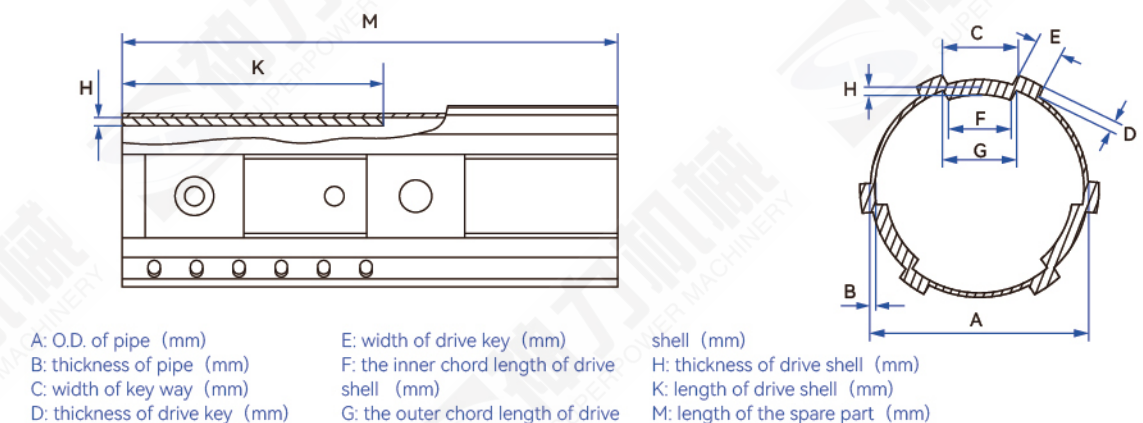
The upper part of outer section



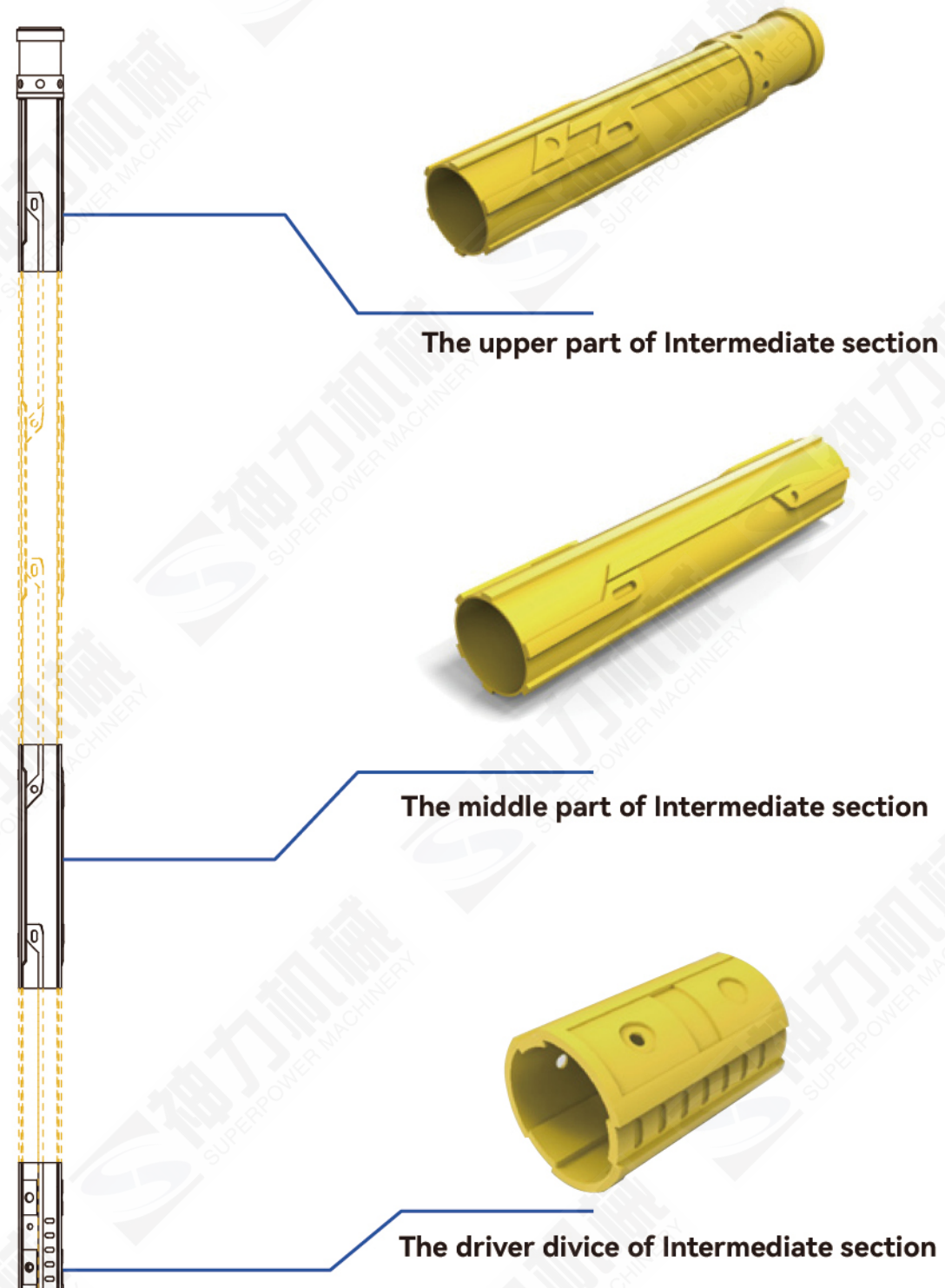
The middle part of outer section



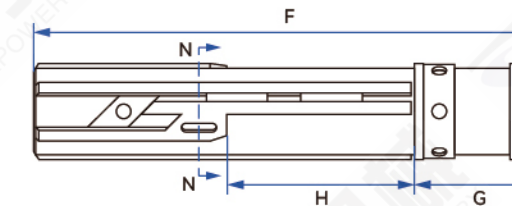
The driver device of outer section



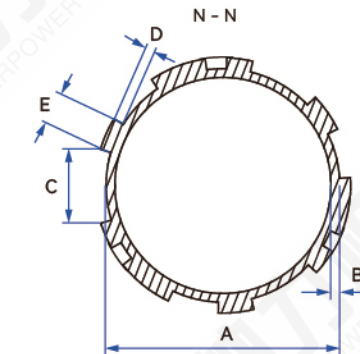
Repair Kits- Intermediate Section



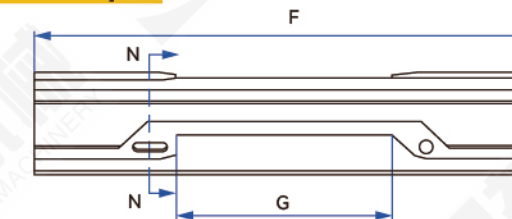
The upper part of Intermediate section



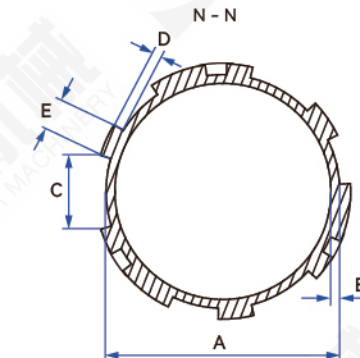
- A: O.D. of pipe (mm)
B: thickness of pipe (mm)
C: width of key way (mm)
D: thickness of drive key (mm)
E: width of drive key (mm)
F: length of the spare part (mm)
G: distance from stop ring to upper end of pipe (mm)
H: distance from stop ring to the first lock point (mm)



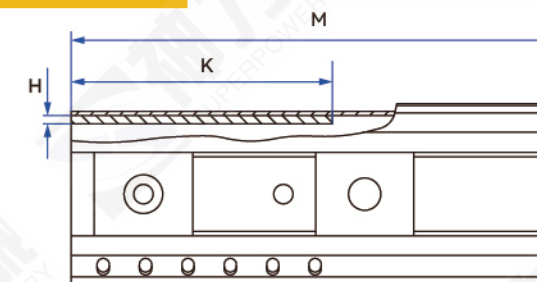
The middle part of Intermediate section



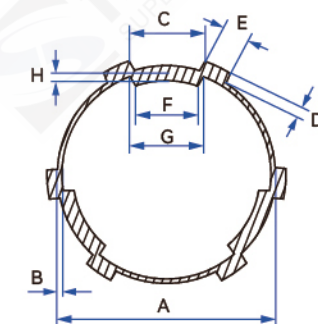
- A: O.D. of pipe (mm)
B: thickness of pipe (mm)
C: width of key way (mm)
D: thickness of drive key (mm)
E: width of drive key (mm)
F: length of the spare part (mm)
G: distance between upper and lower lock (mm)



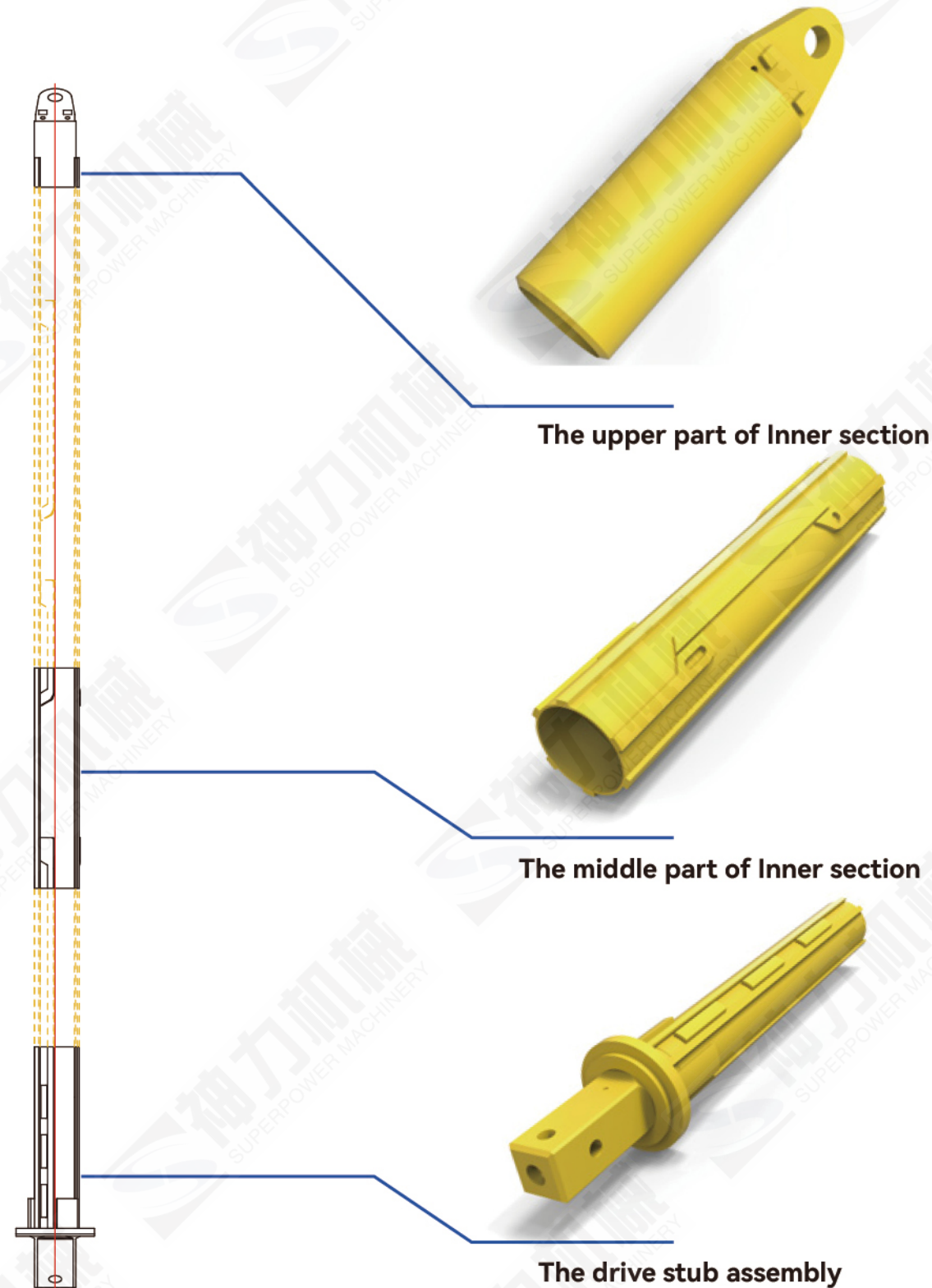
The driver device of Intermediate section



- A: O.D. of pipe (mm)
B: thickness of pipe (mm)
C: width of key way (mm)
D: thickness of drive key (mm)
E: width of drive key (mm)
F: the inner chord length of drive shell (mm)
G: the outer chord length of drive shell (mm)
H: thickness of drive shell (mm)
K: length of drive shell (mm)
M: length of the spare part (mm)



Repair Kits- Inner Section

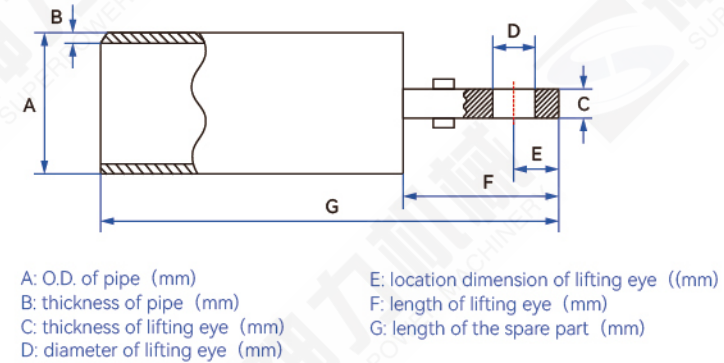


The upper part of Inner section

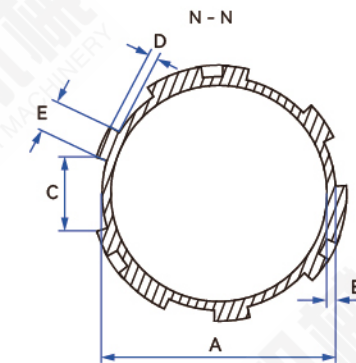
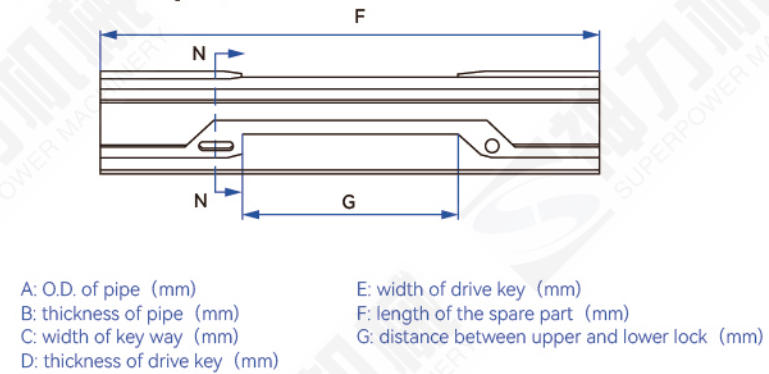
The middle part of Inner section

The drive stub assembly

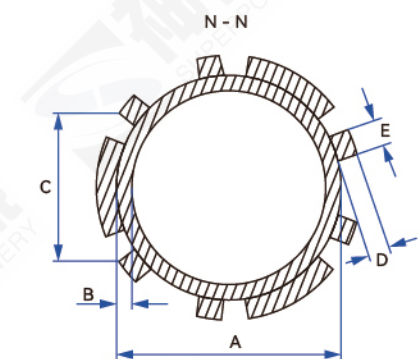
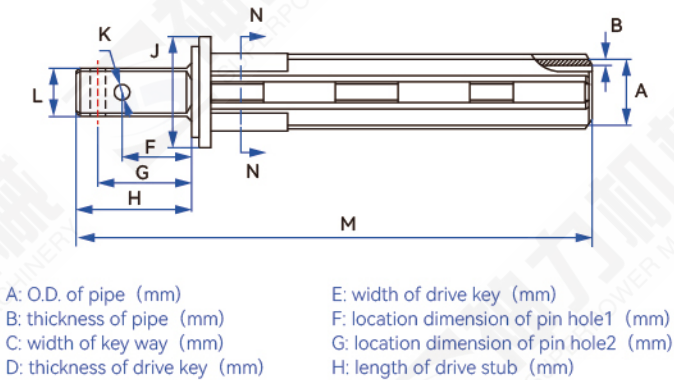
The upper part of Inner section



The middle part of Inner section



The drive stub assembly



Manufacturing Facility



▲ Automatic Welding Line



▲ CNC Plasma Cutting Machine



▲ Plasma Cutting Robot Station



▲ Arc-welding Robot Station



▲ Shot Blasting Machine



▲ Spray Room

Application Cases



▲ Singapore Affordable Housing Project



▲ Saudi Arabia Future City Project



▲ Zhejiang Qidu Standard Embankment Greenway Project



▲ Hubei High-Speed Rail Project



▲ Fujian Cross-sea Bridge Project



▲ Mozambique Housing Project