

DRILL BIT

PDC Bit

PDC (polycrystalline diamond drilling bits) is processed in line with API Spec Q1&API Spec7. Jereh Drilltech supplies different kinds of drilling bits from 4"~12 1/4" for different purposes, ranging from PDC bit, triangle polycrystalline diamond drilling bits, cylindrical PDC bit, coring bit, cast bit, PDC deflecting bit etc as per requirements.



PDC Bit

Rock Bit

Rock bit is designed for multiple drilling applications, such as Gas and Oil production, Mining and Mineral Exploration, Water Well production, and various other industrial uses. Rock bits Jereh Drilltech supplied are made from high quality materials (steel forging, carbide, and others) as per API spec-7 or ISO9001 system, including S series elastomer sealed journal bearing bit, S series non-sealed journal bearing bit, SV series six-point position stabilization motor bit, SL series pilot hole-reaming core bit, SD series single cone bit, etc.

Please click the following link to learn detailed specifications of our rock bits.



Rock Bit

Detailed Technical Specification of Rock Bit, see below attached file.

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S Series Elastomer Sealed Journal Bearing Bit



Product Application

It can stand higher WOB at a normal rotary speed. Combined with different shaped compacts, compact numbers and the exposure height, it can be used for drilling in various formations.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	3 1/2	88.9	S517C
2	4 5/8	117.5	S126 S517
3	4 3/4	120.7	S116C
4	5 7/8	149.2	S216 S537 S547 S637
5	6	152.4	S117W S216 S246 S517 S547
6	6 1/4	158.8	S127W S247 S517 S527 S547 S637
7	6 1/2	165.1	S127W S217 S517 S537
8	6 3/4	171.5	S116GW S447 S537
9	7 1/2	190.5	S127W S217 S517 ST517 S527 ST527 S617
10	7 7/8	200.0	S117GW S437G S517G S527G S537G S547G S547GY S627G S617GY S637GY
11	8 3/8	212.7	S217 S527 S547
12	8 1/2	215.9	ST117W ST127W S137W S217 S247 ST437GK ST447GK ST517GK ST527GK ST537G ST547G S617G S627G S637G
13	8 3/4	222.3	S116GW S437GK ST517G S537G S627G
14	9 1/2	241.3	ST117CW ST127GW ST417G ST437G ST517G ST527G ST537G
15	9 5/8	244.5	ST437G ST517G S527G
16	9 7/8	250.8	S117GW ST417GK ST437G ST517G S527G
17	10	254.0	S126W
18	10 5/8	269.9	ST127GW S217G ST437G ST517G ST547G
19	11	279.4	S117GW S517G S537G
20	11 5/8	295.3	S117GW S127GW S137GW S217G ST417G ST517G ST537G ST547G

21	12	304.8	S126W S216 ST517 ST537 ST547 S617
22	12 1/4	311.2	ST117W S127W S137 ST417GK ST437G ST517G ST527G ST537G ST547G ST617GY S627G S637G
23	12 3/8	314.0	ST117W S127W S137 ST417GK ST437G ST517G ST527G ST537G ST547G ST617GY S627G S637G
24	12 15/32	316.5	ST117W S127W S137 ST417GK ST437G ST517G ST527G ST537G ST547G ST617GY S627G S637G
25	13 1/8	333.4	S437 S517 S527 S537 S547
26	13 5/8	346.1	S437 S515 S517
27	13 3/4	349.3	S437 S517
28	14 3/4	374.7	S117W S127W S137 S517 S527
29	15 1/2	393.7	S127GW S217G S517G S527G S537G S547G
30	16	406.4	ST117GW ST127GW S127G ST517G ST527G S535 ST537G ST547G S545
31	17 1/2	444.5	ST117GW S127W S137 ST437G ST517G ST527G ST537G ST547G
32	18	457.2	ST547G
33	18 1/2	469.9	S547G

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	116 117	0.35~0.8	150~80
2	126 127	0.35~0.9	150~70
3	136 137	0.35~1.0	120~60
4	216 217	0.4~1.0	100~60
5	246 247	0.4~1.0	90~50
6	417 437 447	0.35~0.9	150~70
7	517 527	0.35~1.0	120~60
8	537 547	0.45~1.0	120~50
9	617 627	0.45~1.1	90~50
10	637	0.5~1.2	80~40

S Series Non-sealed Journal Bearing Bit



Product Application

It's applicable for drilling shallow well, water well and geothermal well.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	4 1/4	107.9	S131C S321C
2	4 5/8	117.5	S241C
3	4 3/4	120.6	S241C
4	5 5/8	142.9	S121 S241 S321
5	6	152.4	S211
6	6 1/4	158.7	S121 S241 S321
7	6 3/4	171.4	S121 S241 S321
8	7 1/2	190.5	S121
9	7 7/8	200.0	S121 S131 S241 S321
10	9 7/8	250.8	S121 S131 S241 S321
11	12 1/4	311.1	S211

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	111	0.3~0.75	200~80
2	121	0.3~0.85	200~80
3	131	0.3~0.95	180~80
4	211	0.35~0.95	180~80
5	241	0.35~0.95	180~70
6	321	0.4~1.0	150~70

SV Series Six-point Position Stabilization Motor Bit



Product Application

Applicable for down hole power drilling tools and high speed drilling. SV series six-point position stabilization motor bit, is the ideal tool for drilling directional well and horizontal well.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch(in)	Metric mm)	
1	8 1/2	215.9	SVT437G SVT447G SVT517G SVT527G SVT537G SVT547G SVT617G
2	9 1/2	241.3	SVT437G SVT447G SVT517G SVT527G SVT537G SVT547G SVT617G
3	12 1/4	311.1	SVT437G SVT447G SVT517G SVT527G SVT537G SVT547G SVT617G

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	437 447	0.35~0.9	240~70
2	517 527	0.35~1.0	220~60
3	537 547	0.45~1.0	220~50
4	617	0.45~1.1	200~50

SL Series Pilot Hole-reaming Core Bit



Product application

This series of bit is widely used for various formations . It can be consistently drilling at high speed and has good gauge protection.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	28	711.2	SL117GW SL127GW SL517G SL537G
2	30	762.0	SL117GW SL127GW SL517G SL537G
3	32	812.8	SL117GW SL127GW SL517G SL537G
4	36	914.4	SL117GW SL127GW SL517G SL537G

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	517 537	0.4~1.0	120~60
2	117 127	0.35~0.9	150~70

SJ Series Metal Sealed Bearing Bit



Product Application

Metal face sealed bit is characterized by steady performance. It is of a longer service life than common rubber seal bit. It is applicable for down hole power drilling tools and high speed rotational drilling.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	7 7/8	200.0	SJ517G SJ527G SJ547GY SJ617GY SJ627G SJ637GY
2	8 1/2	215.9	SJT117GW SJT127GW SJT437GK SJT447GK SJT517G SJT537G SJT617GY SJT627G SJT637GY
3	9 1/2	241.3	SJT117GW SJT127GW SJT437GK SJT517G SJT537G SJT547G SJT617GY
4	12 1/4	311.1	SJT117GW SJT127GW SJT437GK SJT517G SJT537G SJT617GY SJT627G SJT637GY
5	17 1/2	444.5	SJT117GW SJT127GW SJT517G SJT537G SJT617GY SJT627G SJT637GY

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	117	0.35~0.8	240~80
2	127	0.35~0.9	240~70
3	437 447	0.35~0.9	240~70
4	517 527	0.35~1.0	220~60
5	537 547	0.45~1.0	220~50
6	617 627	0.45~1.1	200~50
7	637	0.5~1.1	180~40

SK Series Air Cooling Roller Bearing Bit



Product Application

It is applied for mining operation.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	9 7/8	250.8	SK512G SK542G SK612G SK732G

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	512	0.35~0.7	120~60
2	542	0.4~0.8	100~60
3	612	0.5~0.9	100~60
4	732	0.6~1.1	90~50

Note: the maximum value of WOB and RPM in this table can not be adopted at the same time

SG Series Sealed Improved Roller Bearing Bit



Product Application

Higher than common roller bearing tri-cone bit in both loading capacity and drilling speed, SG series bit is more suitable for high speed drilling.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	16	406.4	SGT115GW
2	17 1/2	444.5	SGT115GW SG125G SG135G SGT435G SGT515G SGT525G SGT535G SGT545G SGT615G SGT625G SGT635G
3	20	508.0	SG125CGW SG215CGW

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	115	0.3~0.75	200~80
2	125	0.3~0.85	200~80
3	135	0.3~0.95	180~80
4	215	0.35~0.95	180~80
5	435 445	0.35~0.95	150~60
6	515	0.3~0.8	200~80
7	535 545	0.35~0.9	180~80
8	615 625	0.35~1.0	180~80
9	635	0.4~1.1	150~60

Note: the maximum value of WOB and RPM in this table can not be adopted at the same time.

S Series Elastomer Sealed Roller Bearing Bit



Product Application

S series elastomer sealed roller bearing bit, can realize higher rotary speed under medium-low WOB, and be applied to drill in soft-to-medium-soft formations.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	5 7/8	149.2	S214
2	7 1/2	190.5	S124C S134C S244C
3	7 7/8	200.0	S124 S124 S134
4	8 3/8	212.7	S215
5	8 1/2	215.9	S124W S134
6	9 1/2	241.3	S124G
7	9 5/8	244.5	S114G S124G S134G
8	9 7/8	250.8	S115GW
9	9 1/2	241.3	S124G
10	10 5/8	269.9	S115GW S125GW S215G
11	11	279.4	S115GW
12	11 5/8	295.3	S115GW S125GW S215G
13	12	304.8	S124W
14	12 1/4	311.2	ST115GW ST125GW S135 S214 S244 S324
15	13 5/8	346.1	ST115GW S124W
16	13 3/4	349.3	ST115W ST125W ST135W
17	14 3/4	374.6	S115W S125W S135W
18	15	381.0	S124G S244G
19	15 1/2	381.0	S115GW S125GW S135GW S215G
20	17 1/2	444.5	S115GW S125GW S135G S215G
21	19 1/4	489.0	S115CGW S225CG
22	20	508.0	S125CGW S215CGW S515CG ST515CG S525CG ST525CG ST545CG
23	22	558.8	S125C

24	24	609.0	S125C
25	26	660.4	S124C S134C S525CG
26	36	914.4	S124CW

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	114 115	0.3~0.75	180~60
2	124 125	0.3~0.85	180~60
3	134 135	0.3~0.95	150~60
4	214 215	0.35~0.95	150~60
5	244	0.35~0.95	150~50
6	324	0.4~1.0	120~50
7	515 525	0.35~0.9	180~60
8	535 545	0.35~1.0	150~60
9	615 625	0.45~1.1	120~50
10	635	0.5~1.2	100~40

Note: the maximum value of WOB and RPM in this table can not be adopted at the same time.

SD Series Single Cone Bit



Product Application

SD series single cone bit is widely applied to cut and track window in medium-deep well. Under the same condition (same bit weight and same formation), working torque of single cone bit is lower than PDC bit so that it decrease the problem of tool joint expansion that happening to small size drilling tool and avoid down hole accident.

Available sizes, types and recommended operating parameters of bits

No	Bit Size		Bit Type
	Inch (in)	Metric (mm)	
1	4 1/8	104.8	SD527 SD547 SD617
2	4 1/2	114.3	SD527 SD547 SD617
3	4 5/8	117.5	SD527 SD547 SD617
4	4 7/8	123.8	SD527 SD547 SD617
5	5 1/2	139.7	SD527 SD547 SD617
6	6	152.4	SD527 SD547 SD617
7	6 1/2	165.1	SD527 SD547 SD617
8	7 1/2	190.5	SD527 SD547 SD617
9	7 7/8	200.0	SD527 SD547 SD617
10	8 1/2	215.9	SD527 SD547 SD617

No	IADC Code	Recommendation	
		WOB (KN/mm)	Rotary Speed (rpm)
1	527	0.3~0.7	120~50
2	547	0.3~0.7	100~50
3	617	0.4~0.8	90~50

Note: the maximum value of WOB and RPM in this table can not be adopted at the same time.



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