

DRILLING EQUIPMENT



Drilling Equipment Lineup

◆ Stabilizer

1. Welded Blade Stabilizer
2. Sleeve Type Stabilizer
3. Integral Blade Stabilizer

◆ Slip

4. Drill Collar Slip
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6. Rotary Slip Type "R"
7. Rotary Slip Type "D" Short
8. Rotary Slip Type "D" Long

◆ Tong

9. Rotary Tong Type "A"
10. Rotary Tong Type "B"
11. Rotary Tong Type "C"

◆ Elevator

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24. Hole Opener

Stabilizer

1. Welded Blade Stabilizer



- 1. Welded Blade Stabilizer
- 2. Sleeve Type Stabilizer
- 3. Integral Blade Stabilizer

Hole Size inch	Body O.D. inch	Body I.D. inch	Blade Width mm	Connction -
5-5/8 ~ 5-7/8	4-3/4	2-1/4	40	3-1/2IF
7-3/8 ~ 7-7/8	5-3/4 ~ 6-1/4	2-1/4	45	4IF
8-3/8 ~ 9	6 ~ 7	2-1/4 ~ 2-13/16	45	4IF
9-3/8 ~ 9-7/8	6-3/4 ~ 8	2-1/4 ~ 2-13/16	45	4IF, 6-5/8Reg
10-5/8 ~ 11	7 ~ 8	2-1/4 ~ 2-13/16	45	4IF, 6-5/8Reg
11-1/2 ~ 12-1/4	7 ~ 9-5/8	2-3/4 ~ 2-13/16	45	4-1/2IF, 6-5/8Reg
14-3/4 ~ 15	7-3/4 ~ 10	2-3/4 ~ 3	55	6-5/8Reg, 7-5/8Reg
17 ~ 17-1/2	7-3/4 ~ 11	2-3/4 ~ 3	60	6-5/8Reg, 7-5/8Reg
22	8 ~ 11	2-3/4 ~ 3	65	6-5/8Reg, 7-5/8Reg
26	8 ~ 11	2-3/4 ~ 3	65	6-5/8Reg, 7-5/8Reg

2. Sleeve Type Stabilizer

Hole Size inch	Body (Upper) O.D. inch	Body (Lower) O.D. inch	Effective Length inch	Sleeve Length mm
8-1/2 ~ 9-7/8	6 ~ 6-1/2	6-1/4	64-1/2	350
10-5/8	6-1/2	6-1/4	64-1/2	410
10 ~ 12-1/8	7 ~ 7-1/4	7-3/8	66	410
12-1/4 ~ 14-3/4	7-3/4 ~ 8-1/4	7-3/4	66	410
15 ~ 17-1/2	9 ~ 10	9-5/8	66	510

Slip

Minimum order Volume : 5 sets

4. Drill Collar Slip



Pipe O.D. Size Range (inch)		Segment Qty.	Weight	Capacity
Minimum	Maximum	Piece	Kgf	tonf
3	4-1/2	12	72	80
4-1/4	5-3/4	12	70	80
5-1/2	7	12	67	80
6-3/4	8-1/4	12	53	80
8-1/2	10	12	45	80

5./6. Rotary Slip Type "S"/"R"



Type	Slip Body Size inch	Pipe Size O.D. inch	Slip Length inch	Slip Qty. Piece	Weight Kgf	Capacity tonf
S	4-1/2	2-3/8	6	36	73.5	100
		2-7/8			71.0	
		3-1/2			66.0	
		4-1/2			61.5	
R	4-1/2	4-1/2	10	60	92	150

7./8. Rotary Slip Type "D" Short/Long



Type	Slip Body Size inch	Pipe Size O.D. inch	Slip Length inch	Slip Qty. Piece	Weight Kgf	Capacity tonf
D Short	4-1/2	2-3/8	12	18	78	100
		2-7/8			76	
		3-1/2			73	
		4-1/2			66	
D Long	4-1/2	2-3/8	16	24	91	200
		2-7/8			89	
		3-1/2			85	
		4-1/2			78	

Tong

Minimum order Volume : 5 sets

9. Rotary Tong Type "A"



10. Rotary Tong Type "B"

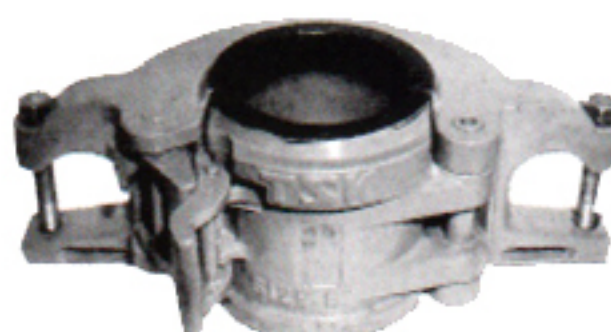


11. Rotary Tong Type "C"



Parts Discription		Qty	Unit Weight (kgf)		
			Type "A"	Type "B"	Type "C"
Lever		1	58	37	18
Long Jaw		1	42	35	17
Short Jaw		1	28	21	13
Latch		1	12	11	6.5
Hanger		1	29	29	12.5
Latch Spring		2	0.1	0.075	0.05
Hinge Pin		4	2	1.5	0.7
Slip		4	0.5	0.25	0.2
Lug Jaw	No.1	1	17	15	8
	No.2	1	20	16	8
	No.3	1	20	18	9.5
	No.4	1	25	20	12
	No.5	1	23	24	16.5
	No.6	1	27	25	-
	No.7	1	34	-	-
	No.8	1	40	-	-
	No.9	1	42	-	-
Bolt		3	0.55	0.55	0.2
Nut		3	0.07	0.07	0.02
Spring Washer		2	0.01	0.01	0.005
Grease Nipple		4	0.005	0.005	0.005
Cotter Pin		4	0.008	0.01	0.003
Cotter Pin		8	0.013	0.005	0.005

12. Side Door Elevator



Model	Capacity	Applicable Link Size
	tonf	inch
SD-100	100	1-3/4 ~ 2-3/4
SD-150	150	1-3/4 ~ 3-1/2
SD-250	250	2-1/4 ~ 3-1/2

Casing Size [inch]

4-1/2, 4-3/4, 5, 5-1/2, 5-3/4, 6, 6-5/8, 7, 7-5/8, 8-5/8, 9, 9-5/8, 10-3/4, 11-3/4, 12-3/4, 13-3/8, 16, 16-3/4, 18-5/8, 20

* Over 16inch Only SD-150 and SD-250 applied

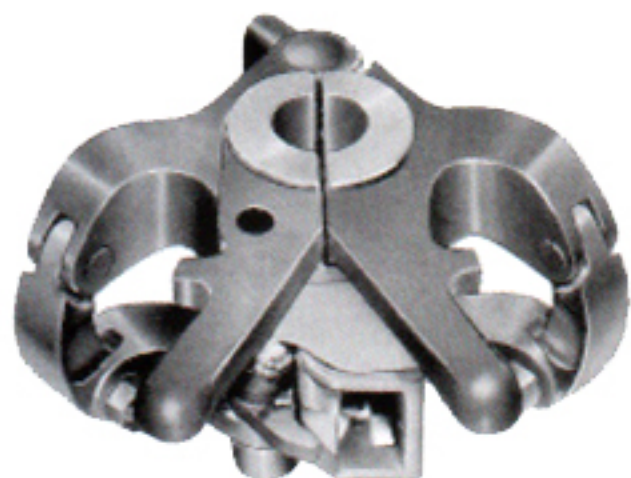
13. Single Joint Elevator



Size (inch)	5-1/2	7	9-5/8	11-3/4	13-3/8	16	20
Weight (kgf)	17	21	24	28	33	36	47
Capacity (tonf)	3						

14. Center Latch Elevator

■ Square Shoulder Type



Model	Capacity	Applicable Link Size	Weight
	tonf	inch	kgf
CE-35	35	1-3/4	34
CE-65	65	1-3/4 ~ 2-1/4	47
CE-100	100	1-3/4 ~ 2-3/4	62
CE-200	200	2-1/4 ~ 3-1/2	160
CE-250	250	2-1/4 ~ 3-1/2	230
CE-350	350	2-3/4 ~ 3-1/2	270

Drill Pipe		Tool Joint	Model					
Size(inch)	Style		CE-35	CE-65	CE-100	CE-200	CE-250	CE-350
2-3/8	IU	REG	○	○	○	○		
	EU	SL-H90	○	○	○	○		
2-3/8	IU	REG	○	○	○	○		
	EU	NC31 (IF) SL-H90	○	○	○	○		
3-1/2	IU	REG		○	○	○	○	
	EU	NC38 (IF) SL-H90			○	○	○	
4	IU	NC40 (FH) H90			○	○	○	○
	EU	NC46			○	○	○	○
4-1/2	IU	NC46 (XH) FH			○	○	○	○
	IEU	H90			○	○	○	○
	EU	NC50 (IF)			○	○	○	○
5	IEU	NC50(XH) 4-1/2 IF 5-1/2 FH			○	○	○	○
5-1/2	IEU	FH				○	○	○

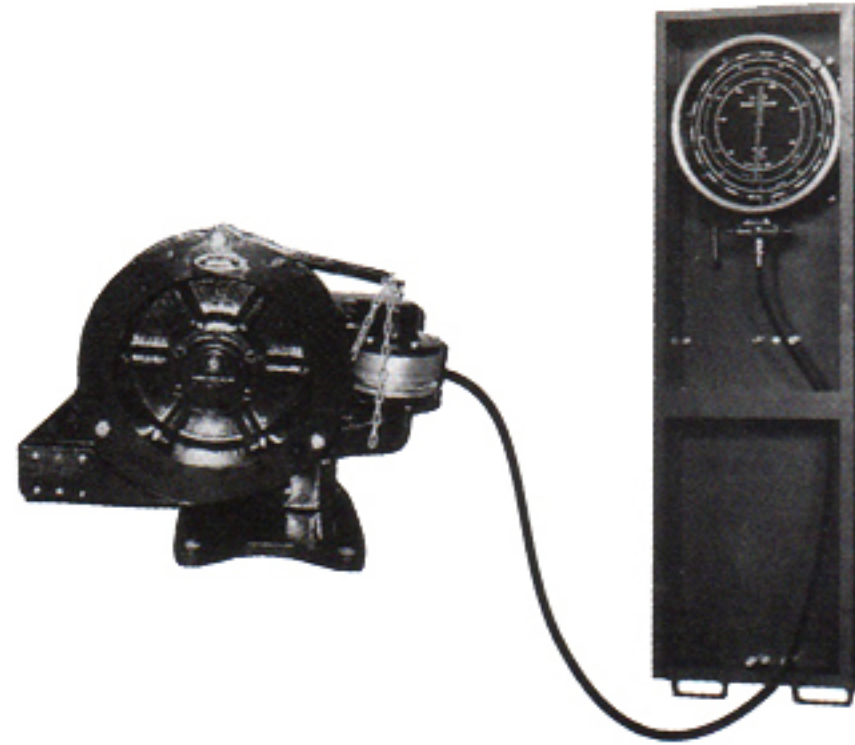
■ 18° Taper Shoulder Type



Model	Capacity	Applicable Link Size	Weight
	tonf	inch	kgf
CET-100	100	1-3/4 ~ 2-3/4	130
CET-200	200	2-1/4 ~ 3-1/2	250
CET-250	250	2-1/4 ~ 3-1/2	340
CET-350	350	2-3/4 ~ 3-1/2	352

Drill Pipe		Tool Joint	Model			
Size(inch)	Style		CET-100	CET-200	CET-250	CET-350
2-3/8	EU	NC26(IF) SL-H90	○	○		
2-7/8	IU	REG	○	○		
	EU	NC31(IF) SL-H90	○	○		
3-1/2	IU	REG FH	○	○	○	
	EU	NC36(IF) SL-H90	○	○	○	
4	IU	NC40(FH) H90	○	○	○	○
	EU	NC46(IF)	○	○	○	○
4-1/2	IU	NC46 (XH) FH	○	○	○	○
	IEU	H90	○	○	○	○
	EU	NC50(IF)	○	○	○	○
5	IEU	NC50(XH) 4-1/2 IF 5-1/2 FH	○	○	○	○
5-1/2	IEU	FH		○	○	○

15. Weight Indicator



Weight Indicator

Model	Indicator Type	Deadline Type	Max. Lifting Load	Number of Line
W-50	G-50	A-100	54tf/6 line	4,6
W-100	G-100	A-100	100tf/8 line	6,8
W-200	G-200	A-250	200tf/10 line	4,6,8,10
W-250	G-250	A-250	288tf/12 line	6,8,10,12
W-350	G-350	A-350	432tf/12 line	6,8,10,12

Indicator

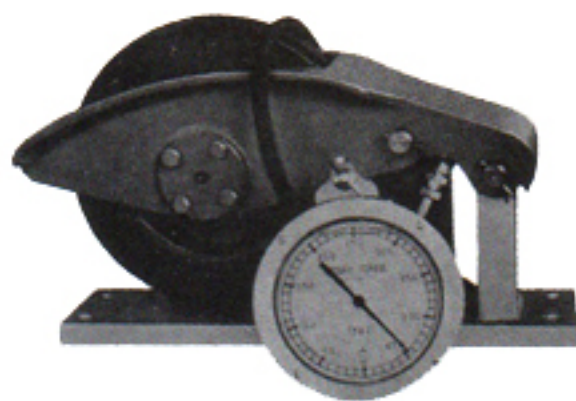
Type	G-50		G-100		G-200				G-250				G-350			
Number of Line	4	6	6	8	4	6	8	10	6	8	10	12	6	8	10	12
Main Max. Scale tf	36	54	75	100	80	120	160	200	144	192	240	288	216	288	360	432
Sub Max. Scale tf	9	13.5	18.75	25	20	30	40	50	36	48	60	72	54	72	90	108

Deadline Anchor

Type	Line Size (inch)	O.D. (mm)	Drum O.D. (mm)	Groove (mm)	Bolt Hole (mm)	Weight (kgf)
A-100	7/8, 1	660×450×222	Φ254	R15	4-Φ25	125
A-250	1-1/8, 1-1/4	1080×835×500	Φ512	R17.5	4-Φ41	550
A-350	1-3/8, 1-1/2	1570×1045×495	Φ711	R20.5	4-Φ55	950

Measuring Instrument

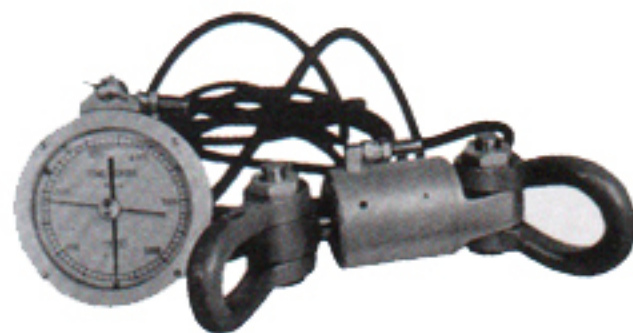
16. Rotary Torque Gauge



Model	Scale Range	Pressure(kgf/cm ²)
TG-1	0 ~ 500	35.2
TG-2	0 ~ 1000	70.3

Idler Type	Roller Chain Size (inch)
162	1-3/4 / Twin
201	2 / Single
202	2 / Twin

17. Tong Torque Gauge



Model	Gauge Type	Max. Load (kgf)	Pressure (kgf/cm ²)	Cylinder Type
T-2	T-2G	2,000	74.3	T-10C
T-5	T-5G	6,800	252.6	
T-10	T-10G	10,000	371.5	
T-15	T-15G	15,000	367.3	T-15C

18. Pressure Gauge



SP Type



CSP Type

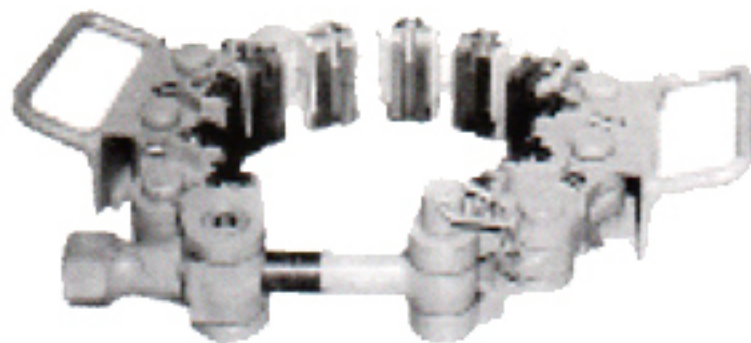
SP Type

Model	Scale (kgf/cm ²)
SP-150	0 ~ 150
SP-200	0 ~ 200
SP-300	0 ~ 300
SP-350	0 ~ 350

CSP Type

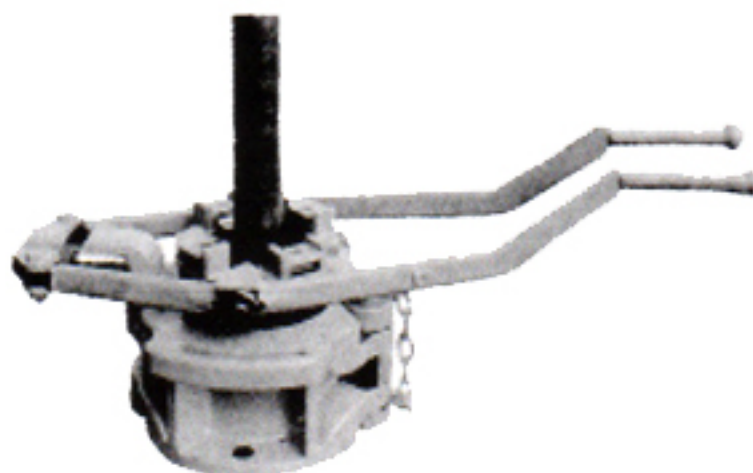
Model	Gauge Type	Scale (kgf/cm ²)	Gauge Protector Type
CSP-100	CSP-100G	0 ~ 100	CSP700P
CSP-150	CSP-150G	0 ~ 150	
CSP-200	CSP-200G	0 ~ 200	
CSP-300	CSP-300G	0 ~ 300	
CSP-350	CSP-350G	0 ~ 350	

19. Safety Clamp



Slip Qty.	Drill Collar O.D. (inch)	Weight (kgf)
7	3-3/4 ~ 4-5/8	28
8	4-1/2 ~ 5-5/8	30
9	5-1/2 ~ 6-5/8	32
10	6-1/2 ~ 7-5/8	34
11	7-1/2 ~ 8-5/8	36.5
12	8-1/2 ~ 9-5/8	39
13	9-1/2 ~ 10-5/8	42

20. Tubing Spider



Pipe O.D. (inch)	Slip Qty. (piece)	Weight (kgf)	Capacity (tonf)
1.66	40	84	40
1.9		83	
2-3/8		82	
2-7/8		81	
3-1/2		80	

21. Drill Collar

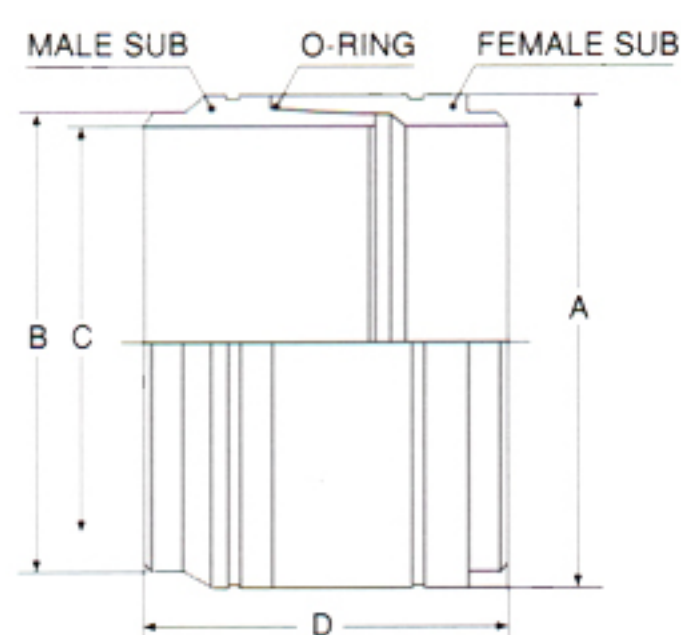


1. Standard Type
2. With Slip and Elevator Recess Type
3. Spiral Type

Connection	O.D. (inch)	I.D. (inch)	Length (m)	Bending Length Ratio	Weight (kg/m)
NC26 ~ NC35 (2-3/8IF)	3-1/2	1-1/2	3,6,9	2.42 : 1	40
NC31 ~ NC41 (2-7/8IF)	4-1/6	2	3,6,9	2.43 : 1	52
NC35 ~ NC47	4-3/4	2-1/4	3,6,9	2.58 : 1	70
NC38 ~ NC50 (3-1/2IF)	5	2-1/4	3,6,9	2.38 : 1	79
NC44 ~ NC60	6	2-1/4	3,6,9	2.49 : 1	123
NC44 ~ NC60	6	2-13/16	3,6,9	2.84 : 1	112
NC44 ~ NC62	6-1/4	2-1/4	3,6,9	2.91 : 1	136
NC46 ~ NC62 (4IF)	6-1/4	2-13/16	3,6,9	2.63 : 1	124
NC46 ~ NC65 (4IF)	6-1/2	2-1/4	3,6,9	2.76 : 1	148
NC46 ~ NC65 (4IF)	6-1/2	2-13/16	3,6,9	3.05 : 1	136
NC46 ~ NC67 (4IF)	6-3/4	2-1/4	3,6,9	3.18 : 1	161
NC50 ~ NC70 (4-1/2IF)	7	2-1/4	3,6,9	2.54 : 1	174
NC50 ~ NC70 (4-1/2IF)	7	2-13/16	3,6,9	2.73 : 1	164
NC50 ~ NC72 (4-1/2IF)	7-1/4	2-13/16	3,6,9	3.12 : 1	177
6-5/8REG	8	2-13/16	3,6,9	2.60 : 1	223
6-5/8REG	8-1/4	2-13/16	3,6,9	2.93 : 1	238
7-5/8REG	9-1/2	3	3,6,9	2.81 : 1	321
7-5/8REG	9-3/4	3	3,6,9	3.09 : 1	341
8-5/8REG	11	3	3,6,9	2.78 : 1	445

Others

22. Casing Tool Joint



Size (inch)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kgf)
30	803.2	762.0	723.9	411	257

23. Casing Centralizer



Size CSG×HOLE	5-1/2×7-5/8	7×8-1/2	9-5/8×12-1/4	13-3/8×17-1/2	20×27
Length (mm)	660	660	930	1,050	1,500
Maximum O.D. (mm)	241.5	280	376	499	797
Spring Qty.	5	5	6	6	6
Weight (kgf)	11.5	19.5	26.5	40.0	82.0

24. Hole Opener



Hole O.D. (inch)	Pilot Hole O.D. (inch)	Tool Joint	
		Box or Pin	Box
42	26	8-5/8 & 7-5/8 REG	7-5/8 REG
36	26	8-5/8 & 7-5/8 REG	7-5/8 REG
26	17	8-5/8 & 7-5/8 REG	7-5/8 REG
17-1/2	10-5/8	7-5/8 REG	6-5/8 REG
17	10-5/8	7-5/8 REG	6-5/8 REG
14-3/4	10-5/8	7-5/8 REG	6-5/8 REG
12-1/4	8-1/2	6-5/8 REG	4-1/2 REG
12	8-1/2	6-5/8 REG	4-1/2 REG
10-5/8	8-1/2	6-5/8 REG	4-1/2 REG
8-5/8	5-5/8	4-1/2 REG	3-1/2 REG
8-1/2	5-5/8	4-1/2 REG	3-1/2 REG
7-5/8	5-5/8	4-1/2 REG	3-1/2 REG

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