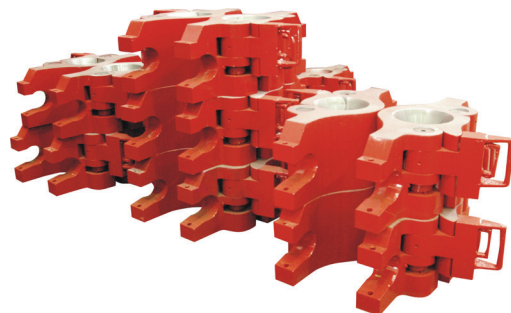


Elevators

Elevators are requisite hoisting tools for handling drill pipe, casing or tubing during drilling, completion or workover operations in oil and gas fields. Elevators are forged or casted from high-grade alloy steel and specially heat treated. As a result of that, they have superior mechanical properties, such as high strength, high flexible and high toughness. The key parts are given non-destructive evaluation. These elevators have the features of simple and sturdy construction, light weight, safe, easy operation and high abrasive resistance.



CNPC offer elevators as following:

CD side door double latch elevators are used to hold coupled drill pipe, casing and tubing;

CDZ side door double latch elevators and DDZ center latch elevators are suitable for 18° shouldered drill pipe;

DD center latch elevators are suitable for shouldered drill pipe and tubing during workover and formation testing operation.

Various types of elevators can be provided according to customers' requirement.

Technical parameter of CDZ side door double latch elevators

Model	Rated load, kN (US ton)	Dia. of 18° taper outer, mm	Dia. of bottom hole, mm
CDZ3 1/2-18° -250	2450(250)	125	102
CDZ4 1/2-18° -250	2450(250)	162	122
CDZ5 -18° -250	2450(250)	170	135
CDZ5 -18° -350	3430(350)	170	135

Technical parameter of DDZ center latch elevators

Model	Rated load, kN (US ton)	Dia. of 18° taper outer, mm	Dia. of bottom hole, mm
DDZ5-18° -250	2450(250)	180	135
DDZ5-18° -350	3430(350)	180	135

Technical parameter of DD center latch elevators

Model	Size of Applied Pipe in	Rated load, kN (US ton)	Dia. of hole, mm
DDY2 3/8-65	2 3/8 TBG	637(65)	63
DDY2 3/8J-65	2 3/8 UP TBG	637(65)	76
DDY2 3/8-100	2 3/8 TBG	980(100)	63
DDY2 3/8J-100	2 3/8 UP TBG	980(100)	68
DDY2 7/8-65	2 7/8 TBG	637(65)	68
DDY2 7/8J-65	2 7/8 UP TBG	637(65)	82
DDY2 7/8-100	2 7/8 TBG	980(100)	76
DDY2 7/8J-100	2 7/8 UP TBG	980(100)	82
DDY3 1/2-100	3 1/2 TBG	980(100)	92
DDY3 1/2J-100	3 1/2 UP TBG	980(100)	98

Note: TBG: Tubing

EU: External upset drill pipe

IU: internal upset drill pipe

UP TBG: External upset tubing

IEU: Internal-external drill pipe

CSG: Casing

Technical parameter of CD side door double latch elevators

Model	Size of Applied pipe	Rated load kN(ton)	Dia.of up/ bottom hole mm
CDY2 3/8-100	2 3/8 TBG	980(100)	63/63
CDY2 3/8J-150	2 3/8 UP TBG	1470(150)	68/63
CD2 3/8-150	2 3/8 EU	1470(150)	69/63
CDY2 7/8-100	2 7/8 EU	490(50)	84/76
CDY2 7/8-100	2 7/8 TBG	980(100)	76/76
CDY2 7/8J-100	2 7/8 UP TBG	980(100)	82/76
CD2 7/8-100	2 7/8 EU	980(100)	84/76
CDY2 7/8-150	2 7/8 TBG	1470(150)	76/76
CDY2 7/8J-150	2 7/8 UP TBG	1470(150)	82/76
CD2 7/8-150	2 7/8 EU	1470(150)	84/76
CD3 1/2-50	3 1/2 EU	490(50)	102/92
CDY3 1/2-100	3 1/2 TBG	980(100)	92/92
CDY3 1/2J-100	3 1/2 UP TBG	980(100)	98/92
CD3 1/2-100	3 1/2 EU	980(100)	102/92
CDY3 1/2J-150	3 1/2 UP TBG	1470(150)	98/92
CD3 1/2-150	3 1/2 EU	1470(150)	102/92
CDY4-150	4 TBG	1470(150)	104/104
CD3 1/2-250	3 1/2 EU	2450(250)	102/92
CD5-150	5 IEU	1470(150)	135/131
CD5-200	5 IEU	1960(200)	135/131
CD5-250	5 IEU	2450(250)	135/131
CD5-350	5 IEU	3430(350)	135/131
CD5-200	5 CSG	1960(200)	131/131
CD5-350	5 CSG	3430(350)	131/131
CD5 1/2-150	5 1/2 IU	1470(150)	150/145
CD5 1/2-250	5 1/2 IU	2450(250)	150/145
CD5 1/2-350	5 1/2 IU	3430(350)	150/145
CD5 1/2-150	5 1/2 CSG	1470(150)	142/142
CD5 1/2-200	5 1/2 CSG	1960(200)	142/142
CD5 1/2-250	5 1/2 CSG	2450(250)	142/142
CD5 1/2-350	5 1/2 CSG	3430(350)	142/142
CD6 5/8-150	6 5/8 CSG	1470(150)	171/171
CD7-200	7 CSG	1960(200)	181/181
CD7-250	7 CSG	2450(250)	181/181
CD7-350	7 CSG	3430(350)	181/181
CD7 5/8-150	7 5/8 CSG	1470(150)	181/181
CD7 5/8-250	7 5/8 CSG	2450(250)	197/197
CD8 5/8-250	8 5/8 CSG	2450(250)	222/222
CD9 5/8-150	9 5/8 CSG	1470(150)	248/248
CD9 5/8-250	9 5/8 CSG	2450(250)	248/248
CD9 5/8-350	9 5/8 CSG	3430(350)	248/248
CD9 5/8-450	9 5/8 CSG	4410(450)	248/248
CD10 3/4-200	10 3/4 CSG	1960(200)	277/277
CD13 3/8-50	13 3/8 CSG	490(50)	344/344
CD13 3/8-150	13 3/8 CSG	1470(150)	344/344
CD13 3/8-250	13 3/8 CSG	2450(250)	344/344
CD13 3/8-350	13 3/8 CSG	3430(350)	344/344
CD16-50	16 CSG	490(50)	411/411
CD20-150	20 CSG	1470(150)	512/512
CD30-135	30 CSG	1323(135)	63/63

Note: TBG-Tubing UP TBG-External upset tubing EU-External upset drill pipe
IEU-Internal-external drill pipe IU-Internal upset drill pipe CSG-Casing