

Elevator

Elevators are a hinged device with handles that are used to wrap around the tool joint of drill pipe, as developed for the drilling industry, casing or lift nipples (for collars) to facilitate the lifting or lowering of them singly or of the [drill string](#) as a whole. In practical use elevators are highly stressed components and require regular careful inspection. In practice, sets of elevators and a spare duplicate are required on-site for general operations. Their failure almost always stops operations. To latch around a piece of pipework a set of elevators need a precise internal diameter, with an appropriately profiled shoulder to accommodate the lower profile of a tool joint. The latch mechanism has to prevent opening under radial loads of up to hundreds of tons. For some purposes (casing elevators, and loading pipe into and out of the derrick), the elevators also need to resist cross-axial loads of the weight of the pipe joints.

General Features



DK series Elevators are designed for clamping and lifting the drilling string, tubing and casing. Suitable for onshore and offshore drilling operation. Could match with multiple types of rigs.

Details

The DK series elevators were developed to provide the market with more reliable technology and more hoisting performance. Including Y series generic use [elevator drilling](#), SR series rod elevator, SP series auxiliary elevator, D series split-open elevator, C series side-open elevator, Z series drilling pipe elevator, and TD series elevator which is special designed for drilling pipe with 18 degree shoulder. Simple structure makes the elevator more easily to maintenance and inspection. Included but not limited by the advantages mentioned, DK series of elevators might be your best choice.

General Features

- Manufactured according to API 8C
- Suitable temperature: 0°C to +121°C
- Suitable for onshore or offshore rigs
- Simple structure, high reliability, long last life
- Multiple size choices for different operation

Main Paramaters

Suitable Diameter: 1" – 3-1/2" (25.4 mm – 88.9 mm)

Maximum Load Capacity: 180 kN – 1350 kN (18.5 ton – 138 ton)

Parameters:

Y Series Slip Type Elevator

Type	Pipe Size mm (in)	Max. Load	
		kN	Ton
A	33.4-88.9 (1.315-3 1/2)	670	75
Y-C	88.9-117.8 (3 1/2-7)	670	75
Y-HT	60.3-88.9 (2 3/8-3 1/2)	1350	150
Y-MT	33.4-73 (1.315-2 7/8)	360	40
Y-LT	26.7-52.4 (1.05-2 1/16)	180	20

SR Series Sucker Rod Elevator

Type	Rod Size (in)	Elevator Bore (mm)	Max. Load (Tons)
SR-19	1/2~5/8	19	20
SR-23	5/8~3/4	23	
SR-26	3/4~7/8	26	
SR-30	1	30	
SR-32	1-1/8	32	
SR-35	1-1/4	35	
SR-23H	5/8~3/4	23	25
SR-26H	3/4~7/8	26	
SR-30H	7/8~1	30	

SP Series Single Joint Elevator

Type	Pipe Size		Max. Load (Tons)
	in	mm	
SP-2	2 3/8~3 1/2	60.3~88.9	27
SP-4	4~5 1/2	101.6~139.7	27
SP-6	6 5/8~7 5/8	168.3~193.7	27

D Series Center Latch Elevator

Type of Pipe	Type of Elevator	Pipe Size (in)											Max. Load		
													kN	ton	
Drilling Pipe	D-65Z					2.38	2.88							585	65
	D-100Z					2.38	2.88	3.5	4	4.5	5			900	100
	D-125Z					2.38	2.88	3.5						1100	125
	D-150Z					2.38	2.88	3.5	4	4.5	5	5.5		1350	150
Casing	D-100T									4.5	5	5.5		900	100
	D-150T									4.5	-	10.8		1350	150
Tubing	D-35Y	1.05	1.32	1.66	1.9									315	35
	D-65Y			1.66	1.9	2.38	2.88							585	65
	D-100Y				1.9	2.38	2.88	3.5	4	4.5	5			900	100
	D-125Y					2.38	2.88	3.5						1100	125
	D-150Y					2.38	2.88	3.5	4	4.5	5			1350	150
Drilling Collar	D-35ZT						2.88	3.13						315	35
	D-65ZT						2.88	3.13						585	65
	D-100ZT						2.88	3.5	4.13	4.75	5	5.25		900	100
	D-150ZT											9-11 1/4		1350	150

C Series Side Door Elevator

Type	Pipe OD mm (in)	Bore mm (in)	Max. Load ton (kN)
C-Series	60.3-73.0 (2 3/8-2 7/8)	69.85 (2 3/4)	100 (900) 150 (1350) 200 (1800) 250 (2250) 350 (3150) 500 (4500)
	88.9-101.6 (3 1/2-4)	69.85 (2 3/4)	
	114.3-127-139.7 (4 1/4-5 1/2)	69.85 (2 3/4)	
	168.3-219.1 (6 5/8-8 5/8)	88.9 (3 1/2)	
	244.5-273.1 (9 5/8-10 3/4)	88.9 (3 1/2)	
	298.5-339.7 (11 3/4-13 3/8)	88.9 (3 1/2)	
	355.6-406.4 (14-16)	88.9 (3 1/2)	
	473.1-508 (18 5/8-20)	88.9 (3 1/2)	
	558.8-762.0 (22-30)	88.9 (3 1/2)	

Z Series Drilling Pipe Elevator

Type	Drilling Pipe & Connection		Bore (mm)	Max. Load ton (kN)
	Connection	Drilling Pipe		
Z-67	NC26 (2. 3/8IF)	2. 3/8EU	67. 47	150 (1350) 250 (2250) 350 (3150) 500 (4500)
Z-83	NC31 (2. 7/8IF)	2. 7/8EU	83. 34	
Z-101	NC38 (3. 1/2IF)	3. 1/2EU	100. 81	
	NC40 (4IF)			
Z-109	NC40 (4FH)	4IU	108. 74	
Z-121	NC46 (4IF)	4EU	121. 44	
		4. 1/2IU		
		4. 1/2IEU		
	4. 1/2FH	4. 1/2IU		
		4. 1/2IEU		
Z-133	NC50 (4. 1/2IF)	4. 1/2EU	133. 35	
		5IEU		
	5. 1/2FH	5IEU		
Z-148	5. 1/2FH	5. 1/2IEU	147. 64	

TD Series Elevator

Type	Drilling Pipe	Bore (mm)	Size	Max. Load ton (kN)
TD-67	2 ³ / ₈ EU	67	2 ³ / ₈ EU	150 (1350) 250 (2250) 350 (3150) 500 (4500)
TD-83	2 ⁷ / ₈ EU	83	2 ⁷ / ₈ EU	
TD-101	3 ¹ / ₂ EU	101	3 ¹ / ₂ EU	
TD-109	4IU	109	4IU	
TD-121	4EU	121	4EU	
	4 ¹ / ₂ IU		4 ¹ / ₂ IU	
	4 ¹ / ₂ IEU		4 ¹ / ₂ IEU	
TD-133	4 ¹ / ₂ EU	133	4 ¹ / ₂ EU	
	5IEU		5IEU	
TD-148	5 ¹ / ₂ IEU	148	5 ¹ / ₂ IEU	
TD-159	5 7/8IEU	159	5 7/8IEU	
TD-179	6 5/8IEU	179	6 5/8IEU	