

Substructures

CNPC owns great capacity of steel structure products developing, production, provides all sorts of substructures. Annual substructure production reaches 100,000 tones.

Common Substructures Type: skid mounted, trailer mounted, piled box, box-on-box, sling-shot and swing lift.

Technical features

- Skid mounted substructure, with ship-shaped structure at the bottom for convenient pulling.
- Trailer mounted substructure, with walking wheels can be moved integrally by trailer.
- Piled box substructure, high in the front section and low in the rear section, can be assembled in partition.
- Box-on-box substructure is combined by multiple-lift box structures, forming a substructure which has different heights. The equipments on drill floor can be installed at high position.
- Sling-shot substructure, the drill floor and the equipment on the drill floor can be installed in low position. The mast can be raised when the drill floor is in its low position and then the drill floor and mast can be raised integrally.
- Swing-lift substructure, the drill floor and the equipments on the drill floor can be installed in low position. The mast support legs can be assembled in low position and the mast will be raised after drill floor being raised.



Technical parameter

Model	DZ90/3.9-T	DZ170/4-T	DZ170/6-T	DZ170/5.1-TG	DZ225/6-TG
Floor height, m	3.9	4	6	5.1	6
Height of rotary beam above ground ,m	3.234	2.91	4.9	3.8	4.9
Rotary beam capacity, kN	900	1700	1700	1700	2250
Setback capacity, kN	500	900	900	900	1200
Bottom bore, m	5	6.5	7.5	2.9	4
Weight, kg	30200	72800	40600	32000	78500
Note: T-skid mounted TG-Trailer mounted					

Model	DZ225/5-TG	TJ2-41	DZ225/6-K	DZ315/7.5-K	DZ450/7.5-K
Floor height, m	5	4.5	6	7.5	7.5
Height of rotary beam above ground ,m	3.8		4.8	6.3	6.2
Rotary beam capacity, kN	2250	2200	2250	3150	4500
Setback capacity, kN	1200	1500	1200	1600	2200
Bottom bore, m	4	8.02X8.02	9	9	10
Weight, kg	102000	36800	125100	118300	145800
Note: T-skid mounted TG-Trailer mounted K-Piled box mounted					

Model	DZ90/4.5-S	DZ225/7.5-S	DZ315/9-S	DZ450/9-S	DZ450/10.5-S	DZ585/10.5-S
Floor height, m	4.5	7.5	9	9	10.5	10.5
Height of rotary beam above ground ,m	3.4	6.15	7.69	7.62	9	9
Rotary beam capacity, kN	900	2250	3150	4500	4500	5850
Setback capacity, kN	500	1200	1600	2200	2200	2700
Bottom bore, m	2.9	8.5	8	9	9	9
Weight, kg	28800	131400	165000	190100	197000	212000
Note: S-sling shot						

Model	DZ180/6-X	DZ225/6-X	DZ315/9-X	DZ450/10.5-X	DZ675/12-X	DZ900/12-X
Floor height, m	6	6	9	10.5	12	12
Height of rotary beam above ground ,m	4.775	4.8	7.7	9.08	10	10
Rotary beam capacity, kN	1800	2250	3150	4500	6750	9000
Setback capacity, kN	3000	1200	1600	2200	3250	4320
Bottom bore, m	1.86	9	9	10	10	10
Weight, kg	47800	124000	154800	147800	245000	265000
Note: X-swing lift						