Truck-Mounted Drilling Rig Mast and Sub-structure

These masts utilize guylines for stability during drilling and workover services, with telescoping action achieved via hydraulic cylinders or wirelines. Substructures are available in multiple types to suit different equipment and height requirements, with designs conforming to finite element analysis.


Mast for Truck-mounted Rig

Overview

Professional Rig Infrastructure

These truck-mounted drilling rig masts and substructures are engineered for optimal performance in drilling and workover services. Featuring high-strength square steel pipe construction, each unit is designed for stability, efficiency, and ease of transportation. Every structure undergoes rigorous finite element analysis and non-destructive testing (NDT) to ensure reliability and safety during field operations.

Mast Specifications

Mast Technical Details

Model	Height (m)	Max Load (kN)	Wind Load (km/h)
JJ120/31-W	31.3	1200	112
JJ135/34-W	34	1350	112
JJ155/35-W	35	1550	112
JJ180/36-W	36	1800	112
JJ180/38-W	38	1800	112
JJ225/39-W	39	2250	112

Operation Features	Guylines, Telescoping, Hydraulic Cylinder, Wireline Duplex Sheave

Substructure Specifications

Supported Configurations

- Integral
- Telescoping
- Foldable
- Trailer-mounted

Substructure Performance Table

Model	Height (m)	Max Static Load (kN)	Mode
ZT1470/1.4	1.4	1470	Integral
ZT1470/2.7	2.7	1470	Integral
ZT1470/3.7	3.7	1470	Integral
ZT1470/3.7-S	3.7	1470	Telescoping
ZT1960/4-S	4	1960	Telescoping
ZT1960/4.5-S	4.5	1960	Telescoping
ZT1960/4.5-Z	4.5	1960	Foldable
ZT2500/5-Z	5	2500	Foldable
ZT2500/5.5-Z	5.5	2500	Foldable
ZT3000/6-TZ	6	3000	Trailer foldable
ZT3000/6.7-FZ	6.7	3000	Split type foldable

Quality Assurance

Safety Standards	Finite Element Analysis, NDT Inspected, Welded Line Treatment