

Work over rig

The max. hook load range of work over rig is from 900 to 2250kN, which can satisfy well overhauling, well repair, testing oil, throwing, dragging and testing pump. The performance is reliable, operating and moving convenient, good adjustability. And the operation and moving expense are lower.



Technical features:

- The main drive type and transmission mode of the rig are advanced and reliable.
- Drawworks can be designed single drum or double drum structure, the main drum brake is disc brake and equipped with roller or water cooled auxiliary disk brake to ensure brake safe and reliable.
- The rig has two pieces telescopic masts, using hydraulic cylinder to rise and extends. The weight and size of the derrick make sure that the walking vehicle cross well and better load ability and reliable when operating.
- The rig floor uses swing-up or vertical rising structure, saving the mounting time, reducing the transportation.
- The ramp and catwalk is integral design, satisfies the drilling and convenient transportation.
- The truck satisfies the vehicle notice requirement. The driving is sight open, potable turning, quick brake, good adjustability, powerful crossing, and is fit for the driving demand of oilfield road, meanwhile satisfies the working requirements of drilling equipment long and heavy load.

Basic Parameters of Series I Truck Mounted Workover Rig

Grade of Workover Rig			XJ900	XJ1100	XJ1350	XJ1600	XJ1800	XJ2250
Range of nominal workover, m	Depth of minor overhaul	73mm external-thickened tube	4000	5500	7000	8500		
	Depth of overhaul	73mm drill pipe	3200	4500	5800	7000	8000	9000
		88.9mm drill pipe	2500	3500	4500	5500	6500	7500
		114mm drill pipe			3600	4200	5000	6000
Max. hook load, kN			900	1100	1350	1600	1 800	2 250
Drawworks	Drawworks type		Single drum/double drums					
	Drawworks power, kW		257-330	280-400	330-450	400-500	550	735
	Drawworks hoisting gears		5+1R					
	Brake mode		Band/disc brake + Rotor hydromatic brake/ water-cooling disc brake					
Line strung of traveling system	Drill line strung		6		8			
	Max. line strung		8	8			10	
Dia. of drilling wire rope, mm (in)			26 (1)			26 (1) , 29 (1 1/8)	29 (1 1/8) , 32 (1 1/4)	32 (1 1/4)
Opening dia. of rotary table, mm (in)			266 (10 1/2)	445 (17 1/2) , 520 (20 1/2)			520 (20 1/2) , 698.5 (27 1/2)	
Mast	Mast type		Mast-type double-section hydraulic hoisting					
	Mast height, m		29, 31	29, 31, 33	31, 33, 35		36, 38	38, 39
Height of drill floor, m			1.8, 2.5	3, 4, 4.5	4, 4.5, 5	4, 5	5, 6	6, 7
Drive mode of chassis			8×8 10×8	10×8		12×8	14×8	14×10
Max. speed, km/h			45					
Remarks: Data in this table are allowed to be modified upon client's requirement in accordance with the agreement between both parties.								

Basic Parameters of Series II Truck Mounted Workover Rig

Grade of Workover Rig			MR2500	MR3000	MR3000 (DC)	MR3500
Range of nominal workover, m	Depth of minor overhaul	73mm external-thickened tube	2600	3200	3200	4000
		Depth of overhaul	73mm drill pipe		2000m	2000m
	88.9mm drill pipe					2000m
	114mm drill pipe					
Max. hook load, kN			585	675	675	900
Rated hook load, kN			300	400	400	600
Mast height, m			18	24	24	21
Overall dimensions, (m×m×m)			11.83×2.495×3.85	13.75×2.78×4.1	14.39×3.05×4.166	14.1×2.8×4.1
chassis			SX1255TN464 (6×6)	WS5322 (6×6)	TAZ5323TXJB (6×4)	WS5320 (6×6)
Approach/ departure angle, °			25°/13°	25°/17°	24°/21°	25°/15°
Min. ground clearance, mm			400	320	287	320
Min. turning radius, m			14	14.5	14	14
Overall weight, kg			25000	32000	32000	32000
Max. grade ability			12%	32%	35%	32%
Max. speed, km/h			50	53	54	53

Grade of Workover Rig			MR4500	MR5500	MR6500	MR7000s
Range of nominal workover, m	Depth of minor overhaul	73mm external-thickened tube	5500	7000	8500	
		Depth of overhaul	73mm drill pipe	4500m	5800m	7000m
	88.9mm drill pipe		3500m	4500m	5500m	5000m
	114mm drill pipe		1500 m	3600m	4200m	3000m
Max. hook load, kN			1125	1350	1580	1700
Rated hook load, kN			800	1000	1200	1500
Mast height, m			34.5	34.5	35	38
Overall dimensions, (m×m×m)			20.315×3.11×4.48	20.315×3.11×4.48	20.83×3.12×4.486	21.6×3×4.5
chassis			WS5541 (10×8)	WS5541 (10×8)	TAZ5553TXJ (12×8)	TAS5840 (14×8)
Approach/ departure angle, °			26°/18°	26°/18°	33°/13°	25°/12°
Min. ground clearance, mm			311	311	311	332
Min. turning radius, m			17	17	19	20
Overall weight, kg			54000	54000	54000	84000
Max. gradeability			30%	26%	30%	30%
Max. speed, km/h			50	50	45	43

Remarks: On the basis of introducing advanced design and manufacturing technology from DRILLMEC Italy, our company has developed a series of mobile drilling rigs from MR2500 ~ MR7000S.