

DRAWWORKS

Drawworks

Drawworks is necessary hoisting mechanism on a drilling rig. Essentially, drawworks is one large winch that spools off or takes in the drilling line and thus raises or lowers the drill stem and bit.

Drawworks Features:

- All bearing are rolling bearings and the shafts are made of alloy steel.
- The chains are pressure lubricated.
- The drum is grooved. The low-speed & high- speed ends of drum shaft are equipped with a ventilating air tube clutch.
- The brake rim (or disc) is water cooled and the surface is medium-frequency induction hardened which provides long service life.
- The contour of the sprocket teeth are medium frequency induction hardened. All transmission clutches are of involute spline type.



Drawworks



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Technical Specifications of Drawworks

Drawworks Model	DW20	DW40	DW40DB(S)	DW50	DW70
Nominal Drilling Depth (m)	1,200~2,000	2,500~4,000	2,500~4,000	3,500~5,000	4,500~7,000
Rated Power (kw)	441	735(1,000PS)	1,000	1,100	1,470
Max. Pull of Fast Line (kN)	200	245	275	340	485
Dia. Of Wire Line in(mm)	1-1/8(29)	1-1/4(32)	1-1/4(32)	1-3/8(35)	1-1/2(38)
Drum (Dia. x Length)(mm)	Φ560x1,120	Φ660x1,140	Φ640x1,302	Φ685x1,245	Φ770x1,436
Brake Rim (Dia. x Width)(mm)	Φ1,067x267	Φ1,168x265	Φ1,168x265	Φ1,168x265	Φ1,168x265
Brake Disc (Dia. x Width)(mm)	Φ1,400x50	Φ1,400x76	Φ1,400x76	Φ1,600x76	Φ1,600x76
Sandline Drum (Dia. x Length)(mm)	-	Φ356x1,245	Φ356x1,245	Φ356x1,430	Φ356x1,430
Capacity of Sandline Drum (Φ14.5 wire line)(m)	-	3,500	3,500	4,500	6,000
Auxiliary Brake	SDF20	SDWS40	FDWS40; 236WCB2	DS50	DS70
Overall Dimension (L x W x H) (mm)	5,500x2,450 x2,545	6,450x3,553 x2,429	6,600x3,000 x2,500	7,000x2,955 x2,780	7,930x3,194 x2,930
Weight(Kg)	17,528	28,240	37,500	45,210	43,000