10 kN SWL PNEUMATIC MAN RIDING WINCH



Model P-65-83-27-5210-12-MR

Torque Engineering Australia manufactures a pneumatically driven winch which is suitable for incorporation into a **Man Riding** winching system. The winch has been designed in accordance with the appropriate sections of the rules and recommendations detailed in the following documents.

- Lloyds Register Code for Lifting Appliances in a Marine Environment 2003
- ABS Underwater Vehicles, Systems and Hyperbaric Facilities 2002
- DNV Rules for certification of Lifting Appliances
- IMCA D023 Diver Launch & Recovery

MAIN FEATURES

- Parallel grooved drum
- Drum hot dip galvanised
- 2 independent oil submersed automatic fail safe braking systems
- Narrow drum to assist spooling & increase wire life
- Crosby wedge socket wire rope termination inside drum
- Stainless steel hydraulic & pneumatic piping
- Large drum diameter to minimise rope layers
- Means of lowering load in total hydraulic power failure
- Secondary air supply connection
- Filter & Lubricator incorporated in to the winch
- Emergency stop on the winch
- Interlock on guards

OPTIONAL FEATURES

- Over hoist cut out limit switch
- Remote pendant control
- Frame hot dip galvanized

PNEUMATIC INPUT

- 6 bar (90 psi) minimum
- 150 liters / second (320 cfm) free air

APPLICATIONS

- Air Diver Launch & Recovery
- Hard Suit Operations
- FRB & Workboat LARS
- Suspended Work Platforms
- Drill rig maintenance & operations

DIMENSIONS

Mass with 200m of Ø13 mm wire rope = 700 kg









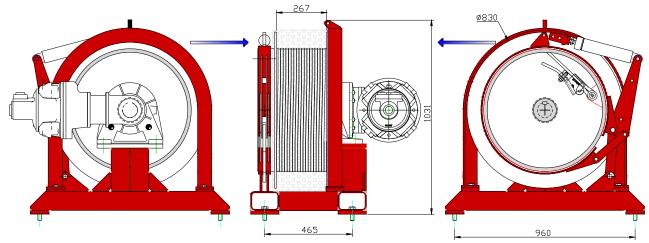
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PERFORMANCE DETAILS

DATA						
Mass to be lifted		1,000	kg	Wire Rope FOS	6 x	Design Load
MBL of SWR		120	kN		12 x	SWL
Rope Ø		13	mm			
Min Air Press.		6.1	Bar	Drum Torque	5.2	kNm
Air Consumption (max)		150	I/sec	Drum Speed	12	rpm
Number of Drives		1		Rope Clearance	2.5	Diameters
Drum Diameter		648	mm			
Drum Width		267	mm			
Min distance to sheave		4	m for fleet	angle <2 degrees		
WINCH PERFORMANCE						
Layer #	Pull Force (kN)	Speed m/min	Speed m/sec	Layer Length (m)	Cumulative Length (m)	Time to Heave (min)
1	15.8	24.7	0.41	38.6	39	1.6
2	15.3	25.5	0.43	39.8	78	3.1
3	14.8	26.4	0.44	41.1	120	4.7
4	14.3	27.2	0.45	42.4	162	6.2
5	13.9	28	0.47	43.7	206	7.8



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