



CE-marked according to the  
Machinedirective  
Hydraulic multi disc brake  
According to DNV for lifting- and  
offshoreoperations

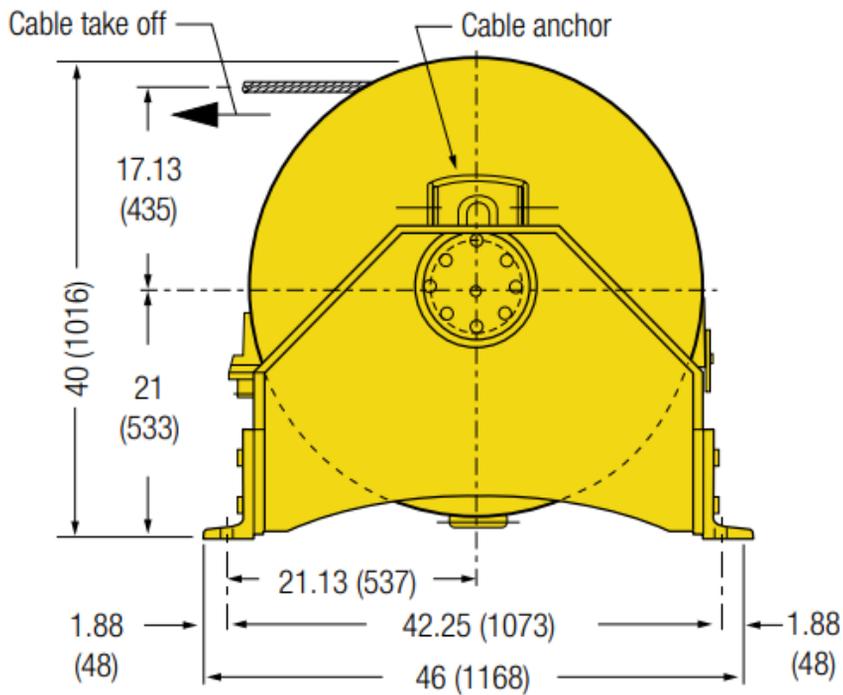
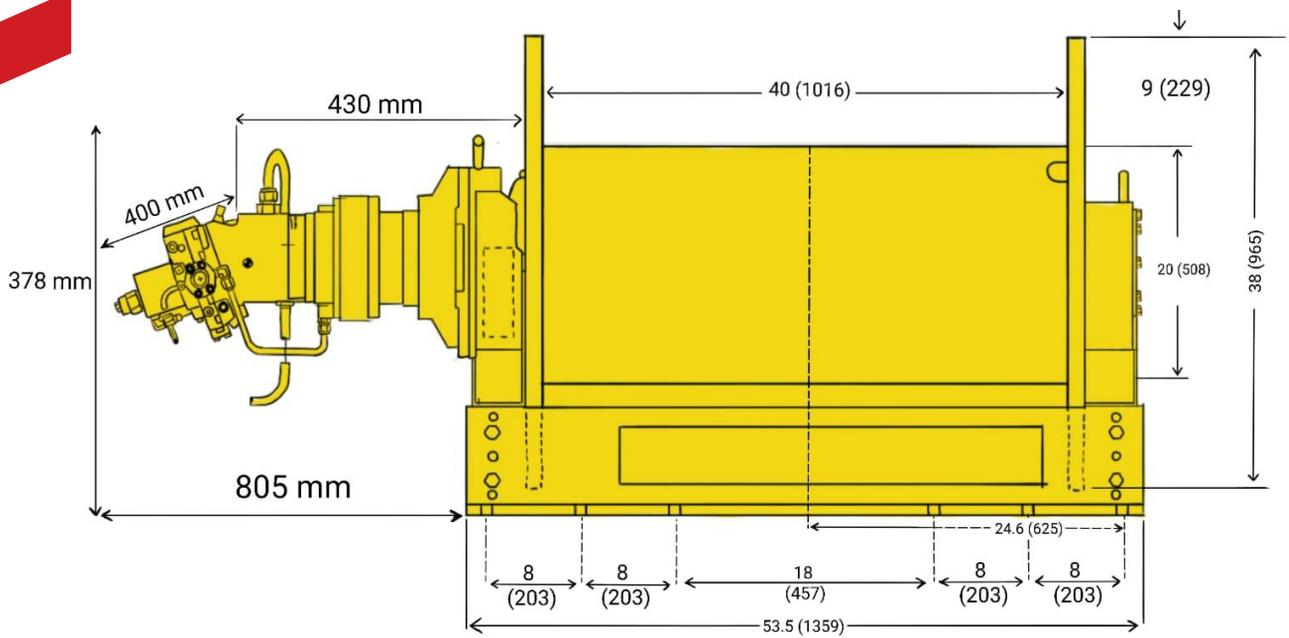
- **Your assurance of quality:**

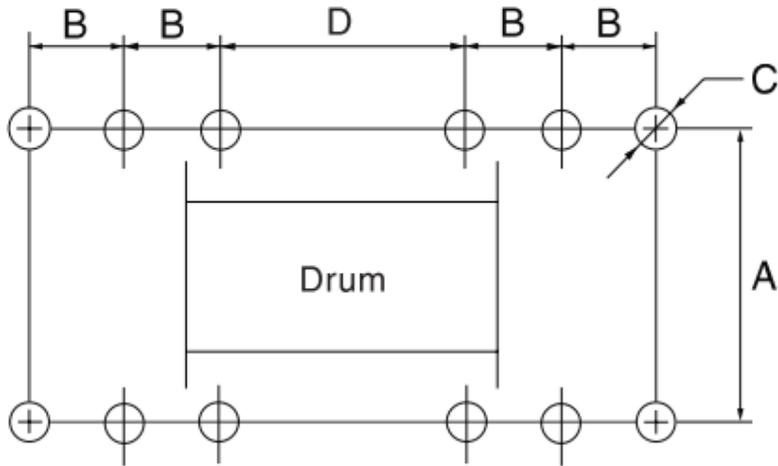
Force 5 winches are designed to meet or exceed independent third-party requirements. Models have been design reviewed or Type Approved by ABS, DNV and LRS. Type Approval certificates are available upon request. This modern winch is designed for the harshest environments!

- **Versatility:**

Force 5 winches offer maximum versatility to meet numerous lifting, pulling, or tensioning challenges. Substitute a wide variety of gear ratios to better meet your speed and capacity needs. Design, material, and dimensional changes are a snap with fabricated frames. Available option packages meet the requirements oil refineries, mining, construction and offshore oil drilling

- Meets ASME B30.7
- 5:1 design factor at rated load
- Full drum rated line pull: a Force 5 winch always pulls or lifts its rated load at any and all wire rope layers.
- Internal gearbox and optional disc brake combination provide load control superior to other types of air winches.
  - Compact, space-saving frame design and fabricated alloy steel drum fit easily into tight spaces
  - Variable drum length and wire rope storage for special applications
  - Standard operating temperature range is 0C° through 60C°.
  - Minimum 18:1 drum diameter to wire rope diameter ratio reduces wire rope wear.
  - Longer drum lengths and taller flanges provide greater wire rope storage





**Table 2 – Minimum and Maximum Wire Rope Size**

Model	Minimum		Maximum	
	inch	mm	inch	mm
FH10	3/4	20	1-1/8	28

Utility Rating 5:1 design factor	Full drum line pull	22,000 lbs	9,979 kg
	Mid drum line speed (fpm)	70 fpm	21.3 mpm
Drum barrel diameter		20 inches	508 mm
Drum flange diameter		38 inches	965 mm
Inlet pressure (nominal) 3000 psig max		2,775 psig	19140 kPa/191 bar
Flow at rated load (nominal)		70 gpm	265 litres per minute
Hose size	Refer to "INSTALLATION" section for recommended hose sizes		
Approximate Shipping weight (24 in. long drum without wire rope)		3550 lb	1610 kg

### FH10 Drum Wire Rope Storage Capacities ft. (m)

Drum Length		Rope Diameter							
inches	mm	3/4 inch	20 mm	7/8 inch	22 mm	1 inch	26 mm	1-1/8 inch	28 mm
24	610	2488	731	1962	592	1332	398	1026	377
30	762	3130	921	2470	746	1679	503	1295	476
36	914	3772	1110	2980	900	2026	606	1564	574
40	1016	4200	1236	3319	1002	2258	676	1744	640

Storage capacities are based on ASME B30.7 Standards which requires 1/2 inch (13 mm) minimum clear flange above last layer. Storage capacities shown may vary from those shown elsewhere.

(Dwg. MHP1739)

Drum Length (inches)	'A' Minimum Distance *	
	feet	metres
24	38.4	11.7
30	48	14.6
36	57.6	17.5
40	64	19.5

\* 'A' = 1.6 feet (0.5 metre) per inch of drum length.

**Table 3 – Hydraulic Hose Recommendations**

Oil Flow @ 3000 psig max		Pressure Lines (inside diameter)	
gpm	l/min	inch	mm
10-30	27-114	1.25	32
31-60	115-227	1.5	38
61-90	228-303	2	51
90-120	304-454	2.5	63

