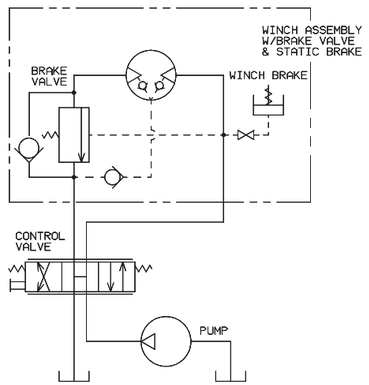
CH175B CONSTRUCTION HOIST
17,500 lb (7,900 kg)

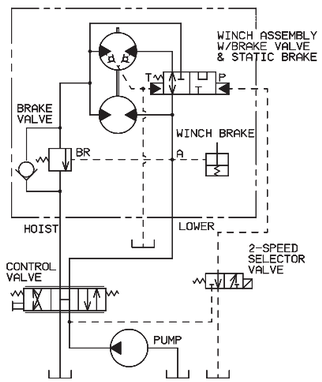
BRADEN®

Typical Hydraulic Control Circuits

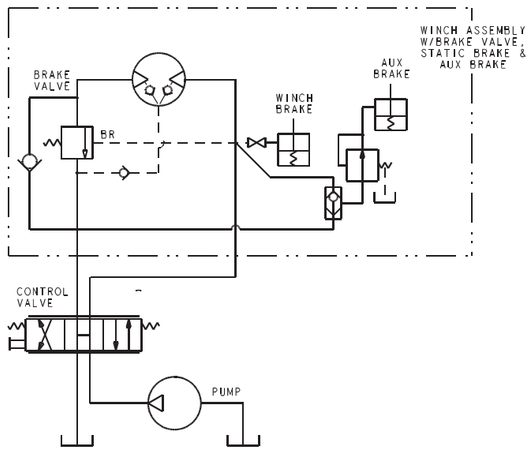
CH175B Single-speed



CH175B Two-speed



CH175B-AB Single-speed



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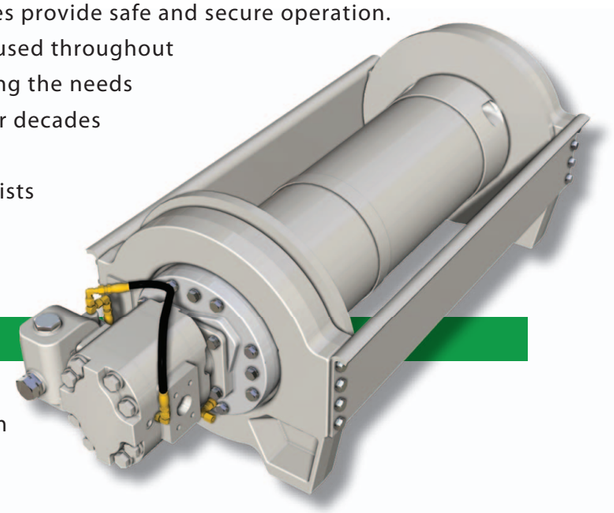
LIT2395 R2_09-2013

BRADEN®
CH175B CONSTRUCTION HOIST
17,500 lb (7,900 kg)

The BRADEN CH175B is part of a family of hoists designed to deliver the performance and durability demanded by severe offshore platform crane applications. Proven technology and tailored configurations generate ample line speed and lifting power. Dynamic and static braking features provide safe and secure operation. High-efficiency anti-friction bearings are used throughout the hoist to ensure long service life. Serving the needs of the offshore industry for more than four decades and supported by a worldwide network of trained service technicians, BRADEN hoists are preferred by engineers and operators alike.

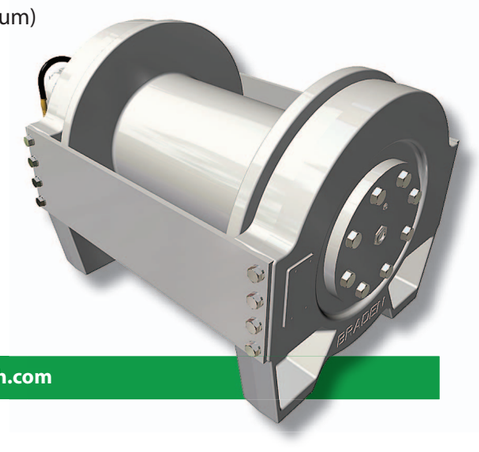


Features/Benefits

- High-efficiency planetary reduction gearing produces line speeds up to 580 fpm for optimal productivity and continuous duty
- Patented BRADEN brake valve enables smooth operation and precise load control
- Multi-disc static wet brake secures load in event of hydraulic pressure loss
- Integrated gearing in the drum minimizes overall dimensions for compact mounting envelope
- Approved for personnel handling (ref. PACCAR Inc publication PB308)

Options

- Hydraulic motor options to meet a variety of applications (consult factory for optional piston motor configuration)
- 22:1 gear ration (–01 drum) or 23:1 gear ratio (–02 drum)
- Grooved drum
- Auxiliary drum brake
- Ratchet and pawl configuration
- Drum rotation indicator compatibility
- Underwind (clockwise hoisting) configuration



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CH175B CONSTRUCTION HOIST
17,500 lb (7,900 kg)

BRADEN®

Performance

CH175B-23090-02-1

RATIO	23:1	
MOTOR	090 (9.02 cu in.)	090 (147.8 cc)
PRESSURE	3,000 psi	207 bar
FLOW	125 gpm	473.1 lpm
WIRE ROPE DIA	5/8 in.	16 mm

LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	13,350	373	6,055	114
2	12,030	414	5,455	126
3	10,940	455	4,960	139
4	10,040	496	4,555	151
5	9,270	537	4,205	164
6	8,610	578	3,905	176

CH175B-22120-01

RATIO	22:1	
MOTOR	120 (12.03 cu in.)	120 (197.1 cc)
PRESSURE	2,963 psi	204 bar
FLOW	170 lpm	643.4 lpm
WIRE ROPE DIA	5/8 in.	16 mm

LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	17,500	406	7,935	124
2	15,770	451	7,155	137
3	14,350	496	6,505	151
4	13,160	541	5,965	165
5	12,160	585	5,515	178
6	11,290	630	5,120	192

CH175B-22110-01

RATIO	22:1	
MOTOR	110 (11.03 cu in.)	110 (180.7 cc)
PRESSURE	3,000 psi	206 bar
FLOW	155 gpm	586.6 lpm
WIRE ROPE DIA	5/8 in.	16 mm

LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	16,070	402	7,285	123
2	14,480	446	6,565	136
3	13,180	490	5,975	149
4	12,090	534	5,480	163
5	11,160	578	5,060	176
6	10,370	623	4,700	190

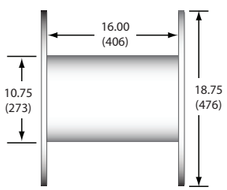
CH175B - 22128/064 - 01

RATIO	22:1		22:1	
MOTOR	Low: 128 (12.750 cu in.)	Hi: 640 (6.380 cu in.)	Low: 128 (208.9 cc)	Hi: 640 (104.5 cc)
PRESSURE	2,760 psi		190 bar	
FLOW	85 gpm		321.7 lpm	
WIRE ROPE DIA	5/8 in.		16 mm	

LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	17,500	170	6,750	366	7,940	52	3,060	112
2	15,760	189	6,080	407	7,150	58	2,760	124
3	14,340	207	5,530	447	6,505	63	2,510	136
4	13,160	226	5,080	487	5,970	69	2,305	148
5	12,150	245	4,690	528	5,510	75	2,125	161
6	11,290	263	4,360	568	5,120	80	1,980	173

Drum Capacity

–01 DRUM



DIMENSIONS IN INCHES (MM)

WIRE ROPE STORAGE, ft

WIRE ROPE DIA / LAYER	1	2	3	4	5	6	7	8	D/d
1/2 in.	94	197	308	427	555	691	836	989*	22:1
9/16 in.	84	177	278	387	505	631	766*	—	20:1
5/8 in.	76	161	254	355	465	583	—	—	18:1
3/4 in.	64	137	218	307	405	—	—	—	15:1

WIRE ROPE STORAGE, m

WIRE ROPE DIA / LAYER	1	2	3	4	5	6	7	8	D/d
13 mm	29	60	94	130	169	211	255	301*	22:1
14 mm	26	54	85	118	154	192	236*	—	20:1
16 mm	23	49	77	108	142	178	—	—	18:1
19 mm	20	42	66	94	123	—	—	—	15:1

D/d RATIO IS BASED ON PITCH DIAMETER OF WIRE ROPE AT FIRST LAYER

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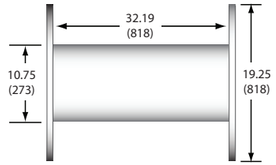
Drum Capacity, cont.

–02 DRUM



DIMENSIONS IN INCHES (MM)

WIRE ROPE STORAGE, ft

WIRE ROPE DIA / LAYER	1	2	3	4	5	6	7	8	D/d
1/2 in.	190	396	619	859	1,116	1,390	1,681	1,989	22:1
9/16 in.	169	355	558	778	1,015	1,269	1,540	—	20:1
5/8 in.	153	323	510	714	935	1,173	—	—	18:1
3/4 in.	129	275	438	616	815	—	—	—	15:1

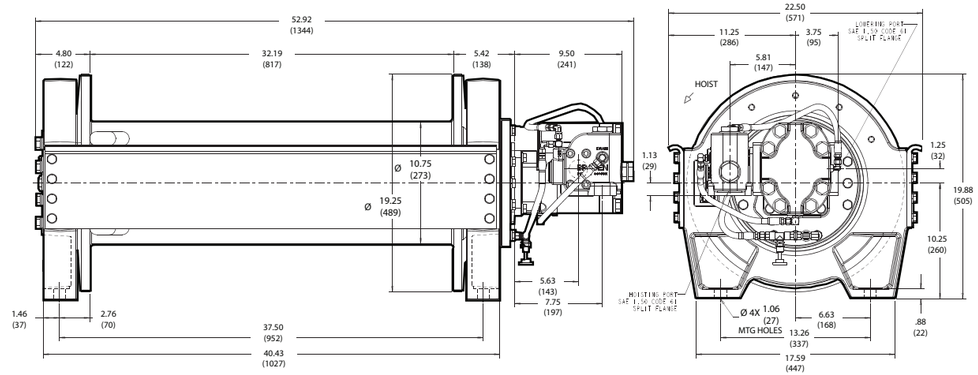
WIRE ROPE STORAGE, m

WIRE ROPE DIA / LAYER	1	2	3	4	5	6	7	8	D/d
13 mm	58	121	189	262	340	424	512	606	22:1
14 mm	52	108	170	237	309	387	469	—	20:1
16 mm	47	98	155	218	285	358	—	—	18:1
19 mm	39	84	133	188	248	—	—	—	15:1

D/d RATIO IS BASED ON PITCH DIAMETER OF WIRE ROPE AT FIRST LAYER

Dimensions

CH175B-23090-02-1



CH175B-22120-01-1