

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

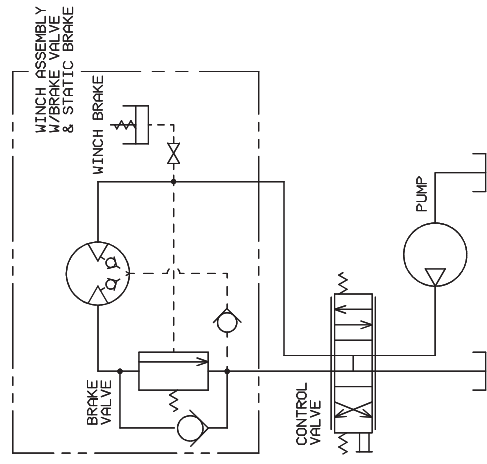
of trained service technicians, BRADEN hoists

are preferred by engineers and operators

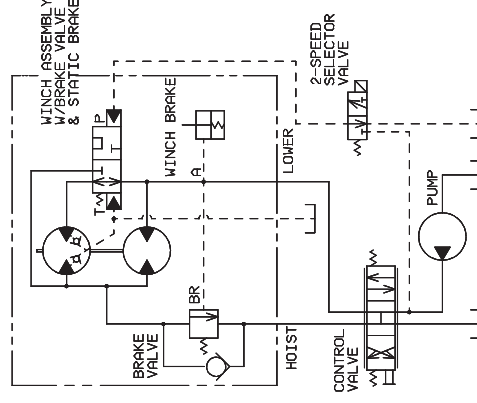
alike.

**Typical Hydraulic Control Circuits**

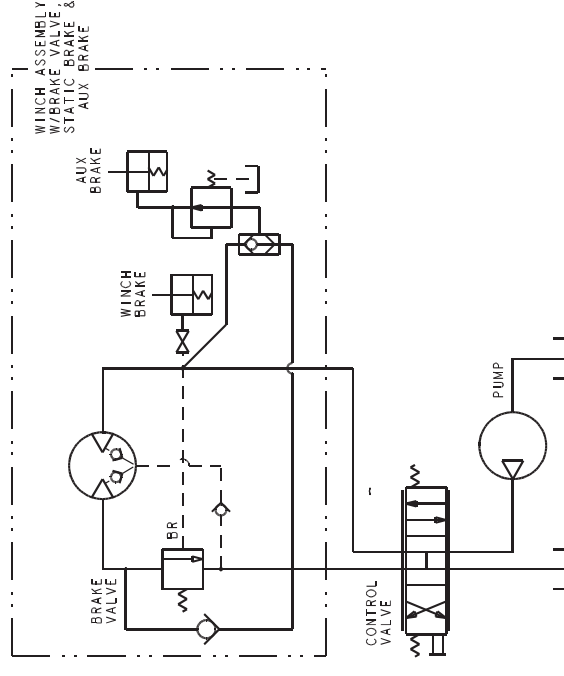
**CH175B Single-speed**



**CH175B Two-speed**



**CH175B-AB Single-speed**



**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 ratio (-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



# CH175B CONSTRUCTION HOIST

17,500 lb (7,900 kg)

# BRADEN®

# CH175B CONSTRUCTION HOIST

17,500 lb (7,900 kg)

## Performance

### CH175B-23090-02-1

RATIO		23:1		22:1		
MOTOR	090 (9.02 cu in.)	090 (147.8 cc)	120 (12.03 cu in.)	110 (11.03 cu in.)	110 (180.7 cc)	
PRESSURE	3,000 psi	207 bar	2,963 psi	3,000 psi	206 bar	
FLOW	125 gpm	473.1 lpm	170 lpm	155 gpm	586.6 lpm	
WIRE ROPE DIA	5/8 in.	16 mm	5/8 in.	5/8 in.	16 mm	
LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	13,350	373	6,055	114	16,070	402
2	12,030	414	5,455	126	14,480	446
3	10,940	455	4,960	139	13,180	490
4	10,040	496	4,555	151	12,090	534
5	9,270	537	4,205	164	11,160	578
6	8,610	578	3,905	176	10,370	623

### CH175B-22120-01

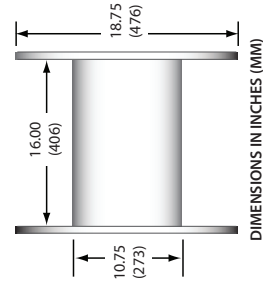
RATIO		22:1		
MOTOR	128 (12.750 cu in.)	640 (6.380 cu in.)	128 (208.9 cc)	
PRESSURE	2,760 psi	190 bar	321.7 lpm	
FLOW	85 gpm	5/8 in.	16 mm	
LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	17,500	406	7,935	124
2	15,770	451	7,155	137
3	14,350	496	6,505	151
4	13,160	541	5,965	165
5	12,160	585	5,515	178
6	11,290	630	5,120	192

### CH175B - 22128/064 - 01

RATIO		22:1		
MOTOR	128 (12.750 cu in.)	640 (6.380 cu in.)	128 (208.9 cc)	
PRESSURE	2,760 psi	190 bar	321.7 lpm	
FLOW	85 gpm	5/8 in.	16 mm	
LAYER	LINE PULL (lb)	LINE SPEED (fpm)	LINE PULL (kg)	LINE SPEED (mpm)
1	17,500	170	6,750	366
2	15,760	189	6,080	407
3	14,340	207	5,530	447
4	13,160	226	5,080	487
5	12,150	245	4,690	528
6	11,290	263	4,360	568

## Drum Capacity

### -01 DRUM

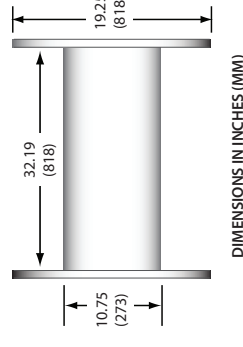


### WIRE ROPE STORAGE, ft

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									
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

### -02 DRUM



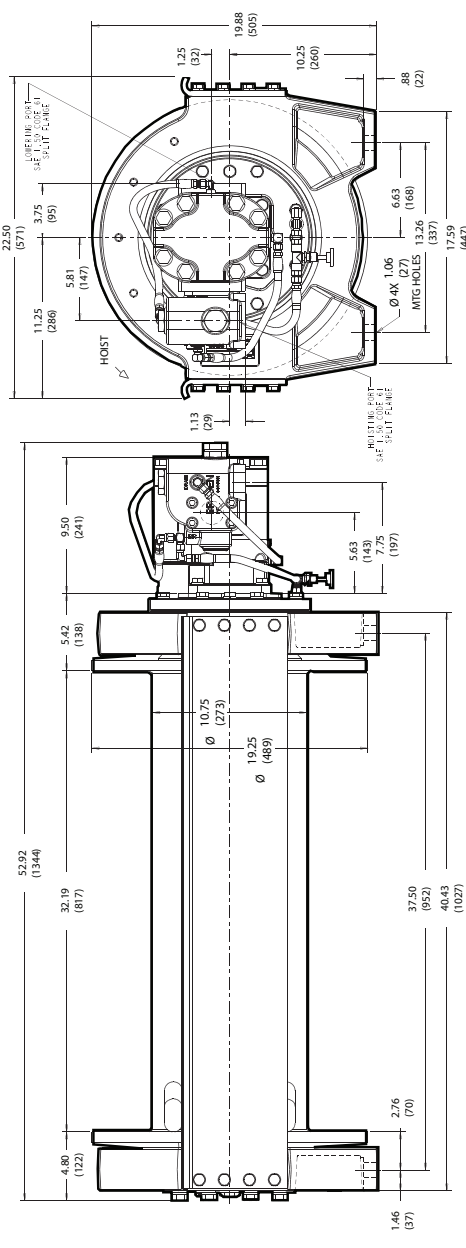
### WIRE ROPE STORAGE, ft

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									
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

