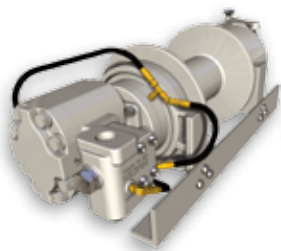
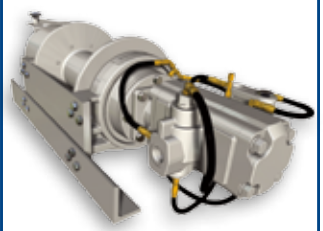
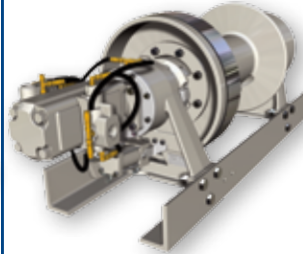
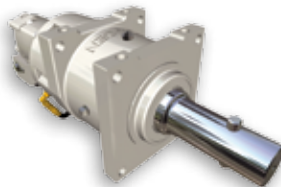
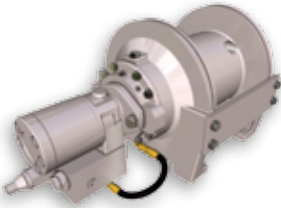




WINCH CATALOG



*Proven, reliable and
always innovative.*





Tested. Reliable. Proven.

Winch Catalog

Choosing the right replacement part or service for your vehicle—whether you own one, or a fleet—is one of the most important decisions you can make for your business. With tested TRP parts, it's an easy decision.

TRP offers you a single aftermarket source for all your parts needs. TRP parts are manufactured and tested to exceed your expectations with a level of quality, value and reliability that is second to none.

TRP Catalog Disclaimers

Information and images have been provided by our network of suppliers and may not be reproduced in any manner without written permission. For further information on a product please contact customer service. TRP disclaims all responsibility for any loss, injury, liability or damage of any kind resulting from, arising out of or in any way related to errors or omissions from this publication, including but not limited to typographical errors.

The cross-reference information in this catalog is based upon data provided by several industry sources and our partners. While every attempt is made to ensure the information presented is accurate, we bear no liability due to incorrect or incomplete information.

Product Availability

Due to export restrictions and market demands, not all products are always available in every location. Check for availability in your area with your local TRP distributor.

No part of this marketing material may be reproduced in any manner without written permission from TRP North America.

TABLE OF CONTENTS

WINCH CATALOG

OILFIELD PRODUCTS - PLANETARY HYDRAULIC WINCHES

HP35A Planetary	10
GPH40A Planetary	10
HP50B-LP	12
HP65A Planetary	14
HP75A	15
HP80A Planetary	17
HP100B	18
HP125B	19
HP130A	21
HP160A	23

GENERAL APPLICATION HOIST UNITS - BRADEN

H20R Planetary	23
PD12C Planetary	24
PD15B Planetary	24

TRP® North America

750 Houser Way N.
Renton, WA 98057

www.TRPParts.com

TRP IS THE ALL-MAKES ANSWER

GENERAL APPLICATION HOIST UNITS -**GEARMATIC**

GH15C Planetary	25
GH30B Planetary	25
GH50 Planetary	25

**GENERAL APPLICATION UNITS - Low MOUNT/
TRAILER WINCHES**

AHGU2	26
AHU7	26
AMU7	26
LGU2	26

UTILITY PRODUCTS - HOIST UNITS

BG3B	27
BG4B	27
BG6B	27
BG8B	28

UTILITY PRODUCTS - PLANETARY UNITS

PD18C-11/14 Planetary Recovery Unit	28
PD18C-11DB Planetary Recovery Unit	29

CAPSTAN DRIVES

Capstan Drives	30
--------------------------	----

UTILITY PRODUCTS - WORM GEAR UNITS

AHGU5 Worm Gear Recovery Unit	31
---	----

AHS7 Worm Gear Recovery Unit	32
AHS10 Worm Gear Recovery Unit	32
AHS20P - MS20	33
AHS20P Worm Gear Recovery Unit	35
AHSU10 Worm Gear Recovery Unit	35
AMS10 Worm Gear Recovery Unit	36
AMS20 Worm Gear Recovery Unit	36
HS30P/ MS30	36
MS30 Worm Gear Recovery Unit	37
HS50P/ MS50	38
HS50P Worm Gear Recovery Unit	40
MS50 Worm Gear Recovery Unit	41
W150 Worm Gear Recovery Unit	41

WINCH BUMPERS

AHGU5	44
HU12A	44
PCD24B with Capstan-Only Drive	45
PD18C with Recovery Unit	45
PD35A	46
PD18D	46
PD35A with Recovery Unit	46

WINCH PARTS

Air Systems	48
Brakes	49
DriveTrain	56
Hardware	59

CHASSIS GRABBERS

Drill-less Mounting Brackets 65

PTO's

1000/ 2000 Series 72

PTO's Torque Ratio Table 72

Bottom Mount PTO's 73

Keyed Shaft PTO's 74

Direct Mount PTO's 74

Direct Mount PTO's 74

Mack "M Drive" 74

3100 Series 75

3150 Series 75

3200 Series 76

3250 Series 76

4100 Series 77

4200 Series 77

6000 Series 78

8000 Series 78

8500 Series 79

PTO PARTS & ACCESSORIES

Air Cab Controls & Towers 80

Adapters 82

Geared Adapters 82

Hose Kits 83

Hydraulic Tanks 84

50 Gallon 84

100 Gallon 85

Pumps 86

Hydraulic Gear Pumps and Motors 86

Wet Line Kits 87

Hardware 88



WINCH HISTORY

Started in 1924, BRADEN, a PACCAR Company has been manufacturing winches in Broken Arrow, Oklahoma for over eighty years. BRADEN has a long standing tradition in the design and manufacturing of oil field recovery winches dating back to 1927. After creating the industry standard for oil field recovery winches, BRADEN has since expanded into other industrial and construction winch applications including utility vehicles and mobile cranes. With production between two plants and over 160,000 square feet of manufacturing and engineering space PACCAR Winch has invested in the future of winch innovation, design and production.

In 1980 PACCAR brought the quality BRADEN name together with both CARCO and GEARMATIC to create the largest industrial winch company in the world. In addition to

specializing in both hoisting and recovery applications PACCAR Winch also manufactures drive systems for various applications including swing, track, and hoist drives.

PACCAR Winch offers its customers

- A complete line of the best-selling, highest quality winch and drive systems.
- A product with the longest service life
- A product with the lowest cost of ownership
- A complete service and tech support department

For more information on PACCAR Winch and how its products can help in your winch application needs please visit us at <http://www.paccarwinch.com/>



TRP WINCH CATALOG

TRP parts for trucks and winch equipment are available through authorized retailers that include Kenworth, Peterbilt and DAF dealerships around the world. Supported by a worldwide network of parts and service professionals, TRP offers dependable aftermarket products that are designed and tested to exceed customers' expectations for quality and value. Regardless of the age, make or application of the vehicle, TRP is the all-makes answer.

QUALITY AND VALUE FOR ALL MAKES OF TRUCKS, AND WINCH EQUIPMENT

Drivers and their vehicles—trucks and winch equipment—are constantly being tested. Whether it's the elements, the schedule or the terrain, you must be prepared. The TRP line of parts and service is engineered to withstand those tests—and exceed them.

TRP is dedicated to providing quality replacement parts for all makes at great value. It's the partnership between tough parts and the roads that test them. It's a focus on extending the life of your vehicle, no matter the make, so you can get the most out of your truck, trailer or bus.

What TRP means to you is confidence. Confidence that you're covered, no matter your make or vehicle. Confidence that the job will get done. And the confidence to take on whatever test may wait around the next turn.

DON'T SEE A PRODUCT YOU NEED?

Check with your authorized TRP retailer,
for additional products, pricing, and availability.

The TRP Winch Catalog contains information from a variety of suppliers, including those listed below. All brand-names, logos, images and information that came from our suppliers and vendors are trademarked, registered and property of that supplier.



*To provide feedback on this TRP Winch Catalog,
please contact us at feedback@TRPParts.com.*

TRP Winch Catalog © 2013

BRADEN WINCH COMMITMENT

THE BRADEN WINCH COMMITMENT

Every process in the design, manufacture and support of **BRADEN** products is focused on one goal: Providing the highest quality winch, hoist and drive systems in the world. **PACCAR WINCH DIVISION** is committed to providing the best in product design, durability and reliability. **BRADEN** products are supported with comprehensive publications, factory service representatives and a worldwide distribution network.

Since 1905, **PACCAR Inc.** has provided high quality products and services to numerous markets and countries. Let us put our experience and expertise to work for you.



HOW TO CALCULATE YOUR PERFORMANCE FORMULAS:

EXAMPLE OF LINE PULL AT LOWER PRESSURE

	PSI	Line Pull From Chart (lbs.)	Estimate (lbs.)
Your System Pressure	1000 PSI	x 35,000 LBS.	= 15,217 LBS.
Maximum Pressure (From Chart)	2300 PSI		

NOTES: Specifications are subject to change without notification and without incurring obligation. Pressure and flow shown are the maximum allowable for the particular combination of winch, ratio, motor and drum. Specifications in this publication are theoretical and may vary depending on hydraulic system, environment, etc. Line pulls are maximum ratings for the winch only. Wire rope ratings may be lower than the winch rating. Consult the wire rope manufacturer for ratings.

READ BEFORE PROCEEDING

! WARNING!

WIRE WRAP WARNING

A minimum of 5 wraps of wire rope must be left on the drum to prevent the load from being supported by the wire rope anchor alone. Since the wire rope anchor is not designed to hold the rated load, failure to leave 5 wraps of wire rope on the drum could cause the load to drop, which could result in property damage, personal injury or death.

! WARNING!

INTENDED USE WARNING

The products described herein are neither designed nor intended for use nor application to equipment used in lifting or moving of persons.

WINCH

P R O D U C T L I N E M A T R I X

PLANETARY HOISTS

DRIVES

AIR WINCHES



BG3B
BG4B
BG6B
BG8B



PD7C
PD10E
PD12C*
PD15B*
PD17A*
PD21A



CH165A
CH175B
CH210A*
CH230B
CH280A
CH400B
CH500B
CH640A



DRH45A



GH15C
GH30B*
GH50



SD20B
SD40C
SD66
SD80B
SD110
HD60B
HD80B
HD110



SD-SWING
LB-LIFTBOAT
RD-REDUCER
WD-WHEEL
TD-TRACK
400B
900C
1200C
1400B



AU8-3
BR30B
WR30
WR30-LS
WR50-LS
WR50



BA2A
BA3A
BA5A

RECOVERY PRODUCTS

UTILITY PRODUCTS

TRACTOR WINCHES



HU8
ALU2/AHLU2
LGU2/HGU2
AMISU3/AHSU3
ALGU2/AHGU2
AMGU5/AHGU5
AMU7/AHU7
AMSU10/AHSU10
AMSU12/AHSU12P



AMS3/AHS3
AMS7/AHS7
AMS10/AHS10
AMS20/AHS20P
MS30/AHS30P
MS50/AHS50P
W150



GPH40A
H20R
H55R
PD18C
HP35A
HP50B/HP65A
HP75A/HP80A
HP100B/HP125B
HP130A/HP160A
N7A
RW300A



BP200B
PCD24B
PD18C
HUP30B



PCD24B
HUP12A
PD18C
PD18D
PD35A
AHGU5-12



BD12A



C500
C503 SKIDDER
50B-PA55
70A-PA56
525/545
527 SKIDDER



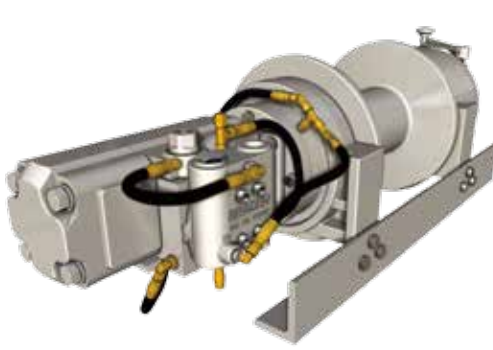
H40
H50
H60H85
H90
H110
H140
H200
SKW40A



583
587

*FREE FALL OPTION AVAILABLE

OILFIELD PRODUCTS - PLANETARY HYDRAULIC WINCHES



05991BWN



06236BWN



06281BWN

Table 1-1: HP35A Models

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05991BWN	Planetary Recovery Winch, 2-speed Motor, right-hand assembly	HP35A-35102/ 051-01 UR RA	35,000 lbs. (15,909 kg)	626 lbs. (284 kg)	EA	1
06236BWN	Planetary Recovery Winch – 11.0 cu in motor, right-hand assembly	HP35A-35110-01 UR	35,000 lbs. (15,909 kg)	626 lbs. (284 kg)	EA	1
06281BWN	Planetary Recovery Winch – 11.9 cu in motor, right-hand assembly	HP35A-35119-01 UR	35,000 lbs. (15,909 kg)	558 lbs. (253 kg)	EA	1

BRADEN GPH40A PLANETARY WINCH - (40,000 LB (18,000 KG) FIRST LAYER LINE PULL)

GPH40A-69119-01 LM

- 2,047 psi (141 bar) @ 30 gpm (113.6 lpm)
- Wire Rope Diameter: 3/4" for standard, 19mm for metric

Table 1-2: AHS20P 2-Speed Motor

Layer	Line Pull		Line Speed		Rope Capacity	
	(lbs.)	(kg)	(fpm)	(mpm)	(ft.)	(m)
1	40,000	18,145	20	6	37	11
2	34,650	15,715	23	7	80	24
3	30,580	13,870	26	8	129	39
4	27,360	12,410	29	9	184	56

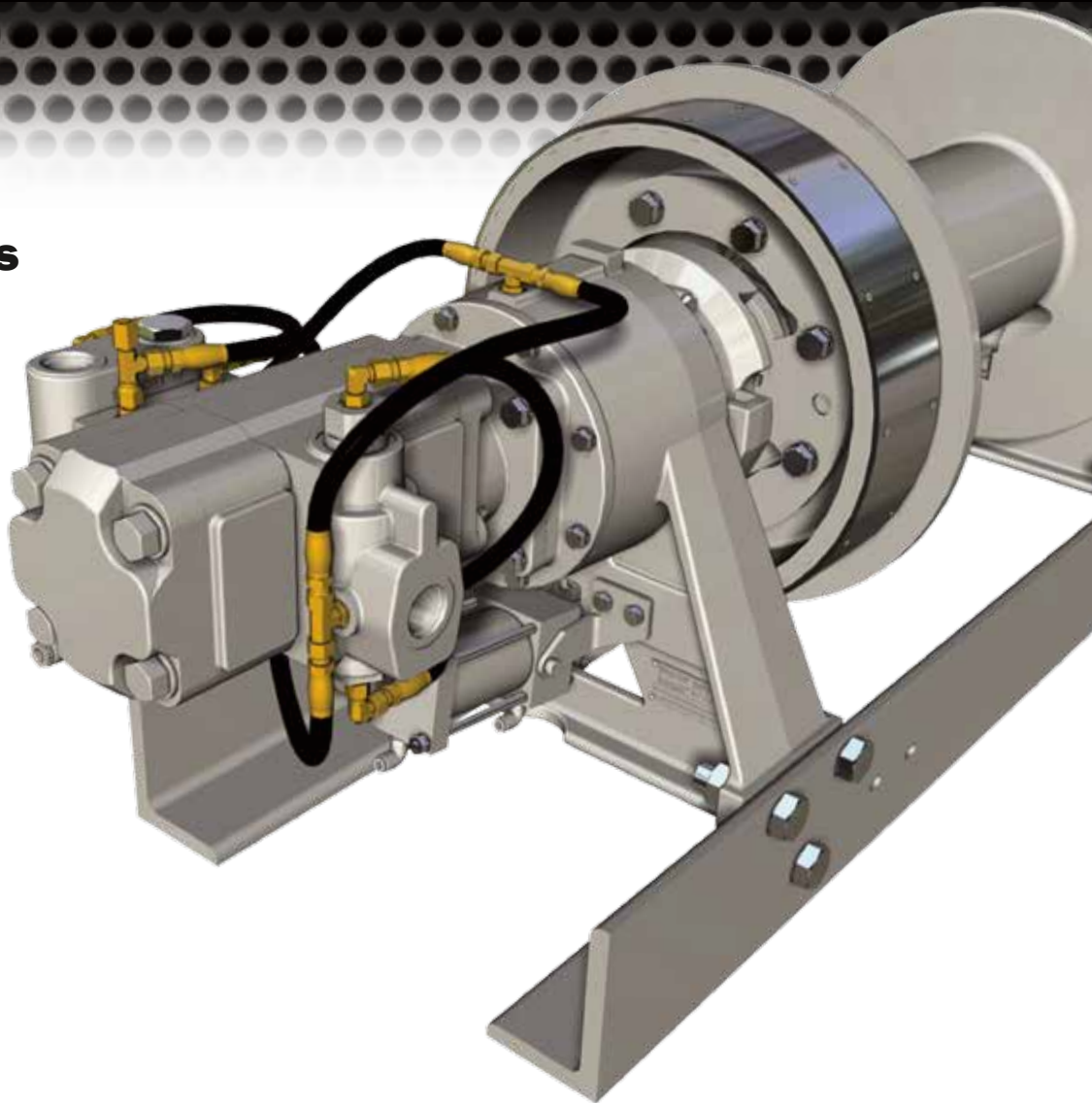
Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

OILFIELD RECOVERY WINCHES

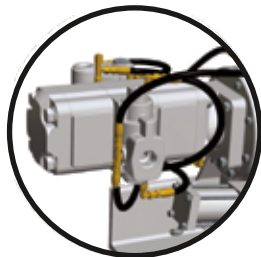
BRADEN®

Recovery Winches

BRADEN winches are ready for hard work and to take on the challenges of the oil field. Manufactured in Oklahoma by **PACCAR Winch**, these powerful recovery winches deliver best-in-class line-pull and robust performance in the toughest applications. Precise load control and ease of service make **BRADEN** oil field recovery winches the top choice for operators and fleet owners alike.



Drum Clutch Featuring Negative-draft Jaws
Negative-draft jaw clutch ensures full engagement under load



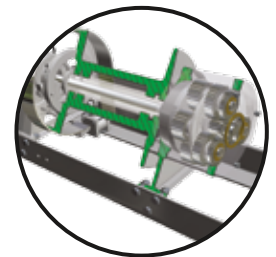
Two-speed Hydraulic Motor
Two-speed, high-performance gear motors maximize productivity with faster line payout and reel-in



Patented BRADEN Brake Valve
The industry standard, our brake valve works in conjunction with the overrunning clutch and spring-applied, hydraulically-released multi-disc brake for precise load control



Air-actuated Controls
Air shift actuators enable remote operation of band brake and drum clutch, and are standard features for most HP models



Multi-stage Planetary Gearbox
Sealed, high-efficiency planetary reduction gearing provides continuous duty performance for long pulls



Table 1-3: GPH40A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06464BWN	Planetary Recovery Winch, Gin Pole Hoist, Low-mount	GPH40A-69119-01	40,000 lbs. (18,144 kg)	EA	1

BRADEN HP50B-LP WINCH 50,000 LBS. (22,680 KG) FIRST LAYER LINE PULL

HP50B-LP-104077/038-01

- 7.33/3.80 cu in. 2-Speed Gear Motor (125/ 63cc)
- 2240 psi (156.6 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 7/8" for standard, 22mm for metric

Table 1-4: HP50B-LP-104077/038-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	50,000	22,755	31	9	23,700	10,786	62	19
2	40,900	18,650	37	11	19,400	8,841	75	23
3	34,600	15,800	44	13	16,400	7,491	89	27
4	30,000	13,705	51	16	14,220	6,495	103	31
5	26,500	12,100	58	18	12,550	5,736	117	36
6	23,700	10,832	65	20	11,200	5,132	131	40

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

HP50B-LP-104080/040-01

- 8.00/4.00 cu in. 2-Speed Vane Motor (130/ 65cc)
- 2000 psi (138 bar) @ 50 gpm (190 lpm)
- Wire Rope Diameter: 7/8" for standard, 22mm for metric

Table 1-5: HP50B-LP-104077/038-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	50,000	22,727	26	8	24,200	11,364	53	16
2	40,900	18,627	32	10	19,800	9,314	65	20
3	34,600	15,777	38	12	16,750	7,891	77	23
4	30,000	13,686	44	13	14,500	6,841	89	27
5	26,500	12,082	50	15	12,800	6,041	101	31
6	23,700	10,818	56	17	11,450	5,409	113	34

WIRE ROPE CAPACITY

- -01 Drum Capacity (feet)*
- (7.00" B x 18.00" F x 17.75"W)

Table 1-6: Wire Rope Capacity

Rope Size	1	2	3	4	5	6
3/4"	43	94	150	220	300	380
7/8"	37	83	137	199	270	350
1"	33	74	120	180	250	
4"	10	23	37	55	76	

- -01 Drum Capacity (meters)*
- (178mm B x 457mm F x 442mm W)

Table 1-7: Wire Rope Capacity

Rope Size	1	2	3	4	5	6
19mm	12	27	44	64	86	111
22mm	11	25	42	61	82	107
25mm	10	23	37	55	76	

* All capacities above based on 90% of theoretical Est. Weight: 1075 lbs. (488 KG)
All images, information and data provided by Braden Winch Division.



Table 1-8: HP50B Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06071BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP50B-LP-104077/ 038-01	50,000 lbs. (22,755 kg)	EA	1

BRADEN HP65A PLANETARY WINCH 68,580 LBS. (31, 136 KG) FIRST LAYER LINE PULL

HP65A-108089/045-01

- 2,400 psi (165 bar) @ 60 gpm (227.1 lpm)
- Wire Rope Diameter: 1" for standard, 25mm for metric

Table 1-9: HP65A-108089/045-01

Layer	Low Speed				High Speed				Rope Capacity	
	Line Pull		Line Speed		Line Pull		Line Speed		(ft.)	(m)
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)		
1	68,500	31,070	28	9	34,250	15,535	60	18	47	14
2	56,040	25,420	34	10	28,020	12,710	74	23	105	32
3	47,420	21,500	40	12	23,710	10,755	88	27	173	53
4	41,100	18,640	47	14	20,550	9,320	101	31	252	77
5	36,260	16,440	53	16	18,130	8,220	115	35	341	104

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.



Table 1-10: HP65A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06513BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP65A-108089/045-01	65,000 lbs. (29,484 kg)	EA	1

BRADEN HP75A WINCH 75,000 LBS. (34,020 KG) FIRST LAYER LINE PULL

HP75A-LP-122089/045-01

- 8.92/4.46 cu in. 2-Speed Gear Motor (146/73cc)
- 2670 psi (184.2 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1" for standard, 24mm for metric

Table 1-11: HP75A-LP-122089/045-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	75,000	34,020	26	8	37,500	17,010	55	17
2	61,500	27,900	32	10	30,700	13,930	67	20
3	52,100	23,630	37	11	26,000	11,790	80	24
4	45,200	20,500	43	13	22,600	10,250	92	27

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

HP75A-LP-088130/065-01

- 13.00/6.50 cu in. 2-Speed Vane Motor (213/106cc)
- 2400 psi (165.6 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1" for standard, 24mm for metric

Table 1-12: HP75A-LP-088130/065-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	75,000	34,100	27	8	32,700	14,868	54	16
2	61,500	28,000	33	10	26,800	12,295	66	20
3	52,100	23,700	40	12	22,700	10,486	78	23
4	45,200	20,955	46	13	19,700	9,136	90	27

WIRE ROPE CAPACITY

- -01 Drum Capacity [feet]*
- (8.10" B x 18.00" F x 20.00"W)

Table 1-13: Wire Rope Capacity

Rope Size	1	2	3	4	5
7/8"	48	103	168	243	327
1"	42	94	155	226	
1-1/8"	38	86	143	209	
4"	10	23	37	55	76

- -01 Drum Capacity (meters)*
- (206 B x 457 F x 508 W)

Table 1-14: Wire Rope Capacity

Rope Size	1	2	3	4	5	6	7
22mm	15	32	53	76	102	116	146
25mm	14	30	49	72		107	
28mm	13	13	47	68			

* All capacities above based on 90% of theoretical Est. Weight: 1500 LBS. (680 KG)
All images, information and data provided by Braden Winch Division.

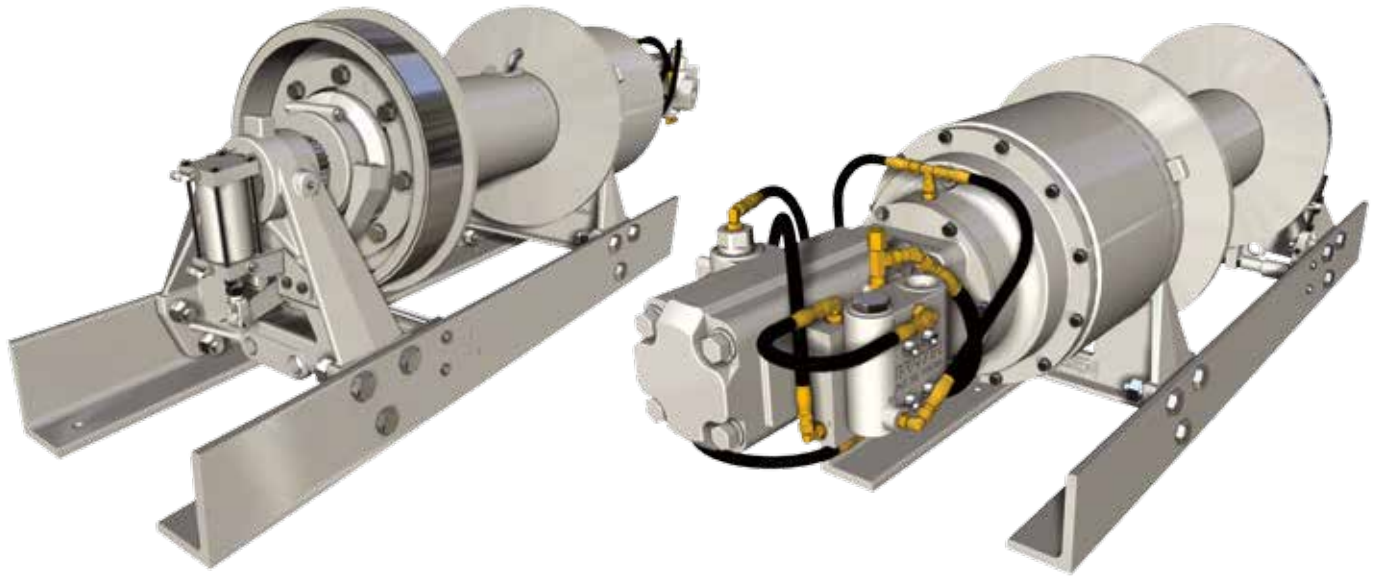


Table 1-15: HP75A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06112BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP75A-LP-122089/ 045-01	75,000 lbs. (34,019 kg)	EA	1

BRADEN HP80A PLANETARY WINCH 80,000 LBS. (36,300 KG)

HP80A-123089/045-01

- 2,625 psi (184 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1" for standard, 25mm for metric

Table 1-16: HP80A-123089/045-01

Layer	Low Speed				High Speed				Rope Capacity	
	Line Pull		Line Speed		Line Pull		Line Speed		ft.)	(m)
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)		
1	80,000	36,335	27	8	34,250	17,395	60	18	47	14
2	66,670	30,305	32	10	28,020	14,495	72	22	103	31
3	57,140	25,975	38	12	23,710	12,425	84	26	168	51
4	50,000	22,725	43	13	20,550	10,875	96	29	243	74
5	44,450	20,205	49	15	18,130	9,665	108	33	327	100

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

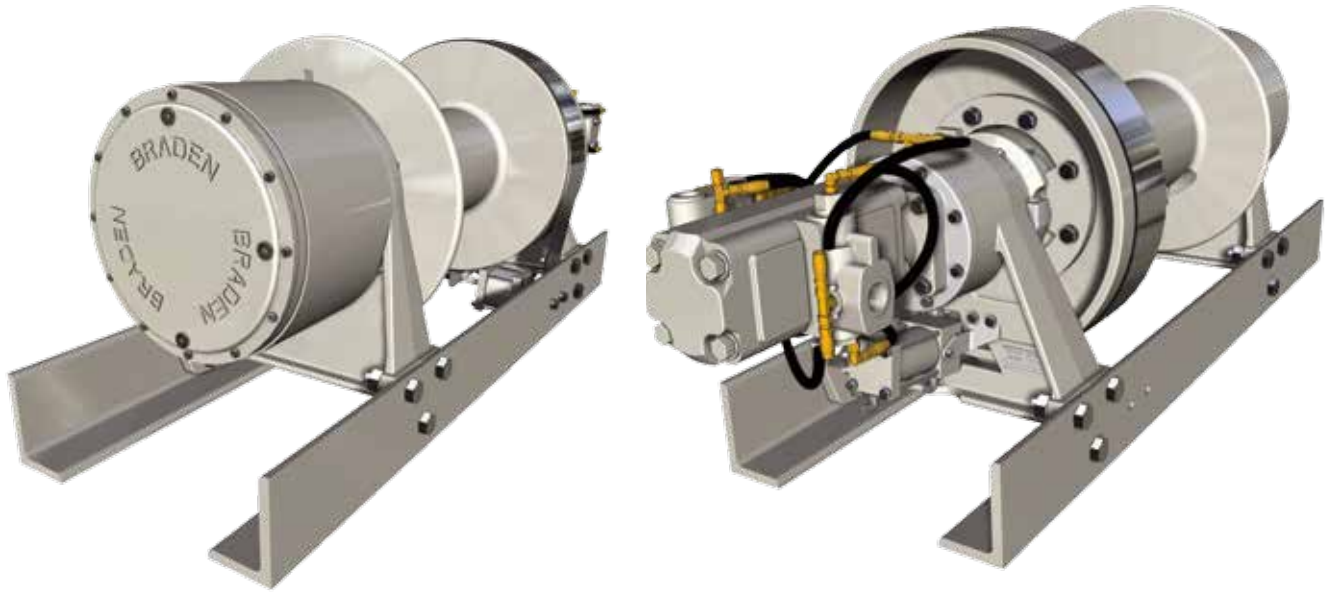


Table 1-17: HP80A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06510BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP80A-123089/ 045-01	80,000 lbs. (36,288 kg)	EA	1



Table 1-18: HP100B Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06528BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP100B-123114/ 051-01	100,000 lbs. (45,360 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

BRADEN HP125B WINCH 125,000 LBS. (56,699 KG) FIRST LAYER LINE PULL

HP125B-LP-157128/064-01

- 12.75/6.375 cu in. 2-Speed Gear Motor (209/104cc)
- 2600 PSI (179.4 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1-1/8", 28mm for metric

Table 1-19: HP125B-LP-157128/064-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	125,000	56,986	14	4	55,200	21,955	31	9
2	102,300	46,777	17	5	45,150	18,023	38	12
3	86,500	39,673	20	6	38,200	15,286	45	14
4	75,000	34,441	23	7	33,100	13,268	53	16

HP125B-LP-157130/065-01

- 13.0/6.50 cu in. 2-Speed Vane Motor (213/106cc)
- 2500 psi (172.5 bar) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1-1/8", 28mm for metric

Table 1-20: HP125B-LP-157130/065-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	125,000	56,823	17	7	54,500	24,777	34	15
2	102,300	46,645	20	9	44,600	20,341	41	18
3	86,500	39,559	24	11	37,740	17,250	49	21
4	75,000	34,345	28	12	32,700	14,977	57	25

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

WIRE ROPE CAPACITY

- -01 Drum Capacity [feet]*
- (9.00”B x 20.00”F x 20.00”W)

Table 1-21: Wire Rope Capacity

Rope Size	1	2	3	4	5
1"	47	103	168	243	328
1-1/8"	42	93	154	224	
1-1/4"	38	86	142	209	

- -01 Drum Capacity (meters)*
- (229mm B x 508mm F x 508mm W)

Table 1-22: Wire Rope Capacity

Rope Size	1	2	3	4	5
25mm	14	31	50	73	98
28mm	13	29	48	69	
32mm	12	26	45	66	

* All capacities above based on 90% of theoretical Est. Weight: 1700 LBS. (771 KG)

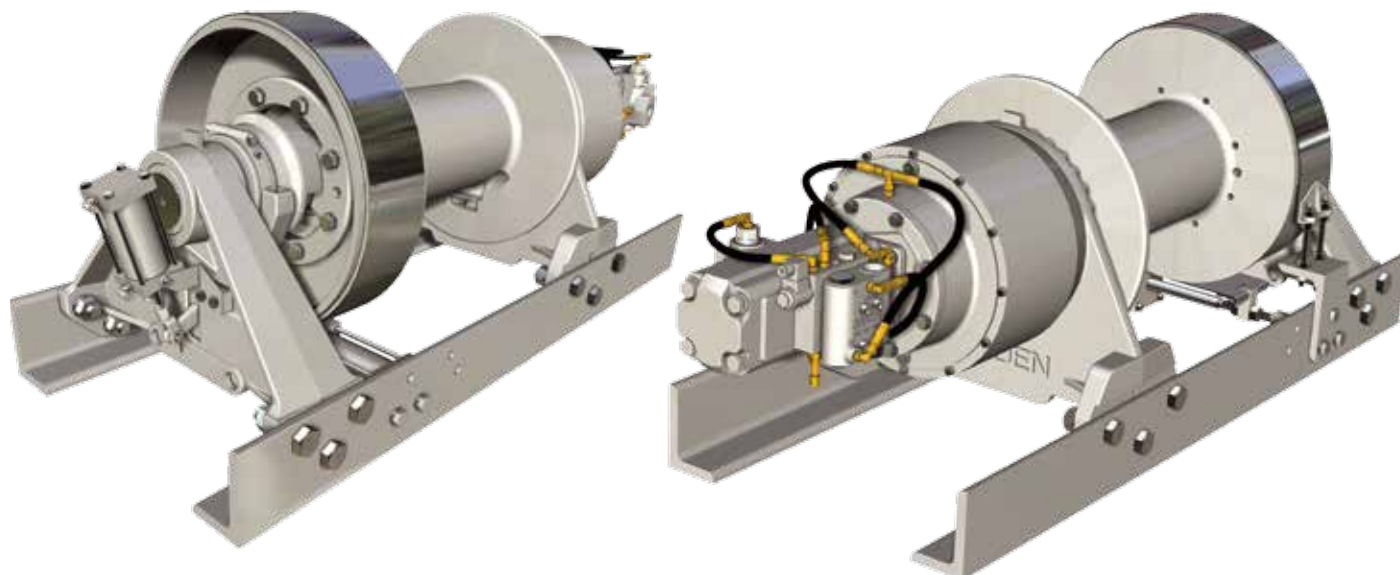


Table 1-23: HP125B Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06130BWN	Planetary Recovery Winch, 2-speed Gear Motor	HP125B-LP-157128/ 064-01	125,000 lbs. (56,699 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

BRADEN HP130A WINCH 130,000 LBS. (58,967 KG) FIRST LAYER LINE PULL

HP130A-157128/064-01

- 12.75/6.375 cu in. 2-Speed Gear Motor (209/104cc)
- 2702 psi (186.4 bar) @ 85 gpm (322 lpm)
- Wire Rope Diameter: 1-1/4" for standard, 30mm for metric

Table 1-24: HP130A-157128/064-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	130,000	59,091	21	6	50,090	22,768	42	14
2	106,360	47,964	26	8	40,980	18,482	93	18
3	90,000	40,364	31	9	34,640	15,550	154	21
4	78,000	34,841	36	11	30,050	13,423	224	24

HP130A-157130/065-01

- 13.0/6.5 cu in. 2-Speed Vane Motor (213/106cc)
- 2500 psi (17,238 kPa) @ 60 gpm (227 lpm)
- Wire Rope Diameter: 1-1/4" for standard, 30mm for metric

Table 1-25: HP130A-157130/065-01

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	125,000	60,623	17	7	54,500	26,432	34	15
2	102,300	49,205	20	9	44,600	21,455	41	18
3	86,500	41,409	24	11	37,740	18,055	49	22
4	75,000	35,741	28	12	32,700	15,586	57	25

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

WIRE ROPE CAPACITY

- -01 Drum Capacity [feet]*
- (9.00”B x 20.00”F x 20.00” W)

Table 1-26: Wire Rope Capacity

Rope Size	1	2	3	4	5
1"	47	103	168	243	328
1-1/8"	42	93	154	224	
1-1/4"	38	86	142	209	

- -01 Drum Capacity (meters)*
- (229mm B x 508mm F x 508mm W)

Table 1-27: Wire Rope Capacity

Rope Size	1	2	3	4	5
25mm	14	31	50	73	98
28mm	13	29	48	69	
32mm	12	27	45	66	

* All capacities above based on 90% of theoretical Est. Weight: 1700 LBS. (771 KG)

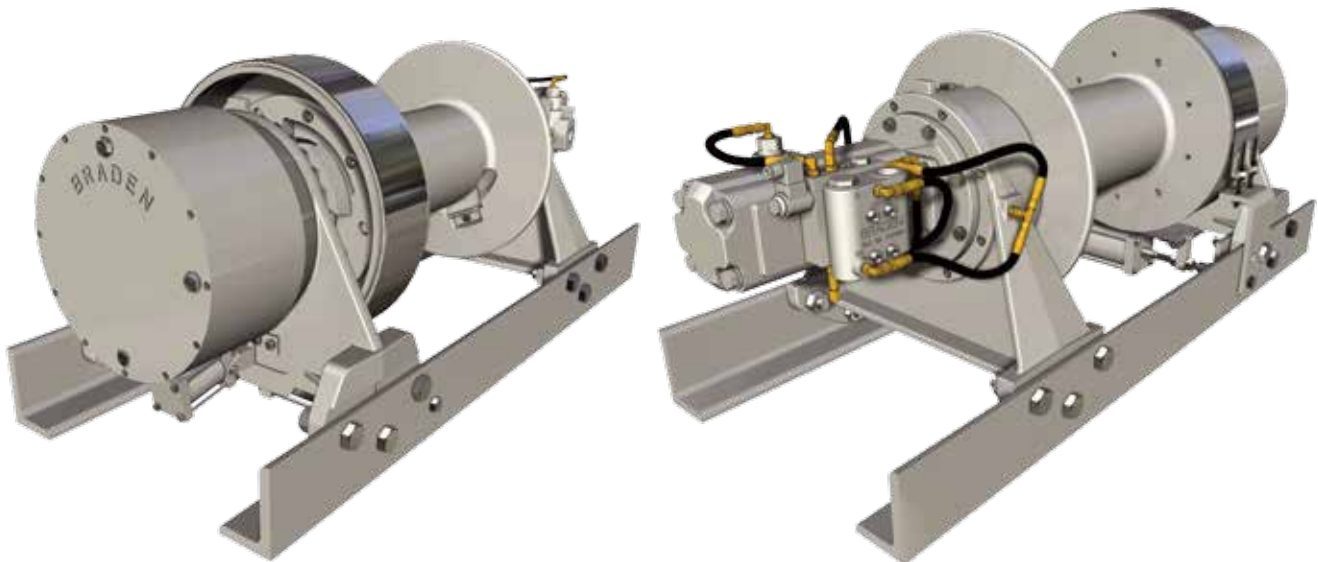


Table 1-28: HP130A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
06244BWN	Planetary Recovery Winch, 2-speed Gear Motor, Brake Mounted	HP130A-157128/ 064-01 RA	130,000 lbs. (59,091 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.



Table 1-29: HP160A Models

Part No.	Description	Model	Rated Capacity	UOM	SPQ
05131BWN	Planetary Recovery Winch, 2-speed Vane Motor	HP160A-206R15/ 075	160,000 lbs. (72,576 kg)	EA	1

GENERAL APPLICATION HOIST UNITS - BRADEN

Table 1-30: H20R Planetary Hoists

Part No.	Description	Model	Rated Capacity	UOM	SPQ
03974BWN	Gearmatic Planetary Hoist, 41:1 gear ratio, 6.4 cu in motor, -01 drum, FS	H20R-FS-41064-01	20,000 lbs. (9,072 kg)	EA	1
05559BWN	Gearmatic Planetary Hoist, 41:1 gear ratio, 3.7 cu in motor, -21 drum	H20R-SPL-41037-21	20,000 lbs. (9,072 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*



Table 1-31: PD12C Planetary Hoists

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05696BWN	Hydraulic Recovery Winch - 12K, 29:1 gear ratio, 6.4 cu in motor, -02 drum (9.75 x 16.38 x 13.75), underwind (clockwise hoisting)	PD12C-SPL-29064-02U	12,000 lbs. (5,443 kg)	430 lbs (195 kg)	EA	1
03347BWN	Planetary Hoist, 29:1 gear ratio, 6.4 cu in motor, -04 drum, PH	PD12C-29064-04-1	12,000 lbs. (5,443 kg)	n/a	EA	1
03103BWN	Planetary Hoist, 59:1 gear ratio, 3.4 cu in motor, -02 drum	PD12C-59034-02	12,000 lbs. (5,443 kg)	n/a	EA	1
05677BWN	Planetary Hoist, 41:1 gear ratio, 3.9 cu in motor, -02 drum	PD12C-SPL-41039-02	12,000 lbs. (5,443 kg)	n/a	EA	1
05692BWN	Planetary Hoist, 41:1 gear ratio, 5.1 cu in motor, -02 drum, PH	PD12C-SPL-41051-02-1	12,000 lbs. (5,443 kg)	n/a	EA	1
05674BWN	Planetary Hoist, 59:1 gear ratio, 3.9 cu in motor, -02 drum	PD12C-59039-02	12,000 lbs. (5,443 kg)	n/a	EA	1
05678BWN	Planetary Hoist, 59:1 gear ratio, 3.9 cu in motor, -02 drum, PH	PD12C-59039-02-1	12,000 lbs. (5,443 kg)	n/a	EA	1

Table 1-32: PD15B Planetary Hoists

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
03445BWN	Hydraulic Hoist - 15K, 41:1 gear ratio, 6.4 cu in motor, -04 drum (10.63 x 20.00 x 13.50)	PD15B-41064-04	15,000 lbs. (6,804 kg)	520 lbs (236 kg)	EA	1
03448BWN	Hydraulic Recovery Winch - 15K, 41:1 gear ratio, 2-speed gear motor, -04 drum (10.63 x 20.00 x 13.50)	PD15B-41064/32-04	15,000 lbs. (6,804 kg)	521 lbs (236 kg)	EA	1
05816BWN	Planetary Hoist, 41:1 gear ratio, 6.4 cu in motor, -05 drum, PH	PD15B-SPL-41064-05-1	15,000 lbs. (6,804 kg)	n/a	EA	1

All images, information and data provided by Braden Winch Division.

GENERAL APPLICATION HOIST UNITS - GEARMATIC

Table 1-33: GH15C Planetary Hoists

Part No.	Description	Model	Rated Capacity	UOM	SPQ
07588BWN	Gearmatic Planetary Hoist, 34:1 gear ratio, 5.1 cu in motor, -02 drum (6.5 x 16.75 x 13.0 DFW), Equal Speed	GH15C-34051-02	15,000 lbs. (6,804 kg)	EA	1
07589BWN	Gearmatic Planetary Hoist, 34:1/ 8:1 gear ratio, 5.1 cu in motor, -02 drum (6.5 x 16.75 x 13.0 DFW), High Speed Reverse	GH15C-34/ 8051-02	15,000 lbs. (6,804 kg)	EA	1



Table 1-34: GH30B Planetary Hoists

Part No.	Description	Model	Rated Capacity	UOM	SPQ
07545BWN	Gearmatic Planetary Hoist, 23:1 gear ratio, 9.0 cu in motor, -07 drum (14 x 24 x 17 DFW), Equal Speed	GH30B-23090-07	30,000 lbs (13,608 kg)	EA	1
07537BWN	Gearmatic Planetary Hoist, 40:1 gear ratio, 12.0 cu in motor, -01 drum (10 x 20 x 11 DFW), Equal Speed	GH30B-40120-01	30,000 lbs (13,608 kg)	EA	1
07541BWN	Gearmatic Planetary Hoist, 40:1 gear ratio, 12.0 cu in motor, -05 drum (10 x 24 x 22 DFW), Equal Speed	GH30B-40120-05	30,000 lbs (13,608 kg)	EA	1
07542BWN	Gearmatic Planetary Hoist, 40:1/ 9:1 gear ratio, 12.0 cu in motor, -05 drum (10 x 24 x 22 DFW), High Speed Reverse	GH30B-40/9120-05	30,000 lbs (13,608 kg)	EA	1

Table 1-35: GH50 Planetary Hoists

Part No.	Description	Model	Rated Capacity	UOM	SPQ
07369BWN	Gearmatic Planetary Hoist, 114:1 gear ratio, 9.0 cu in motor, -06 drum (20 x 30 x 19 DFW)	GH50-114090-06	44,000 lbs. (19,958 kg)	EA	1

All images, information and data provided by Braden Winch Division.

GENERAL APPLICATION UNITS - LOW MOUNT/ TRAILER WINCHES

Table 1-36: AHGU2 Winches

Part No.	Description	Model	Rated Capacity	UOM	SPQ
04876BWN	Trailer Winch, Hydraulic Worm Gear, 10 in drum R gear cut, L assembly, 8.0 hydraulic motor	AHGU2-10F R LA-8	12,000 lbs. (5,443 kg)	EA	1

Table 1-37: AHU7 Winches

Part No.	Description	Model	Rated Capacity	UOM	SPQ
05353BWN	Trailer Winch, Hydraulic Worm Gear, 14 in drum, R gear cut, L assembly - 11.9 hydraulic motor	AHU7-14F R LA-11.9 SPL	20,000 lbs. (9,072 kg)	EA	1

Table 1-38: AMU7 Winches

Part No.	Description	Model	Rated Capacity	UOM	SPQ
04343BWN	Trailer Winch, Mechanical Worm Gear, 14 in drum, R gear cut, R assembly	AMU7-14FU R RA BLACK WINCH	20,000 lbs. (9,072 kg)	EA	1

Table 1-39: LGU2 Winches

Part No.	Description	Model	Rated Capacity	UOM	SPQ
03452BWN	Trailer Winch, Mechanical Worm Gear, 10 in drum, L gear cut, L assembly	LGU2-10FU-2 L LA BLACK WINCH	10,000 lbs. (4,536 kg)	EA	1

All images, information and data provided by Braden Winch Division.

UTILITY PRODUCTS - HOIST UNITS

Table 1-40: BG3B Hoist Units

Part No.	Description	Model	Rated Capacity	UOM	SPQ
05618BWN	Mobile Planetary Hydraulic Hoist, 5:1 gear ratio, 8.0 cu in motor	BG3B-05080-01	3,000 lbs. (1,361 kg)	EA	1



Table 1-41: BG4B Hoist Units

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05601BWN	Gearmatic Planetary Hoist	BG4B-SPL-05139-01H	4,000 lbs. (1,815 kg)	155 lbs (70 kg)	EA	1

Table 1-42: BG6B Hoist Units

Part No.	Description	Model	Rated Capacity	UOM	SPQ
05320BWN	Mobile Planetary Hydraulic Hoist, 29:1 gear ratio, 3.9 cu in motor, -02 drum	BG6B-29039-02	6,000 lbs. (2,720 kg)	EA	1
05321BWN	Mobile Planetary Hydraulic Hoist, 29:1 gear ratio, 3.9 cu in motor, -02 drum, PH	BG6B-29039-02-1	6,000 lbs. (2,720 kg)	EA	1
05055BWN	Mobile Planetary Hydraulic Hoist, 29:1 gear ratio, 2.9 cu in motor, -02 drum, PH	BG6B-29029-02-1	6,000 lbs. (2,720 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

Table 1-43: BG8B Hoist Units

Part No.	Description	Model	Rated Capacity	UOM	SPQ
05031BWN	Mobile Planetary Hydraulic Hoist, 59:1 gear ratio, 2.9 cu in motor, -01 drum	BG8B-59029-01	8,000 lbs. (3,629 kg)	EA	1
05334BWN	Mobile Planetary Hydraulic Hoist, 59:1 gear ratio, 3.9 cu in motor, -01 drum	BG8B-34039-01	8,000 lbs. (3,629 kg)	EA	1
05028BWN	Mobile Planetary Hydraulic Hoist, 59:1 gear ratio, 2.0 cu in motor, -01 drum	BG8B-59020-01	8,000 lbs. (3,629 kg)	EA	1
05341BWN	Mobile Planetary Hydraulic Hoist, 59:1 gear ratio, 2.9 cu in motor, -01 drum, PH	BG8B-59029-01-1	8,000 lbs. (3,629 kg)	EA	1
05335BWN	Mobile Planetary Hydraulic Hoist, 34:1 gear ratio, 3.9 cu in motor, -01 drum, PH	BG8B-34039-01-1	8,000 lbs. (3,629 kg)	EA	1

UTILITY PRODUCTS - PLANETARY UNITS

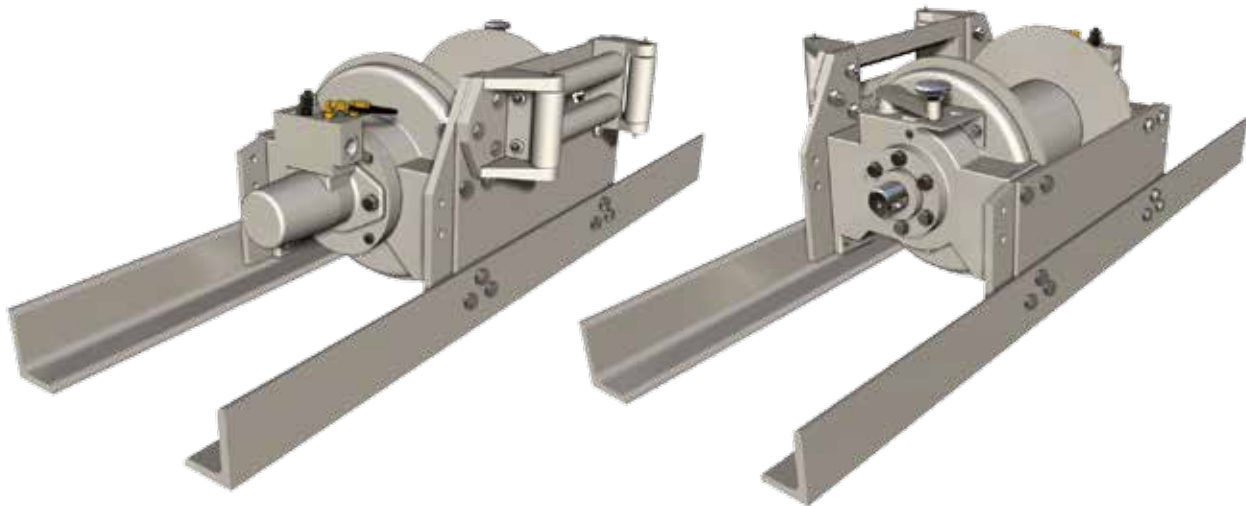


Table 1-44: PD18C-11/14 Planetary Recovery Units

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05375BWN	Planetary Recovery Winch with Roller Assembly – Behind cab mount, 14" flanges, 4-way roller	PD18C-11/14	20,000 lbs. (9,072 kg)	439 lbs (199 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*



Table 1-45: PD18C-11DB Planetary Recovery Units

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05374BWN	Planetary Recovery Winch Assembly – Front-mount, 4-way roller, dual acting brake, extension shaft	PD18C-11DB FEB	20,000 lbs. (9,072 kg)	479 lbs (217 kg)	EA	1

All images, information and data provided by Braden Winch Division.



Table 1-46: Capstan Drives

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
03842BWN	Capstan Drive, 4.9 cu in Motor, 15 gpm Flow	PCD24B-08049-01	4,000 lbs. (1,815 kg)	152 lbs (69 kg)	EA	1
03551BWN	Capstan Drive, 8.0 cu in Motor, 20 gpm Flow	PCD24B-08080-01	4,000 lbs. (1,815 kg)	146 lbs (66 kg)	EA	1
03632BWN	Capstan Drive, 8.0 cu in Motor, 30 gpm Flow	PCD24B-08080-01	4,000 lbs. (1,815 kg)	154 lbs (70 kg)	EA	1
03616BWN	Capstan Drive, 11.9 cu in Motor, 20 gpm Flow	PCD24B-08119-01H	5,500 lbs. (2,495 kg)	154 lbs (70 kg)	EA	1
03631BWN	Capstan Drive, 11.9 cu in Motor, 30 gpm Flow	PCD24B-08119-01H	6,000 lbs. (2,720 kg)	158 lbs (72 kg)	EA	1
03617BWN	Capstan Drive, without Hydraulic Motor and Brake Valve	PCD24B-08000-01	Up to 6,000 lbs. (2,721 kg)	145 lbs (66 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

UTILITY PRODUCTS - WORM GEAR UNITS

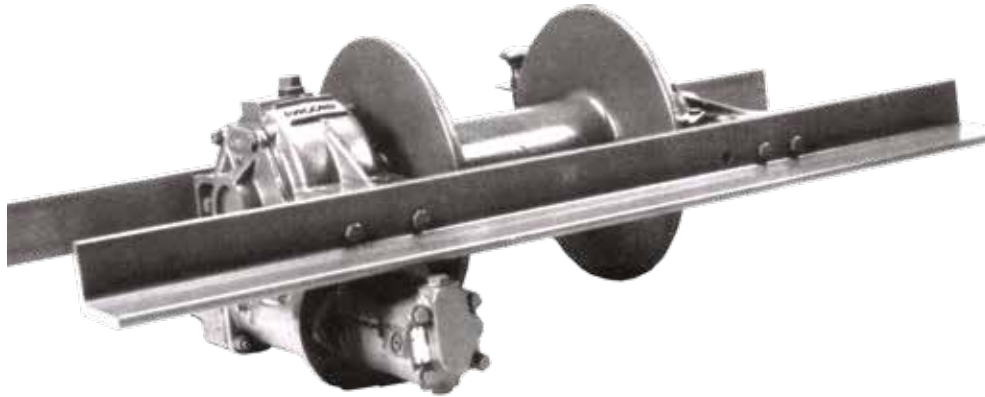


Table 1-47: AHGU5 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	Weight	UOM	SPQ
03223BWN	Hydraulic Recovery Winch, Low Mount Worm, Right Gear, Right Assembly	AHGU5-12F	20,000 lbs. (9,072 kg)	RH	RH	n/a	243 lbs (110 kg)	EA	1
03161BWN	Right Gear, Left Assembly - 24 Winch - 94"	AHGU5-12F	20,000 lbs. (9,072 kg)	RH	LH	24"	715 lbs (324 kg)	EA	1
03226BWN	Right Gear, Left Assembly - 24 Winch	AHGU5-12FEB	20,000 lbs. (9,072 kg)	RH	LH	24"	345 lbs (156 kg)	EA	1
03946BWN	Right Gear, Right Assembly - 24 Winch	AHGU5-12FEBU	20,000 lbs. (9,072 kg)	RH	RH	24"	345 lbs (156 kg)	EA	1
04242BWN	Right Gear, Left Assembly - 25.8/ 12.9 Winch	AHGU5-12FEB	20,000 lbs. (9,072 kg)	RH	LH	n/a	450 lbs (204 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

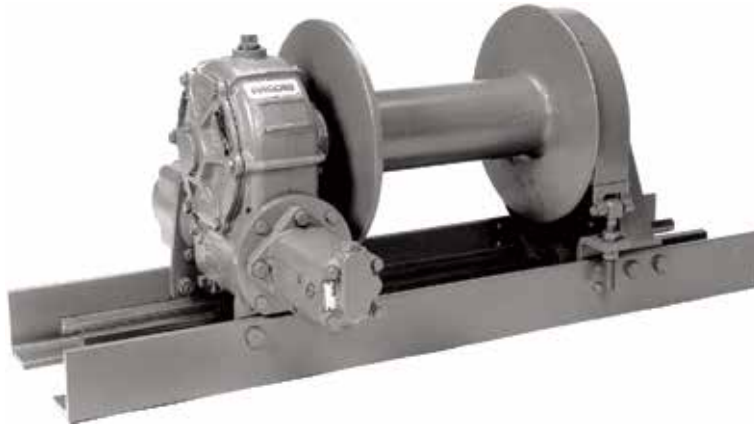


Table 1-48: AHS7 Worm Gear Recovery Units

Part No.	Description	Model	Gear Cut	Assembly	Rated Capacity	Drum Size	Weight	UOM	SPQ
03312BWN	Right Gear, Left Assembly - 25.8/12.9 Winch	AHS7-15BEB	RH	LH	20,000 lbs. (9,072 kg)	n/a	493 lbs (224 kg)	EA	1

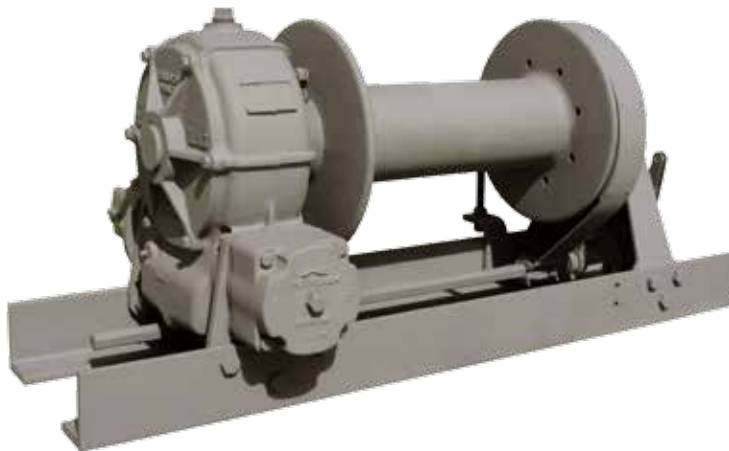


Table 1-49: AHS10 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	Weight	UOM	SPQ
03338BWN	Hydraulic Winch, Remote Band Brake	AHS10-18B R LA-24	30,000 lbs (13,608 kg)	RH	LH	18"		EA	1
05391BWN	Right Gear, Left Assembly - 25.8/12.9 Winch, 2-speed motor, remote band brake	AHS10-23B	30,000 lbs (13,608 kg)	RH	LH	n/a	618 lbs (280 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

BRADEN AHS20P - MS20 WINCH 45,000 LBS. (20,412 KG) FIRST LAYER LINE PULL

AHS20P SINGLE SPEED GEAR MOTOR

- 5.1 cu in. (83 cc)
- 2,300 psi (158.7 bar) @ 60 gpm (277 lpm)
- Wire Rope Diameter: 7/8" for standard, 24mm for metric

Table 1-50: AHS20P Single Speed Gear Motor

Layer	Low Speed		High Speed	
	(lbs.)	(kg)	(fpm)	(mpm)
1	45,000	20,410	18	5.5
2	36,800	16,690	22	6.7
3	31,200	14,150	26	7.9
4	27,000	12,250	30	9.2
5	23,800	10,800	34	10.4
6	21,300	9,660	38	11.6

AHS20P 2-SPEED MOTOR

- 4.9/2.4 cu in. (80/40 cc)
- 3,000 psi (207 bar) @ 40 gpm (151 lpm)
- Wire Rope Diameter: 7/8" for standard, 24mm for metric

Table 1-51: AHS20P 2-Speed Motor

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	45,000	20,410	10	3.0	20,760	9,420	23	7.0
2	36,000	16,700	12	3.7	16,980	7,700	28	8.5
3	30,000	14,130	15	4.6	14,370	6,520	34	10.4
4	25,720	12,250	17	5.2	12,450	5,650	39	11.9
5	22,500	10,810	22	6.7	10,990	4,990	44	13.4

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

MECHANICAL DRIVE

- Wire Rope Diameter: 1" for standard, 24mm for metric

Table 1-52: Mechanical Drive

Layer	Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)
1	45,000	20,410	18	6
2	36,000	16,330	23	7
3	30,000	13,610	28	9
4	25,700	11,660	32	10
5	22,500	10,210	37	11.3

WIRE ROPE CAPACITY

- -01 Drum Capacity [feet]*
- (9.00"B x 20.00"F x 20.00"W)

Table 1-53: Wire Rope Capacity

Rope Size	1	2	3	4	5	6	7
3/4"	43	94	150	220	300	380	480
7/8"	37	83	137	199	270	350	
1"	33	74	120	180	250		
4"	10	23	37	55	76		

- -01 Drum Capacity (meters)*
- (178mm B x 457mm F x 968mm W)

Table 1-54: Wire Rope Capacity

Rope Size	1	2	3	4	5	6	7
19mm	13	28	46	67	91	116	146
22mm	11	25	42	61	82	107	
25mm	10	23	37	55	76		

* All capacities above based on 90% of theoretical Est. Weight: 870 LBS. (394 KG)
 Check specific Braden Winch material list to verify correct part number.
 All images, information and data provided by Braden Winch Division.

ENGINEERING DATA

- Worm Gear Ratio = 37:1

Table 1-55: Technical Information

Static Input Torque*		Dynamic Input Torque*		Max Input**
(lbs.-in)	(Nm)	(lbs.-in)	(Nm)	(rpm)
13,300	1,503	9,980	1,128	330

*Without Planetary Motor Adapter

**AT Rated Load

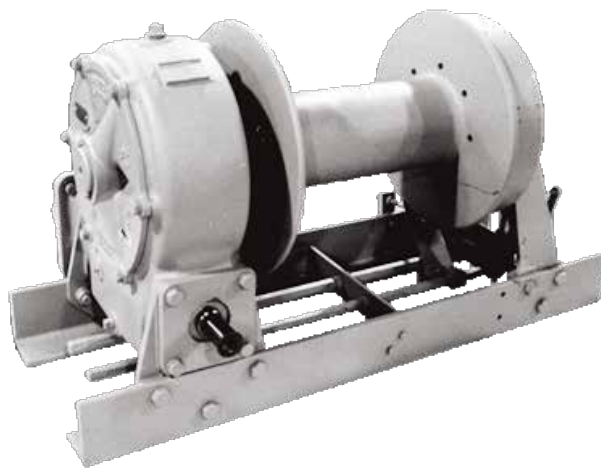


Table 1-56: AHS20P Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
04482BWN	Hydraulic Winch, Remote Band Brake	AHS20P-18B L LA	45,000 lbs. (20,410 kg)	LH	LH	18"	EA	1

Table 1-57: AHSU10 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	Weight	UOM	SPQ
03232BWN	Right Gear, Left Assembly - 25.8/ 12.9 Winch	AHSU10-12F	30,000 lbs (13,608 kg)	RH	LH	n/a	467 lbs (212 kg)	EA	1
03235BWN	Right Gear, Left Assembly - 25.8/ 12.9 Winch	AHSU10-12 FEB	30,000 lbs (13,608 kg)	RH	LH	n/a	564 lbs (256 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.

All images, information and data provided by Braden Winch Division.

Table 1-58: AMS10 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
02618BWN	Mechanical Winch, Remote Band Brake	AMS10-18B L RA	30,000 lbs (13,608 kg)	LH	RH	18"	EA	1

Table 1-59: AMS20 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
02536BWN	Mechanical Winch, Remote Band Brake	AMS20-18B L RA	45,000 lbs. (20,410 kg)	LH	RH	18"	EA	1
03769BWN	Mechanical Winch, Remote Band Brake - Yellow	AMS20-18B R LA	45,000 lbs. (20,410 kg)	RH	LH	18"	EA	1

BRADEN HS30P/ MS30 WINCH 60,000 LBS. (27,216 KG) FIRST LAYER LINE PULL

HS30P SINGLE SPEED GEAR MOTOR

- 9.03 cu in. (148 cc)
- 2,500 psi (172.5 bar) @ 75 gpm (284 lpm)
- Wire Rope Diameter: 1" for standard, 24mm for metric

Table 1-60: HS30P Single Speed Gear Motor

Layer	Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)
1	60,000	27,270	13	4.0
2	50,100	22,720	15	4.6
3	43,000	19,500	18	5.5
4	37,700	17,100	20	6.1
5	33,500	15,200	23	7.0
6	21,300	9,660	38	11.6

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

HS30P 2-SPEED MOTOR

- 4.9/2.4 cu in. (80/40 cc)
- 3000 psi (207 bar) @ 40 gpm (151 lpm)
- Wire Rope Diameter: 1" for standard, 24mm for metric

Table 1-61: HS30P 2-Speed Motor

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	60,000	27,000	10	3.0	23,100	10,400	21	6.3
2	49,000	22,100	12	3.6	18,900	8,500	26	7.8
3	41,500	18,700	14	4.2	16,000	7,200	31	9.3
4	36,000	16,200	16	4.8	13,900	6,300	25	7.5
5	31,700	14,380	18	5.5	12,200	5,530	40	12.2

Table 1-62: HS30P Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
06493BWN	Hydraulic Winch, Remote Band Brake	HS30P-20B L RA-9	60,000 lbs. (27,220 kg)	LH	RH	20"	EA	1

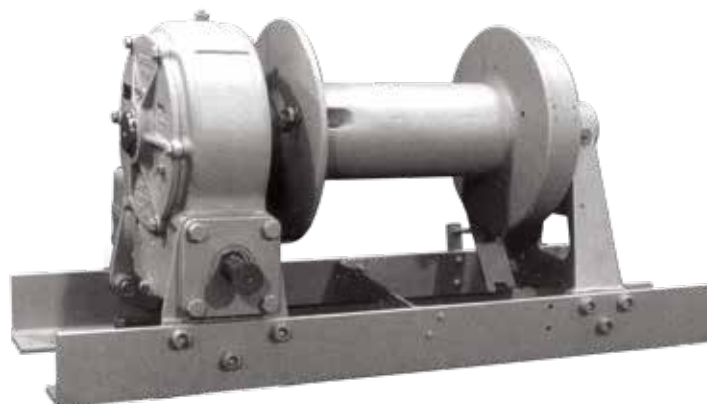


Table 1-63: MS30 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
04494BWN	Mechanical Winch, Remote Band Brake	MS30-20B L RA	60,000 lbs. (27,220 kg)	LH	RH	20"	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

BRADEN HS50P/ MS50 WINCH 100,000 LBS. (45,359 KG) FIRST LAYER LINE PULL

HS50P SINGLE SPEED GEAR MOTOR

- 12.03 cu in. (197 cc)
- 2,800 psi (193.2 bar) @ 80 gpm (300 lpm)
- Wire Rope Diameter: 1-1/8" for standard, 28mm for metric

Table 1-64: HS50P Single Speed Gear Motor

Layer	Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)
1	100,000	45,360	12	3.7
2	81,800	37,100	15	4.6
3	69,200	31,390	17	5.2
4	60,000	27,220	20	6.1

HS50P 2-SPEED MOTOR

- 12.75/6.4 cu in. (209/105 cc)
- 2,800 psi (193.2 bar) @ 85 gpm (320 lpm)
- Wire Rope Diameter: 1-1/8" for standard, 28mm for metric

Table 1-65: HS50P 2-Speed Motor

Layer	Low Speed				High Speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)	(lbs.)	(kg)	(fpm)	(mpm)
1	100,000	45,360	10	3.0	38,600	17,510	23	7.0
2	81,800	37,100	12	3.4	31,500	14,290	28	8.5
3	69,200	31,390	14	4.3	26,500	12,200	34	10.4
4	60,000	27,220	16	4.9	23,100	10,480	39	11.9
5	31,700	14,380	18	5.5	12,200	5,530	40	12.2

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

MECHANICAL DRIVE

- Wire Rope Diameter: 1-1/8" for standard, 28mm for metric

Table 1-66: Mechanical Drive

Layer	Line Pull		Line Speed	
	(lbs.)	(kg)	(fpm)	(mpm)
1	100,000	45,360	12	3.7
2	81,800	37,100	15	4.6
3	69,200	31,390	17	5.2
4	60,000	27,220	20	6.1

WIRE ROPE CAPACITY

- -01 Drum Capacity [feet]*
- (9.00"B x 20.00"F x 20.00"W)

Table 1-67: Wire Rope Capacity

Rope Size	1	2	3	4	5
7/8"	48	103	168	243	327
1"	42	94	155	226	307
1-1/8"	38	86	143	209	

- -01 Drum Capacity (meters)*
- (228mm B x 508mm F x 508mm W)

Table 1-68: Wire Rope Capacity

Rope Size	1	2	3	4	5
22mm	14	31	51	74	99
25mm	13	29	47	69	93
28mm	12	26	44	64	

* All capacities above based on 90% of theoretical Est. Weight: 1600 LBS. (726 KG)
Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

ENGINEERING DATA

- Worm Gear Ratio = 40:1

Table 1-69: Technical Information

Static Input Torque		Dynamic Input Torque		Max Input*
(lbs.-in)	(Nm)	(lbs.-in)	(Nm)	(rpm)
35,200	3,978	27,000	3,051	180

*AT Rated Load

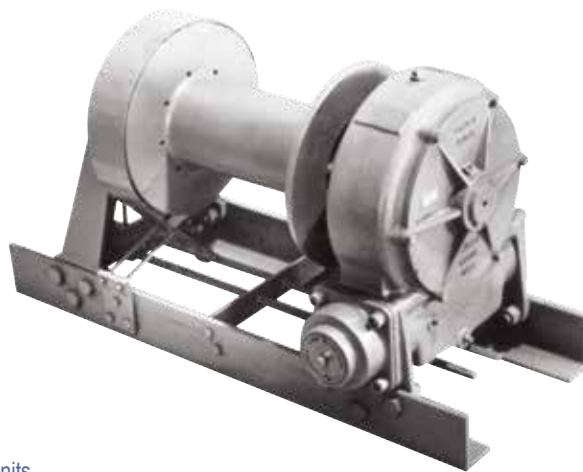


Table 1-70: HS50P Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
04472BWN	Hydraulic Winch, Remote Band Brake	HS50P-20B L RA 12, Single Speed	100,000 lbs. (45,360 kg)	LH	RH	20"	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

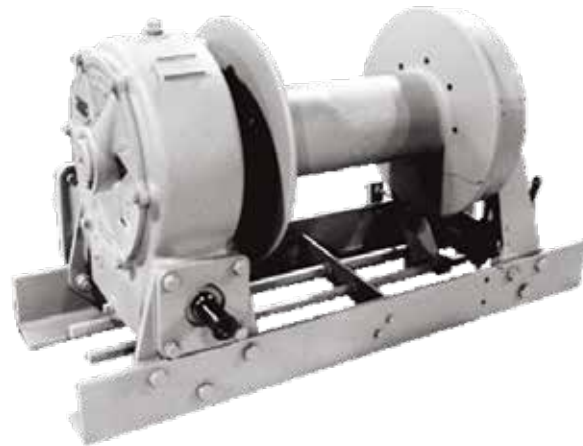


Table 1-71: MS50 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
03976BWN	Mechanical Winch, Remote Band Brake	MS50-20B L RA	100,000 lbs. (45,360 kg)	LH	RH	20"	EA	1

Table 1-72: W150 Worm Gear Recovery Units

Part No.	Description	Model	Rated Capacity	Gear Cut	Assembly	Drum Size	UOM	SPQ
02703BWN	Mechanical Winch, Remote Band Brake	W150 R RA	150,000 lbs. (67,950 kg)	RH	RH	24"	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

BUMPERS

COMPOSITE PD18D

Our newest Braden Composite Bumper offers all the key features demanded by today's fleet managers. This superior package combines the industry's most durable winch, the Braden PD18, with a stylish, functional, light-weight bumper.



PD18D-11 F

- 11.9 cu in. Motor (195cc)
- 2450 psi (169 bar) @ 30 gpm (113 lpm)
- Wire Rope Diameter: 5/8"

Table 1-73: PD18D-11 Bumper - Performance

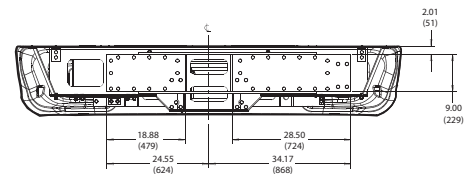
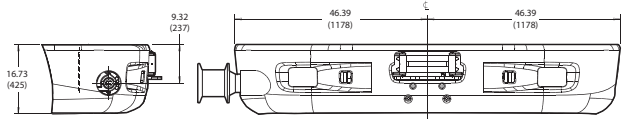
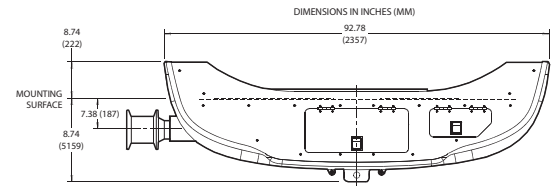
Layer	Line Pull		Line Speed		Rope Capacity	
	(lbs.)	(kg)	(fpm)	(mpm)	(ft.)	(m)
1	20,000	9,100	42	13	30	9
2	17,100	7,800	49	15	65	20
3	15,000	6,800	56	17	105	32
4	13,300	6,000	63	19	150	46
5	11,900	5,400	70	21	201	61

EXTENSION SHAFT RATING

Table 1-74: PD18D-11 Bumper - Ratings

7" CAPSTAN		20" C.R. REEL	
Line Pull (lbs.)	Line Speed (fpm)	Line Pull (lbs.)	Line Speed (fpm)
3,000	197	1,000	560

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.



Capstan sold separately

PD18D STANDARD FEATURES

20,000 lbs. first layer line pull.

- Designed for SAE J706 compliance
- Low-speed high-torque hydraulic motor
- Hydraulic brake valve for precision load control
- Jaw clutch with negative draft for positive clutch engagement
- Extension Shaft rotates at 4 times the cable drum speed

COMPOSITE BUMPER FEATURES

The bumper, winch, and mounting are optimally designed to provide the lowest weight and longest life in the industry.

- Light weight—100 to 150 lbs. lighter than standard steel bumper packages
- Corrosion resistant—the composite material is designed to endure all environments
- Improved style—designed to complement modern aerodynamic vehicle body styles

-11 DRUM CAPACITY

- (6.75" B x 13.00" F x 10.94"W)

Table 1-75: PD18D-11 Bumper - Capacity

	PD/d	1	2	3	4	5	6
1/2"	14.5:1	37	79	126	178	235	298
9/16"	13.0:1	33	71	114	162	216	
5/8"	11.8:1	30	65	105	150	201	

* Rope capacity based on 90% of theoretical

UTILITY PRODUCTS - WINCH BUMPERS



Table 1-76: AHGU5 Bumpers

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05517BWN	Right Gear, Left Assembly - 25.8/12.9 Winch Bumper	AHGU5-12 FEEB	20,000 lbs. (9,072 kg)	450 lbs (204 kg)	EA	1

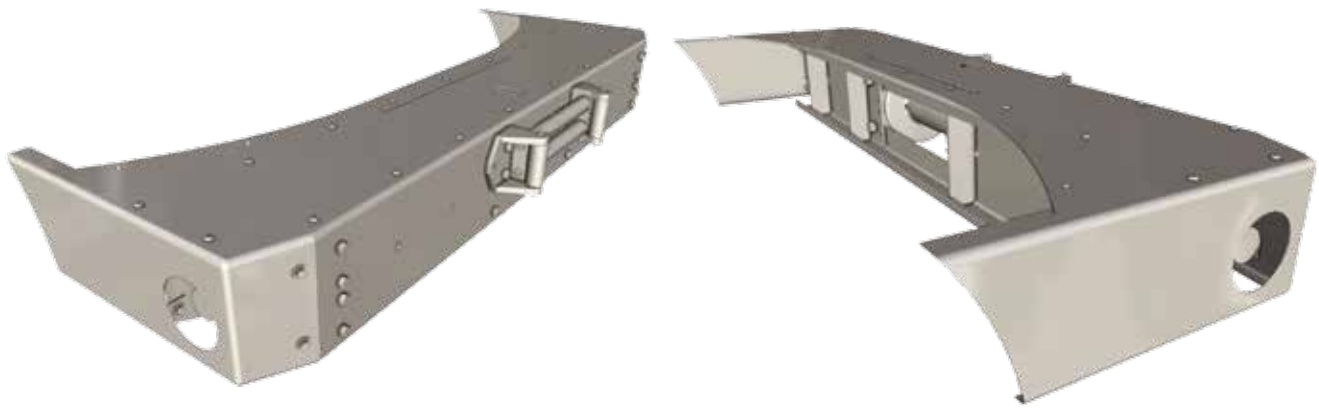


Table 1-77: HU12A Bumpers

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
04739BWN	Left Assembly Winch Bumper - 77"	HUP12A- 08119-01EB	12,000 lbs. (5,443 kg)	415 lbs (188 kg)	EA	1
04740BWN	Bumper, 2-speed Motor, Extension Shaft, LH Assembly	HUP12A-08142/ 071-01EB	12,000 lbs. (5,443 kg)	495 lbs (225 kg)	EA	1
05263BWN	Bumper, 2-speed Motor, Extension Shaft, RH Assembly (for Street-side Capstan Shaft)	HUP12A-08142/ 071-01EB	12,000 lbs. (5,443 kg)	495 lbs (225 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

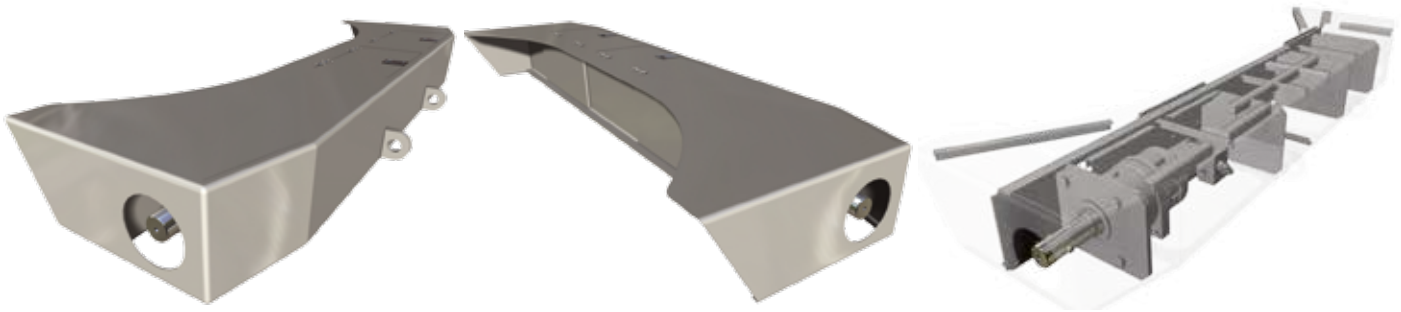
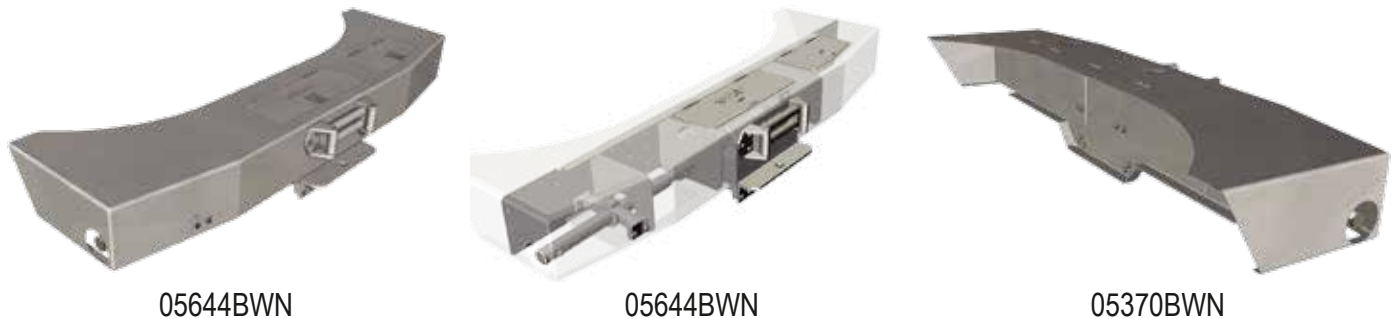


Table 1-78: PCD24B Bumpers with Capstan-Only Drive

Part No.	Description	Model	Capacity	UOM	SPQ
05614BWN	Galvanized Profile Bumper, with 03632 Capstan Drive	PCD24B-08080-1	4,000 lbs (1815 kg)	EA	1
05459BWN	Profile Bumper, with 03632 Capstan Drive, Dual Toolboxes	PCD24B-08080-1	4,000 lbs (1815 kg)	EA	1
06455BWN	Profile Bumper, with 03616 Capstan Drive, Dual Toolboxes	PCD24B-08119-1H	5,500 lbs (2495 kg)	EA	1
06141BWN	Profile Bumper, with 03616 Capstan Drive, Dual Toolboxes	PCD24B-08119-1	6,000 lbs (2720 kg)	EA	1



05644BWN

05644BWN

05370BWN

Table 1-79: PD18C Bumpers with Recovery Unit

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
06033BWN	Planetary Recovery Winch, Profile Bumper, 9.6 cu in Motor, 4-way Roller, Dual Acting Brake, Extension Shaft, Toolbox	PD18C-11DB FEB	16,000 lbs. (7,260 kg)	680 lbs (308 kg)	EA	1
05370BWN	Planetary Recovery Winch, Profile Bumper, 4-way Roller, Dual Acting Brake, Extension Shaft, Toolbox	PD18C-11DB FEB	20,000 lbs. (9,072 kg)	680 lbs (308 kg)	EA	1
05644BWN	Planetary Recovery Winch, Profile Bumper, Dual-acting Brake, Toolbox	PD18C-11DB	20,000 lbs. (9,072 kg)	650 lbs (295 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
05439BWN	Planetary Recovery Winch, Steel Bumper, 4-way Roller, Dual Acting Brake, Extension Shaft, Toolbox, Coneholder	PD18C-11DB FEB SPL	20,000 lbs. (9,072 kg)	716 lbs (325 kg)	EA	1



Table 1-80: PD35A Bumpers

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
06018BWN	Bumper, Dual Toolboxes, Extension Shaft	PD35A-35119- 01EB	35,000 lbs. (15,909 kg)	965 lbs (438 kg)	EA	1



06052BWN

06052BWN

06418BWN

Table 1-81: PD18D Bumpers

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
06052BWN	Composite Bumper, 4-way Roller, Dual Acting Brake, Extension Shaft, Profile Toolbox	PD18D-11DB FEB	20,000 lbs. (9,072 kg)	529 lbs (240 kg)	EA	1
06418BWN	Wide-mount Composite Bumper, 4-way Roller, Dual Acting Brake, Extension Shaft, Profile Toolbox	PD18D-11DB FEB	20,000 lbs. (9,072 kg)	556 lbs (252 kg)	EA	1

Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.

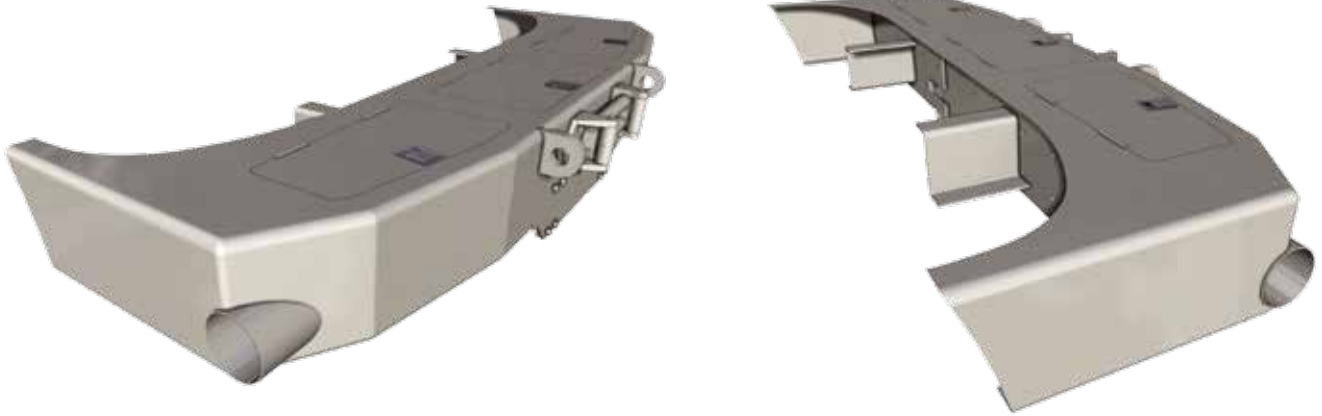


Table 1-82: PD35A Bumpers with Recovery Unit

Part No.	Description	Model	Rated Capacity	Weight	UOM	SPQ
06271BWN	Planetary Recovery Winch, Bumper, 11.9 cu in Motor, 30 gpm, Dual Toolboxes	PD35A-35119-01	35,000 lbs. (15,909 kg)	924 lbs (419 kg)	EA	1

*Check specific Braden Winch material list to verify correct part number.
All images, information and data provided by Braden Winch Division.*

WINCH PARTS

AIR SYSTEMS

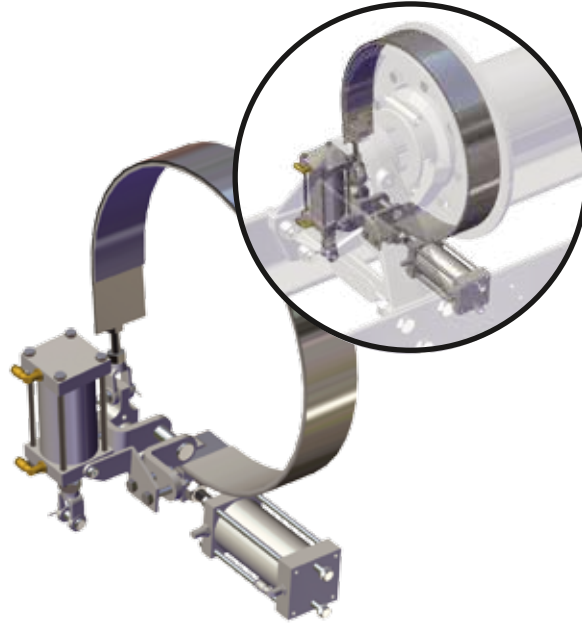


Table 1-83: Air Kits

Part No.	Description	Winch Model	UOM	SPQ	Note
64308BWN	APSCO Air Kit	HP50/ HP75	EA	1	APSCO Brake Controller Air Kit HP50/ HP75

* Brake band sold separately.



Table 1-84: Load Monitor

Part No.	Description	UOM	SPQ	Note
64606BWN	Load Monitor	EA	1	Fits all HP Models

All images, information and data provided by Braden Winch Division.

BRAKES



25541BWN



100027BWN

Table 1-85: Brake Discs

Part No.	Description	Winch Model	UOM	SPQ	Note	Additional Comments
21029BWN	Brake Disc (850200)	PCD24B/ HU-P12A/ PD18B	EA	1	Metal discs used between friction discs in braking system	8 Required - use with Friction Disc No. 21036
100027BWN	Brake Disc	HP50B/ HP35A/ PD35A/ HUP30B/ PD18C/ BG8B/ PD12C/ PD15B	EA	1	Internal Brake Components HP35/ HP50; Metal discs used between friction discs in braking system	8 Required - use with Friction Disc No. 21036BWN
101183BWN	Brake Disc	GD15A	EA	1	Metal discs used between friction discs in braking system	
102314BWN	Brake Disc	BG6B/ BG4B/ SD40A/ SD40B/ SD40C/ BG3B	EA	1	Brake Disc (9 required) - use with 25541 Friction Disc	
102954BWN	Brake Disc	HP125A/ HP125B/ HP100A/ HP80A/ HP65A/ HP100B/ PD12A	EA	1	Internal Brake Components HP65/ HP80/ HP100/ HP125/ HP130	11 Required - use with Friction Disc No. 103167
103592BWN	Brake Disc	HP75	EA	1	Internal Brake Components HP75	10 Required - Serial No. 0773217 and up, use with Friction Disc No. 25530
24490BWN	Brake Disc	HP160A/ BP200B/ HP75A	EA	1	Internal Brake Components HP75	10 Required - Serial No. 0773216 and earlier

All images, information and data provided by Braden Winch Division.

Part No.	Description	Winch Model	UOM	SPQ	Note	Additional Comments
11979BWN	Brake Disc	AMSU12/ AMSU10/ AHSU10/ AHS10/ AMS10/ AMGU5/ AMS7/ AHS7	EA	1	Brake Disc (2 Required)	
25540BWN	Brake Disc	WR30	EA	1	Brake Disc SEP PLT 12/24DP 48T 2.94ID	
28785BWN	Steel Brake Disc	WR30	EA	1	Disc, Steel Brake	
29749BWN	Friction Disc	AMS20/ AHS20/ HS50/ HS30	EA	1	Friction disc for oil cooled safety brake	2 Required
64584BWN	Lobed Friction Disc - Mid-1996 and Later	PD12C/ PD15B	EA	1	Friction disc used in hydraulic winch braking system of common hoists	Mid-1996 and later, Lobed Friction Disc
64585BWN	Splined Disc - 1986 through Mid-1996	PD12C/ PD15B	EA	1	Older version of brake discs for PD12C/15B. Used before 1997	1986 through Mid-1996, Splined Disc
21036BWN	Friction Disc	HP35/ HP50B/ PD18B/ BG8B/ PD12C/ PD15B/ H35R/ HUP12A	EA	1	Friction disc used in hydraulic planetary winch braking system	7 Required - use with Brake Disc No. 21029 or 100027
25530BWN	Friction Disc	HP75A/ BP200B/ HUP30A	EA	1	Internal Brake Components HP75	7 Required - use with Brake Disc No. 24490 or 103592
103167BWN	Friction Disc	HP125B/ HP65A/ HP80A/ HP100B	EA	1	Internal Brake Components HP65/ HP80/ HP100/ HP125/ HP130	6 Required - use with Brake Disc No. 102954
24967BWN	Friction Disc	UT15A	EA	1		
25541BWN	Friction Disc	WR30/ BG6B/ BG4B/ BG3B/ SD40A	EA	1	Friction Disc (8 Required) -use with 102314 Brake Disc	
11426BWN	Friction Disc (MU7-148-7)	ALGU2/ AHGU2/ AHU7/ UT12B/ UT12C/ AMU7/ BR30B	EA	1	Friction Disc (MU7-148-7)	

All images, information and data provided by Braden Winch Division.



27321BWN



24289BWN

Table 1-86: Drag Brake Discs

Part No.	Description	Winch Model	UOM	SPQ	Note
24289BWN	Drag Brake Disc	HU8A/ MU8A/ H2R	EA	1	Holds metering spring in Braden brake valve
27321BWN	Drag Brake Disc	PD18C/ PD18B/ HP35A/ PD35A/ HUP12A	EA	1	Drag Brake Disc (1 Required)
63605BWN	Drag Brake Group	H35R	EA	1	Drag Brake Group

Table 1-87: Drag Brake Springs

Part No.	Description	Winch Model	UOM	SPQ	Note
24287BWN	Drag Brake Spring	HU8A/ MU8A	EA	1	Holds metering spring in Braden brake valve

All images, information and data provided by Braden Winch Division.



83196BWN

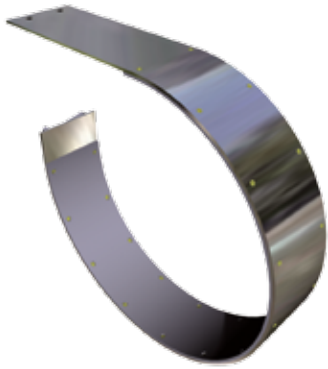


24423BWN

Table 1-88: Brake Cylinders

Part No.	Description	Winch Model	UOM	SPQ	Note
24183BWN	Retainer for Metering Spring in Braden Brake Valve	Braden Brake Valves	EA	1	Holds metering spring in Braden brake valve
24423BWN	Check Valve Poppet	Braden Brake Valves	EA	1	Provides easy flow-through of brake valve for hoisting/ reel in
25351BWN	Brake Valve Assembly, non-Braden	Multiple Hoists	EA	1	Brake valve used in some models, not designed by Braden
27258BWN	Counterbalance Valve (used in winches without Braden Brake Valve)	PD18C, etc.	EA	1	Used to control braking action in winches without Braden Brake Valve
83196BWN	Brake Cylinder Assembly	PD18C	EA	1	Brake cylinder which actuates hydraulically released braking system
26330BWN	Brake Cylinder (Actuates Braking System)	HP12A/ PCD24B	EA	1	Brake cylinder which actuates hydraulically released braking system

All images, information and data provided by Braden Winch Division.



84274BWN



84253BWN

Table 1-89: Brake Band Assemblies

Part No.	Description	Winch Model	UOM	SPQ
84274BWN	Brake Band Assembly	HP100	EA	1
84253BWN	Brake Band Assembly	HP80	EA	1
84282BWN	Brake Band Assembly	HS30/ AMS20/ AHS20/ MS30/ HP70	EA	1
84280BWN	Brake Band Assembly	HP65	EA	1
83216BWN	Brake Band Assembly	HP100/ HP125/ HP130	EA	1
84283BWN	Brake Band Assembly	HP50/ HP75	EA	1
84113BWN	Brake Band Assembly	HP75	EA	1

Table 1-90: Brake Lining

Part No.	Description	Winch Model	UOM	SPQ
103897BWN	Brake Lining	AMS10/ AMU7/ AHU7/ AHS10	EA	1

All images, information and data provided by Braden Winch Division.



25637BWN



25550BWN

Table 1-91: Brake Plates

Part No.	Description	Winch Model	UOM	SPQ	Note
25550BWN	Brake Plate Spacer	BG6B/ BG4B/ BG3B/ SD40C	EA	1	
22778BWN	MS50-553 - Safety Brake Pressure Plate	AMS20/ AHS20/ HS50/ MS20/ MS30	EA	1	Part of Oil cooled safety brake for Worm Gear winches
25637BWN	Brake Spacer	Various hydraulic winches/ hoists	EA	1	Part of braking system



Table 1-92: Brake Valve Assemblies

Part No.	Description	Winch Model	UOM	SPQ
81984BWN	Brake Valve Assembly - 1.25-61	HP65/ HP80/ HP100	EA	1

All images, information and data provided by Braden Winch Division.



Table 1-93: Brake Hardware

Part No.	Description	Winch Model	UOM	SPQ	Note
11051BWN	B4-130 - Brake Band Pin	AMS7/ AMS10/ AHS10	EA	1	
103578BWN	Brake Plate Spacer	SD40B/ SD40C	EA	1	
24892BWN	Brake Spacer	PD12C/ BG8B	EA	1	
24108BWN	Brake Spring	HP125B/ HP130A/ HP100A/ HP80A/ HP100B/ HP65A	EA	1	Internal Brake Components HP65/ HP80/ HP100/ HP125/ HP130
24916BWN	Brake Spring Ratio 67:1	BG6B	EA	1	
11570BWN	Brake Pad Link	HP50B/ HP75A/ HS30P/ AHS20P/ MS30/ AMS20	EA	1	
18018BWN	Brake Shoe Link (MU- 131L)	AHS3/ AMS3/ AMSU10/ AHSU10/ AMGU5/ AHGU5/ HUP30B/ PD33A	EA	1	
11569BWN	Brake Band Pin (M30- 130)	HP50B/ HP75A/ HS30P/ AH- S20P/ MS30/ HP70A/ AMS20	EA	1	
12773BWN	Pin-Brake Band	HS50P/ HP130A/ HP125B/ HP100A/ HS50P/ MS50	EA	1	
76488BWN	Brake Plug	GR25	EA	1	
12592BWN	Retainer-Brake Roller	UT15A	EA	1	
18002BWN	Brake Spring	AHS3/ AMS3/ AMSU10/ AHSU10/ HUP30/ AMS7/ AHS10/ AHS7/ AMGU5/ AHGU5/ AHGU5/ ALU2/ AHLU2/ AMS10/ AMSU12/ AHU7/ PD33A/ LGU2	EA	1	
27384BWN	Brake Activation Die Spring	Numerous hydraulic hoists	EA	1	Springs to compress braking system
71017BWN	Dowel Bolt for Brake System (A11041)	GH30	EA	1	Part of braking system

All images, information and data provided by Braden Winch Division.

DRIVETRAIN

Table 1-94: Clutch Control Kits

Part No.	Description	Winch Model	UOM	SPQ	Note
11474BWN	Shifter Fork (M12-143)	AMS7/ AMS10/ AHS7/ AHS10	EA	1	Shift fork to connect drum clutch
11656BWN	Shifter Fork Bracket (M50-143A)	Various recovery winches	EA	1	Used in shift fork to connect drum clutch
24882BWN	Clevis for Ratchet and Pawl Assembly	Ratchet and Paul System	EA	1	Clevis for Ratchet and Pawl assembly
75478BWN	Compression Spring Control Valve Assembly	GH30/ GH50/ G2H30/ G2H50	EA	1	Used in control valve assembly

Table 1-95: Clutch Assemblies

Part No.	Description	Winch Model	UOM	SPQ	Note
83148BWN	Overrunning Clutch Assembly	HP125/ HP130	EA	1	
82908BWN	Overrunning Clutch Assembly - C Shaft	HP65/ HP80/ HP100	EA	1	
11259BWN	Clutch Plate for Negative DraFT. Clutch - (MS50-137)	MS50/ HS50/ HP100A/ HP125B	EA	1	Clutch plate which connects drum to negative draft clutch

Table 1-96: Sprag Clutch Assemblies

Part No.	Description	Winch Model	UOM	SPQ	Note
81644BWN	Sprag Clutch Assembly	HP75/ BP200	EA	1	
81716BWN	Sprag Clutch Assembly - C SPL Shaft	HP35/ 50	EA	1	One way clutch allowing hoisting and braking action
11592BWN	Shifter Fork for Sprag Clutch (M5-143S)	AMS7/ AMS10/ AHS7/ AHS10	EA	1	Provides tension on Shifter fork to disengage drum
24862BWN	Sprag Clutch Bearing Retainer	Various hydraulic winches/ hoists	EA	1	Installs in sprag clutch (brake clutch) to retain bearings
27193BWN	Sliding Clutch - Connects, Disconnects Drum	HUP12A	EA	1	Sliding clutch assembly to connect/disconnect drum
72591BWN	Sprag Clutch Assembly (51729)	GH30	EA	1	One way clutch allowing hoisting and braking action

All images, information and data provided by Braden Winch Division.

Part No.	Description	Winch Model	UOM	SPQ	Note
75807BWN	One Way Sprag Clutch	GH5/ PD5	EA	1	One way clutch allowing hoisting and braking action
81663BWN	Cylinder for Ratchet and Pawl Assembly	Ratchet and Paul System	EA	1	Cylinder for Ratchet and Pawl assembly
81774BWN	Sprag Clutch Assembly - One-Way Clutch for B SPL Shaft	PD12C/ PD15B	EA	1	One way clutch allowing hoisting and braking action

Table 1-97: Bearing Kits

Part No.	Description	Winch Model	UOM	SPQ	Note
64583BWN	Bearing Kit	BG4B	EA	1	Replacement bearing kit for common hoists
64582BWN	Brake Disc Pack	BG4B	EA	1	Includes all parts need to overhaul braking system
64581BWN	Bearing Kit for 29:1-67:1 Ratios	BG6A/ B	EA	1	Replacement bearing kit for common hoists
64578BWN	Lobed Brake Kit for 67:1 Ratio	BG6B	EA	1	Includes all parts need to overhaul braking system
64572BWN	Bearing Kit - Equal Speed	BG6B	EA	1	Replacement bearing kit for common hoists
64571BWN	Equal Speed Brake Kit, Lobed Discs	BG8B	EA	1	Brake disc plate used in hydraulic winch braking system
64577BWN	Lobed Brake Kit for 29:1 Ratio	BG6B	EA	1	Includes all parts need to overhaul braking system
64586BWN	Lobed Bearing Kit - 1996 and Later	PD12C/ PD15B	EA	1	Replacement bearing kit for common hoists

All images, information and data provided by Braden Winch Division.



74780BWN



26705BWN

Table 1-98: Winch Housing

Part No.	Description	Winch Model	UOM	SPQ	Note
71978BWN	HONDU (50107)	GH30/ GH50/ G2H30/ G2H50	EA	1	Attaches wire rope to drum
71979BWN	HONDU (50123)	GH50/ G2H50	EA	1	Attaches wire rope to drum
74780BWN	HONDU (58150)	BG8B	EA	1	Attaches wire rope to drum
23665BWN	Base Angle Front 47-1/2" Long	AMS20/ AHS20	EA	1	Base angle for worm gear winch
23666BWN	Base Angle Rear 47-1/2" Long	AMS20/ AHS20	EA	1	Base angle for worm gear winch
24494BWN	Cable Wedge (3/4"-1 CH230)	CH Series hoist	EA	1	Attaches wire rope to drum
61906BWN	Drum Bushing Kit	PD12A/ PD12B	EA	1	Drum bushings for older hoists
12961BWN	Wire Rope Drum Bushing for Worm Gear Winch (M30-135B)	HP50B	EA	1	
18020BWN	Shear Pin Key (MU-141A)	HP35/ PD35A	EA	1	
18062BWN	Relief Valve 7.5-15 PSI	Numerous winches/ hoists	EA	1	Used to allow trapped gasses to escape winch housing
26705BWN	Sight Gauge	Various winches/ hoists	EA	1	Allows quick visual check of winch/ hoist lubricant level
23664BWN	Worm Gear Hardened Shear Key	AMS20/ AHS20	EA	1	Hardened shear pin in worm gear winch assembly

All images, information and data provided by Braden Winch Division.

HARDWARE



Table 1-99: O-Rings

Part No.	Description	Winch Model	UOM	SPQ	Note
13838BWN	O-Ring	HP50/ HP75	EA	1	See Note (a)
22357BWN	O-Ring	HP65/ HP80/ HP100	EA	1	See Note (a)
72112BWN	O-Ring	HP65/ HP80/ HP100	EA	1	See Note (a)
72801BWN	O-Ring	HP65/ HP80	EA	1	See Note (a)
10330BWN	O-Ring	HP80	EA	1	See Note (a)

Note (a): Parts will be part of a seal kit in the future

Table 1-100: O-Ring Kits

Part No.	Description	Winch Model	UOM	SPQ	Note
61567BWN	O-Ring Kit - F/ 81586 & 81984	HP50/ HP65/ HP75/ HP80/ HP100/ HP125	EA	1	O-Ring kit for HV80A Braden Brake Valve

NOTES: Parts will be part of a seal kit in the future
All images, information and data provided by Braden Winch Division.



Table 1-101: Seals

Part No.	Description	Winch Model	UOM	SPQ	Note
103441BWN	U-Cup Seal	HP65/ HP80/ HP100	EA	1	See Note (a)
108523BWN	Lip Seal	HP100	EA	1	See Note (a)
109486BWN	Lip Seal	HP65/ HP80/ HP100	EA	1	See Note (a)
109487BWN	Lip Seal	HP65/ HP80	EA	1	See Note (a)
72363BWN	Ring Seal (50942)	GH50/ G2H50	EA	1	
103062BWN	Lip Seal - 4.25" x 5.25" x 0.50"	HP125B	EA	1	
26256BWN	Quad Ring Seal for Motor	Numerous worm gear winches	EA	1	Provides seal for motor
71985BWN	Ring Seal (50132)	GH50/ G2H50	EA	1	
72056BWN	Seal Retainer (50234)	GH50/ G2H50	EA	1	
11593BWN	Bearing Container Gasket (M5-148G)	Numerous worm gear winches	EA	1	Gasket for Bearing container
11594BWN	Bearing Container Gasket (M5-149G)	Numerous worm gear winches	EA	1	Gasket for Bearing container
21640BWN	MU7-450G - Worm Gear Gasket	Numerous worm gear winches	EA	1	Gasket for worm gear

Note (a): Parts will be part of a seal kit in the future

Table 1-102: Seal Kits

Part No.	Description	Winch Model	UOM	SPQ	Note
62832BWN	Seal Kit	AMS20/ AHS20	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64409BWN	Seal Kit	HP125B	EA	1	
64407BWN	Seal Kit	HP50B	EA	1	
64408BWN	Seal Kit	HP75A/ HP125	EA	1	

NOTES: Parts will be part of a seal kit in the future

All images, information and data provided by Braden Winch Division.

Part No.	Description	Winch Model	UOM	SPQ	Note
62671BWN	Seal Kit - H20R (except motor and brake valve seals)	H20R	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62828BWN	Seal Kit - AHU7 (except motor and brake valve seals)	AHU7	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62830BWN	Seal Kit - AHGU5 (except motor and brake valve seals)	AHGU5	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62831BWN	Seal Kit - MSU12, AMSU12 (except motor and brake valve seals)	MSU12/ AMSU12	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64625BWN	Seal Kit - PD35A (except motor and brake valve seals)	PD35A	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62833BWN	Seal Kit - AHS10, AHSU10 (except motor and brake valve seals)	AHS10/ AHSU10/ AMS	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64741BWN	Seal Kit - for Speed Hydraulic Gear Motors	2-Speed Commercial Motor	EA	1	Seal kit used in 2 speed hydraulic gear motors
62836BWN	Seal Kit - AHS3, AHSU3 (except motor and brake valve seals)	AHS3/ AHSU3	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62841BWN	Seal Kit - (except motor and brake valve seals) for MU7/ AMU7 AFT.ER S/N 5611498	MU7/ AMU7	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62844BWN	Seal & Shim Kit - MS30/ HS30 (except motor and brake valve seals)	MS30/ HS20	EA	1	Includes all seals and shims except for motor and brake valve seals
62846BWN	Seal Kit - MS50/ HS50 (except motor and brake valve seals)	MS50/ HS50	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62847BWN	Seal Kit - AHLU2 (except motor and brake valve seals)	AHLU2	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
62848BWN	Seal Kit - AC12/ ALU2/ LGU2/ ALGU2 (except motor and brake valve seals)	AC12/ ALU2/ LGU2/ ALGU2	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
63081BWN	Seal Kit - PCD24B / HUP12 (except motor and brake valve seals)	PCD24B/ HUP12	EA	1	Includes all seals and gaskets, except for motor and brake valve seals

NOTES: Parts will be part of a seal kit in the future
All images, information and data provided by Braden Winch Division.

Part No.	Description	Winch Model	UOM	SPQ	Note
63534BWN	Seal Kit - HP125 - 04581 (except motor and brake valve seals)	HP125	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
63674BWN	Seal Kit - BG8B - Equal Speed (except motor and brake valve seals)	BG8B	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
63982BWN	Seal Kit - BG3B (except motor and brake valve seals)	BG3B	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64069BWN	Seal Kit	Hydraulic gear motors	EA	1	Seal kit used in various hydraulic gear motors
64070BWN	Seal Kit	Hydraulic gear motors	EA	1	Seal kit used in various hydraulic gear motors
64097BWN	Seal Kit - non-Braden brake valves	BG4	EA	1	Seal kit for non-Braden brake valves
64231BWN	Seal Kit - GH30B-ES/ GH30B-HSR (except motor and brake valve seals)	GH30B-ES/ GH30B-HSR	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64234BWN	Seal Kit - BA3A/ BA5A (except motor and brake valve seals)	BA2A/ BA3A/ BA5A	EA	1	Includes all seals and gaskets, except for motor and brake valve seals
64353BWN	Seal Kit - Specific to Motors Used in GH30B	GH30B Hydraulic Motor	EA	1	Seal kit specific to motors used in GH30B



Table 1-103: Springs

Part No.	Description	Winch Model	UOM	SPQ	Note	Additional Comments
25644BWN	Die Spring	HP35/ 50	EA	1	Internal Brake Components HP35/ HP50	Springs to compress braking system
25723BWN	Die Spring	HP75	EA	1	Internal Brake Components HP75	

NOTES: Parts will be part of a seal kit in the future
All images, information and data provided by Braden Winch Division.



Table 1-104: Washers

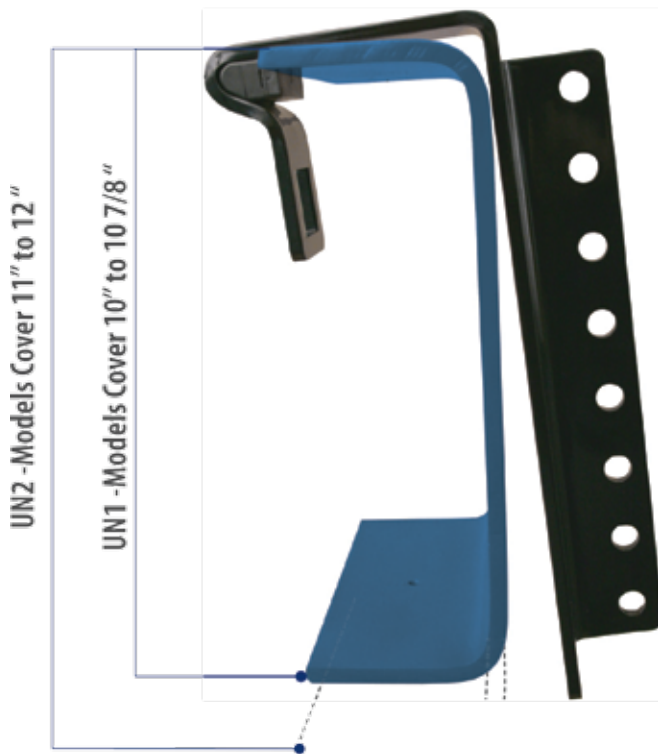
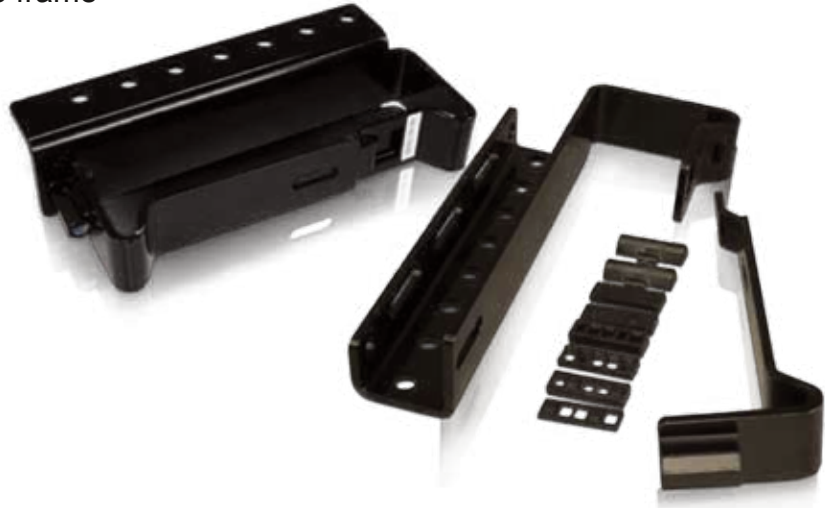
Part No.	Description	Winch Model	UOM	SPQ	Note	Additional Comments
77278BWN	Back-Up Washer (58933)	HP65/ HP80/ HP100	EA	1		See Note

*NOTES: Parts will be part of a seal kit in the future
All images, information and data provided by Braden Winch Division.*



CHASSIS GRABBERS

- Chassis Grabber™ Mounting System
- Mount any type of equipment on a truck frame without drilling holes in the frame
- Reduces installation labor
- Eliminates drilling the truck frame so there is no risk of damaging air lines, wire harnesses or surrounding equipment or drilling-related injuries
- Fully adjustable - move to different locations on frame, as well as up and down



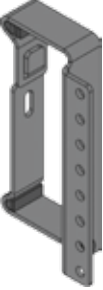


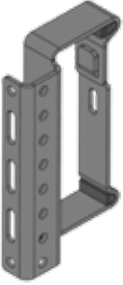
Urethane Inserts

Truck Frame

Sample: CG-100311

DRILL-LESS MOUNTING BRACKETS

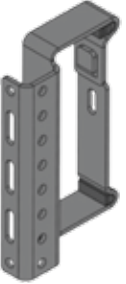


Table 1-105: Single Chassis Grabber Brackets

Product	Part No.	Description	UOM	SPQ
	CG100311	Chassis Grabber - Perpendicular, UN1 - Left.	EA	1
	CG100312	Chassis Grabber - Perpendicular, UN1 - Right	EA	1
	CG100315	Chassis Grabber - Parallel, UN1 - Left.	EA	1
	CG100316	Chassis Grabber - Parallel, UN1 - Right	EA	1

All images, information and data provided by Dynaflex Products.

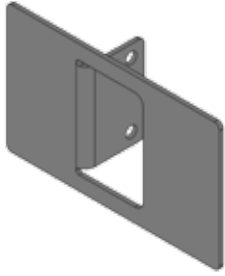


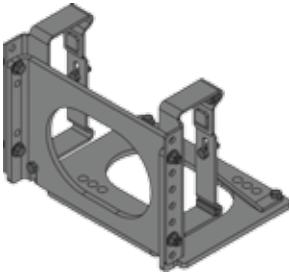
Product	Part No.	Description	UOM	SPQ
	CG100372	Chassis Grabber - Heavy Duty Parallel, UN1 - Left.	EA	1
	CG100373	Chassis Grabber - Heavy Duty Parallel, UN1 - Right	EA	1
	CG100345	Chassis Grabber - Perpendicular, UN2 - Left.	EA	1
	CG100346	Chassis Grabber - Perpendicular, UN2 - Right	EA	1

All images, information and data provided by Dynaflex Products.

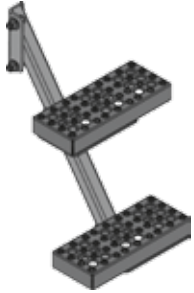
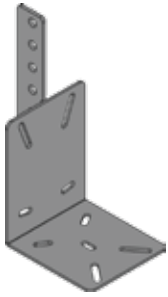

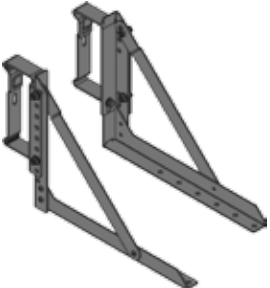
Product	Part No.	Description	UOM	SPQ
	CG100347	Chassis Grabber - Parallel, UN2 - Left.	EA	1
	CG100348	Chassis Grabber - Parallel, UN2 - Right	EA	1
	CG100376	Chassis Grabber - Heavy Duty Parallel, UN2 - Left.	EA	1
	CG100377	Chassis Grabber - Heavy Duty Parallel, UN1 - Right	EA	1

All images, information and data provided by Dynaflex Products.

Table 1-106: Optional Mounting Accessories without Chassis Grabber



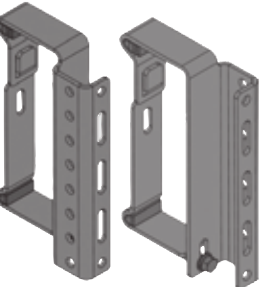

Product	Part No.	Description	UOM	SPQ
	CG100266	Bracket, Vertical Mount	EA	1
	CG100267	Bracket, Horizontal Mount	EA	1
	CG100277	Bracket Kit - 90°, Universal Pair	KT	1
	CG100265	Blower Mount Kit, T5CDL9/12/13	KT	1

All images, information and data provided by Dynaflex Products.





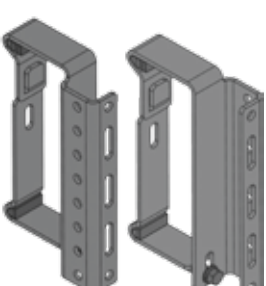
Product	Part No.	Description	UOM	SPQ
	CG100320	Pedestal Step	EA	1
	CG100330	Fire Extinguisher Support Bracket	EA	1
	CG100285	Toolbox Mount Bracket - 18 inch	EA	1
	CG100269	Toolbox Mount Bracket - 24 inch	EA	1

All images, information and data provided by Dynaflex Products.

Table 1-107: Optional Mounting Kits with Chassis Grabber

Product	Part No.	Description	UOM	SPQ
	CG100342	Fire Extinguisher with Chassis Grabber Kit: Perpendicular, UN1 - Left.	KT	1
	CG100343	Hydraulic Cooler/ Chain Holder with pair, Parallel Kit, UN1	KT	1
	CG100366	Hydraulic Cooler/ Chain Holder with pair, Parallel Kit, UN2	KT	1
	CG100311-100312	Chassis Grabber Kit: Perpendicular, UN1 - Left. & Right	KT	1

All images, information and data provided by Dynaflex Products.

Product	Part No.	Description	UOM	SPQ
	CG100315-100316	Chassis Grabber Kit: Parallel, UN1 - Left. & Right	KT	1
	CG100372-100373	Chassis Grabber Kit: Heavy Duty Parallel, UN1 - Left. & Right	KT	1
	CG100345-100346	Chassis Grabber Kit: Perpendicular, UN2 - Left. & Right	KT	1
	CG100376-100377	Chassis Grabber Kit: Parallel, UN2 - Left. & Right	KT	1
	CG100347-100348	Chassis Grabber Kit: Heavy Duty Parallel, UN2 - Left. & Right	KT	1

All images, information and data provided by Dynaflex Products.

PTO's

Bezares is a Spanish company that has been an OE supplier of Auxiliary Power Solutions for over 60 years. PACCAR Parts offers a full-line of Power Take Offs in 6, 8, 10 Bolt Configurations from Bezares.

These PTO's offer a complete range of input & output options, gear ratios and shifter styles.

The Bezares PTO features heavier castings, cast iron flanges with HD Viton seals and they are compatible with all transmission makes.

1000/ 2000 SERIES

Bezares' 1000 and 2000 series PTO's have been engineered to work with the most common transmissions. Offered in a wide range of input gear, ratio, output and shifter options, these all cast iron PTO's include large 12mm flange bolts, which support some of the larger pumps in the market. Both of these models are also available in a deep mount 1010 and 2010 series.

PTO's TORQUE RATIO TABLE

Table 1-108: PTO's Torque Ratio's

PTO Series	Intermittent service		Continuous Service		Internal Ratio (Options)	Weight (lbs.)
	Max Torque (lbs./ ft.)	Max Power (HP) 1000 rpm	Max Torque (lbs./ ft.)	Max Power (HP) 1000 rpm		
1000	250	49	178	35	8	32
2000	250	49	178	35	8	34
116003	309	59	221	42	n/a	32
3100	400	76	320	61	7	54
3150	400	76	320	61	7	32
3250	400	25	178	35	5	40
3200	350	25	178	35	5	40
4100	470	90	340	65	3	37
4200	420	80	300	57	8	75
6000	210	30	150	30	2	32
8000	500	95	340	65	2	70
8500	525	100	400	76	8	60



Table 1-109: Side Mount PTOs

Part No.	Description	UOM	SPQ
1000XBN011SE	Side Mount, 6-Bolt Air Shift, 1-1/4" Keyed Shaft - B Ratio 1:0.55	EA	1
1000XEN011RA	Side Mount, 6-Bolt Air Shift, "B" Pump Mount 13T- E Ratio 1:0.8	EA	1
1000XBN011RA	Side Mount, 6-Bolt Air Shift, "B" Pump Mount- B Ratio 1:0.55	EA	1

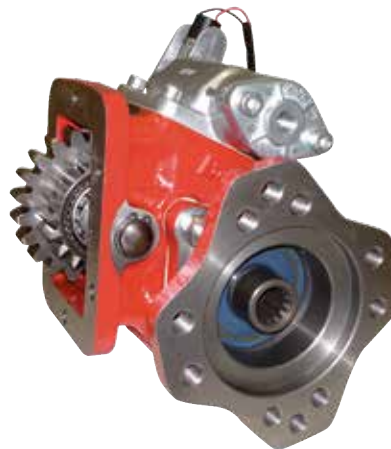


Table 1-110: Fuller

Part No.	Description	UOM	SPQ
Bottom Mount PTO's			
2000GCN011RA	Fuller Bottom Mount 8-Bolt, Air Shift, Greaseable "B" Pump Mount – C Ratio 1:0.73	EA	1
2000GEN011RA	Fuller Bottom Mount 8-Bolt Air Shift, Greaseable "B" Pump Mount – E Ratio 1:0.8	EA	1
2000X0N011SE	Fuller Bottom Mount 8-Bolt, Air Shift, 1-1/4" keyed Shaft output – O Ratio 1:1.25	EA	1

All images, information and data provided by Bezares.

Part No.	Description	UOM	SPQ
2000XAN011SE	Fuller Bottom Mount 8-Bolt, Air Shift, 1-1/4" keyed Shaft output – A Ratio 1:0.5	EA	1

KEYED SHAFT PTO's

2000XCN011SE	Fuller with 1-1/4" Keyed Shaft, bottom mount 8-Bolt, Air Shift – C Ratio 1:0.73	EA	1
2000XJN011SE	Fuller with 1-1/4" Keyed Shaft, bottom mount 8-Bolt, Air Shift – J Ratio 1:0.95	EA	1

DIRECT MOUNT PTO's

2000XCN013RA	Fuller with Direct Mount Flange, Left Forward, bottom mount 8-Bolt, Air Shift, "B" Pump Mount – C Ratio 1:0.73	EA	1
2000XBN011RA	Fuller with Direct Mount Flange, bottom mount 8-bolt, Air Shift, "B" Pump Mount – B Ratio 1:0.55	EA	1
2000XBN013RA	Fuller with Direct Mount Flange, Left Forward, bottom mount 8-Bolt, Air Shift, "B" Pump Mount – B Ratio 1:0.55	EA	1
2000XCN011RA	Fuller with Direct Mount Flange, bottom mount 8-Bolt, Air Shift, "B" Pump Mount – C Ratio 1:0.73	EA	1
2000XEN011RA	Fuller with Direct Mount Flange, bottom mount 8-Bolt, Air Shift, "B" Pump Mount – E Ratio 1:0.8	EA	1
2000XJN011RA	Fuller with Direct Mount Flange, bottom mount 8-Bolt, Air Shift, "B" Pump Mount – J Ratio 1:0.95	EA	1

Table 1-111: Mack

Part No.	Description	UOM	SPQ
2010XCN243RA	Mack with Direct Mount Flange, 8-Bolt, deep mount, Air Shift	EA	1

MACK "M DRIVE"

Bezares offers multiple options to fit these transmissions. Models include the standard 116003, a Hot Shift, a Heavy Duty, and others.

All of these PTO's are available with any SAE or DIN output options.

- 3100PEE633RA
- 3150PEM633RJ
- 3250PEE633RA

Table 1-112: Mack - "M Drive"

Part No.	Description	UOM	SPQ
116003	Mack/ Volvo PTO/ Pneumatic/ ATO2512C	EA	1

All images, information and data provided by Bezares.

3100 SERIES



3100 series are 10-Bolt Hot Shift PTO's for the Allison World series transmissions as well as the new Caterpillar CX series. These PTO's have seven ratio options, a wide variety of outputs, and either electric over hydraulic or air shift options. The 3250 series is a low profile version of the 3100 for tight mounting spaces on certain truck chassis. The 3150 is the constant mesh option of this series.

Table 1-113: Allison

Part No.	Description	UOM	SPQ
3100PEE633RA	Allison 10-Bolt with Direct Mount Flange, Hot Shift Electric - 68% Internal Ratio	EA	1
3100PCE633RA	Allison 10-Bolt with Direct Mount Flange, Hot Shift Electric - 60% Internal Ratio	EA	1

3150 SERIES

Table 1-114: Allison

Part No.	Description	UOM	SPQ
3150PEM633RJ	Allison 10-Bolt Hot Shift Constant Mesh - 68% Internal Ratio	EA	1

All images, information and data provided by Bezares.

3200 SERIES



This versatile 6-Bolt Hot Shift PTO is designed for the 1000/ 2000 Allison transmission family, Allison automatics and a wide range of manual transmissions. The 3200 series is offered with multiple ratios and outputs, as well as electric over hydraulic and air shift options.

Table 1-115: Allison

Part No.	Description	UOM	SPQ
3200PBE643RA	Allison 6-Bolt with Direct Mount Flange, Hot Shift Pressure Lube - B Ratio 1:0.40	EA	1
3200XCN011RA	Allison 6-Bolt with Direct Mount Flange, Hot Shift for Fuller - C Ratio 1:0.73	EA	1
3200XEN011RA	Allison 6-Bolt with Direct Mount Flange, Hot Shift for Fuller - E Ratio 1:0.86	EA	1

3250 SERIES

3250 series are 10-Bolt Hot Shift PTO's for the Allison World series transmissions as well as the new Caterpillar CX series. These PTO's have seven ratio options, a wide variety of outputs, and either electric over hydraulic or air shift options. The 3250 series is a low profile version of the 3100 for tight mounting spaces on certain truck chassis. The 3150 is the constant mesh option of this series.

Table 1-116: Allison

Part No.	Description	UOM	SPQ
3250PEE633RA	Allison 10-Bolt with Direct Mount Flange, Hot Shift Electric/ Low Profile	EA	1

All images, information and data provided by Bezares.

4100 SERIES



The 4100 PTO is also a heavy duty PTO with a 475 ft./ lbs. torque rating. It features a compact and lightweight design, and covers high torque demands. This model has been proven in the blower market and will fill 90% of all applications.

Table 1-117: Fuller Extra HD

Part No.	Description	UOM	SPQ
4100XCN011RJ	Fuller Extra Heavy Duty with SAE "C" Flange, 14 T, 8-Bolt, Air Shift – C Ratio 1:0.70	EA	1
4100XJN0111C	Fuller Extra Heavy Duty with 1410 Spicer Output, 8-Bolt, SPI – J Ratio 1:1.05	EA	1

4200 SERIES



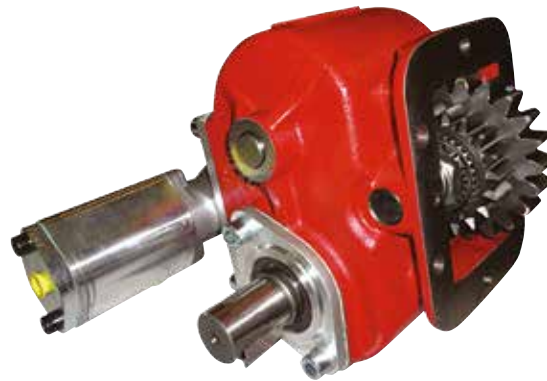
Heavy Duty Dual Output 8-Bolt PTO for Fuller Transmission. The 4200 series PTO is a market exclusive dual output 8-Bolt heavy duty PTO. This unit has two independently air operated outputs, with a variety of ratio and output combinations. This PTO is versatile for applications where two PTO's are needed and only one opening is available.

Table 1-118: Fuller Dual Output

Part No.	Description	UOM	SPQ
4200XEJN011RARA	Fuller dual output PTO, SAE B - SAE B pump mounting – EJ Ratio 1:0.86 & 1:0.95	EA	1
4200XEJN011SERA	Fuller dual output PTO, 1-1/4" keyed Shaft, SAE B pump mounting – EJ Ratio 1:0.86 & 1:0.95	EA	1

All images, information and data provided by Bezares.

6000 SERIES



The 6000 series PTO is a 6-Bolt reversible PTO primarily used in mechanical winch applications. This PTO has factory air shift with a 1.25" round keyed Shaft output. A wide variety of input gears are available, making it applicable for most manual transmissions.

Table 1-119: Reversible Output

Part No.	Description	UOM	SPQ
6000XCN011SE	6-Bolt Reversible C Ratio - 1:0.73 Forward, 1:0.83 Reverse	EA	1

8000 SERIES



The 8000 series PTO is a heavy-duty one-speed forward and reverse PTO with a 500 ft./ lbs. torque rating for winch applications. This model is a heavy-duty forward and reversible PTO with factory air shift in the market, which eliminates the need for expensive aftermarket air shift conversion kits.

Table 1-120: Heavy Duty Air

Part No.	Description	UOM	SPQ
8000XBN0131C	8-Bolt Heavy Duty Air Reversible Spicer B Ratio - 1:1.05 Forward, 1:0.97 Reverse	EA	1

All images, information and data provided by Bezares.

8500 SERIES



The 8500 series PTO is a super heavy duty unit with a variety of output and ratio options to cover certain applications. This PTO is for maximum torque and horsepower applications.

Table 1-121: Heavy Duty Air

Part No.	Description	UOM	SPQ
8500XEN0111C	8-Bolt Heavy Duty Air Spicer Flange	EA	1
8500XJN011RJ	8-Bolt Heavy Duty Air, 4-Bolt SAE C Flange	EA	1

All images, information and data provided by Bezares.

PTO PARTS & ACCESSORIES

AIR CAB CONTROLS & TOWERS

PACCAR Parts offers a variety of in-cab controls for Power Take Off's from Bezares. Three different size tower consoles for combo control valves are also available.

Controls include standard on/ off AK101X air kit, AK126X with kick out option, AK127X without kick-out, and AK128X with a feathering option.

Specialty control AK145X is offered for the forward and reversible air shift PTO's. LV series mechanical lever controls, which are a high quality lever shift option in three different lengths, are offered for applications where air shift is not an option.



Table 1-122: Air Cab Control

Part No.	Description	UOM	SPQ
AK101X	Air Cab Control, with Fittings and Brackets	EA	1



Table 1-123: Cab Towers

Part No.	Description	Size	UOM	SPQ
T0126-8	Cab Tower for Combo Air Control	8"	EA	1
T0126-10	Cab Tower for Combo Air Control	10"	EA	1
T0126-12	Cab Tower for Combo Air Control	12"	EA	1

All images, information and data provided by Bezares.

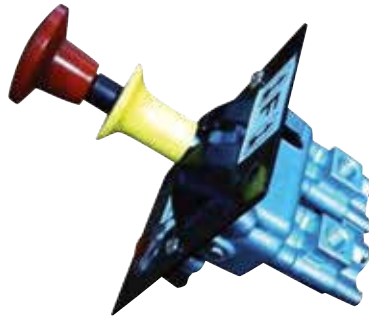


Table 1-124: Air Kits

Part No.	Description	UOM	SPQ
AK145X	Air Kit for Reversible	EA	1



Table 1-125: Combo Pumps

Part No.	Description	UOM	SPQ
AK126X	Combo Pump - PTO Air Cab Control, with Kick Out Option	EA	1
AK127X	Combo Pump - PTO Air Cab Control, without Kick Out Option	EA	1

Table 1-126: Rebuild Kits

Part No.	Description	UOM	SPQ
SHK001X	Air Shift Rebuild Kit	EA	1

Table 1-127: Conversion Kits

Part No.	Description	UOM	SPQ
PKA400AS	Air Conversion Kit For GP Pump	EA	1

All images, information and data provided by Bezares.

ADAPTERS

GEARED ADAPTERS

You can clear mounting obstacles or switch PTO output rotation with Bezares' 6-Bolt geared adapters. Offered in a 45° angle or a straight option, these can be used with any spur cut input gear that Bezares has available. A 22° offset adapter is available as well, which has more flexibility for some helical cut gears.



Table 1-128: Adapters - PTOs

Part No.	Description	UOM	SPQ
AD645-01	45° Adapter, Rotation Reverse, SAE 6-Hole	EA	1
AD622-01-01	22.5° Adapter, Rotation Reverse, SAE 6-Hole	EA	1

Table 1-129: Adapter Kits - PTOs

Part No.	Description	UOM	SPQ
AD530-1X	Geared Adapter Kit, Mack, 530 Series, Straight	EA	1

All images, information and data provided by Bezares.

HOSE KITS



Table 1-130: Hose Kits - 2-Lines

Part No.	Description	UOM	SPQ
HSK2L16-8	2-Line Hose Kit - 16' pressure, 8' Suction	EA	1



Table 1-131: Hose Kits - 3-Lines

Part No.	Description	UOM	SPQ
HSK3L12-12	3-Line Hose Kit - 12' Pressure & 12' Suction Hose, includes all Fittings	EA	1

All images, information and data provided by Bezares.

HYDRAULIC TANKS

PACCAR Parts offers a full line of tanks to fit all application needs. Tanks from Bezares are available in aluminum, steel and poly ranging in capacities from 7 to 100 gallons. Styles include upright mount, saddle mount and square side mount, with special order options of sight gauge and two-inch ports as well as stainless steel strap options. Custom tanks are available upon request.

Table 1-132: Hydraulic Tanks — PTO's

Product	Part No.	Description	UOM	SPQ
50 GALLON				
	TA50SA	Hydraulic Tank, 50-Gallon, Aluminum, Saddle Mount	EA	1
	TA50SS	Hydraulic Tank, 50-Gallon, Steel, Saddle Mount	EA	1
	TA50UA	Hydraulic Tank, 50-Gallon, Aluminum, Upright	EA	1

All images, information and data provided by Bezares.

Product	Part No.	Description	UOM	SPQ
	TA50UP	Hydraulic Tank, 50-Gallon, Plastic, Upright	EA	1
	TA50US	Hydraulic Tank, 50-Gallon, Steel, Upright	EA	1
100 GALLON				
	TA100SA-S	Hydraulic Tank, 100-Gallon, Aluminum, Saddle Mount with Strap	EA	1

All images, information and data provided by Bezares.

PUMPS

HYDRAULIC GEAR PUMPS AND MOTORS

We offer a complete line of high quality bearing and bushing style gear pumps and motors to fit any application in the market. Ranging from dump pumps, piston pumps, vane pumps and beyond, a wide variety of porting, flange and shaft options are available.



PP102LAS25



PP102LMS25

Table 1-133: Dump Pumps

Part No.	Description	UOM	SPQ
GP102LMS20	Small Dump Pump Mechanical Shift, 22 GPM at 1000 RPM	EA	1
PP102LAS25	Dump Pump - Direct Mount - Air Shift, 26.5 GPM at 1000 RPM	EA	1
PP102LMS25	Dump Pump - Direct Mount - Mechanical Shift, 26.5 GPM at 1000 RPM	EA	1



Table 1-134: Bi-Rotational Pumps

Part No.	Description	UOM	SPQ
P5151A224AAXK17	15 to 25-Gallon Pump, Bi-Rotational — SAE B Flange & Shaft	EA	1
P5151A224AAXQ25	25 to 35-Gallon Pump, Bi-Rotational — SAE B Flange & Shaft	EA	1

All images, information and data provided by Bezares.

Table 1-135: Pump Support Brackets

Part No.	Description	UOM	SPQ
PBK1000	Pump Support Bracket	EA	1

WET LINE KITS



Wet Kits
Build your complete wet line kit. Large variety of PTO, pump, valve and tank line kits are available, as well as a wide range of cab controls, complete hose kits, filter assemblies, pump support brackets and more.

Table 1-136: Wet Kits - 2-Lines

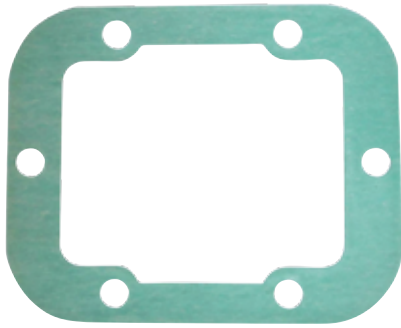
Part No.	Description	UOM	SPQ
WKC2S	Wet Kit, 2 Line - Fuller Bottom Mount PTO with 50-Gallon Aluminum Saddle Tank	EA	1
WKC2U	Wet Kit, 2 Line - Fuller Bottom Mount PTO with 50-Gallon Aluminum Upright Tank	EA	1

Table 1-137: Wet Kits - 3-Lines

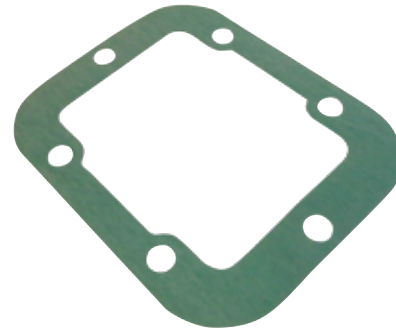
Part No.	Description	UOM	SPQ
WKC3S	Wet Kit, 3 Line - Fuller Bottom Mount PTO with 50-Gallon Aluminum Saddle Tank	EA	1
WKC3U	Wet Kit, 3 Line - Fuller Bottom Mount PTO with 50-Gallon Aluminum Upright Tank	EA	1

All images, information and data provided by Bezares.

HARDWARE



GA8010



GA6010

Table 1-138: Gaskets

Part No.	Description	Thickness	UOM	SPQ
GA6010	PTO Mounting Gasket 6-Bolt	.010	EA	1
GA6020	PTO Mounting Gasket 6-Bolt	.020	EA	1
GA8010	PTO Mounting Gasket 8-Bolt	.010	EA	1
GA8020	PTO Mounting Gasket 8-Bolt	.020	EA	1
GA8032	PTO Mounting Gasket 8-Bolt	.032	EA	1

Table 1-139: Seal Kits

Part No.	Description	UOM	SPQ
SK001X1	Seal & Gasket Kit - for 1000-2000	EA	1

Table 1-140: Metric Stud Kits

Part No.	Description	UOM	SPQ
M1BEZ	Metric Stud Kit, 6-Bolt PTO	EA	1
M2BEZ	Metric Stud Kit, 8-Bolt PTO	EA	1

Table 1-141: Standard Stud Kits

Part No.	Description	UOM	SPQ
S1BEZ	Standard Stud Kit, 6-Bolt PTO	EA	1
S2BEZ	Standard Stud Kit, 8-Bolt PTO	EA	1

All images, information and data provided by Bezares.

PART NUMBER INDEX

Part No.	Page No.	Part No.	Page No.
1000	72	05028BWN	28
2000	72	05031BWN	28
3100	72	05055BWN	27
3150	72	05131BWN	23
3200	72	05263BWN	44
3250	72	05320BWN	27
4100	72	05321BWN	27
4200	72	05334BWN	28
6000	72	05335BWN	28
8000	72	05341BWN	28
8500	72	05353BWN	26
116003	72, 74	05370BWN	45
02536BWN	36	05374BWN	29
02618BWN	36	05375BWN	28
02703BWN	41	05391BWN	32
03103BWN	24	05439BWN	46
03161BWN	31	05459BWN	45
03223BWN	31	05517BWN	44
03226BWN	31	05559BWN	23
03232BWN	35	05601BWN	27
03235BWN	35	05614BWN	45
03312BWN	32	05618BWN	27
03338BWN	32	05644BWN	45
03347BWN	24	05674BWN	24
03445BWN	24	05677BWN	24
03448BWN	24	05678BWN	24
03452BWN	26	05692BWN	24
03551BWN	30	05696BWN	24
03616BWN	30	05816BWN	24
03617BWN	30	05991BWN	10
03631BWN	30	06018BWN	46
03632BWN	30	06033BWN	45
03769BWN	36	06052BWN	46
03842BWN	30	06071BWN	14
03946BWN	31	06112BWN	17
03974BWN	23	06130BWN	20
03976BWN	41	06141BWN	45
04242BWN	31	06236BWN	10
04343BWN	26	06244BWN	22
04472BWN	40	06271BWN	47
04482BWN	35	06281BWN	10
04494BWN	37	06418BWN	46
04739BWN	44	06455BWN	45
04740BWN	44	06464BWN	12
04876BWN	26	06493BWN	37

Part No.	Page No.	Part No.	Page No.
06510BWN	18	2000XAN011SE	74
06513BWN	15	2000XBN011RA	74
06528BWN	18	2000XBN013RA	74
07369BWN	25	2000XCN011RA	74
07537BWN	25	2000XCN011SE	74
07541BWN	25	2000XCN013RA	74
07542BWN	25	2000XEN011RA	74
07545BWN	25	2000XJN011RA	74
07588BWN	25	2000XJN011SE	74
07589BWN	25	2010XCN243RA	74
100027BWN	49	21029BWN	49
1000XBN011RA	73	21036BWN	50
1000XBN011SE	73	21640BWN	60
1000XEN011RA	73	22357BWN	59
101183BWN	49	22778BWN	54
102314BWN	49	23664BWN	58
102954BWN	49	23665BWN	58
103062BWN	60	23666BWN	58
103167BWN	50	24108BWN	55
10330BWN	59	24183BWN	52
103441BWN	60	24287BWN	51
103578BWN	55	24289BWN	51
103592BWN	49	24423BWN	52
103897BWN	53	24490BWN	49
108523BWN	60	24494BWN	58
109486BWN	60	24862BWN	56
109487BWN	60	24882BWN	56
11051BWN	55	24892BWN	55
11259BWN	56	24916BWN	55
11426BWN	50	24967BWN	50
11474BWN	56	25351BWN	52
11569BWN	55	25530BWN	50
11570BWN	55	25540BWN	50
11592BWN	56	25541BWN	50
11593BWN	60	25550BWN	54
11594BWN	60	25637BWN	54
11656BWN	56	25644BWN	62
11979BWN	50	25723BWN	62
12592BWN	55	26256BWN	60
12773BWN	55	26330BWN	52
12961BWN	58	26705BWN	58
13838BWN	59	27193BWN	56
18002BWN	55	27258BWN	52
18018BWN	55	27321BWN	51
18020BWN	58	27384BWN	55
18062BWN	58	28785BWN	50
2000GCN011RA	73	29749BWN	50
2000GEN011RA	73	3100PCE633RA	75
2000XON011SE	73	3100PEE633RA	75

Part No.	Page No.	Part No.	Page No.
3150PEM633RJ	75	64586BWN	57
3200PBE643RA	76	64606BWN	48
3200XCNO11RA	76	64625BWN	61
3200XEN011RA	76	64741BWN	61
3250PEE633RA	76	71017BWN	55
4100XCNO11RJ	77	71978BWN	58
4100XJN0111C	77	71979BWN	58
4200XEJN011RARA	77	71985BWN	60
4200XEJN011SERA	77	72056BWN	60
6000XCNO11SE	78	72112BWN	59
61567BWN	59	72363BWN	60
61906BWN	58	72591BWN	56
62671BWN	61	72801BWN	59
62828BWN	61	74780BWN	58
62830BWN	61	75478BWN	56
62831BWN	61	75807BWN	57
62832BWN	60	76488BWN	55
62833BWN	61	77278BWN	63
62836BWN	61	8000XBN0131C	78
62841BWN	61	81644BWN	56
62844BWN	61	81663BWN	57
62846BWN	61	81716BWN	56
62847BWN	61	81774BWN	57
62848BWN	61	81984BWN	54
63081BWN	61	82908BWN	56
63534BWN	62	83148BWN	56
63605BWN	51	83196BWN	52
63674BWN	62	83216BWN	53
63982BWN	62	84113BWN	53
64069BWN	62	84253BWN	53
64070BWN	62	84274BWN	53
64097BWN	62	84280BWN	53
64231BWN	62	84282BWN	53
64234BWN	62	84283BWN	53
64308BWN	48	8500XEN0111C	79
64353BWN	62	8500XJN011RJ	79
64407BWN	60	AD530-1X	82
64408BWN	60	AD622-01-01	82
64409BWN	60	AD645-01	82
64571BWN	57	AK101X	80
64572BWN	57	AK126X	81
64577BWN	57	AK127X	81
64578BWN	57	AK145X	81
64581BWN	57	CG100265	68
64582BWN	57	CG100266	68
64583BWN	57	CG100267	68
64584BWN	50	CG100269	69
64585BWN	50	CG100277	68

Part No.	Page No.
CG100285	69
CG100311	65
CG100311-100312	70
CG100312	65
CG100315	65
CG100315-100316	71
CG100316	65
CG100320	69
CG100330	69
CG100342	70
CG100343	70
CG100345	66
CG100345-100346	71
CG100346	66
CG100347	67
CG100347-100348	71
CG100348	67
CG100366	70
CG100372	66
CG100372-100373	71
CG100373	66
CG100376	67
CG100376-100377	71
CG100377	67
GA6010	88
GA6020	88
GA8010	88
GA8020	88
GA8032	88
GP102LMS20	86
HSK2L16-8	83
HSK3L12-12	83
M1BEZ	88
M2BEZ	88
P5151A224AAXK17	86
P5151A224AAXQ25	86
PBK1000	87
PKA400AS	81
PP102LAS25	86
PP102LMS25	86
S1BEZ	88
S2BEZ	88
SHK001X	81
SK001X1	88
T0126-10	80
T0126-12	80
T0126-8	80
TA100SA-S	85
TA50SA	84

Part No.	Page No.
TA50SS	84
TA50UA	84
TA50UP	85
TA50US	85
WKC2S	87
WKC2U	87
WKC3S	87
WKC3U	87

SUBJECT INDEX

A

Adapters

Geared Adapters..... 82

B

Brakes

Disc Brakes..... 49

Bumpers

Utility Products - Winch
Bumpers 44

C

Chassis Grabbers

Single Chassis Grabber
Brackets..... 65
Optional Mounting Accessories
without Chassis Grabber 68

Capstan Drives

Capstan Drives 30

D

DriveTrain

Clutch Control Kits 56
Clutch Assemblies 56
Sprag Clutch 56
Bearing Kit 57

H

Hardware

O-Ring 59
Gaskets, Seals & Studs 88

Hoist

General Application Hoist
Units - Braden 23
General Application Hoist
Units - Gearmatic..... 25
Utility Products - Hoist Units .. 27

Hose Kits

Hose Kits - 2 Line 83
Hose Kits - 3 Line 83

Hydraulic Tanks

50 Gallon Hydraulic Tanks 84
100 Gallon Hydraulic Tanks ... 85

M

Mack "M Drive" 74

P

PTO's

1000/ 2000 Series..... 72
3100 Series..... 75
3150 Series..... 75
3200 Series..... 76
3250 Series..... 76
4100 Series..... 77
4200 Series..... 77
6000 Series..... 78
8000 Series..... 4, 78
8500 Series..... 79
PTO's Torque Ratio Table 72

PTO Parts & Accessories

Air Cab Control 80
Cab Towers..... 80

Pumps

Dump Pumps 86
Bi-Rotational Pumps 86
Pump Support Bracket..... 87

W

Wet Line Kits

Wet Line Kit - 2 Lines..... 87
Wet Line Kit - 3 Lines..... 87

Winch

General Application Units - Low
Mount/ Trailer Winches 26
Oilfield Products - Planetary
Hydraulic Winches 10
Utility Products - Planetary
Units..... 28
Utility Products - Worm
Gear Units..... 31
Winch Parts 48



*For information, updates, or corrections,
please contact us at feedback@TRPParts.com*

*No part of this marketing material may be
reproduced in any manner without written
permission from TRP North America.*

TRP® North America

750 Houser Way N.
Renton, WA 98057

www.TRPParts.com