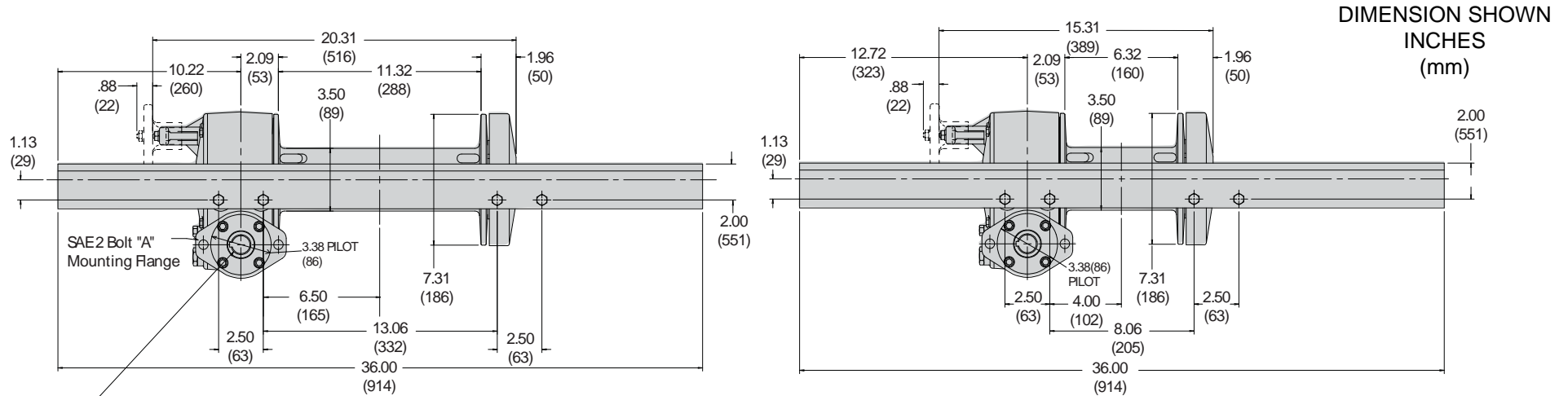


HU8A / MU8A

8,000 LB First Layer Line Pull

BRADEN®

DIMENSIONAL INFORMATION



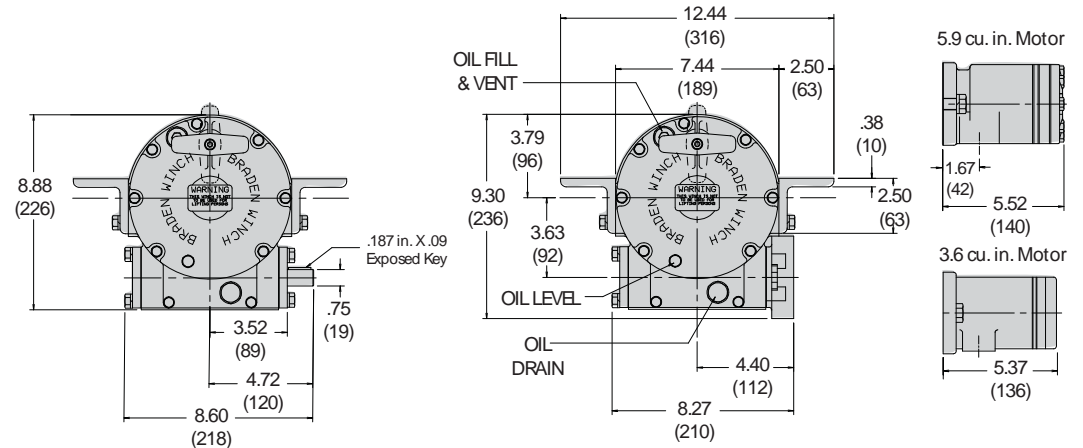
Requires motor with 1 in. shaft & .25 in. X .13 in. Key

MECHANICAL DRIVE

HYDRAULIC DRIVE

LEFT HAND ASSEMBLY SHOWN.

- Internal drag brake reduces back spinning when drum is disengaged
- Rugged and compact design.
- Self-locking worm and gear set.
- Drum clutch operates in sealed worm gear housing.



PACCAR WINCH DIVISION
P.O. BOX 547 BROKEN ARROW, OK U.S.A. 74013
PHONE (918) 251-8511 FAX (918) 259-1575
www.paccarwinch.com

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 world wide 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.

www.paccarwinch.com

PERFORMANCE FORMULAS

LINE PULL AT LOWER PRESSURE

$$\frac{\text{YOUR SYSTEM PRESSURE}}{\text{MAXIMUM PRESSURE (FROM CHART)}} \times \text{LINE PULL FROM CHART} = \text{LINE PULL ESTIMATE}$$

EXAMPLE:

$$\frac{1500 \text{ PSI}}{2400 \text{ PSI}} \times 8,000 \text{ LBS} = 5,000 \text{ LBS}$$

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 the winch rating.

Consult the wire rope manufacturer for ratings.

WIRE ROPE CAPACITY

6.32 in. DRUM										11.32 in. DRUM											
ROPE SIZE	LAYER										ROPE SIZE	LAYER									
	1		2		3		4		5			1		2		3		4		5	
in.	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	in.	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
3/8	15	4.6	33	10	54	16.5	78	23.7	105	32	3/8	28	8.5	60	18.3	99	30.2	142	43.3	191	58.2
7/16	13	4.0	30	9.1	49	14.9	71	21.6			7/16	24	7.3	53	16.2	88	26.8	128	39		

WIRE ROPE CAPACITY SHOWN IS 90% OF THEORITICAL

PERFORMANCE INFORMATION

3/8 in. WIRE ROPE																
LAYER	STATIC								DYNAMIC							
	45:1 RATIO 5.9 cu in MOTOR				34:1 RATIO 3.6 cu in MOTOR				45:1 RATIO 5.9 cu in MOTOR		34:1 RATIO 3.6 cu in MOTOR					
	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED		LINE PULL		LINE SPEED					
	(lbs)	(kg)	(fpm)	(mpm)	(lbs)	(kg)	(fpm)	(mpm)	(lbs)	(kg)	(fpm)	(mpm)				
1	8000	3640	12	3.7	4930	2240	26	7.9	8000	3640	12	3.7	8000	3640	26	7.9
2	6700	3040	14	4.3	4130	1880	31	9.4	6700	3040	14	4.3	6710	3050	31	9.4
3	5770	2625	16	4.9	3550	1615	36	1.1	5770	2625	16	4.9	5780	2630	36	1.1
4	5060	2300	18	5.5	3120	1420	41	12.5	5060	2300	18	5.5	5070	2305	41	12.5
5	4510	2050	21	6.4	2780	1265	46	14.0	4510	2050	21	6.4	4520	2055	46	14.0

MECHANICAL REQUIREMENTS

RATIO	Input Torque			
	Static		Dynamic	
	lb-in	N-m	lb-in	N-m
45:1	1160	131	880	99
34:1	1430	162	1055	119

HYDRAULIC REQUIREMENTS

5.9 cu in				3.6 cu in			
Pressure		Flow		Pressure		Flow	
PSI	bar	GPM	lpm	PSI	bar	GPM	lpm
1950	135	15*	57	2400*	166	15*	57
2400*	166	15*	57	2400*	166	15*	57

* Maximum values for motor

ENGINEERING DATA

Rated Working Load (Max. Load, First Layer) 8,000 lbs. (4,536 kg)
 Breaking Strength (First Layer) 16,000 lbs. (9,072 kg)
 Worm Gear Ratio 45:1 or 34:1
 Oil Capacity 1/2 pint
 Input Shaft Diameter (Mechanical Drive OD) 3/4 in. (19 mm)
 (Hydraulic Drive ID) 1 in. (25 mm)
 Weight - 6 in. Drum (Winch Only) 86 lbs. (39 kg)
 Weight - 11 in. Drum (Winch Only) 91 lbs. (41 kg)

⚠ WARNING ⚠

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

⚠ 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.

HU8A / MU8A