

Tough Conditions Demand Tough Air Winches.

BigRed



T THERN

Leave the heavy lifting to us.



TA2.5 shown with auto band brake, drum guard and line guide.

Let Us Raise Your Expectations.

Winches built to last from a brand that's known to perform. The **"Big Red"** TA series Air winches from Thern fuse a field proven radial piston motor with industrial grade welded steel construction for ultimate dependability. Whether you're dealing with heat, frost, dust, sand or salt, if you're counting on anything less than a Thern Big Red winch, you're counting on trouble.

Much more than reliable, Thern Big Red winches allow you to customize the set up to suit your specific task, giving you the right tool for the job – without paying special mark-ups or facing long lead times. In fact, you'll receive special orders in off-the-shelf time.

You've got a tough job to do, and an even tougher environment to do it in. Luckily, you also have Thern Big Red winches working for you.

QUICK DELIVERY

Order a custom winch and receive it in off-the-shelf time.

RUGGED DESIGN

All Thern air winches are manufactured under strict quality standards to meet industry certifications.

SERVICE

Leading the industry with a two year limited warranty, we're dedicated to providing top-notch customer service.

UTILITY/PERSONNEL

Thern Big Red air winches are available with ABS type approval in utility and personnel rated models.



Tough conditions demand tough winches – like the Big Red air winches from Thern. Few if any other winches can accommodate such a daunting array of challenges. From blistering heat, bitter cold, salty-aired and sand blown environments associated with oil rigs to the damp, saltwater encrusted working conditions of maritime industries, Thern winches are up to the challenge.



TA5 shown with manual band brake and muffler kit.



TA5P shown with manual band brake and auto disc brake.

Big Red Seeks Black Gold In Oil And Gas

Oil and gas rigs demand one thing above all else from a winch. Reliability. When you're hours from anywhere, failure is not an option. Whether you're setting up the rig, pulling pipe, moving materials, positioning equipment or just putting in an honest day's work, you'll want the Thern ABS type approved Big Red or Big Red Rider at your command for utility and personnel lifting. These are heavy-duty winches, even by heavy-duty standards, with all the power you'll need.



Big Red Digs Deep In Mining

Dust, dirt, grit, grime, moisture and debris come with the territory. Big Red air winches from Thern welcome them all with open arms. Tough as the miners who use them, Big Red Winches are made with heavy-duty welded steel construction. So forge ahead, raise or pull mighty loads with confidence all the livelong day. Big Red will never let you down.

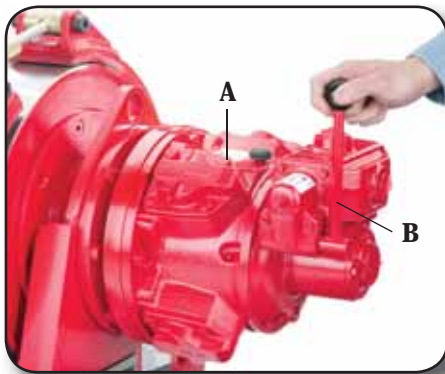
Big Red Meets Deep Blue In Marine

Add water, and suddenly your job gets a lot tougher. This makes working in a shipyard among the most demanding environments imaginable. Moisture makes things slip, corrode and fail, unless you're talking about Thern Big Red air winches. Thern excels in marine operations. Whether it's laying pipe, positioning barges, or lifting and positioning propellers and rudders, you can count on Thern to be in ship shape condition and up to the task.

BigRed

Everything You Need, More Than You Expect.

	Model	Drum Width (inches)				HP	Winch Load Rating (Full Drum)	Winch Line Speed
		16	24	30	36			
UTILITY	TA2 Series	•	•	-	-	7.1	4,700 lbs	30-46 fpm
	TA2H Series	•	•	-	-	7.1	2,400 lbs	61-94 fpm
	TA2.5 Series	•	•	-	-	18.3	5,000 lbs	79-114 fpm
	TA5 Series	•	•	•	-	17.8	11,500 lbs	30-47 fpm
	TA7 Series	-	•	•	•	14.4	15,900 lbs	19-29 fpm



Features and Benefits

Radial Piston Motor (A)

Internally lubricated for reliable power and an exceptionally long service life.

Precise Control Valve (B)

Count on smooth control with variable speed, making it ideal for both precision spotting and long lifts.

Manual Band Brake (C)

The heavy duty, long handled steel band brake requires less force to engage and provides up to 150% holding capacity.



Welded Steel Frame

Captures both drum ends for optimal strength and security.

Planetary Gears

Compact design and high efficiency gearing reduce power loss and heat generation while increasing service life. Gears operate in oil bath. Double lip oil seals keep oil in and contaminants out.

Wire Rope Assemblies

Sold separately. A variety of wire rope assemblies and fittings are available per customer request. Please contact the factory.

Meets ASME 30.7 Requirements

Standard units designed and built to meet this specification.

2-Year Warranty

Leading the industry with our *Move It with Confidence* Two Year Limited Warranty.

No One Knows What You Need Better Than You.

Every job is different, so we allow you to build the Thern BIG RED TA Series air winches to suit your specific needs using our extensive line of accessories and options. The better suited the winch, the better completed the task.



Options and Accessories

Automatic Disc Brake (D)

Spring engaged, air pressure released and oil cooled for extended duty cycles and long life.



Automatic Band Brake (E)

Spring engaged, air pressure released, with heavy-duty construction that provides up to 150% holding capacity (replaces manual brake).

Mufflers (F)

Attached to the exhaust ports to reduce noise.

Control Options (G)

Winch mounted, full flow remote pendant control valve.



Marine Grade Epoxy

Applied with a zinc primer for ultimate protection in harsh environments.

Drum Guard (H)

Heavy-duty steel mesh helps to protect operators. Adjusts for different rope payout angles.



ABS Type Approvals Available

Please contact factory.



Filter, Lubricator and Regulator (I)

Maintains air quality to the winch. Required for warranty compliance.

Line Guide (J)

Steel construction and hand operated to help wire rope unwind uniformly.

Stackable Construction Winch Cage

Protects motor and winch during operation. Movable with forklift.



BigRed

Big Red TA Series Air Winches

UTILITY RATED



BIG RED TA Series UTILITY RATED Air Winch Performance Characteristics

	TA2 Series		TA2H Series		TA2.5 Series		TA5 Series		TA7 Series	
Load Rating 1st Layer	7,200 lb	3,265 kg	3,600 lb	1,632 kg	7,200 lb	3,265 kg	18,000 lb	8,164 kg	23,600 lb	10,704 kg
Load Rating Mid-Drum	5,700 lb	2,585 kg	2,900 lb	1,315 kg	5,900 lb	2,676 kg	14,000 lb	6,350 kg	19,000 lb	8,618 kg
Load Rating Full Drum	4,700 lb	2,131 kg	2,400 lb	1,088 kg	5,000 lb	2,268 kg	11,500 lb	5,216 kg	15,900 lb	7,212 kg
Line Speed 1st Layer*	30 fpm	9.1 m/min	61 fpm	18.6 m/min	79 fpm**	24.1 m/min**	30 fpm**	9.1 m/min**	19 fpm	5.8 m/min
Line Speed Mid-Drum*	38 fpm	11.6 m/min	77 fpm	23.5 m/min	96 fpm**	29.3 m/min**	39 fpm**	11.9 m/min**	24 fpm	7.3 m/min
Line Speed Full Drum*	46 fpm	14.0 m/min	94 fpm	28.7 m/min	114 fpm**	34.7 m/min**	47 fpm**	14.3 m/min**	29 fpm	8.8 m/min
Input HP	7.1 hp	7.1 hp	7.1 hp	7.1 hp	18.3 hp	18.3 hp	17.8 hp	17.8 hp	14.4 hp	14.4 hp
Max. Stall Pull 1st Layer	9,000 lb	4,082 kg	4,500 lb***	2,041 kg***	11,000 lb	4,989 kg	33,000 lb	14,968 kg	38,000 lb	17,236 kg
Pressure	90 psi	6.3 kgf/cm2	90 psi	6.3 kgf/cm2	90 psi	6.3 kgf/cm2	90 psi	6.3 kgf/cm2	90 psi	6.3 kgf/cm2
Flow	250 scfm	7.0 m3/min	250 scfm	7.0 m3/min	600 scfm	17.0 m3/min	550 scfm	15.6 m3/min	550 scfm	15.6 m3/min
Pipe Inlet Size	1 in	25.4 mm	1 in	25.4 mm	1.5 in	38.1 mm	1.5 in	38.1 mm	1.5 in	38.1 mm
Hose Size	1.25 in	31.8 mm	1.25 in	31.8 mm	1.5 in	38.1 mm	1.5 in	38.1 mm	1.5 in	38.1 mm
Minimum Design Temp	(-4°) F	(-20°) C	(-4°) F	(-20°) C	(-4°) F	(-20°) C	(-4°) F	(-20°) C	(-4°) F	(-20°) C

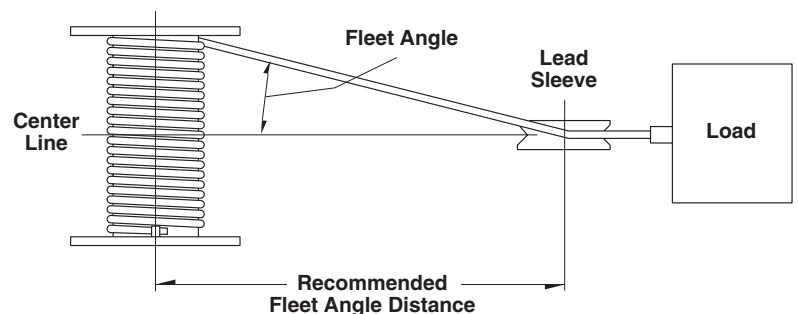
* Linespeeds vary based on conditions of air supply. ** ABS certifications may specify slower line speeds than those published due to variances in air flow at time of actual test. *** Estimated Value.

BIG RED TA Series UTILITY RATED Air Winch Drum Capacities*

Drum Width			16 in (407 mm)			24 in (610 mm)			30 in (762 mm)			36 in (915 mm)		
	Rope Diameter	Breaking Strength**	1st Layer	Mid Drum	Full Drum	1st Layer	Mid Drum	Full Drum	1st Layer	Mid Drum	Full Drum	1st Layer	Mid Drum	Full Drum
	(in) (mm)	(lb) (kg)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)
TA2 Series	0.5 12.7	26,600 12,065	83 25	380 115	850 259	130 39	570 173	1,270 387	- -	- -	- -	- -	- -	- -
TA2H Series	0.5 12.7	26,600 12,065	83 25	380 115	850 259	130 39	570 173	1,270 387	- -	- -	- -	- -	- -	- -
TA2.5 Series	0.63 16.0	41,200 18,688	71 21	260 79	580 176	110 33	390 118	860 262	- -	- -	- -	- -	- -	- -
TA5 Series	0.75 19.1	58,800 26,671	72 21	360 109	810 246	120 36	550 167	1,210 368	150 45	680 207	1,520 463	- -	- -	- -
TA7 Series	0.88 22.4	79,600 36,106	- -	- -	- -	120 36	520 158	1,150 350	160 48	650 198	1,440 438	190 57	780 237	1,730 527

* Drum capacity is based on 0.5 inch flange clearance at top layer per ASME B30.7. ** Values based on 6x37 IWRC EIPS wire rope.

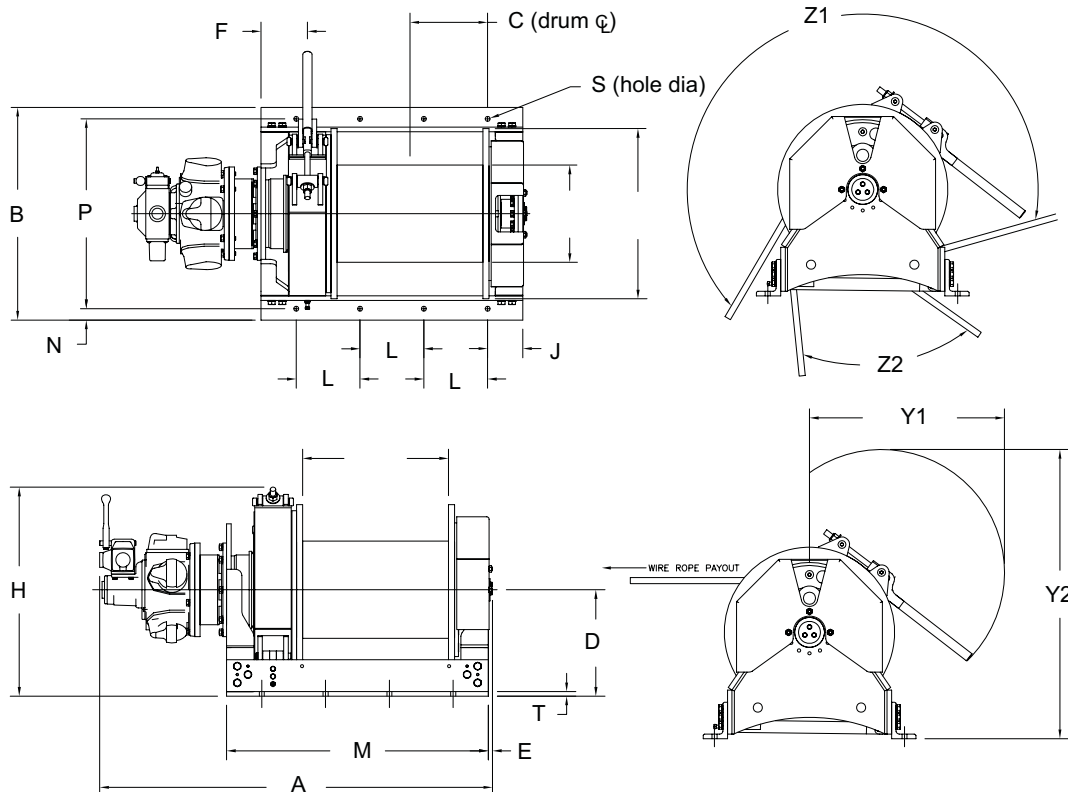
Series	Drum Diameter	Flange Diameter	Drum Width	Fleet Angle Dist.	
	(in) (mm)	(in) (mm)	(in) (mm)	(ft) (m)	(ft) (m)
TA2-16	11.50 292	20.00 508	16.00 406	26	8
TA2-24	11.50 292	20.00 508	24.00 610	39	12
TA2H-16	11.50 292	20.00 508	16.00 406	26	8
TA2H-24	11.50 292	20.00 508	24.00 610	39	12
TA2.5-16	12.75 324	21.00 533	16.00 406	26	8
TA2.5-24	12.75 324	21.00 533	24.00 610	39	12
TA5-16	16.00 406	28.00 711	16.00 406	26	8
TA5-24	16.00 406	28.00 711	24.00 610	39	12
TA5-30	16.00 406	28.00 711	30.00 762	48	15
TA7-24	20.00 508	33.00 838	24.00 610	39	12
TA7-30	20.00 508	33.00 838	30.00 762	48	15
TA7-36	20.00 508	33.00 838	36.00 914	58	18



Big Red TA Series Air Winches

UTILITY RATED

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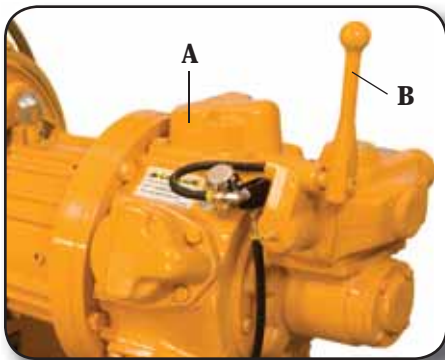
BIG RED TA Series **UTILITY RATED** Air Winch Dimensions

	A		B		C		D		E		F		H		J		L		M		N	
Series	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
TA2-16	44.00	1,118	24.00	610	9.06	230	14.00	356	0.54	14	5.25	133	28.50	724	2.88	73	7.50	191	28.50	724	2.00	51
TA2-24	52.00	1,321	24.00	610	12.81	325	14.00	356	0.54	14	5.25	133	28.50	724	3.13	80	10.00	254	36.50	927	2.00	51
TA2H-16	44.00	1,118	24.00	610	9.06	230	14.00	356	0.54	14	5.25	133	28.50	724	2.88	73	7.50	191	28.50	724	2.00	51
TA2H-24	52.00	1,321	24.00	610	12.81	325	14.00	356	0.54	14	5.25	133	28.50	724	3.13	80	10.00	254	36.50	927	2.00	51
TA2.5-16	50.00	1,270	24.00	610	9.00	229	14.00	356	0.73	19	5.25	133	30.00	762	2.88	73	7.50	191	28.50	724	2.00	51
TA2.5-24	58.00	1,473	24.00	610	12.75	324	14.00	356	0.73	19	5.25	133	30.00	762	3.13	80	10.00	254	36.50	927	2.00	51
TA5-16	57.00	1,448	35.00	889	10.53	267	17.50	445	0.68	17	7.75	197	34.50	876	4.03	102	9.00	229	35.50	902	1.88	48
TA5-24	65.00	1,651	35.00	889	12.78	325	17.50	445	0.68	17	7.75	197	34.50	876	5.78	147	10.50	267	43.50	1,105	1.88	48
TA5-30	71.00	1,803	35.00	889	17.03	433	17.50	445	0.68	17	7.75	197	34.50	876	4.53	115	10.00	254	49.50	1,257	1.88	48
TA7-24	69.00	1,753	38.00	965	15.41	391	20.00	508	1.00	25	9.25	235	37.00	940	5.38	137	9.00	229	47.00	1,194	1.88	48
TA7-30	75.00	1,905	38.00	965	17.41	442	20.00	508	1.00	25	9.25	235	37.00	940	6.38	162	10.00	254	53.00	1,346	1.88	48
TA7-36	81.00	2,057	38.00	965	19.41	493	20.00	508	1.00	25	9.25	235	37.00	940	7.38	187	11.00	279	59.00	1,499	1.88	48

	P		S (hole diameter)		T		Y1		Y2		Z1	Z2	# Bolts	Bolt Size	Weight	
Series	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(Degrees)	(Degrees)	-	-	(lb)	(kg)
TA2-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	990	450
TA2-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,080	490
TA2H-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	990	450
TA2H-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,080	490
TA2.5-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	228	27	8	5 / 8 in - G8	1,315	597
TA2.5-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	228	27	8	5 / 8 in - G8	1,400	636
TA5-16	31.45	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	8	3 / 4 in - G8	2,585	1,173
TA5-24	31.45	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	8	3 / 4 in - G8	2,745	1,246
TA5-30	31.45	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	10	3 / 4 in - G8	2,870	1,302
TA7-24	34.25	870	0.94	24	0.75	19	32.00	813	51.00	1,295	210	39	10	7 / 8 in - G8	3,600	1,633
TA7-30	34.25	870	0.94	24	0.75	19	32.00	813	51.00	1,295	210	39	10	7 / 8 in - G8	3,765	1,708
TA7-36	34.25	870	0.94	24	0.75	19	32.00	813	51.00	1,295	210	39	10	7 / 8 in - G8	3,965	1,799

You Might Call It A Wish List. We Call It A Features List.

	Model	Drum Width (inches)			HP		Winch Load Rating		Winch Line Speed	
		16	24	30	Utility	Personnel	Utility (Full Drum)	Personnel (Full Drum)	Utility	Personnel
PERSONNEL	TA2P Series	•	•	-	7.1	6.8	4,700 lbs	2,900 lbs	30-46 fpm	46-70 fpm
	TA2HP Series	•	•	-	7.1	7.1	2,400 lbs	2,400 lbs	61-94 fpm	61-94 fpm
	TA2.5P Series	•	•	-	18.3	16.2	5,000 lbs	3,100 lbs	79-114 fpm	112-162 fpm
	TA5P Series	•	•	•	17.8	16.7	11,500 lbs	6,900 lbs	30-47 fpm	47-74 fpm



Features and Benefits

Radial Piston Motor (A)

Internally lubricated for reliable power and an exceptionally long service life.

Precise Control Valve (B)

Count on smooth control with variable speed, making it ideal for both precision spotting and long lifts.

Automatic Disc Brake (C)

Spring engaged, air pressure released and oil cooled for extended duty cycles and long life.

Manual Band Brake (D)

The heavy duty, long handled steel band brake requires less force to engage and provides up to 150% winch capacity.

Welded Steel Frame

Captures both drum ends for optimal strength and security.

Planetary Gears

Compact design and high efficiency gearing reduce power loss and heat generation while increasing service life. Gears operate in oil bath. Double lip oil seals keep oil in and contaminants out.

Marine Grade Epoxy

Applied with a zinc primer for ultimate protection in harsh environments.

Wire Rope Assemblies

Sold separately. A variety of wire rope assemblies and fittings are available per customer request. Please contact the factory.

Meets ASME 30.7 Requirements

Standard units designed and built to meet this specification.

ABS Type Approval

With dual rating for both personnel and utility operation. Designed in accordance with ABS CDS 2006 Guide.

2-Year Warranty

Leading the industry with our *Move It with Confidence*
Two Year Limited Warranty.



Looking For The Perfect Hoist? Build It Your Way.

Every job is different, so we allow you to build Thern BIG RED TA Series air winches to suit your specific needs using our extensive line of accessories and options. The better suited the winch, the better completed the task.



Options and Accessories

Automatic Band Brake (E)

Spring engaged, air pressure released, with heavy-duty construction that provides up to 150% holding capacity (replaces manual brake).

Mufflers (F)

Attached to the exhaust ports to reduce noise.

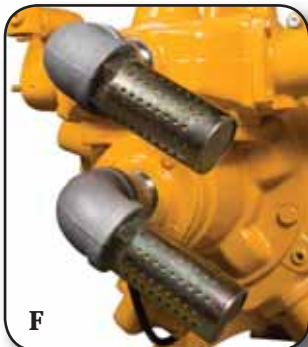
Control Options (G)

Winch mounted, full flow remote pendant control valve.



Drum Guard (H)

Heavy-duty steel mesh helps to protect operators.
Adjusts for different rope payout angles.



Filter, Lubricator and Regulator (I)

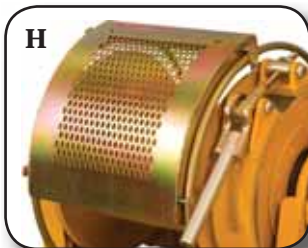
Maintains air quality to the winch. Required for warranty compliance.

Line Guide (J)

Steel construction and hand operated to help wire rope unwind uniformly.

Stackable Construction Winch Cage

Protects motor and winch during operation. Movable with forklift.



Big Red
Rider

Big Red TA Series Air Winches

PERSONNEL RATED



BIG RED TA Series PERSONNEL RATED Air Winch Performance Characteristics

	TA2P Series		TA2HP Series		TA2.5P Series		TA5P Series	
	PERSONNEL	UTILITY	PERSONNEL	UTILITY	PERSONNEL	UTILITY	PERSONNEL	UTILITY
Load Rating 1st Layer	4,500 lb 2,041 kg	7,200 lb 3,265 kg	3,600 lb 1,632 kg	3,600 lb 1,632 kg	4,500 lb 2,041 kg	7,200 lb 3,265 kg	10,700 lb 4,853 kg	18,000 lb 8,164 kg
Load Rating Mid-Drum	3,600 lb 1,632 kg	5,700 lb 2,585 kg	2,900 lb 1,315 kg	2,900 lb 1,315 kg	3,700 lb 1,678 kg	5,900 lb 2,676 kg	8,400 lb 3,810 kg	14,000 lb 6,350 kg
Load Rating Full Drum	2,900 lb 1,315 kg	4,700 lb 2,131 kg	2,400 lb 1,088 kg	2,400 lb 1,088 kg	3,100 lb 1,406 kg	5,000 lb 2,268 kg	6,900 lb 3,129 kg	11,500 lb 5,216 kg
Line Speed 1st Layer *	46 fpm 14.0 m/min	30 fpm**9.1 m/min**	61 fpm 18.6 m/min	61 fpm 18.6 m/min	112 fpm 34.1 m/min	79 fpm**24.1 m/min**	47 fpm 14.3 m/min	30 fpm**9.1 m/min**
Line Speed Mid-Drum *	58 fpm 17.7 m/min	38 fpm**11.6 m/min**	77 fpm 23.5 m/min	77 fpm 23.5 m/min	137 fpm 41.8 m/min	96 fpm**29.3 m/min**	61 fpm 18.6 m/min	39 fpm**11.9 m/min**
Line Speed Full Drum *	70 fpm 21.3 m/min	46 fpm**14.0 m/min**	94 fpm 28.7 m/min	94 fpm 28.7 m/min	162 fpm 49.4 m/min	114 fpm**34.7 m/min**	74 fpm 22.6 m/min	47 fpm**14.3 m/min**
Input HP	6.8 hp 6.8 hp	7.1 hp 7.1 hp	7.1 hp 7.1 hp	7.1 hp 7.1 hp	16.2 hp 16.2 hp	18.3 hp 18.3 hp	16.7 hp 16.7 hp	17.8 hp 17.8 hp
Max. Stall Pull 1st Layer	9,000 lb 4,082 kg	9,000 lb 4,082 kg	4,500 lb*** 2,041kg***	4,500 lb*** 2,041kg***	11,000 lb 4,989 kg	11,000 lb 4,989 kg	33,000 lb 14,968 kg	33,000 lb 14,968 kg
Pressure	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2	90 psi 6.3 kgf/cm2
Flow	300 scfm 8.5 m3/min	250 scfm 7.0 m3/min	250 scfm 7.0 m3/min	250 scfm 7.0 m3/min	700 scfm 19.8 scfm	600 scfm 17.0 m3/min	700 scfm 19.8 m3/min	550 scfm 15.6 m3/min
Pipe Inlet Size	1 in 25.4 mm	1 in 25.4 mm	1 in 25.4 mm	1 in 25.4 mm	1.5 in 38.1 mm	1.5 in 38.1 mm	1.5 in 38.1 mm	1.5 in 38.1 mm
Hose Size	1.25 in 31.8 mm	1.25 in 31.8 mm	1.25 in 31.8 mm	1.25 in 31.8 mm	1.5 in 38.1 mm	1.5 in 38.1 mm	1.5 in 38.1 mm	1.5 in 38.1 mm
Minimum Design Temp	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)	(32°F) (0°C)

* Line speeds vary based on conditions of air supply. ** ABS certifications may specify slower line speeds than those published due to variances in air flow at time of actual test. *** Estimated Value.

BIG RED TA Series PERSONNEL RATED Air Winch Drum Capacities *

Drum Width			16 in (407 mm)			24 in (610 mm)			30 in (762 mm)		
	Rope Diameter	Breaking Strength**	1st Layer	Mid Drum	Full Drum	1st Layer	Mid Drum	Full Drum	1st Layer	Mid Drum	Full Drum
	(in) (mm)	(lb) (kg)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)	(ft) (m)
TA2P Series	0.5 12.7	26,600 12,065	83 25	380 115	850 259	130 39	570 173	1,270 387	- -	- -	- -
TA2HP Series	0.5 12.7	26,600 12,065	83 25	380 115	850 259	130 39	570 173	1,270 387	- -	- -	- -
TA2.5P Series	0.63 16.0	41,200 18,688	71 21	260 79	580 176	110 33	390 118	860 262	- -	- -	- -
TA5P Series	0.75 19.1	58,800 26,671	72 21	360 109	810 246	120 36	550 167	1,210 368	150 45	680 207	1,520 463

* Drum capacity is based on 0.5 inch flange clearance at top layer per ASME B30.7. See separate tabel for full drum capacities based on ABS CDS 2006 guide.

** Values based on 6x37 IWRC EIPS wire rope. Breaking strength of new wire rope must comply with appropriate standards; 5:1 for utility winches, 10:1 for personnel winches, based on the largest load placed on the winch.

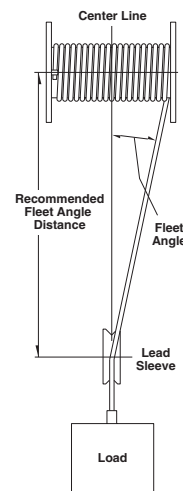
BIG RED TA Series ABS CDS Drum Capacities (Rider)*

Drum Width			16 in (407 mm)	24 in (610 mm)	30 in (762 mm)
	Rope Diameter	Breaking Strength**	Full Layer	Full Drum	Full Drum
	(in) (mm)	(lb) (kg)	(ft) (m)	(ft) (m)	(ft) (m)
TA2P Series	0.5 12.7	26,600 12,065	710 216	1,060 323	- -
TA2HP Series	0.5 12.7	26,600 12,065	710 216	1,060 323	- -
TA2.5P Series	0.63 16.0	41,200 18,688	440 134	650 198	- -
TA5P Series	0.75 19.1	58,800 26,671	630 192	950 289	1,180 359

* Drum capacity is based on 0.5 inch flange clearance at top layer per ABS CDS 2006 guide.

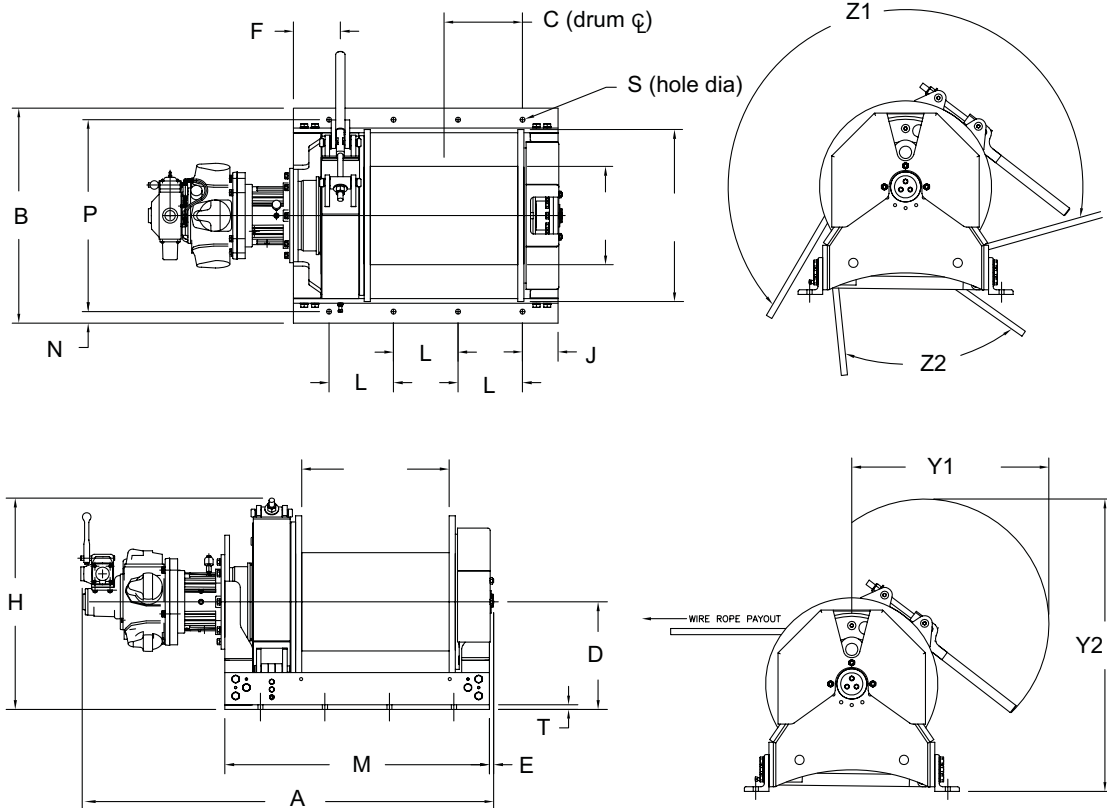
** Values based on 6x37 IWRC EIPS wire rope. Breaking strength of new wire rope must comply with appropriate standards; 5:1 for utility winches, 10:1 for personnel winches, based on the largest load placed on the winch.

	Drum Diameter	Flange Diameter	Drum Width	Fleet Angle Dist.
Series	(in) (mm)	(in) (mm)	(in) (mm)	(ft) (m)
TA2P-16	20.00 508	11.50 292	16.00 406	26 8
TA2P-24	20.00 508	11.50 292	24.00 610	39 12
TA2HP-16	20.00 508	11.50 292	16.00 406	26 8
TA2HP-24	20.00 508	11.50 292	24.00 610	39 12
TA2.5P-16	20.00 508	12.75 324	16.00 406	26 8
TA2.5P-24	20.00 508	12.75 324	24.00 610	39 12
TA5P-16	31.25 794	16.00 406	16.00 406	26 8
TA5P-24	31.25 794	16.00 406	24.00 610	39 12
TA5P-30	31.25 794	16.00 406	30.00 762	48 15



Big Red TA Series Air Winches

PERSONNEL RATED



BIG RED TA Series **PERSONNEL RATED** Air Winch Dimensions

	A		B		C		D		E		F		H		J		L		M		N	
Series	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
TA2P-16	55.00	1,397	24.00	610	9.06	230	14.00	356	0.54	14	5.25	133	28.50	724	2.88	73	7.50	191	28.50	724	2.00	51
TA2P-24	63.00	1,600	24.00	610	12.81	325	14.00	356	0.54	14	5.25	133	28.50	724	3.13	80	10.00	254	36.50	927	2.00	51
TA2HP-16	55.00	1,397	24.00	610	9.06	230	14.00	356	0.54	14	5.25	133	28.50	724	2.88	73	7.50	191	28.50	724	2.00	51
TA2HP-24	63.00	1,600	24.00	610	12.81	325	14.00	356	0.54	14	5.25	133	28.50	724	3.13	80	10.00	254	36.50	927	2.00	51
TA2.5P-16	53.00	1,346	24.00	610	9.00	229	14.00	356	0.73	19	5.25	133	30.00	762	2.88	73	7.50	191	28.50	724	2.00	51
TA2.5P-24	61.00	1,549	24.00	610	12.75	324	14.00	356	0.73	19	5.25	133	30.00	762	3.13	80	10.00	254	36.50	927	2.00	51
TA5P-16	61.00	1,549	35.00	889	10.53	267	17.50	445	0.68	17	7.75	197	34.50	876	4.03	102	9.00	229	35.50	902	1.88	48
TA5P-24	69.00	1,753	35.00	889	12.78	325	17.50	445	0.68	17	7.75	197	34.50	876	5.78	147	10.50	267	43.50	1,105	1.88	48
TA5P-30	75.00	1,905	35.00	889	17.03	433	17.50	445	0.68	17	7.75	197	34.50	876	4.53	115	10.00	254	49.50	1,257	1.88	48

	P		S (hole diameter)		T		Y1		Y2		Z1	Z2	# Bolts	Bolt Size	Weight	
Series	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(Degrees)	(Degrees)	-	-	(lb)	(kg)
TA2P-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,135	515
TA2P-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,225	556
TA2HP-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,135	515
TA2HP-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	223	34	8	5 / 8 in - G8	1,225	556
TA2.5P-16	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	228	27	8	5 / 8 in - G8	1,405	638
TA2.5P-24	20.00	508	0.69	18	0.50	13	20.00	508	37.00	940	228	27	8	5 / 8 in - G8	1,490	676
TA5P-16	31.25	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	8	3 / 4 in - G8	2,715	1,232
TA5P-24	31.25	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	8	3 / 4 in - G8	2,880	1,307
TA5P-30	31.25	794	0.81	21	0.75	19	32.50	826	48.00	1,219	224	50	10	3 / 4 in - G8	3,005	1,364

A Reputation of Excellence.

By the time he returned from his Air Force duty during World War II, Royal G. Thern, or Roy for short, had already spent his lifetime around large machines and heavy equipment. Settling in to the small town of Winona, Minnesota with his wife Lucille, the two combined their knowledge to create a corn sheller, lever-operated chain hoist, a cordwood saw frame and a differential chain hoist. It was the beginning of a long tradition of lifting and pulling innovation.

Today, Thern continues it's 60-year tradition of excellence by providing standard and customized load handling equipment to leading companies all around the world. The company offers lifting and pulling solutions to a variety of industries, including aerospace, aviation, bulk material processing, construction, manufacturing, transportation, and water/wastewater.



Leave the heavy lifting to us.