

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.

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.



TA5 shown with manual band brake and muffler kit.

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.



TA5P shown with manual band brake and auto disc brake.

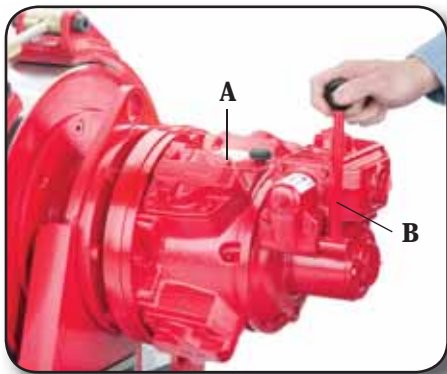
Big Red Meets Deep Blue In Marine

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.



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.

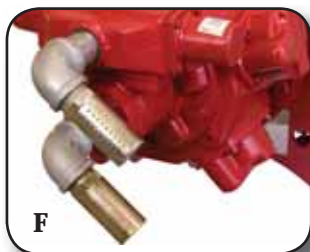
ABS Type Approvals Available

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.



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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 (in) (mm)	Flange Diameter (in) (mm)	Drum Width (in) (mm)	Fleet Angle Dist.	
				(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

