



RUFNEK®

with *Intelliguard*™



Safety
Innovation
To Help
You Work
Smarter.

Planetary Winches

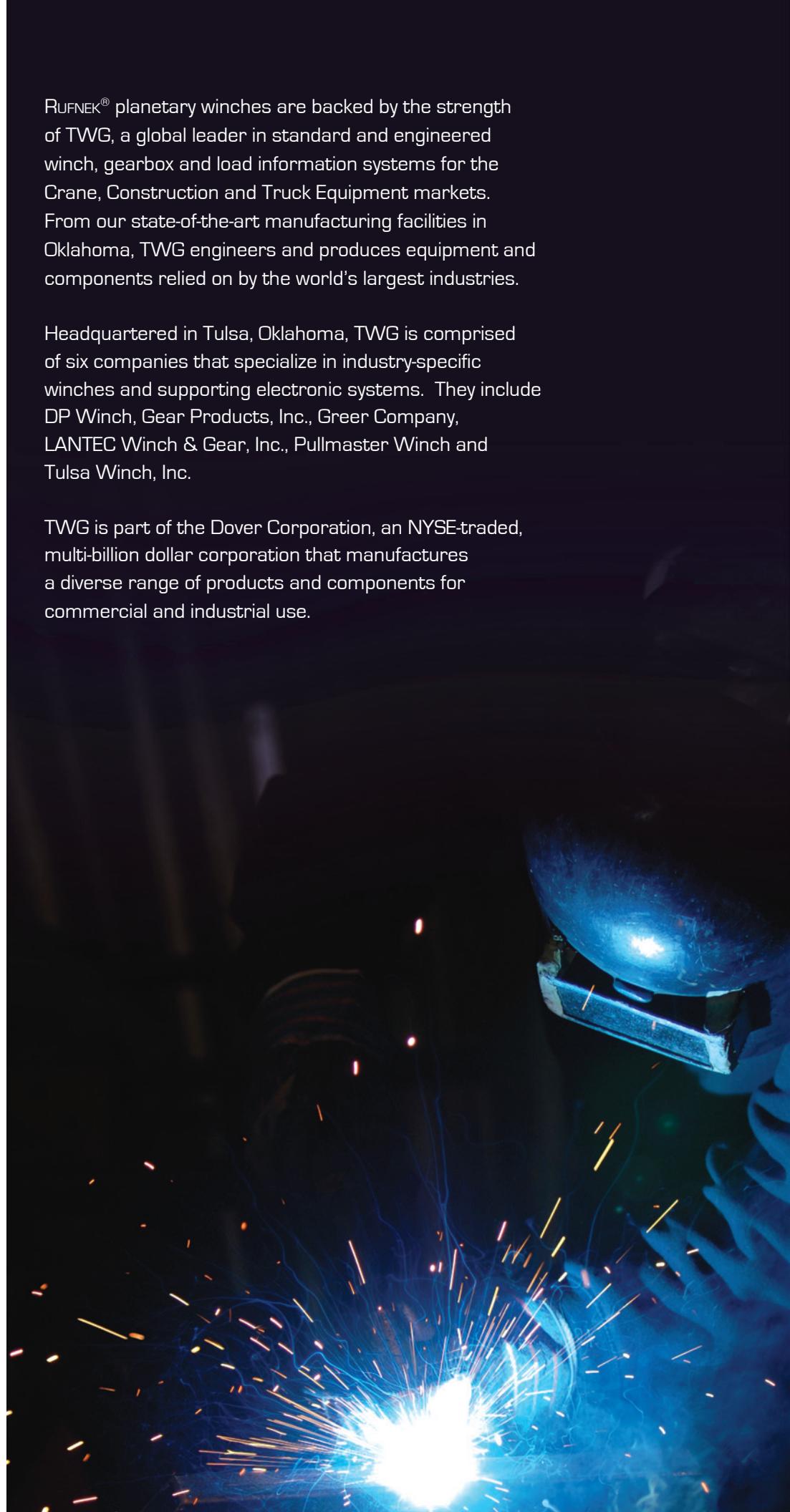
Strength You Can Depend On



RUFNEK® planetary winches are backed by the strength of TWG, a global leader in standard and engineered winch, gearbox and load information systems for the Crane, Construction and Truck Equipment markets. From our state-of-the-art manufacturing facilities in Oklahoma, TWG engineers and produces equipment and components relied on by the world's largest industries.

Headquartered in Tulsa, Oklahoma, TWG is comprised of six companies that specialize in industry-specific winches and supporting electronic systems. They include DP Winch, Gear Products, Inc., Greer Company, LANTEC Winch & Gear, Inc., Pullmaster Winch and Tulsa Winch, Inc.

TWG is part of the Dover Corporation, an NYSE-traded, multi-billion dollar corporation that manufactures a diverse range of products and components for commercial and industrial use.



In the Field, There's No Such Thing as *Safe Enough*.

At Tulsa Winch, we know that accidents, equipment failure and downtime are direct hits to your bottom line. That's why we engineer the industry's most advanced hydraulic planetary winches to help leaseholders, OEMs, truck riggers and oilfield fleets perform safer and smarter.

Now, Tulsa Winch introduces a new generation of planetary winches to help minimize and prevent dangerous winch overloading like nothing else—RUFNEK® with *Intelliguard™*.

RUFNEK® with *Intelliguard™* combines RUFNEK's legendary performance with Intelliguard's field-proven technology to offer added protection against injuries and costly equipment damage. We call it pure safety innovation. You'll call it your first line of defense against the unexpected.



At TWG, we continue to raise the bar on how planetary winches should perform—and it's been that way for nearly 75 years.

RUFNEK® planetary winches are specifically designed for the world's Oilfield Industry. In the harshest terrains, on the most challenging projects, RUFNEK® planetary winches set a new benchmark for safe, reliable operation and rugged performance.



Smart Technology. Safer Operation.

RUFNEK® winches and accessories are ideal for tough oilfield and heavy haul applications and engineered with the advanced safeguards you've come to expect from Tulsa Winch. Now, every RUFNEK® planetary winch is designed with *Intelliguard™*, a state-of-the-art capacity-alert system that electronically measures torque and load information each time your winch is operated. As the winch approaches its maximum torque, Intelliguard's light indicator warns the operator and records the event.

Intelliguard's electronic records are easily downloadable and provide fleet and safety managers with critical information on the daily operation of their winches. The result? A new ability to help you make more informed decisions about equipment handling, preventive maintenance and safety training.

RUFNEK Intelliguard Summary Report 8/8/2010

Accumulated Winch Hours: _____ Hours Since Last Download: _____

Winch Serial Number: _____ Company: _____
 Vehicle: _____
 Winch #: _____

Measurements	Date Range	Total Days	Total Time (Hours)
System On Events:	7/06/10-8/08/10	34	6
Winch Usage:	7/06/10-8/08/10	34	1 (Acc. Time Clock)
Torque Events:	7/27/10-8/08/10	8	.3 (Log Time 80-125%)

Capacity Range	Time (Hours)	% of Logged Time	% of Total Winch Usage
Below 80%:	.7 (1-3)	0	67
80-89%:	9	45	15
90-99%:	7	35	12
100-109%:	3	15	5
110-119%:	1	5	1
120-125%:	0	0	0
Totals:	1	100	100

For Clutch Engagement / Disengagement See Detail Report

Error Codes:
 7/31/10, 171, Dead communications with the light bar

Technical and
Customer Support

918.298.8300

Product integrity. Service integrity. Just two of the strengths that have made Tulsa Winch® and RUFNEK® the Oilfield Industry's most trusted names in winch systems.

Our Technical Support and Customer Support teams are always available to answer your equipment questions or help you improve your fleet safety.



RUFNEK®
with *Intelliguard™*

RUFNEK® with *Intelliguard™* planetary winches are available in pulling capacities from 45,000 to 130,000 pounds and offer added protection from winch overloading on bed trucks, winch trucks and pole trucks.

Advanced Features and Superior Benefits

Two-speed hydraulic motor with shift-on-the-fly capability.

Optimal flexibility in selecting line speed and line pull to match load conditions.

Single, externally mounted air shift cylinder.

Allows efficient, simple operation and easy access for maintenance.

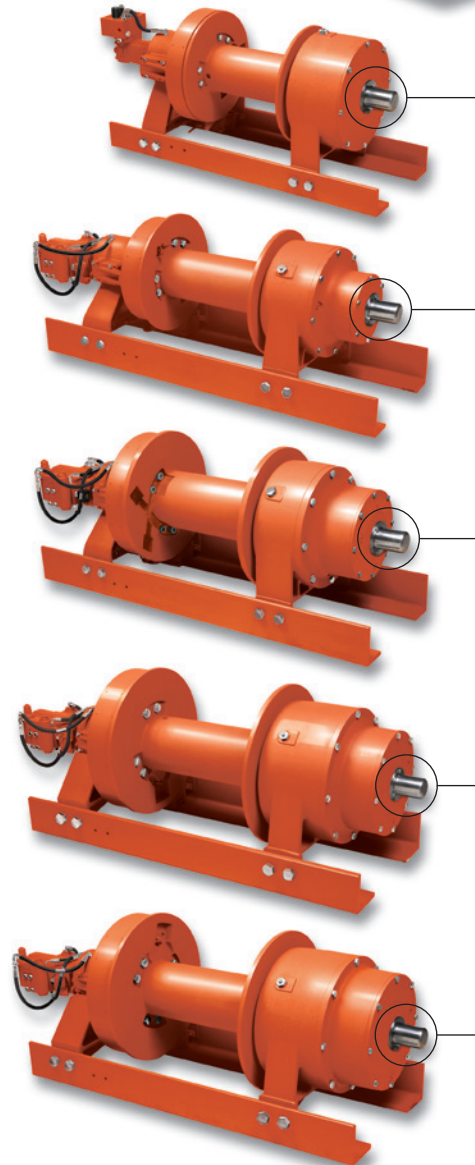
Integral, spring-applied, hydraulically released multiple disk brake with hydraulic brake valve and overrunning clutch.

Provides superior load control and smoother operation in the best possible configuration to ensure longer brake life and positive clutch engagement.

Air-applied drum brake.

Prevents bird-nesting of cable during free-spool operation.

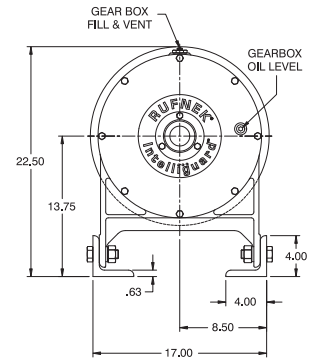
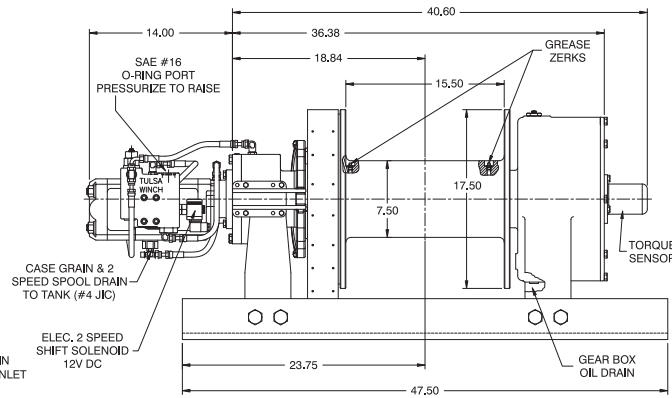
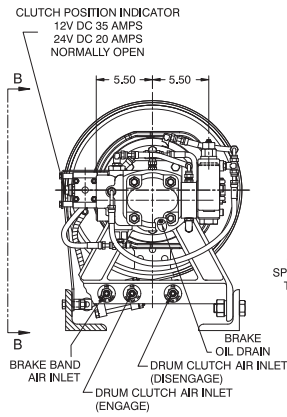
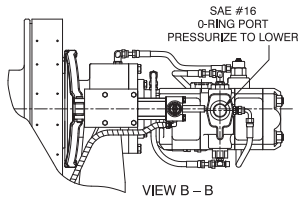
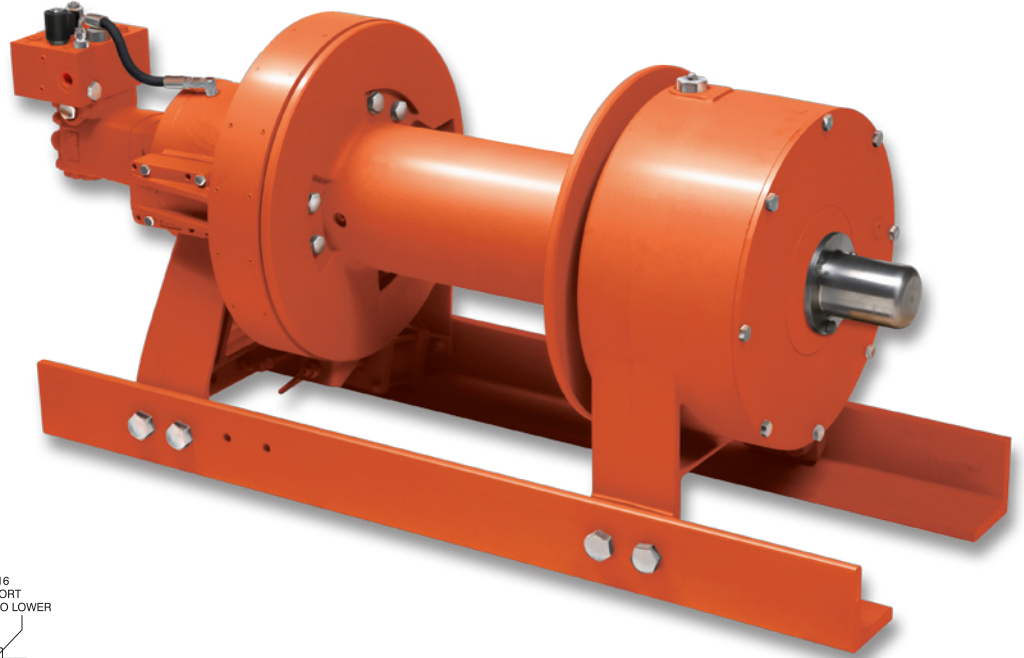
Intelliguard™ capacity-alert system with cab-mounted indicator.



RUFNEK® with *Intelliguard™* Planetary Winches

RN45P

45,000 lb. Pulling Capacity



Approximate weight: 940 lb / 426 kg

PERFORMANCE DATA

2,250 PSI @ 60 GPM / 155 BAR @ 227 LPM

Layer	Low Speed				High Speed				Cable	
	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Capacity (ft)	Capacity (m)
1	45,000	20,412	41	13	22,500	10,206	82	25	32	10
2	36,818	16,701	50	15	18,409	8,350	101	31	70	21
3	31,154	14,131	60	18	15,577	7,066	120	37	116	35
4	27,000	12,247	69	21	13,500	6,124	138	42	168	51
5	23,823	10,806	78	24	11,911	5,403	157	48	228	69

CAUTION:

The last 5 wraps of cable must be left on the drum to assist the cable clamp in holding the load.

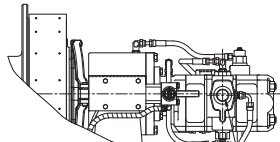
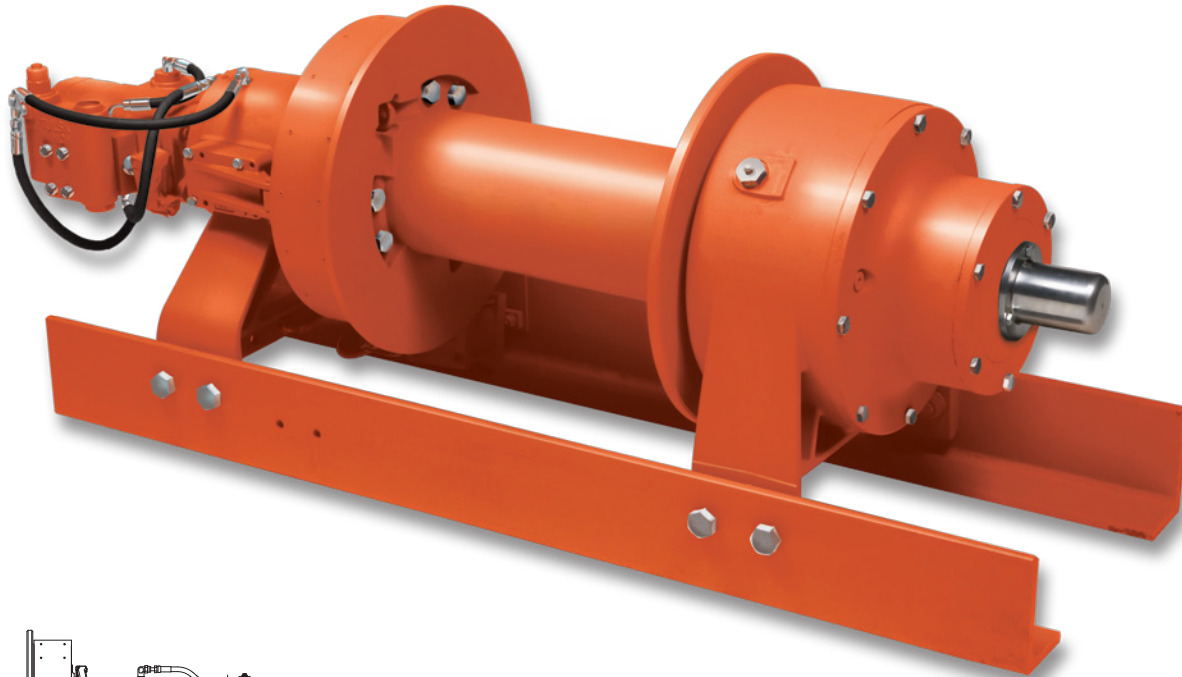
WARNING:

Winches and capstans are not intended to be used for lifting or moving of persons.

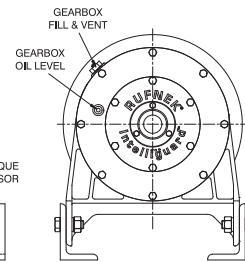
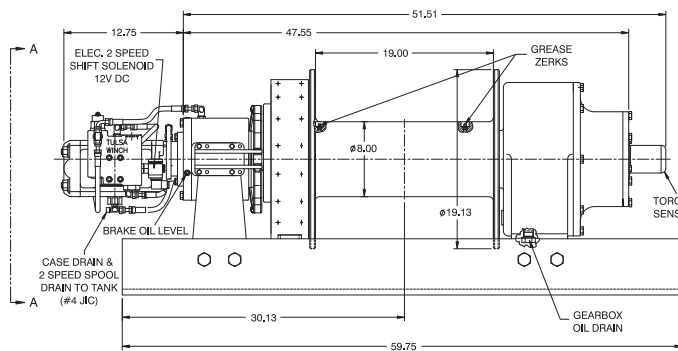
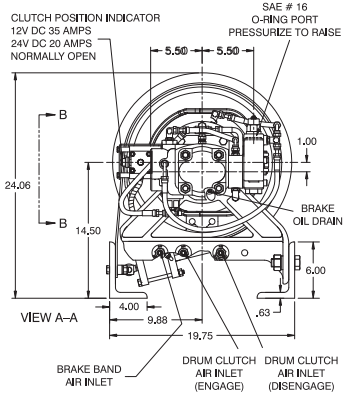
RUFNEK® with Intelliguard™ Planetary Winch

60,000 lb. Pulling Capacity

RN60P



VIEW B-B
SAE # 16 O-RING PORT PRESSURIZE TO LOWER



Approximate weight: 1,300 lb / 589 kg

PERFORMANCE DATA

2,400 PSI @ 60 GPM / 164 BAR @ 227 LPM

Layer	Low Speed		High Speed				Cable			
	Linepull (lb)	Linespeed (kg)	Linespeed (fpm)	Linespeed (mpm)	Linepull (lb)	Linespeed (kg)	Linespeed (fpm)	Linespeed (mpm)	Capacity (ft)	1.0" Ø (m)
1	60,000	27,216	33	10	27,310	12,385	71	22	45	14
2	49,101	22,267	40	12	22,344	10,133	87	27	99	30
3	41,547	18,842	47	14	18,907	8,574	103	31	164	50
4	36,008	16,329	54	17	16,386	7,431	119	36	239	73

CAUTION:

The last 5 wraps of cable must be left on the drum to assist the cable clamp in holding the load.

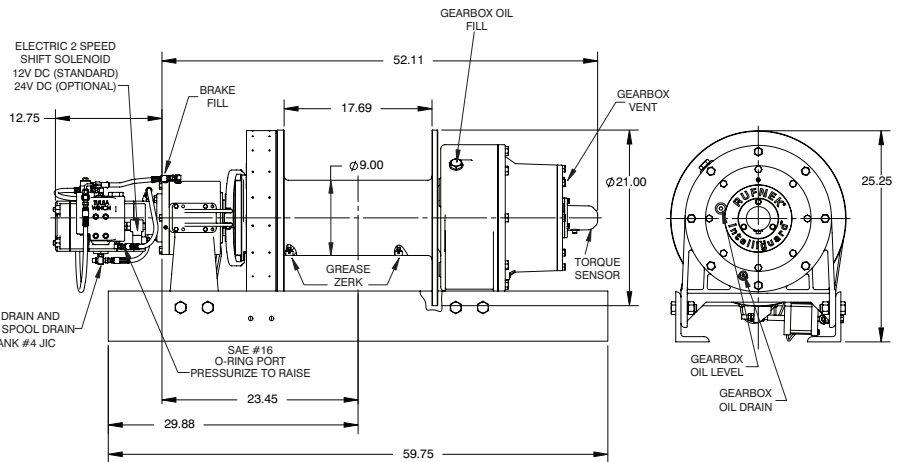
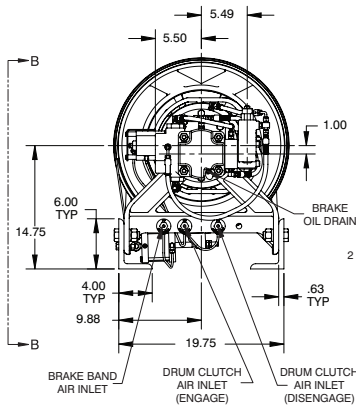
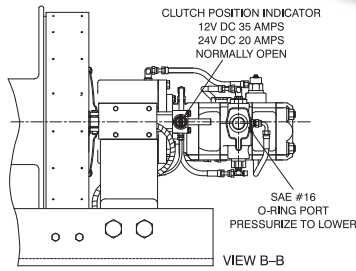
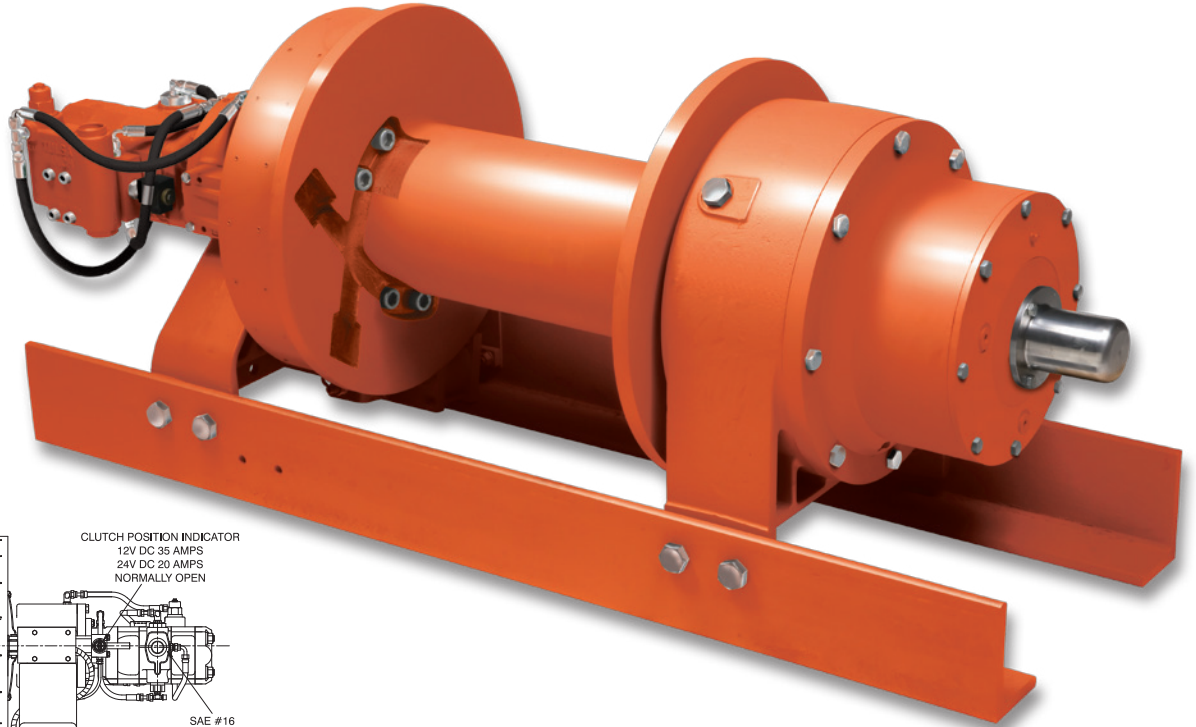
WARNING:

Winches and capstans are not intended to be used for lifting or moving of persons.

RUFNEK® with Intelliguard™ Planetary Winch

RN80P

80,000 lb. Pulling Capacity



Approximate weight: 1,645 lb / 746 kg

PERFORMANCE DATA

2,700 PSI @ 60 GPM / 186 BAR @ 227 LPM

Layer	Low Speed				High Speed				Cable	
	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Capacity (ft)	1.0" Ø (m)
1	80,000	36,287	27	8	36,526	16,565	60	18	45	14
2	66,679	30,239	33	10	30,438	13,804	72	22	98	30
3	57,153	25,919	38	12	26,090	11,832	84	26	160	49
4	50,009	22,679	44	13	22,829	10,353	96	29	231	70
5	44,453	20,159	49	15	20,292	9,203	108	33	312	95

CAUTION:

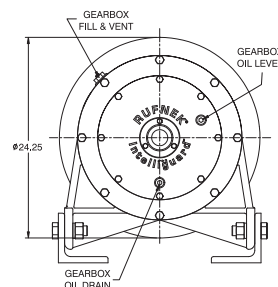
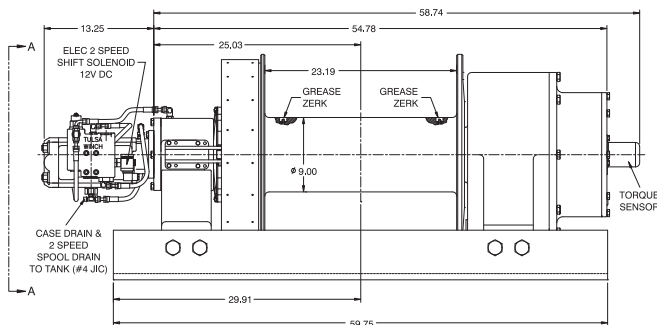
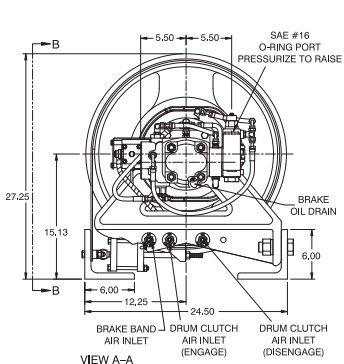
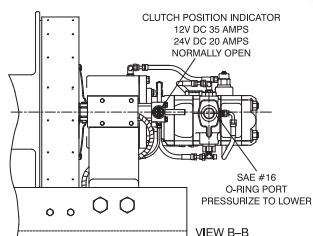
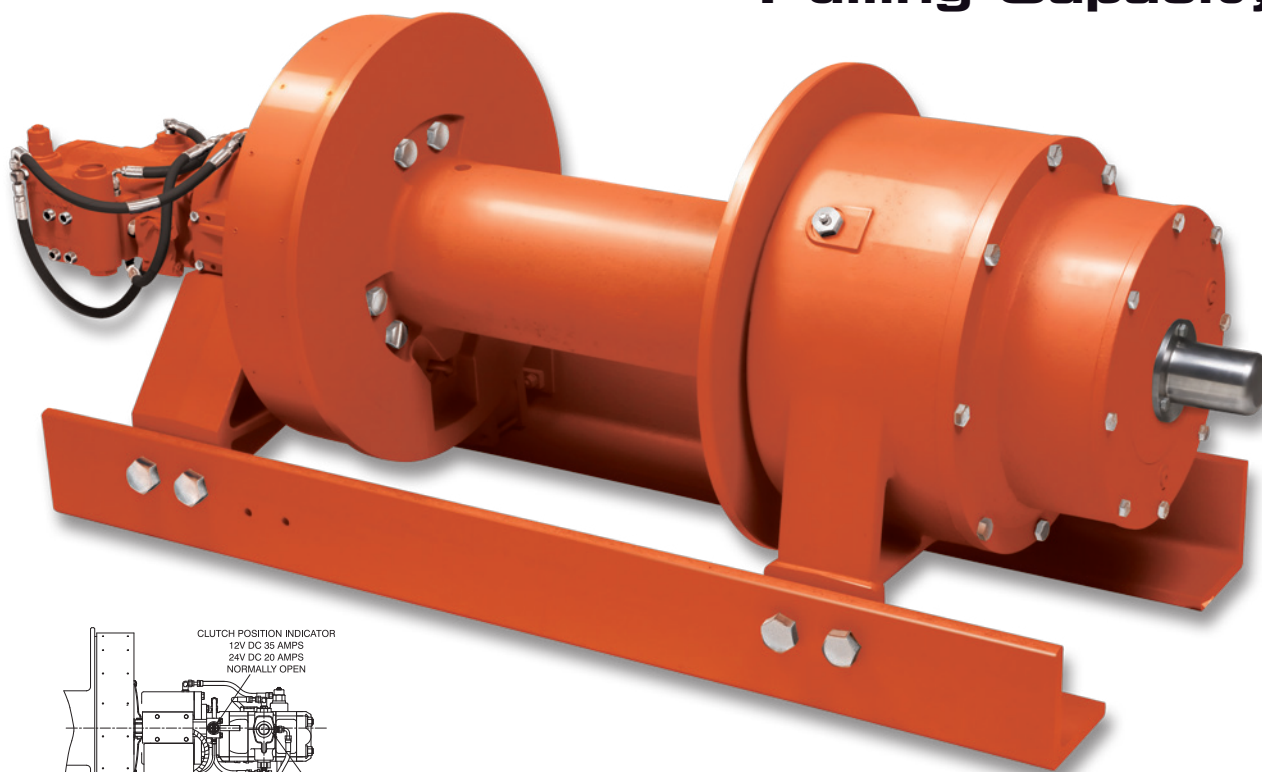
The last 5 wraps of cable must be left on the drum to assist the cable clamp in holding the load.

WARNING:

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RUFNEK® with Intelliguard™ Planetary Winch

100,000 lb. Pulling Capacity



Approximate weight: 2,060 lb / 934 kg

PERFORMANCE DATA

2,750 PSI @ 60 GPM / 190 BAR @ 227 LPM

Layer	Low Speed				High Speed				Cable	
	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Capacity (ft)	Capacity (m)
1	100,000	45,357	23	7	45,901	20,816	49	15	53	16
2	81,830	37,110	28	8	37,555	17,031	60	18	118	36
3	69,241	31,401	33	10	31,777	14,411	71	22	194	59
4	60,009	27,214	38	12	27,540	12,490	82	25	283	86
5	52,949	24,012	43	13	24,300	11,020	93	28	383	117
6	47,376	21,485	48	15	21,742	9,860	104	32	495	151

CAUTION:

The last 5 wraps of cable must be left on the drum to assist the cable clamp in holding the load.

WARNING:

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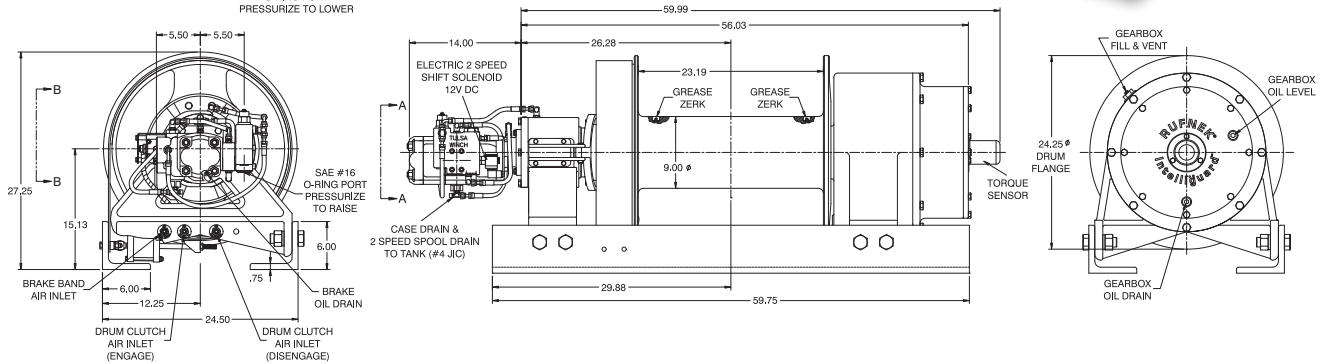
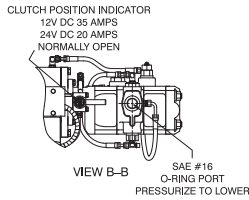
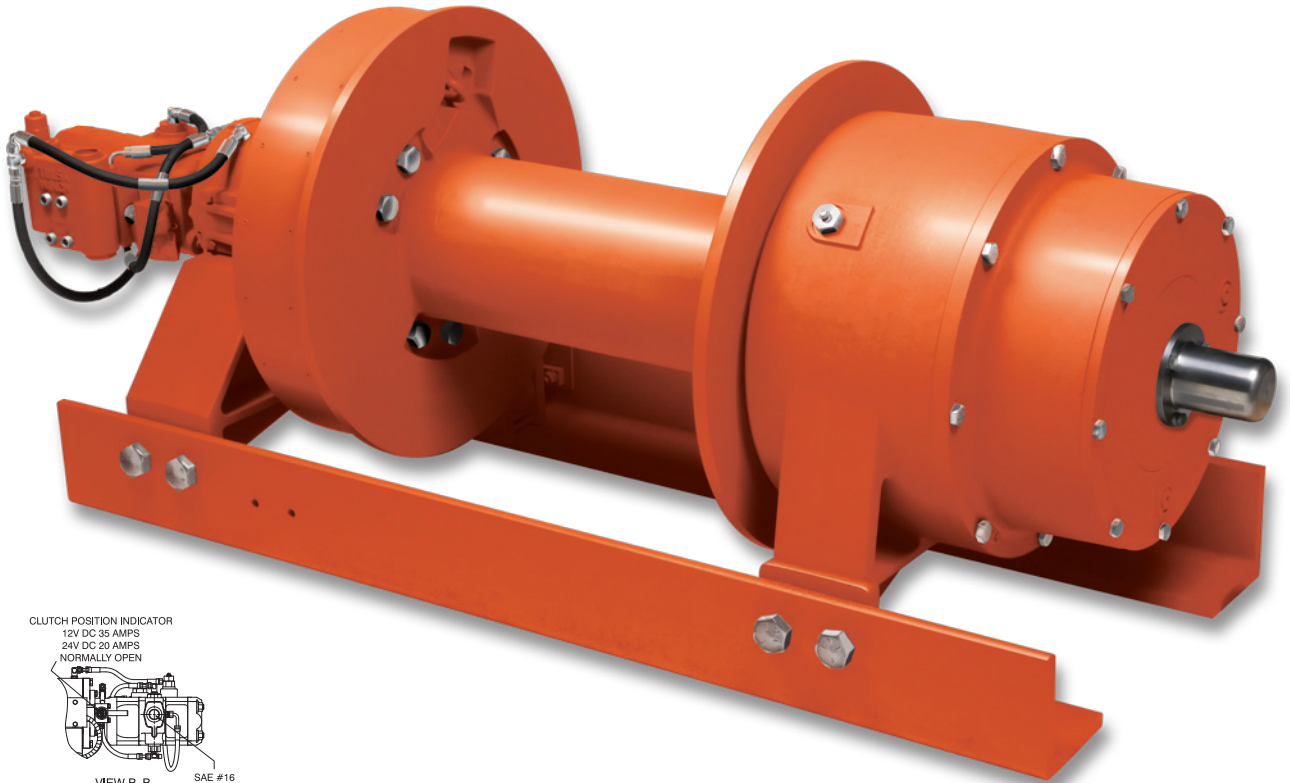
RN100P

RUFNEK® with Intelliguard™ Planetary Winch

RN130P

RUFNEK® with Intelliguard™ Planetary Winch

130,000 lb. Pulling Capacity



Approximate weight: 2,200 lb / 998 kg

PERFORMANCE DATA

2,500 PSI @ 60 GPM / 172 BAR @ 227 LPM

Layer	Low Speed				High Speed				Cable	
	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Capacity (ft)	Capacity (m)
1	130,000	59,706	15	5	65,828	29,853	31	9	53	16
2	107,718	48,850	19	6	53,859	24,425	37	11	118	36
3	91,146	41,335	22	7	45,573	20,667	44	13	194	59
4	78,993	35,823	25	8	39,497	17,912	51	16	283	86
5	69,700	31,609	29	9	34,850	15,804	58	18	383	117
6	62,363	28,282	32	10	31,181	14,141	65	20	495	151

CAUTION:

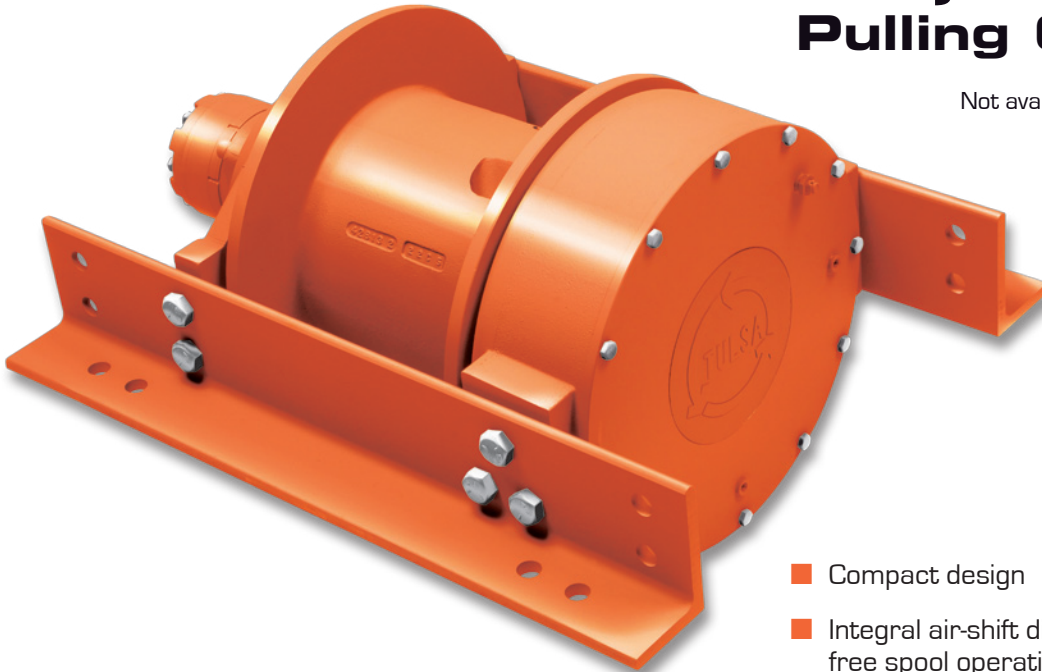
WARNING:

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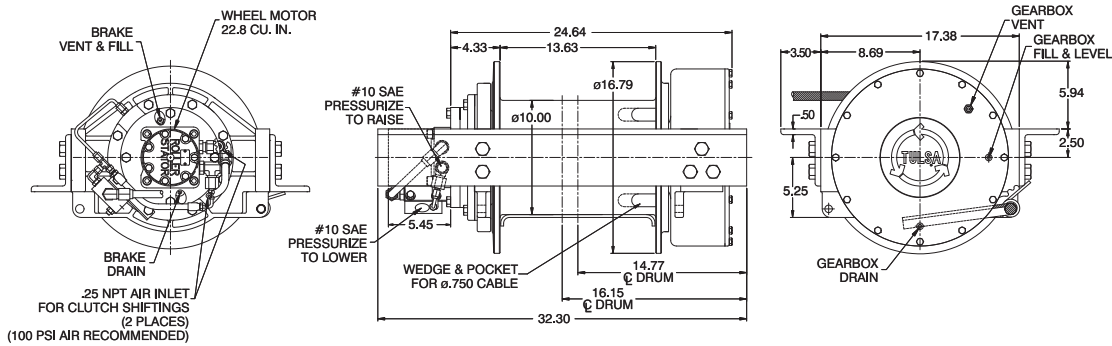
35,000 lb. Pulling Capacity

Not available with the Intelliguard™

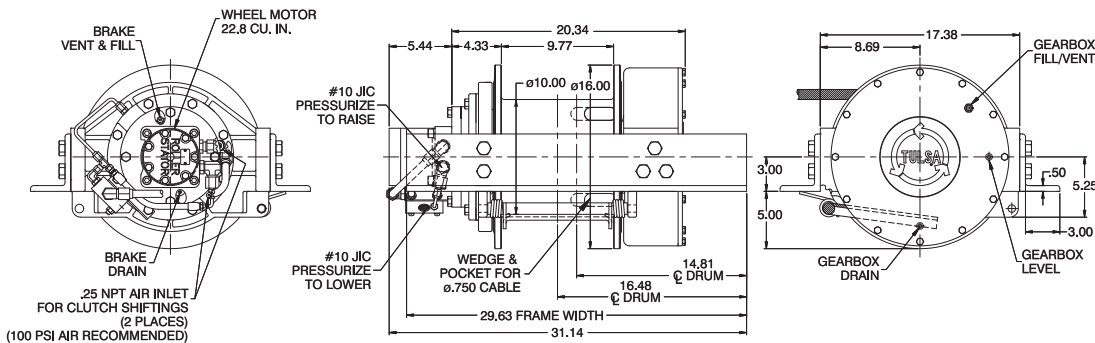


- Compact design
- Integral air-shift disengagement for free spool operation

3541RLA



3541RLB



PERFORMANCE DATA

2,000 PSI @ 30 GPM / 138 BAR @ 114 LPM

Layer	3541RLA (Low Speed)						3541RLB (Low Speed)					
	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Cable Cap. 0.750" Ø (ft)	Cable Cap. 0.750" Ø (m)	Linepull (lb)	Linepull (kg)	Linespeed (fpm)	Linespeed (mpm)	Cable Cap. 0.750" Ø (ft)	Cable Cap. 0.750" Ø (m)
1	35,000	15,876	19	5	46	14	35,000	15,876	19	5	33	10
2	30,722	13,935	21	6	98	30	30,722	13,935	21	6	70	21
3	27,371	12,415	24	7	156	48	27,371	12,415	24	7	113	34

CAUTION:

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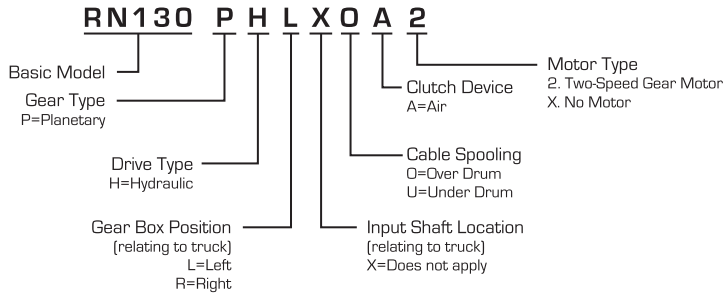
WARNING:

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3541RL

Planetary Hydraulic Winch

Tulsa Winch Model Code



Contact sales@team-twg.com for other options or assembly configurations.



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 Fax: 918-298-8367
www.team-twg.com

Have a Question?

To speak with a Tulsa Winch technical representative or to order Tulsa Winch parts, call us at 918.298.8300 or visit our Web site at www.team-twg.com.

Winches in the brochure are optimized for viewing and not shown to scale. All measurements are in inches. All Tulsa Winch® RUFNEK® Winches are designed in accordance with SAE J706. Because of product improvement, we reserve the right to make changes without notice.

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