

WINCHES

NABRICO winches represent the expertise of people who know and understand the special needs of the towing industry. NABRICO's engineers incorporate over 100 years of experience in the river transportation industry in the development of both specialty and standard winch configurations. A winch designed and built by NABRICO assures you of quality and years of dependable service.



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POWER WINCHES



NABRICO offers a variety of options for your power winch needs. We have multiple options for mounting positions of winches and gearmotors. All of our powered winches except the DF-656 come standard with a galvanized finish and all stainless steel fasteners. NABRICO's power winches are the heaviest in their class and have a simple design that is field serviceable. NABRICO offers a power winch to fit your specific needs.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.

"If I were two-faced, would I be wearing this one?"

—Abraham Lincoln



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DF-1 UPRIGHT ELECTRIC WINCH



FEATURES

- Salt water package standard on all power winches.
- Hot-dipped galvanized.
- Stainless or silicon bronze fasteners.
- 3-ply conveyor belt covers (damage and corrosion resistant).
- 3-tooth locking dog with large release and fail-safe disc brake.
- Provisions for emergency manual operation.
- NEMA motor design with cycloidal gearbox available.
- Control box option: NEMA 4X polycarbonate.
- Minimal maintenance and easy to repair.
- Variable frequency drive option available (Amp draw limits, variable speeds and motor protection).
- Made as one model adjustable to true right or left hand models for use in pairs.
- Over 100 fewer parts than other electric winches (no chain or sprockets).
- Heaviest winch in its class.
- 30 Ton - 5 HP motor standard.
- 40 Ton - 7.5 HP motor standard.
- 50 Ton - 10 HP motor standard.
- 65 Ton - 10 HP motor standard.
- **Other line pulls and speeds available.**

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL	LINE SPEED	DRUM CAPACITIES (FT)					WEIGHT	DIMENSIONAL DATA		
	S. TONS	LBS	FPM	1/2"	5/8"	3/4"	7/8"	1"	LBS	W	L	H
DF-1-30	30	REFER TO DF-1 LINE PULL AND SPEED OPTIONS TABLE		361	228	138	120	66	1700	20"	22"	55"
DF-1-40	40			-	287	180	130	100	1800	21"	24"	67"
DF-1-65	65			-	572	325	262	200	3200	24"	30"	79"
DF-1-100	100			-	572	325	262	200	3500	27-7/8"	30"	80-5/8"

"It is not from the benevolence of the butcher, the brewer, or the baker, that we expect our dinner, but from their regard to their own interest."

—Adam Smith

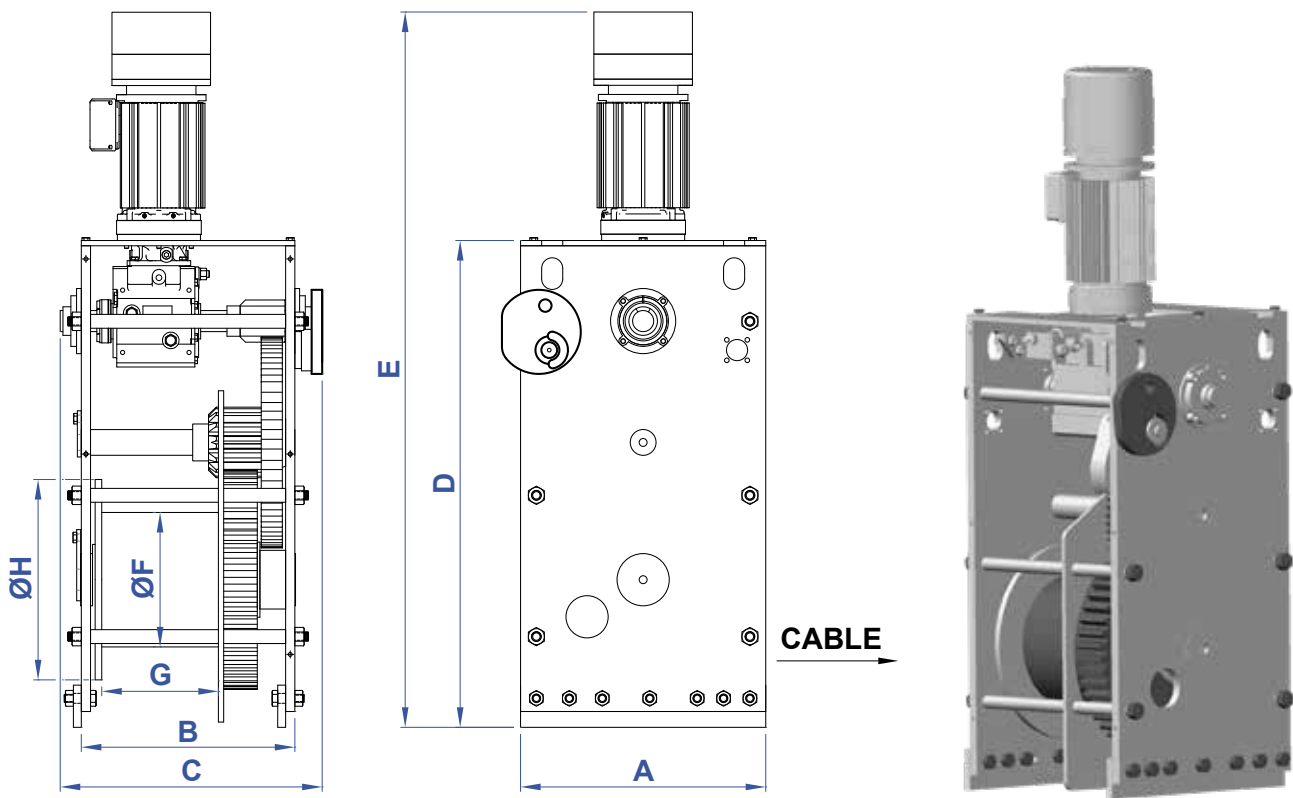
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30 TON UPRIGHT ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83627	83626

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-30	REFER TO COATINGS TABLE	22"	19-3/8"	23"	39"	57-1/2"	10-3/4"	11"	16"	1700

“Little else is requisite to carry a state to the highest degree of opulence from the lowest barbarism but peace, easy taxes, and a tolerable administration of justice: all the rest being brought about by the natural course of things.”

—Adam Smith

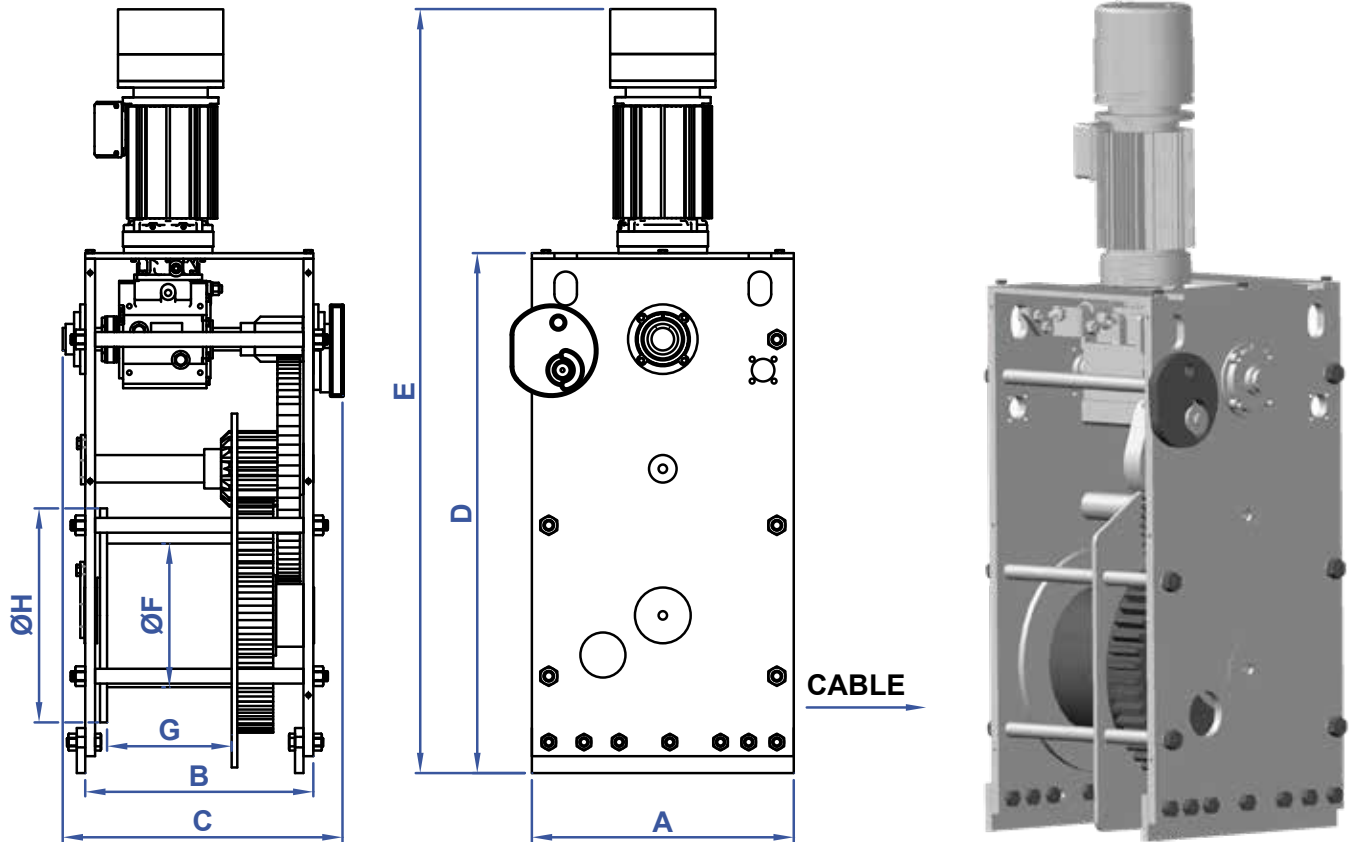


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40 TON UPRIGHT ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83611	83610

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	24"	46-1/8"	70"	12-3/4"	11-1/4"	19"	1800

"They can't collect legal taxes from illegal money."

—Al Capone

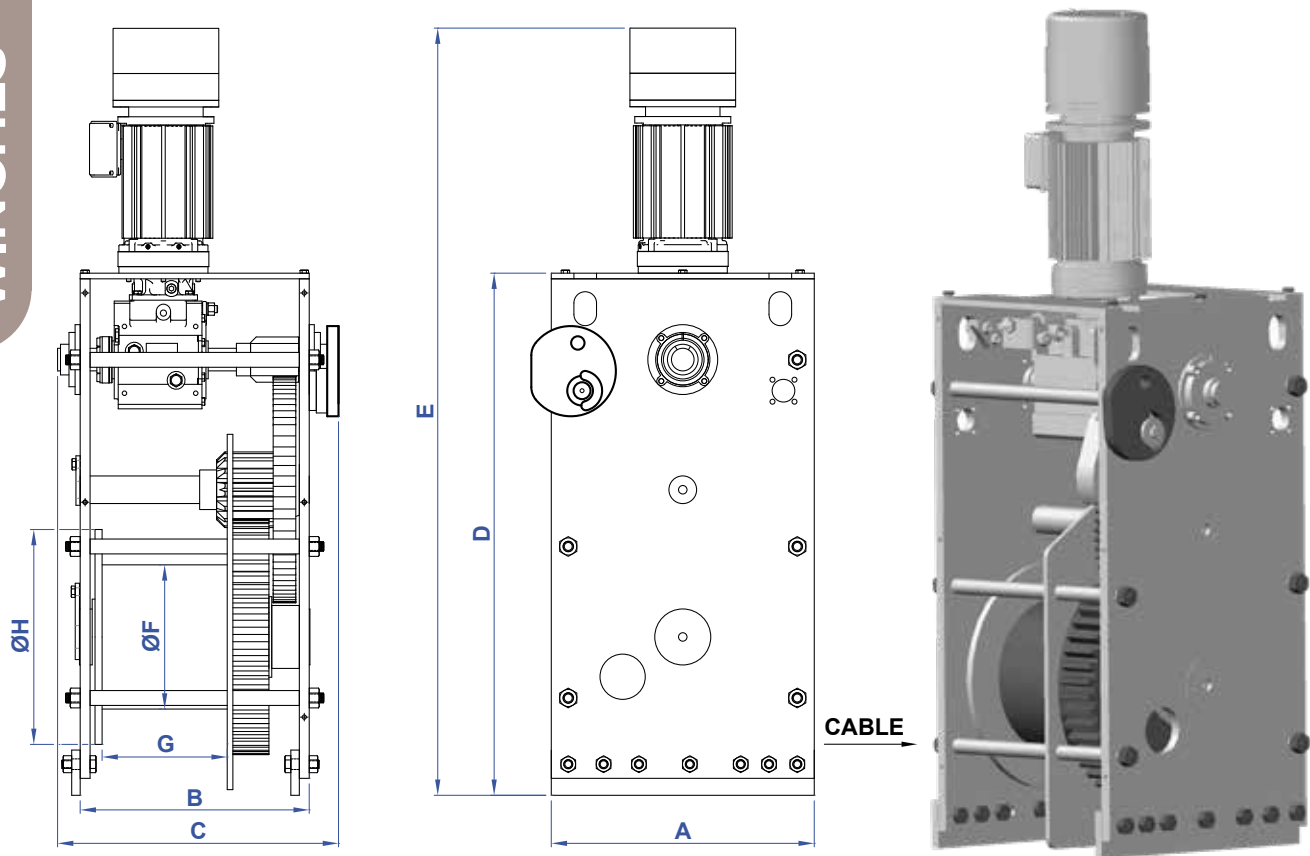
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65 TON UPRIGHT ELECTRIC WINCH



**RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE**

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83617	83616

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	30"	23-1/8"	27"	55-1/2"	81"	14"	10-5/8"	24"	3200

"When I'm on the road, my greatest ambition is to get a standing boo."

—Al Hrabosky



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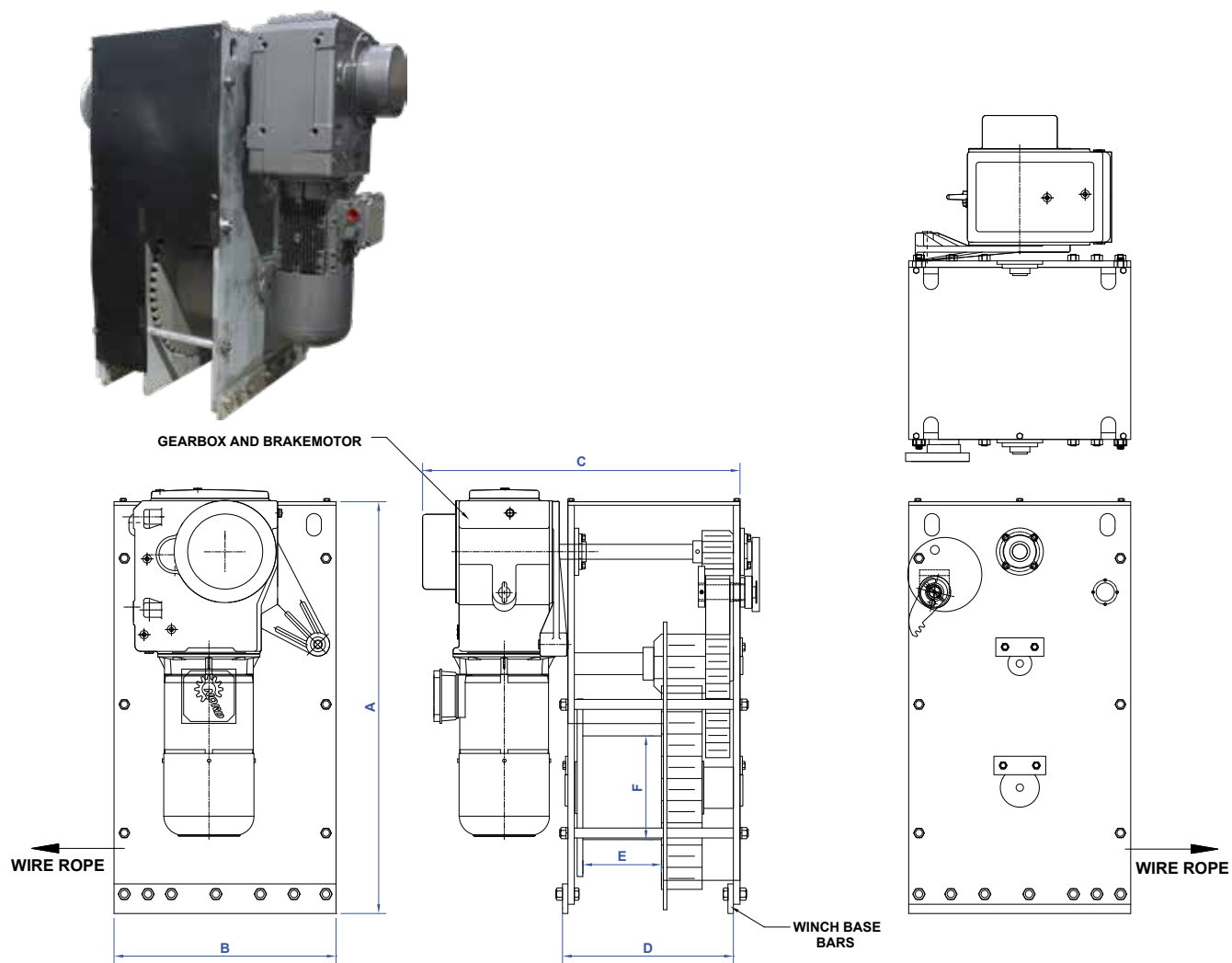
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100 TON UPRIGHT ELECTRIC WINCH

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WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	80186	80185

MODEL No.	PART No.	A	B	C	D	E	ØF	WT. (lbs.)
DF-1-100	REFER TO COATINGS TABLE	55-11/6"	30"	42-7/8"	23-1/8"	10-5/8"	14"	3,367

"In the absence of the gold standard, there is no way to protect savings from confiscation through inflation. There is no safe store of value."

—Alan Greenspan

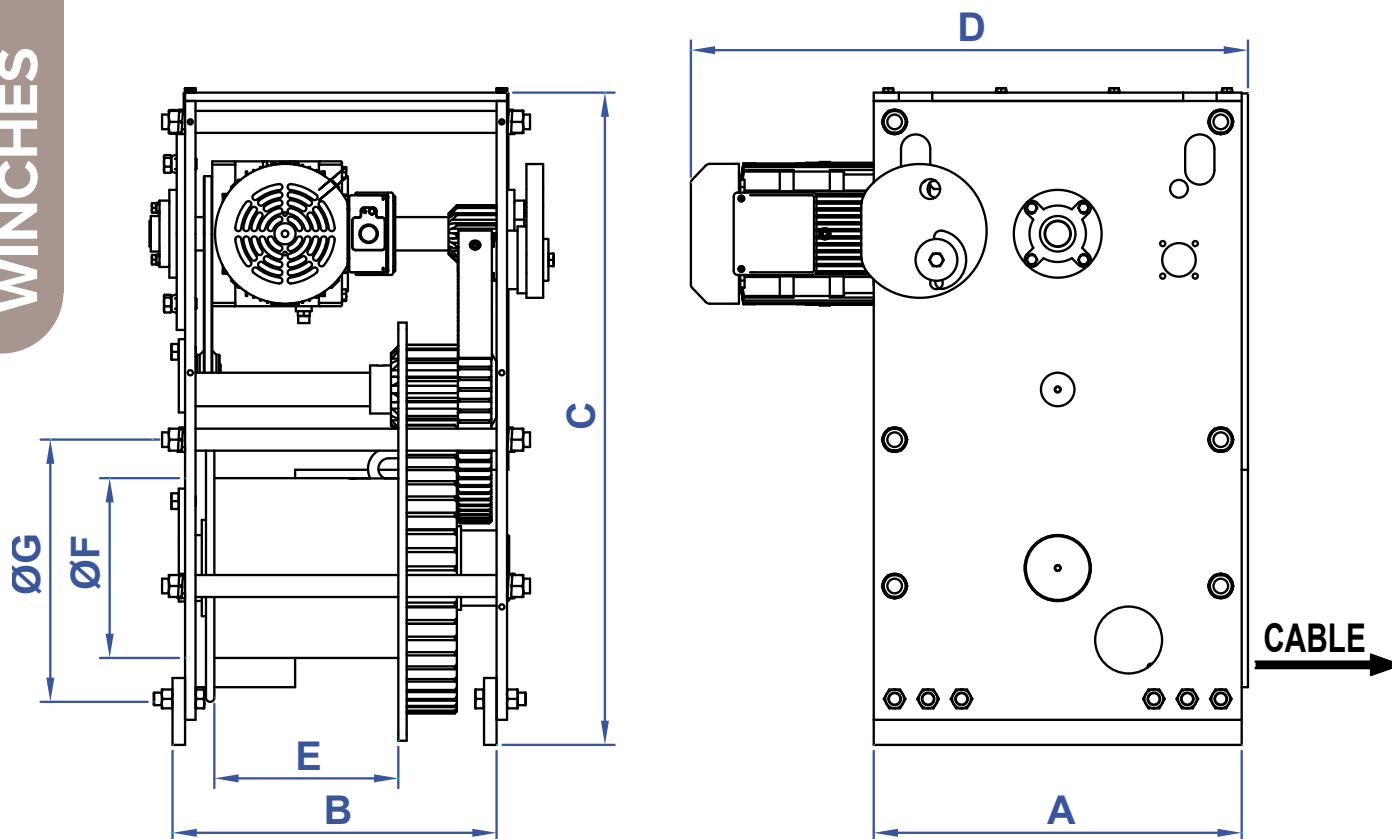
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30 TON HORIZONTAL ELECTRIC WINCH



**RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE**

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83623	83622

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-30	REFER TO COATINGS TABLE	22"	19-3/8"	39"	36"	11-1/4"	10-3/4"	16"	1700

"I guess I should warn you, if I turn out to be particularly clear, you've probably misunderstood what I've said."

—Alan Greenspan



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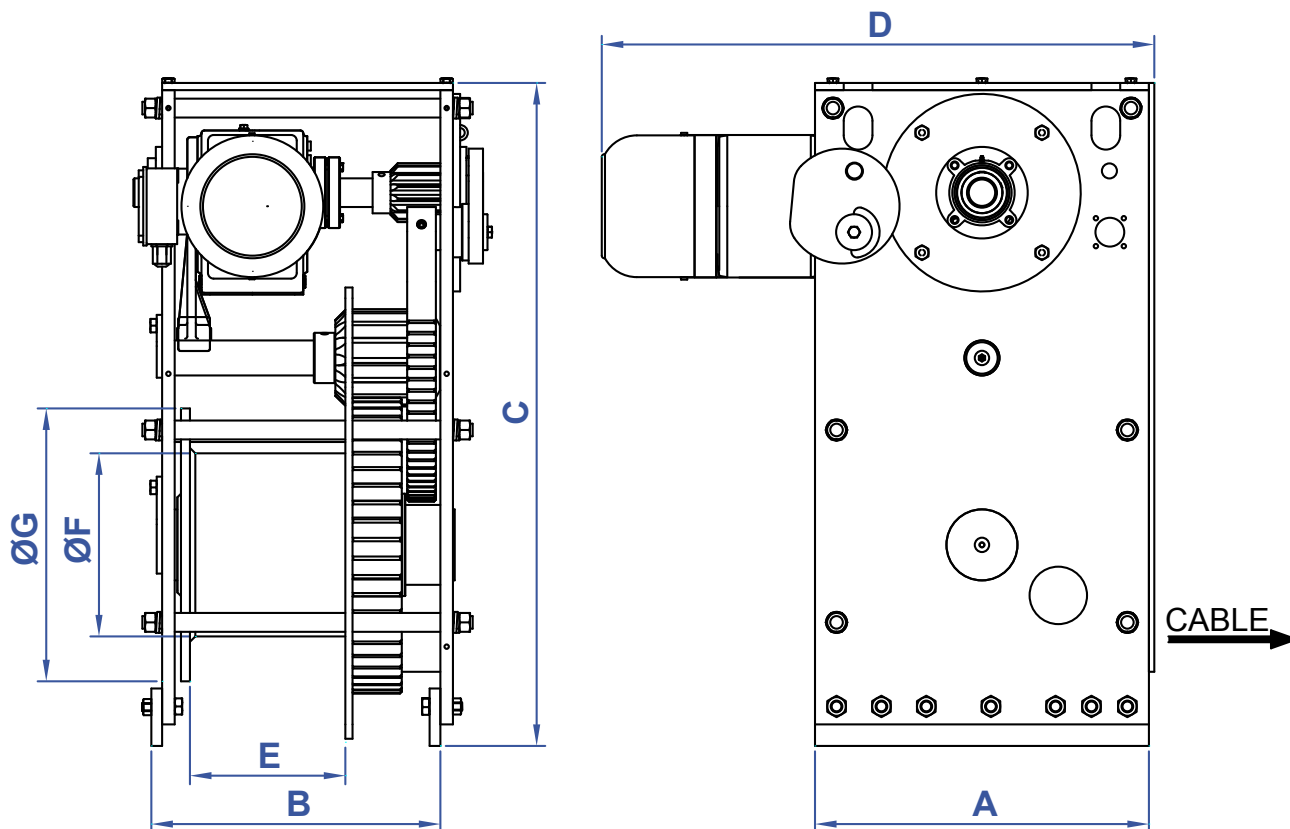
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40 TON HORIZONTAL ELECTRIC WINCH

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WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83609	83608

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	46-1/8"	41"	11-1/4"	12-3/4"	19"	1800

"The true measure of a career is to be able to be content, even proud, that you succeeded through your own endeavors without leaving a trail of casualties in your wake."

—Alan Greenspan

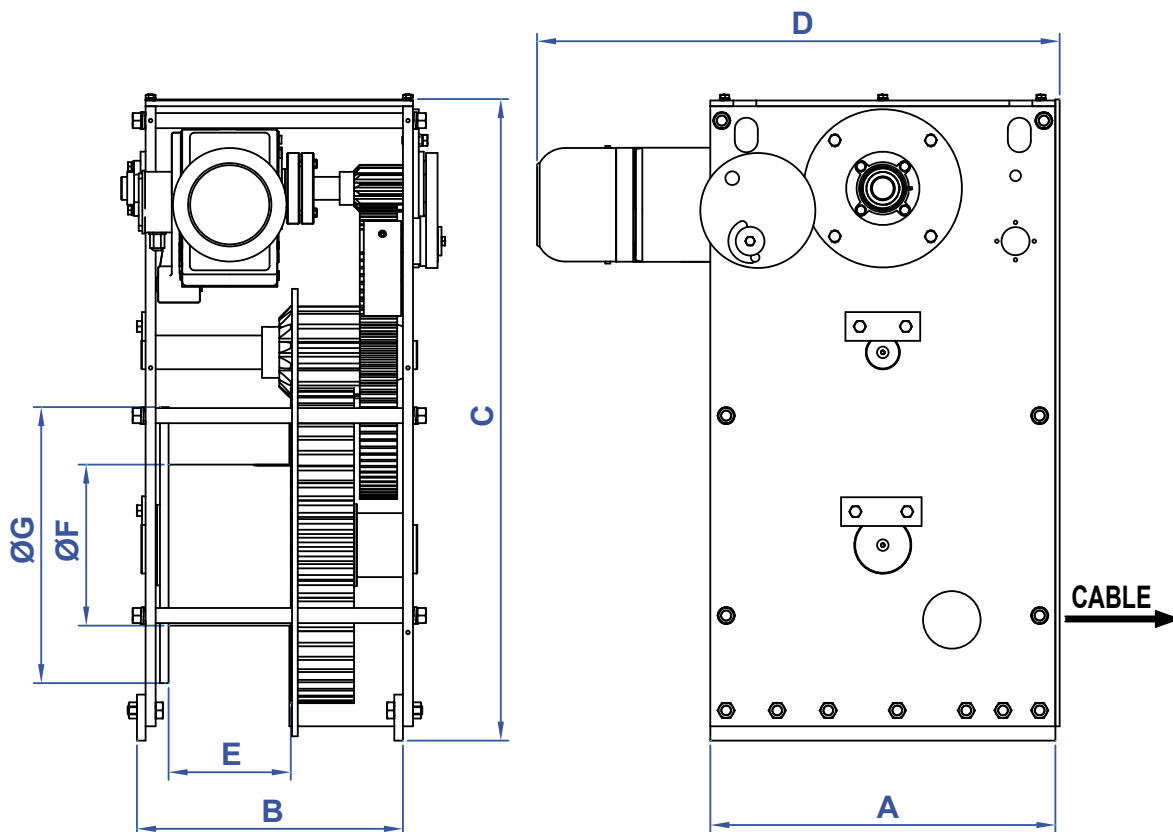
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65 TON HORIZONTAL ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83619	83618

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	30"	23-1/8"	55-1/2"	45-1/2"	10-5/8"	14"	24"	3200

"I was a good amateur but only an average professional. I soon realized that there was a limit to how far I could rise in the music business, so I left the band and enrolled at New York University."

—Alan Greenspan



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DF-1 LINE PULL AND SPEED OPTIONS

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MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-30	5	9032.1	23.91	60	11.1	14,131	42,394	64,427	60,000
DF-1-30	5	9022.1	22.41	60	11.8	13,245	39,734	60,385	60,000
DF-1-30	5	9032.1	20.23	60	13.1	11,956	35,869	54,511	60,000
DF-1-30	5	9022.1	19.93	60	13.3	11,779	35,337	53,702	60,000
DF-1-30	5	9022.1	17.52	60	15.1	10,355	31,064	47,209	60,000
DF-1-30	5	9032.1	17.08	60	15.5	10,095	30,284	46,023	60,000
DF-1-30	5	9022.1	16.3	60	16.3	9,634	28,901	43,921	60,000
DF-1-30	5	9032.1	15.73	60	16.9	9,297	27,890	42,385	60,000
DF-1-30	5	9022.1	14.56	60	18.2	8,605	25,816	39,233	60,000
DF-1-30	5	9032.1	13.49	60	19.7	7,973	23,919	36,350	60,000
DF-1-30	5	9032.1	12.68	60	20.9	7,494	22,482	34,167	60,000
DF-1-30	5	9022.1	12.51	60	21.2	7,394	22,181	33,709	60,000
DF-1-30	5	9022.1	11.13	60	23.8	6,578	19,734	29,990	60,000
DF-1-30	5	9032.1	10.73	60	24.7	6,342	19,025	28,913	60,000
DF-1-30	5	9032.1	8.48	60	31.3	5,012	15,036	22,850	60,000
DF-1-30	7.5	9032.1	8.48	100	31.3	7,518	22,553	38,083	60,000
DF-1-30	7.5	9032.1	10.73	100	24.7	9,512	28,537	48,188	60,000
DF-1-30	7.5	9032.1	12.68	100	20.9	11,241	33,724	56,945	60,000
DF-1-30	7.5	9032.1	13.49	100	19.7	11,959	35,878	60,583	60,000
DF-1-30	7.5	9032.1	15.73	60	16.9	13,945	41,835	42,385	60,000
DF-1-30	7.5	9032.1	17.08	60	15.5	15,142	45,426	46,023	60,000
DF-1-30	7.5	9032.1	20.23	60	13.1	17,934	53,803	54,511	60,000
DF-1-30	7.5	9032.1	23.91	60	11.1	21,197	63,591	64,427	60,000
DF-1-40	5	9032.1	23.91	60	13.2	11,915	35,744	54,960	80,000
DF-1-40	5	9022.1	22.41	60	14	11,167	33,501	51,512	80,000
DF-1-40	5	9032.1	20.23	60	15.5	10,081	30,242	46,501	80,000
DF-1-40	5	9022.1	19.93	60	15.8	9,931	29,794	45,811	80,000
DF-1-40	5	9022.1	17.52	60	18	8,730	26,191	40,272	80,000
DF-1-40	5	9032.1	17.08	60	18.4	8,511	25,533	39,260	80,000
DF-1-40	5	9022.1	16.3	60	19.3	8,122	24,367	37,467	80,000
DF-1-40	5	9032.1	15.73	60	20	7,838	23,515	36,157	80,000
DF-1-40	5	9022.1	14.56	60	21.6	7,255	21,766	33,468	80,000

■ - INDICATES STANDARD MODEL

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DF-1 LINE PULL AND SPEED OPTIONS

MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-40	5	9032.1	13.49	60	23.3	6,722	20,167	31,008	80,000
DF-1-40	5	9032.1	12.68	60	24.8	6,319	18,956	29,146	80,000
DF-1-40	5	9022.1	12.51	60	25.1	6,234	18,702	28,756	80,000
DF-1-40	5	9022.1	11.13	60	28.3	5,546	16,639	25,584	80,000
DF-1-40	5	9032.1	10.73	60	29.3	5,347	16,041	24,664	80,000
DF-1-40	5	9032.1	8.48	60	37.1	4,226	12,677	19,492	80,000
DF-1-40	7.5	9032.1	23.91	100	13.2	17,872	53,616	91,600	80,000
DF-1-40	7.5	9042.1	23.89	100	13.2	17,857	53,571	91,523	80,000
DF-1-40	7.5	9042.1	20.32	100	15.5	15,189	45,566	77,846	80,000
DF-1-40	7.5	9032.1	20.23	100	15.5	15,121	45,364	77,501	80,000
DF-1-40	7.5	9042.1	18.2	100	17.3	13,604	40,812	69,724	80,000
DF-1-40	7.5	9032.1	17.08	100	18.4	12,767	38,300	65,434	80,000
DF-1-40	7.5	9032.1	15.73	100	20	11,758	35,273	60,262	80,000
DF-1-40	7.5	9042.1	15.66	100	20.1	11,705	35,116	59,994	80,000
DF-1-40	7.5	9032.1	13.49	100	23.3	10,083	30,250	51,680	80,000
DF-1-40	7.5	9042.1	13.4	100	23.5	10,016	30,048	51,336	80,000
DF-1-40	7.5	9032.1	12.68	100	24.8	9,478	28,434	48,577	80,000
DF-1-40	7.5	9032.1	10.73	100	29.3	8,020	24,061	41,107	80,000
DF-1-40	7.5	9032.1	8.48	100	37.1	6,339	19,016	32,487	80,000
DF-1-40	10	9042.1	20.32	100	15.5	20,251	60,754	77,846	80,000
DF-1-40	10	9042.1	18.2	100	17.3	18,139	54,416	69,724	80,000
DF-1-40	10	9042.1	15.66	100	20.1	15,607	46,821	59,994	80,000
DF-1-40	10	9042.1	13.4	100	23.5	13,355	40,064	51,336	80,000
DF-1-40	10	9042.1	11.4	100	27.6	11,361	34,084	43,674	80,000
DF-1-40	10	9042.1	10.21	100	30.8	10,176	30,527	39,115	80,000
DF-1-40	10	9042.1	9.39	100	33.5	9,358	28,075	35,973	80,000
DF-1-40	10	9042.1	8.83	100	35.6	8,800	26,400	33,828	80,000
DF-1-65	7.5	9042.1	27.91	60	8.5	27,624	82,872	77,364	130,000
DF-1-65	7.5	9042.1	23.89	60	9.9	23,645	70,935	66,221	130,000
DF-1-65	7.5	9042.1	20.23	60	11.7	20,023	60,068	56,076	130,000
DF-1-65	7.5	9042.1	18.2	60	13.1	18,013	54,040	50,449	130,000
DF-1-65	7.5	9042.1	15.66	60	15.2	15,499	46,498	43,408	130,000



■ - INDICATES STANDARD MODEL

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DF-1 LINE PULL AND SPEED OPTIONS

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MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-65	7.5	9042.1	13.4	60	17.7	13,263	39,788	37,144	130,000
DF-1-65	10	9042.1	27.91	100	8.5	36,832	110,496	128,941	130,000
DF-1-65	10	9042.1	23.89	100	9.9	31,527	94,580	110,369	130,000
DF-1-65	10	9042.1	20.32	100	11.7	26,816	80,447	93,876	130,000
DF-1-65	10	9042.1	18.2	100	13.1	24,018	72,054	84,082	130,000
DF-1-65	10	9042.1	15.66	100	15.2	20,666	61,998	72,347	130,000
DF-1-65	10	9042.1	13.4	100	17.7	17,684	53,051	61,906	130,000
DF-1-65	10	9042.1	11.4	100	20.8	15,044	45,133	52,667	130,000
DF-1-65	10	9042.1	10.21	100	23.3	13,474	40,421	47,169	130,000
DF-1-65	10	9042.1	9.39	100	25.3	12,392	37,175	43,381	130,000
DF-1-65	10	9042.1	8.83	100	26.9	11,653	34,958	40,793	130,000
DF-1-65	15	9042.1	27.91	100	8.5	55,248	165,743	128,941	130,000
DF-1-65	15	9042.1	23.89	100	9.9	47,290	141,871	110,369	130,000
DF-1-65	15	9042.1	20.32	100	11.7	40,223	120,670	93,876	130,000
DF-1-65	15	9052.1	19.91	150	11.9	39,412	118,236	137,972	130,000
DF-1-65	15	9042.1	18.2	150	13.1	36,027	108,081	126,122	130,000
DF-1-65	15	9052.1	17.94	150	13.2	35,512	106,537	124,321	130,000
DF-1-65	15	9052.1	16.33	150	14.5	32,325	96,976	113,164	130,000
DF-1-65	15	9042.1	15.66	150	15.2	30,999	92,997	108,521	130,000
DF-1-65	15	9052.1	13.45	150	17.7	26,624	79,873	93,206	130,000
DF-1-65	15	9042.1	13.4	150	17.7	26,525	79,576	92,859	130,000
DF-1-65	15	9052.1	11.88	250	20	23,516	70,549	137,210	130,000
DF-1-65	15	9042.1	11.4	250	20.8	22,566	67,699	131,666	130,000
DF-1-65	15	9052.1	10.71	250	22.2	21,200	63,601	123,697	130,000
DF-1-65	15	9042.1	10.21	250	23.3	20,211	60,632	117,922	130,000
DF-1-65	15	9052.1	9.93	250	23.9	19,656	58,969	114,688	130,000
DF-1-65	15	9052.1	9.4	250	25.3	18,607	55,822	108,567	130,000
DF-1-65	15	9042.1	9.39	250	25.3	18,588	55,763	108,451	130,000
DF-1-65	15	9042.1	8.83	250	26.9	17,479	52,437	101,984	130,000
DF-1-65	15	9052.1	8.1	250	29.3	16,034	48,102	93,552	130,000
DF-1-100	15	9072.1	35.19	250	10	47,200	141,600	200,000	200,000

■ - INDICATES STANDARD MODEL

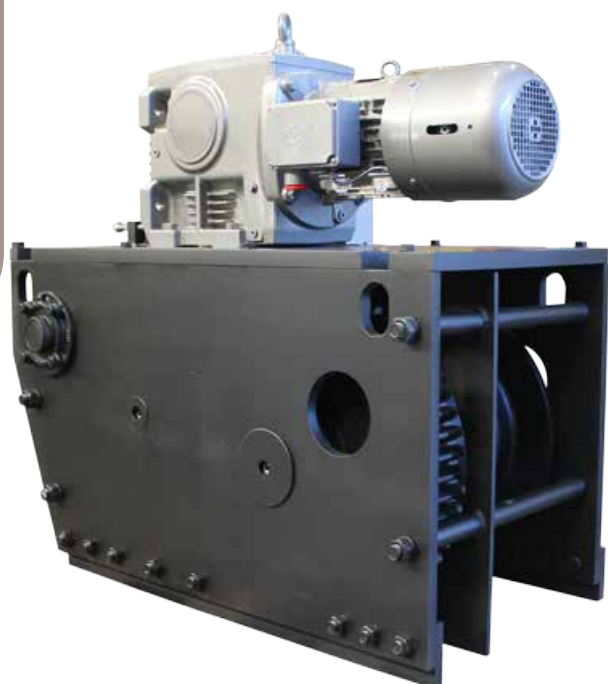
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DF-656 ELECTRIC WINCH



FEATURES

- Free-wheeling cable pull out.
- Handwheel provision for manual operation.
- Oversized sprockets and chain.
- Inverter/vector duty marine double coated epoxy dipped motor.
- Moisture resistant varnish dipped motor windings with tropical protection.
- Insulation system conforms NEMA MG1-1998, section 31.4.4.2.
- Mechanical locking dog.
- Minimal maintenance.
- Precision machined side plates, gears and shafts to maintain proper gear tooth engagement and minimize wear.
- Winch blasted near-white with a 3-part marine grade epoxy paint standard.
- Gearmotor painted with aliphatic polyurethane paint with 316 stainless steel flake and is very corrosion resistant.
- Galvanized coating in stock.

MODEL No.	LINE SPEED (FPM)	LINE PULL (LBS)	DOG HOLDING (LBS)	DRUM CAPACITIES (FT)				DIMENSIONAL DATA			WT. (lbs.)
				5/8"	3/4"	7/8"	1"	W	L	H	
DF-656-40	REFER TO DF-656 LINE PULL AND SPEED OPTIONS TABLE	80,000	80,000	287	180	130	100	27-3/4"	41-1/2"	39-1/4"	2,040
DF-656-65			120,000	572	325	262	200	30-3/4"	54"	46-1/2"	3,100

"To succeed, you will soon learn, as I did, the importance of a solid foundation in the basics of education - literacy, both verbal and numerical, and communication skills."

—Alan Greenspan

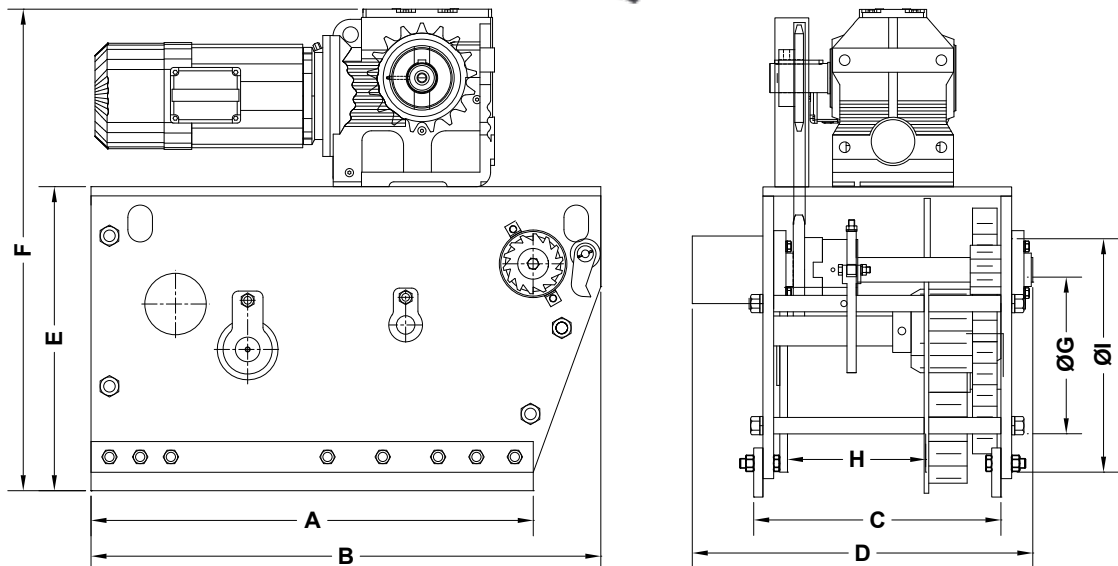
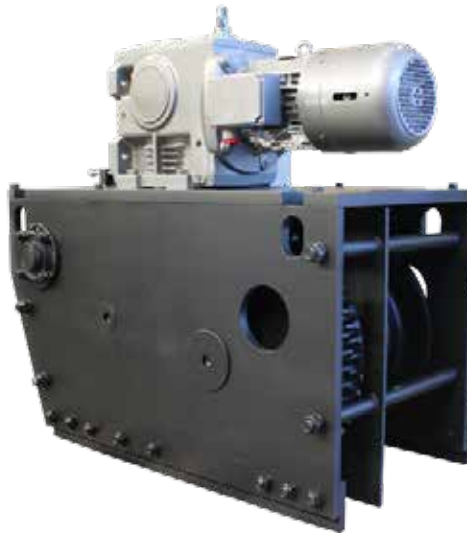


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DF-656 ELECTRIC WINCH



COATINGS	UNIVERSAL
PAINTED	65600
GALVANIZED	65603

MODEL No.	PART No.	A	B	C	D	E	F	ØG	H	ØI	WT. (lbs.)
DF-656-40-E	REFER TO COATINGS TABLE	36"	41-1/2"	20-1/8"	27-3/4"	24-3/4"	39-1/4"	12-3/4"	11-1/4"	19"	2040

"Whatever you tax, you get less of."

—Alan Greenspan

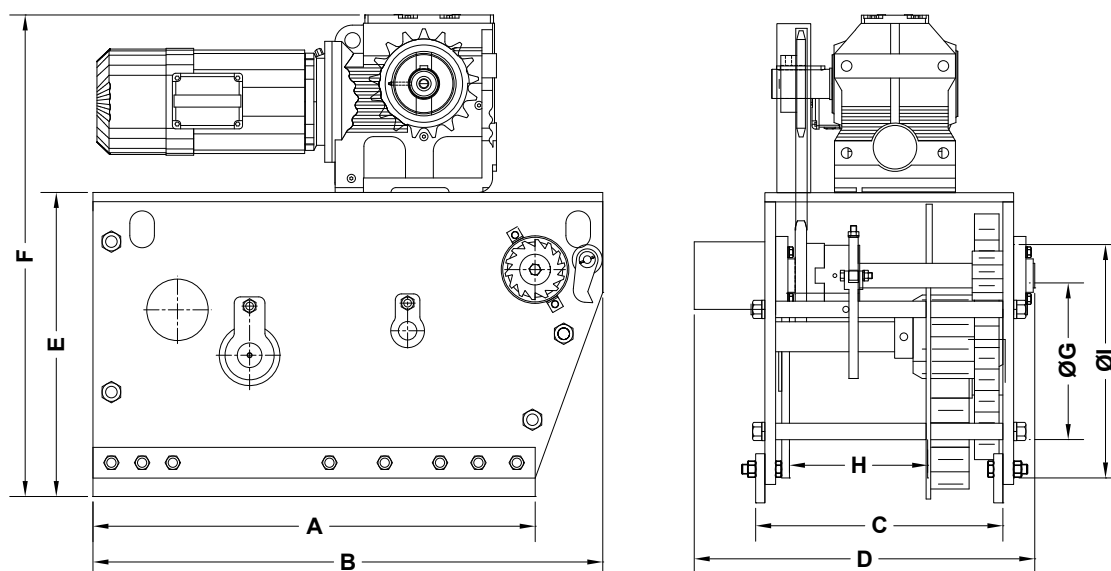
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DF-656 ELECTRIC WINCH



MODEL No.	A	B	C	D	E	F	ØG	H	ØI
DF-656-65-E	47"	54"	23-1/8"	30-3/4"	32"	46-1/2"	14"	10-5/8"	24"

"Anything that we can do to raise personal savings is very much in the interest of this country."

—Alan Greenspan



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DF-656 LINE PULL AND SPEED OPTIONS

BR
WINCHES

MODEL	MOTOR SIZE (HP)	GEAR-BOX MODEL	GEAR-BOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-656-40	5	SK 42125	31.82	40	9.3	15,074	45,222	57,904	80,000
DF-656-40	5	SK 42125	31.82	60	9.3	15,074	45,222	86,856	80,000
DF-656-40	5	SK 42125	25.83	40	11.5	12,236	36,709	47,004	80,000
DF-656-40	5	SK 42125	25.83	60	11.5	12,236	36,709	70,505	80,000
DF-656-40	5	SK 42125	22.11	40	13.4	10,474	31,422	40,234	80,000
DF-656-40	5	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	5	SK 42125	18.80	40	15.7	8,906	26,718	34,211	80,000
DF-656-40	5	SK 42125	18.80	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	5	SK 42125	15.92	40	18.6	7,542	22,625	28,970	80,000
DF-656-40	5	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	5	SK 42125	12.93	40	22.9	6,125	18,376	23,529	80,000
DF-656-40	5	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	7.5	SK 42125	25.83	60	11.5	12,236	36,709	70,505	80,000
DF-656-40	7.5	SK 42125	25.83	100	11.5	12,236	36,709	117,509	80,000
DF-656-40	7.5	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	7.5	SK 42125	18.8	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	7.5	SK 42125	18.8	100	15.7	8,906	26,718	85,527	80,000
DF-656-40	7.5	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	7.5	SK 42125	15.92	100	18.6	7,542	22,625	72,425	80,000
DF-656-40	7.5	SK 42125	14.57	60	20.3	6,902	20,706	39,770	80,000
DF-656-40	7.5	SK 42125	14.57	100	20.3	6,902	20,706	66,284	80,000
DF-656-40	7.5	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	7.5	SK 42125	12.93	100	22.9	6,125	18,376	58,823	80,000
DF-656-40	7.5	SK 42125	11.06	60	26.8	5,239	15,718	30,189	80,000
DF-656-40	7.5	SK 42125	11.06	100	26.8	5,239	15,718	50,316	80,000
DF-656-40	7.5	SK 42125	9.41	60	31.5	4,458	13,373	25,686	80,000
DF-656-40	7.5	SK 42125	9.41	100	31.5	4,458	13,373	42,809	80,000
DF-656-40	10	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	10	SK 42125	18.8	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	10	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	10	SK 42125	15.92	100	18.6	7,542	22,625	72,425	80,000
DF-656-40	10	SK 42125	14.57	60	20.3	6,902	20,706	39,770	80,000
DF-656-40	10	SK 42125	14.57	100	20.3	6,902	20,706	66,284	80,000
DF-656-40	10	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	10	SK 42125	12.93	100	22.9	6,125	18,376	58,823	80,000
DF-656-65	7.5	SK 42125	25.83	60	8.7	24,304	72,911	85,024	120,000
DF-656-65	7.5	SK 42125	22.11	60	10.1	20,804	62,411	72,779	120,000
DF-656-65	7.5	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	7.5	SK 42125	18.80	60	11.9	17,689	53,068	61,883	120,000

■ - INDICATES STANDARD MODEL

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DF-656 LINE PULL AND SPEED OPTIONS

MODEL	MOTOR SIZE (HP)	GEAR-BOX MODEL	GEAR-BOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-656-65	7.5	SK 42125	18.80	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	7.5	SK 42125	15.92	60	14.0	14,979	44,938	52,403	120,000
DF-656-65	7.5	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	7.5	SK 42125	14.57	60	15.3	13,709	41,127	47,959	120,000
DF-656-65	7.5	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	7.5	SK 42125	12.93	60	17.3	12,166	36,498	42,561	120,000
DF-656-65	7.5	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	10	SK 42125	25.83	60	8.7	24,304	72,911	85,024	120,000
DF-656-65	10	SK 42125	25.83	100	8.7	24,304	72,911	141,706	120,000
DF-656-65	10	SK 42125	22.11	60	10.1	20,804	62,411	72,779	120,000
DF-656-65	10	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	10	SK 42125	18.8	60	11.9	17,689	53,068	61,883	120,000
DF-656-65	10	SK 42125	18.8	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	10	SK 42125	15.92	60	14.0	14,979	44,938	52,403	120,000
DF-656-65	10	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	10	SK 42125	14.57	60	15.3	13,709	41,127	47,959	120,000
DF-656-65	10	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	10	SK 42125	12.93	60	17.3	12,166	36,498	42,561	120,000
DF-656-65	10	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	10	SK 42125	11.06	60	20.2	10,407	31,220	36,406	120,000
DF-656-65	10	SK 42125	11.06	100	20.2	10,407	31,220	60,676	120,000
DF-656-65	10	SK 42125	9.41	60	23.8	8,854	26,562	30,975	120,000
DF-656-65	10	SK 42125	9.41	100	23.8	8,854	26,562	51,624	120,000
DF-656-65	15	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	15	SK 42125	18.8	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	15	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	15	SK 42125	15.92	150	14.0	14,979	44,938	131,008	120,000
DF-656-65	15	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	15	SK 42125	14.57	150	15.3	13,709	41,127	119,899	120,000
DF-656-65	15	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	15	SK 42125	12.93	150	17.3	12,166	36,498	106,403	120,000
DF-656-65	15	SK 42125	11.06	100	20.2	10,407	31,220	60,676	120,000
DF-656-65	15	SK 42125	11.06	150	20.2	10,407	31,220	91,014	120,000
DF-656-65	15	SK 42125	9.41	100	23.8	8,854	26,562	51,624	120,000
DF-656-65	15	SK 42125	9.41	150	23.8	8,854	26,562	77,436	120,000
DF-656-65	15	SK 42125	8.43	100	26.5	7,932	23,796	46,248	120,000
DF-656-65	15	SK 42125	8.43	150	26.5	7,932	23,796	69,372	120,000
DF-656-65	15	SK 42125	7.76	100	28.8	7,301	21,904	42,572	120,000
DF-656-65	15	SK 42125	7.76	150	28.8	7,301	21,904	63,858	120,000

■ - INDICATES STANDARD MODEL

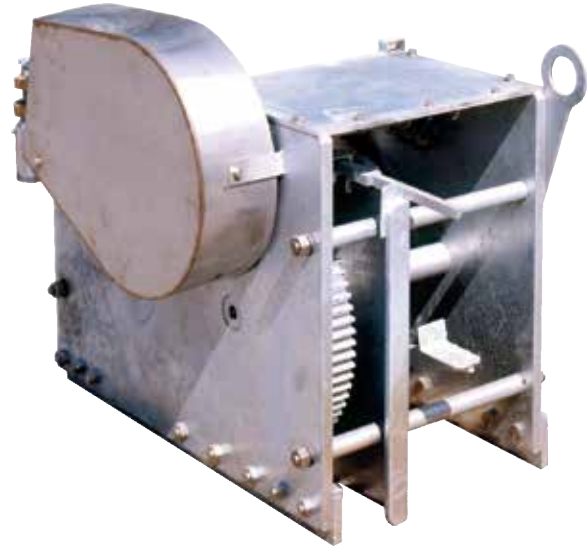


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HYDRA-ELECTRIC WINCH



- SELF-CONTAINED HYDRAULIC / ELECTRIC POWER UNIT WITH STAINLESS STEEL TANK.
- WINCH OPERATION CAN ALSO BE ACHIEVED BY CUSTOMER SUPPLIED HYDRAULIC POWER OR REMOTE MOUNTED POWER SUPPLY.
- FAIL-SAFE BRAKE.
- MECHANICAL DOG FOR EMERGENCY MANUAL OPERATION.
- HOT-DIPPED GALVANIZED STANDARD.
- FREE WHEELING FEATURE TO ALLOW FASTER CABLE PULL-OUT.
- STAINLESS STEEL COMPONENTS: GUARDS, TANKS AND FASTENERS.
- FULLY SYNTHETIC BIODEGRADABLE HYDRAULIC FLUID.
- TRUE LEFT OR RIGHT HAND MODELS FOR USE IN PAIRS.
- HYDRAULIC SYSTEM PREVENTS POWER SPIKES.

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER (LBS)		DRUM CAPACITIES (FT)				LINE SPEED	WT	DIMENSIONAL DATA		
	S. TONS	HYDRA ELECTRIC	HANDWHEEL ONE MAN	5/8"	3/4"	7/8"	1"	FPM	LBS	W	L	H
DF-156-10-6-HE	10	3,150 LBS @ 1,100 PSI	7,000	174	129	-	-	23.5	897	10-5/16"	22-1/2"	42-3/8"
DF-156-20-7-HE	20	10,500 LBS @ 1,800 PSI	14,000	109	57	39	21	17.2	1,284	15-1/2"	30"	41"
DF-156-40-11-HE	40	23,000 LBS @ 1,800 PSI	15,000	287	176	130	84	12.8	1,930	20-1/8"	36"	40"
DF-156-40-18-HE	40	23,000 LBS @ 1,800 PSI	15,000	463	279	151	139	12.8	2,500	39-1/2"	36"	40"
DF-156-60-11-HE	60	33,480 LBS @ 2,200 PSI	24,000	572	325	262	200	9.9	3,460	23-1/8"	46-7/8"	51"

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HYDRA-ELECTRIC WINCH - REMOTE POWER PACK



SHUTTLE VALVE WINCH



CONTROL BOX



REMOTE POWER PACK

“We really can’t forecast all that well, and yet we pretend that we can, but we really can’t.”

—Alan Greenspan



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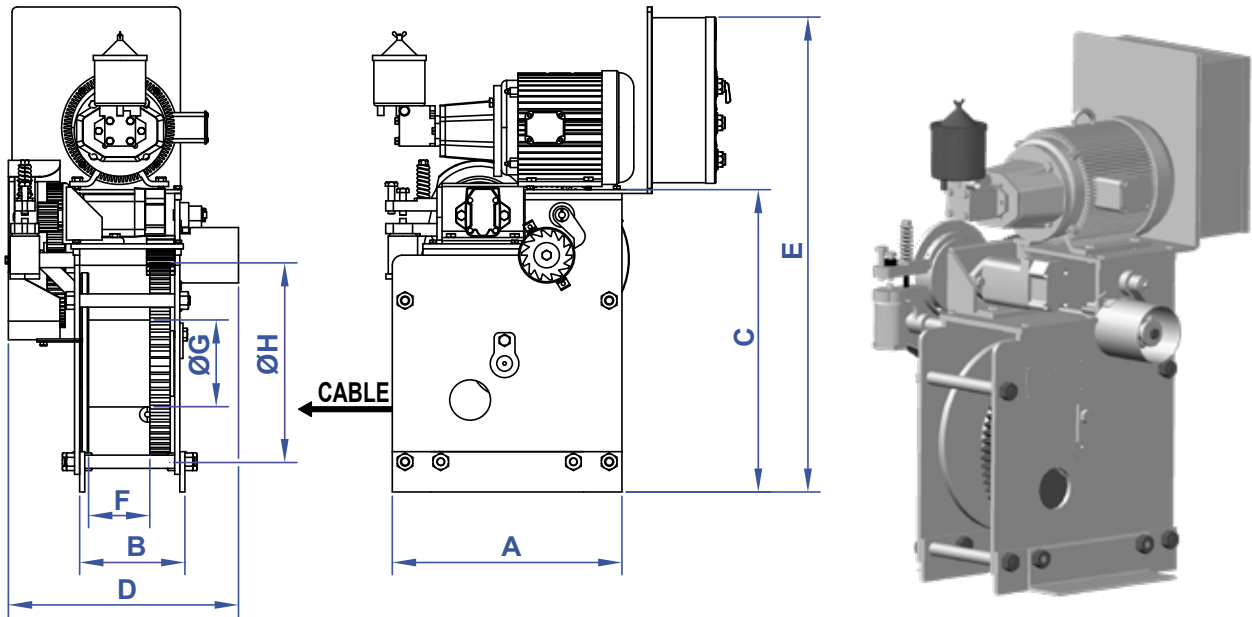
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10 TON HYDRA-ELECTRIC WINCH

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	72478	72486

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-10	REFER TO COATINGS TABLE	22-1/2"	10-3/8"	25"	22-1/2"	40"	8-5/8"	6"	18"	900

"Fear is a far more dominant force in human behaviour than euphoria—I would never have expected that or given it a moment's thought before, but it shows up in the data in so many ways."

—Alan Greenspan

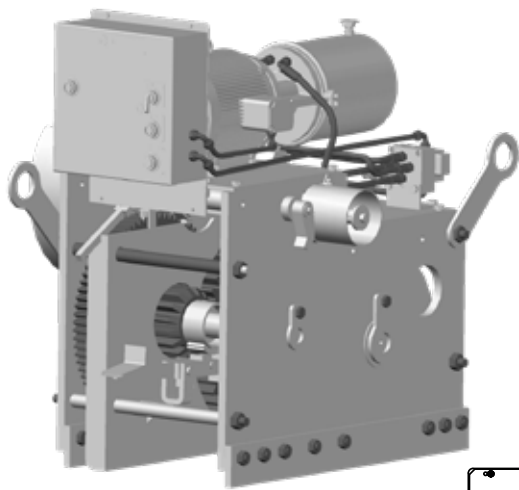
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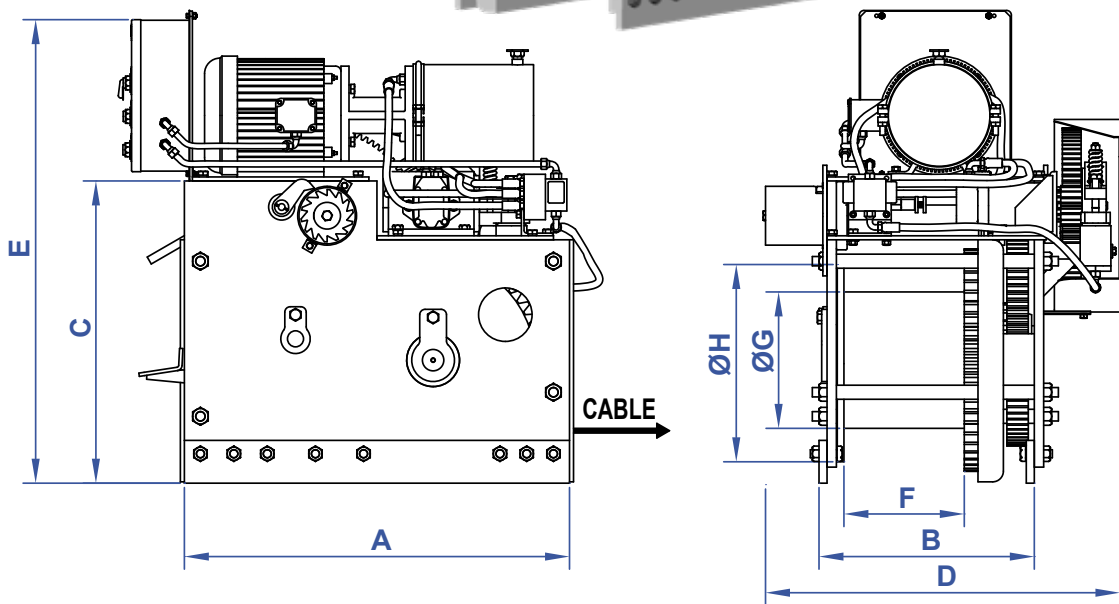


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20 TON HYDRA-ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	87580	87599

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-20	REFER TO COATINGS TABLE	30"	15-3/8"	25-3/4"	28"	41-1/4"	7-1/4"	10-3/4"	16"	1300

“I have found no greater satisfaction than achieving success through honest dealing and strict adherence to the view that, for you to gain, those you deal with should gain as well.”

—Alan Greenspan



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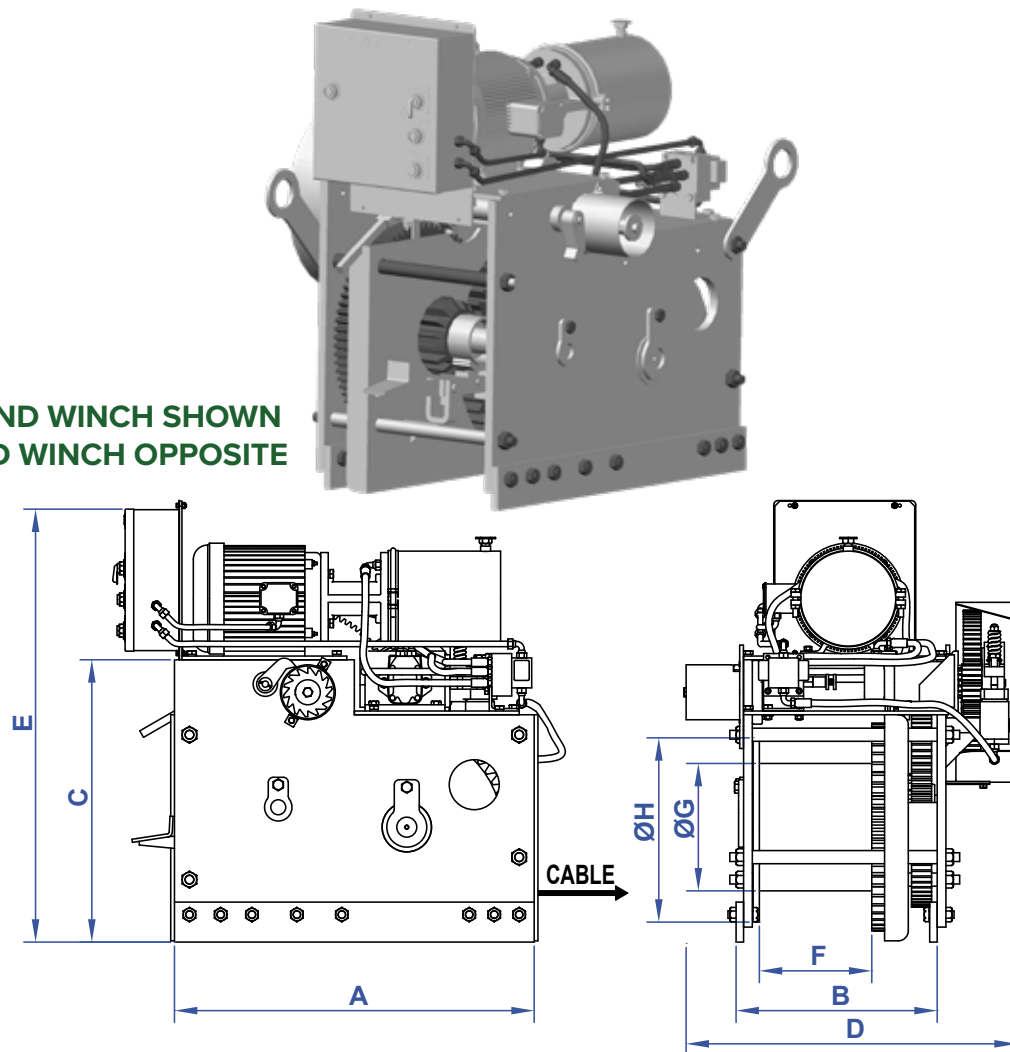
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40 TON HYDRA-ELECTRIC WINCH

BR

WINCHES

RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	DRUM WIDTH	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	11-1/4"	87297	87300
GALVANIZED	18-1/8"	87273	87291

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-40-11	REFER TO COATINGS TABLE	36"	20-1/8"	28-5/8"	32-1/2"	44-1/8"	11-1/4"	12-3/4"	19"	2100
DF-156-40-18	REFER TO COATINGS TABLE	36"	27-1/4"	28-5/8"	39-1/2"	44-1/8"	18-1/4"	12-3/4"	19"	2,500

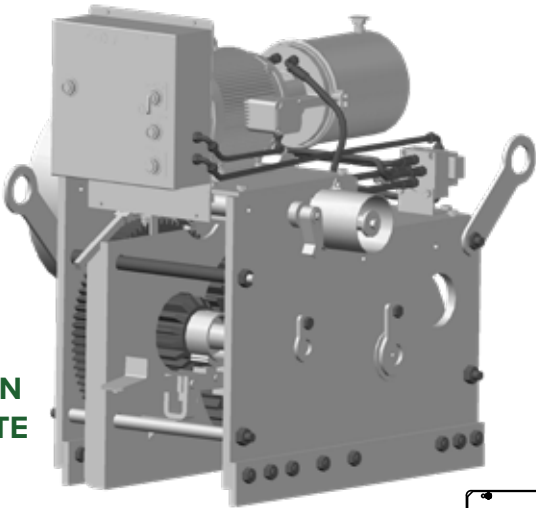
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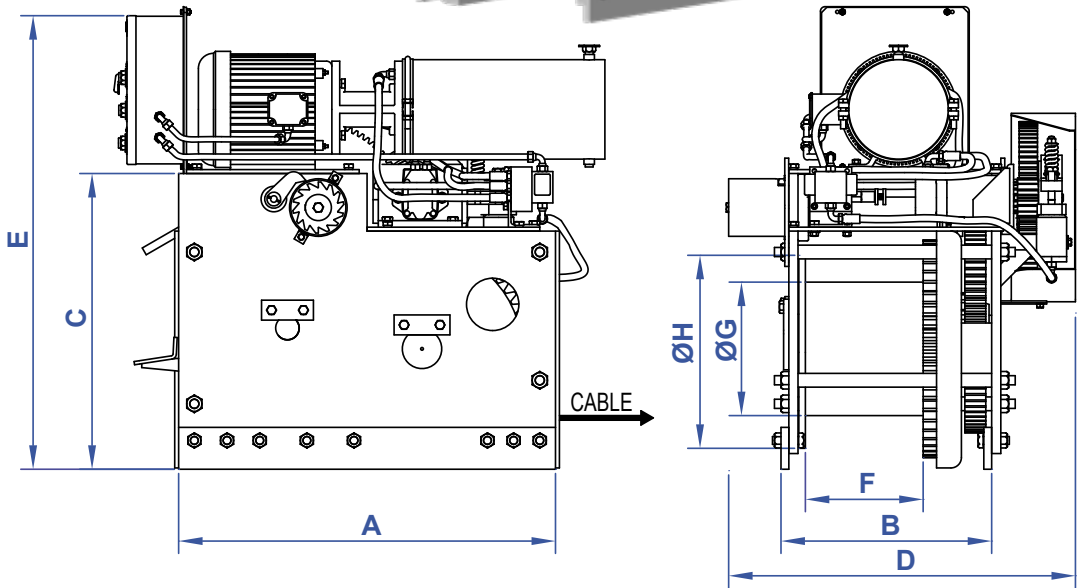


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60 TON HYDRA-ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	87726	87734

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-60	REFER TO COATINGS TABLE	47"	23-1/8"	36-1/4"	36"	51-3/4"	10-5/8"	14"	24"	3460

“Markets do very weird things because it reacts to how people behave, and sometimes people are a little screwy.”

—Alan Greenspan

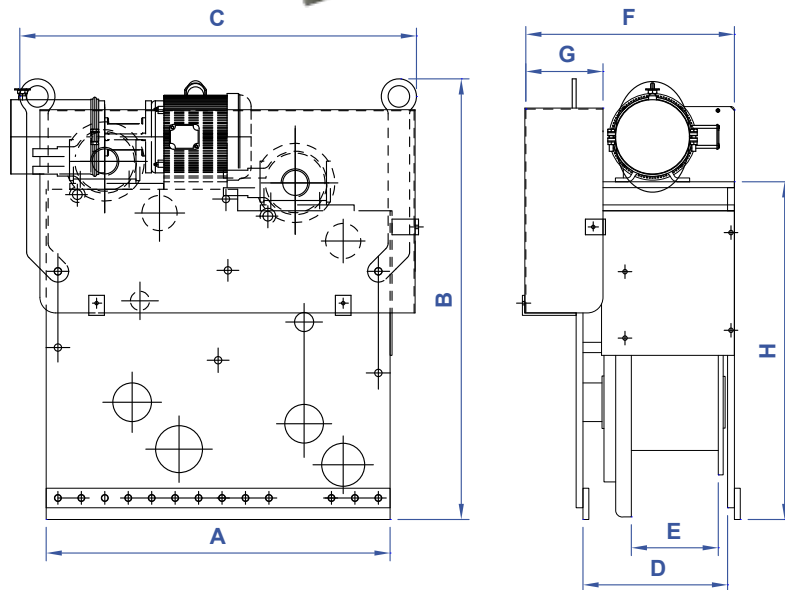


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40 TON DOUBLE DRUM WINCH



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	75159	75167

MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-156-40-DD-HE	REFER TO COATING TABLE	44"	56-3/8"	50-3/4"	18-1/2"	11-1/8"	26-5/8"	9-7/8"	43-1/4"	3100

"Crony capitalism is essentially a condition in which... public officials are giving favours to people in the private sector in payment of political favours."

—Alan Greenspan

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SPUD WINCH



NABRICO's DF-1 Electric Spud winch has the same proven design as our DF-1 electric winch with some added features to handle the demands of a spud barge. A handwheel has been added to the winch for operation in the situations when the winch may not have power. In order to expedite lowering of the spud, a manual clutch has been installed along with a hand operated disc brake. This winch is available in our 40 and 65 ton styles. When ordering this winch, please specify length of spud travel, line speed and line pull required.

"The fundamental source of all your errors, sophisms, and false reasoning, is a total ignorance of the natural rights of mankind. Were you once to become acquainted with these, you could never entertain a thought, that all men are not, by nature, entitled to a parity of privileges. You would be convinced, that natural liberty is a gift of the beneficent Creator, to the whole human race; and that civil liberty is founded in that; and cannot be wrested from any people, without the most manifest violation of justice."

—Alexander Hamilton



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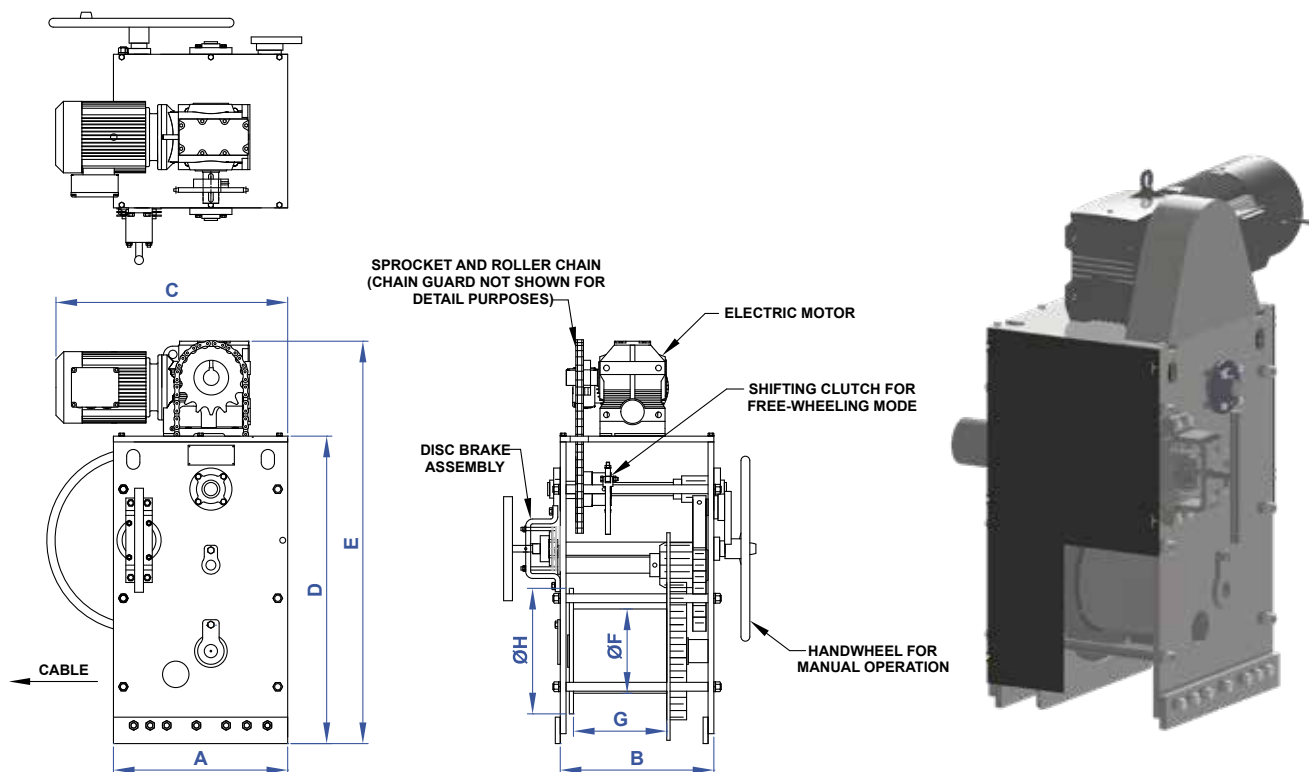
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40 TON UPRIGHT SPUD WINCH

BR

WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	84023	84022

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	26-3/8"	23-1/8"	34"	46-1/2"	61"	12-3/4"	14-1/8"	19"	2100

"The sacred rights of mankind are not to be rummaged for among old parchments or musty records. They are written, as with a sunbeam, in the whole volume of human nature, by the hand of the divinity itself, and can never be erased or obscured by mortal power."

—Alexander Hamilton

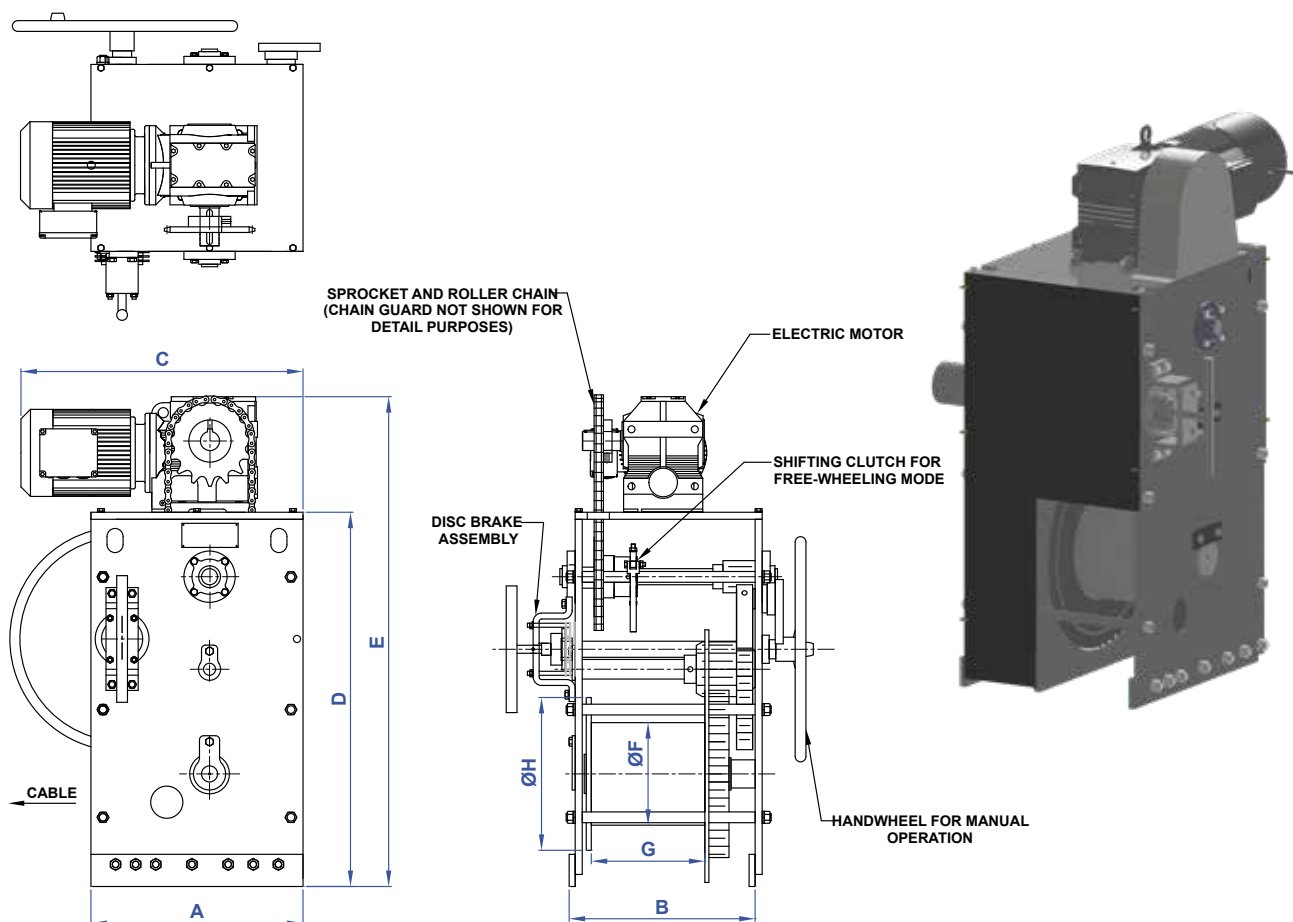
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65 TON UPRIGHT SPUD WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83403	83402

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	32"	26-1/8"	38-1/2"	56"	70-1/2"	14"	13-5/8"	24"	2800

"The best we can hope for concerning the people at large is that they be properly armed."

—Alexander Hamilton

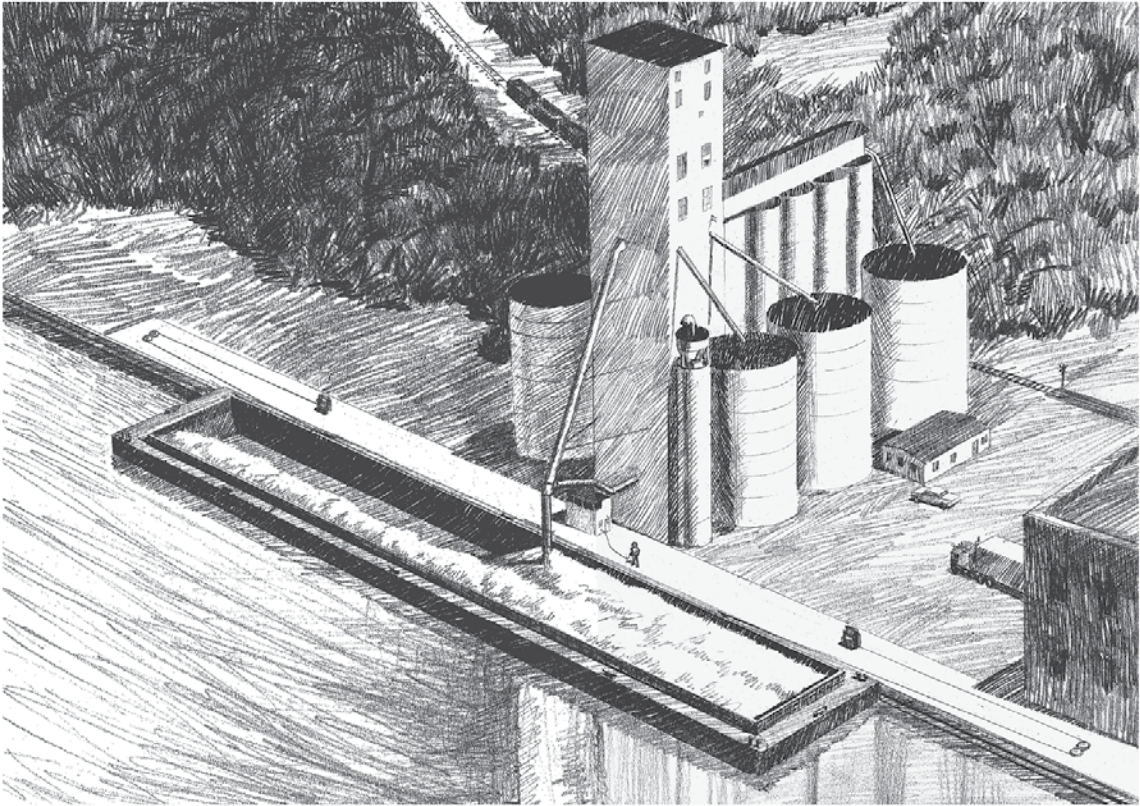


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BARGE POSITIONING SYSTEM



NABRICO's all electric constant tension positioning winch system consists of two winches, two variable speed drives, variable speed motors, failsafe brakes and PLC (programmable logic controls). These components have been engineered to allow one winch to be in a drive mode, pulling, while the other winch is in a torque mode, holding. When the object being positioned is at rest, both drives are in the torque mode, and the load holds its position on the dock, letting out cable during loading, and taking in cable during unloading. This also allows cable in and out as required during tide movement. The amount of torque/pull and speed on the cable is controlled by two potentiometers mounted on the control panel. The positioning winch system is capable of maintaining the full horsepower load at zero speed indefinitely. If there should be a loss of power or the emergency stop is pressed, the failsafe brakes hold the load.

"Note, besides, that it is no more immoral to directly rob citizens than to slip indirect taxes into the price of goods that they cannot do without."

—Albert Camus

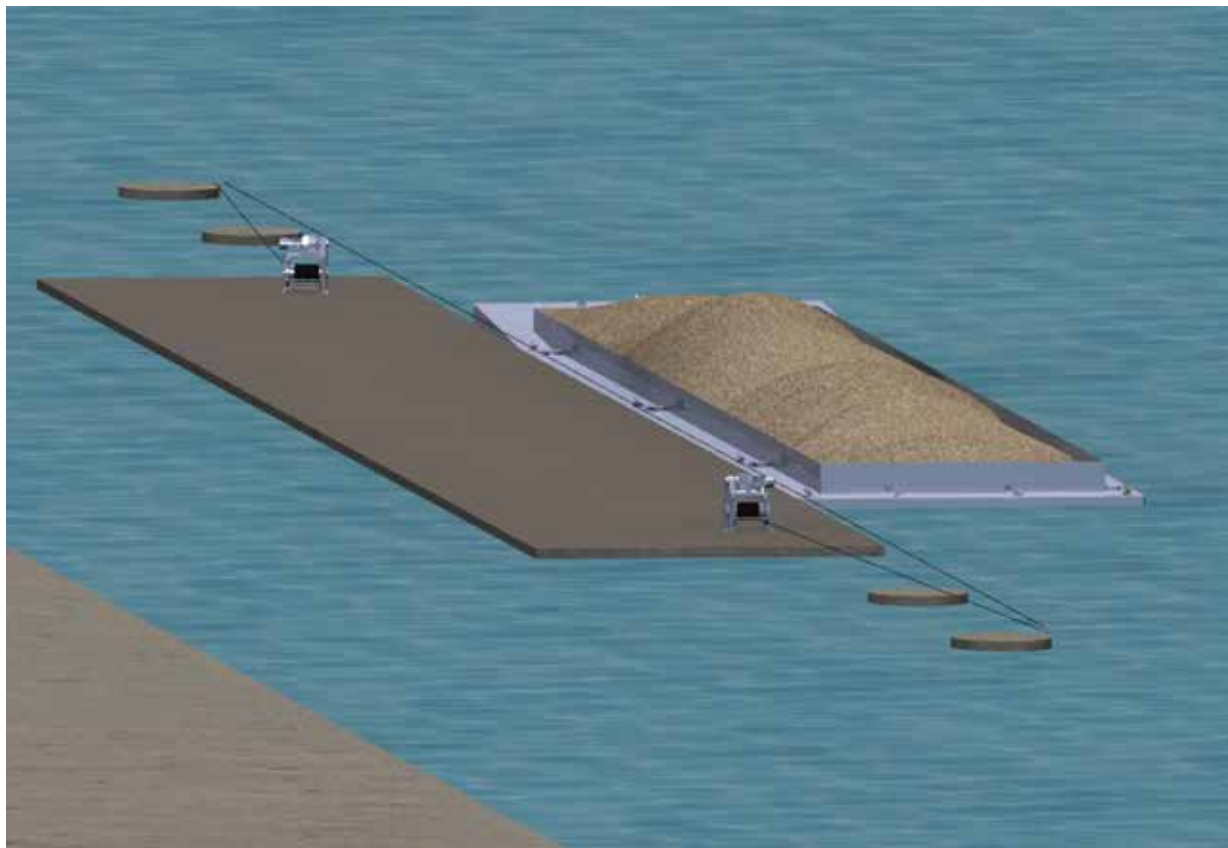
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BARGE POSITIONING SYSTEM



NABRICO has utilized proven winch designs with the latest drive and touch screen technology. Adjustable ramps have been programmed into the system to minimize the shock on the cable and hardware associated with starting and stopping. For additional information, drawings and specifications contact **NABRICO**.

NABRICO pioneered the positioning winch system. In addition to the standard model, the system is available in a larger 50 horsepower model and in a smaller 10 horsepower model. Using various motor and gearbox combinations, the line pull and speed can be changed since the basic engineering in the panel and winch remain the same. The positioning winch has industrial, marine and rail applications. The winch can produce a full horsepower load at zero speed indefinitely. If there should be a loss of power or the emergency stop is pressed, the fail-safe brakes hold the load.

“Taxation is the price which civilized communities pay for the opportunity of remaining civilized.”

—Albert Bushnell Hart



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BARGE POSITIONING SYSTEM



**36" Chain Drive
Positioning
Winch**

NABRICO's most technologically advanced winches, backed by more than a century of recognizing and meeting the needs of the towing and transportation industries, provide an infinite number of line pulls and line speeds. The standard model has a starting capacity of 24,000 lbs., with 16,000 lbs. of constant tension at 30 fpm. Drum capacity is substantial, varying from 572 to 1328 feet. Accessible, clearly marked controls are available in a wireless, wired remote or local configuration.



Control Cabinet for Winches



CABLE CAPACITY			LINE SPEED	LINE PULL
CABLE SIZE	24" DRUM WIDTH	36" DRUM WIDTH	STANDARD: INFINITELY VARIABLE FROM 0-30 FPM. CUSTOM APPLICATION UP TO 100 FPM.	STANDARD INFINITELY VARIABLE LINE PULL 48,000 LBS. AT MOTOR STALL; 24,000 LBS. STARTING AND 16,000 LBS. CONTINUOUS. CUSTOM APPLICATIONS ARE AVAILABLE.
3/4"	877'	1,328'		
7/8"	768'	1,165'		
1"	686'	1,043'		
1 1/8"	623'	948'		
1 1/4"	572'	872'		

NOTE: THE CAPACITIES GIVEN ABOVE ARE BASED ON UNIFORM ROPE WINDING TO FIVE (5) LAYERS. TENSION APPLIED DURING SPOOLING WILL ALSO AFFECT THE LENGTH.

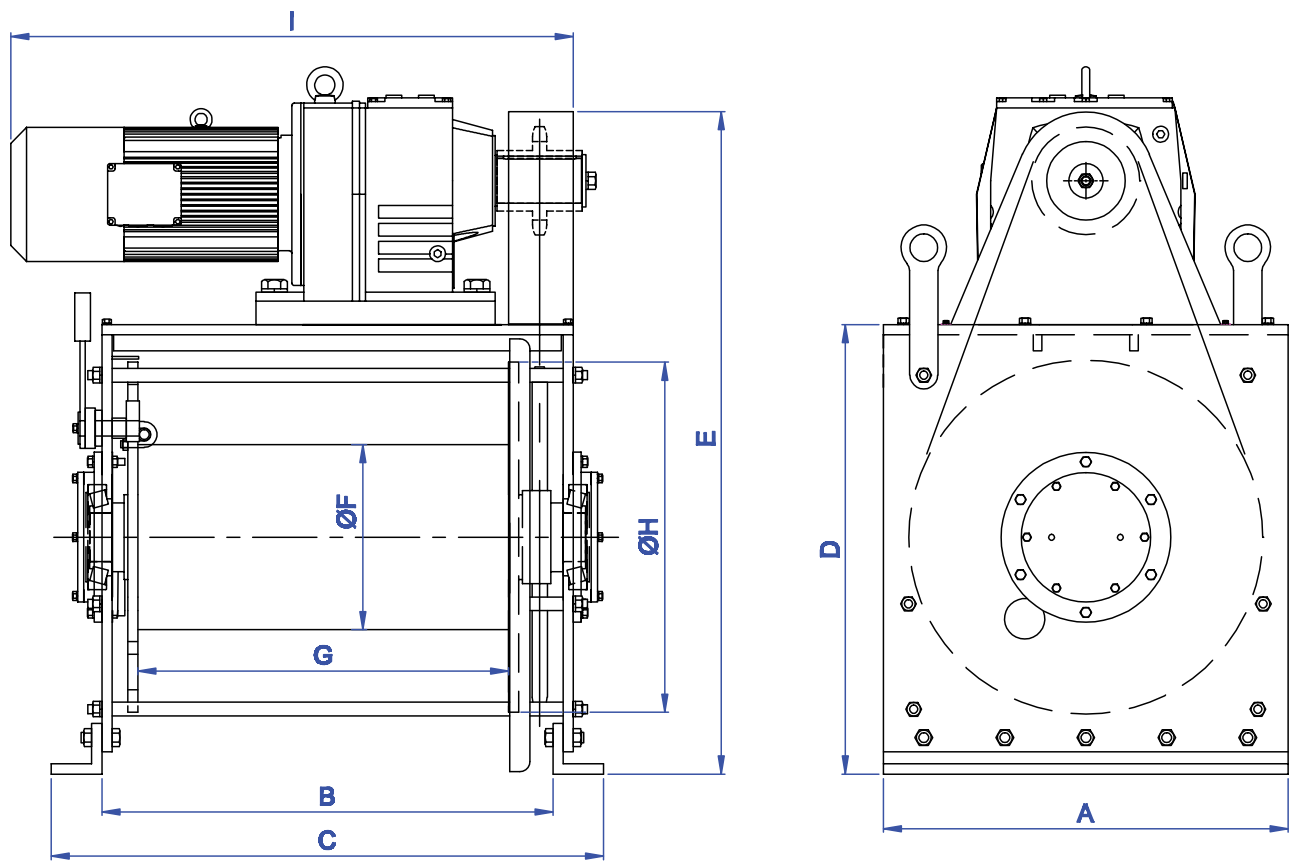
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BARGE POSITIONING WINCH (18" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-18	40031	32"	26-3/8"	36-1/8"	34-5/8"	54-1/8"	14"	18"	30"	38-1/2"	3000

“The hardest thing in the world to understand is the income tax.”

—Albert Einstein

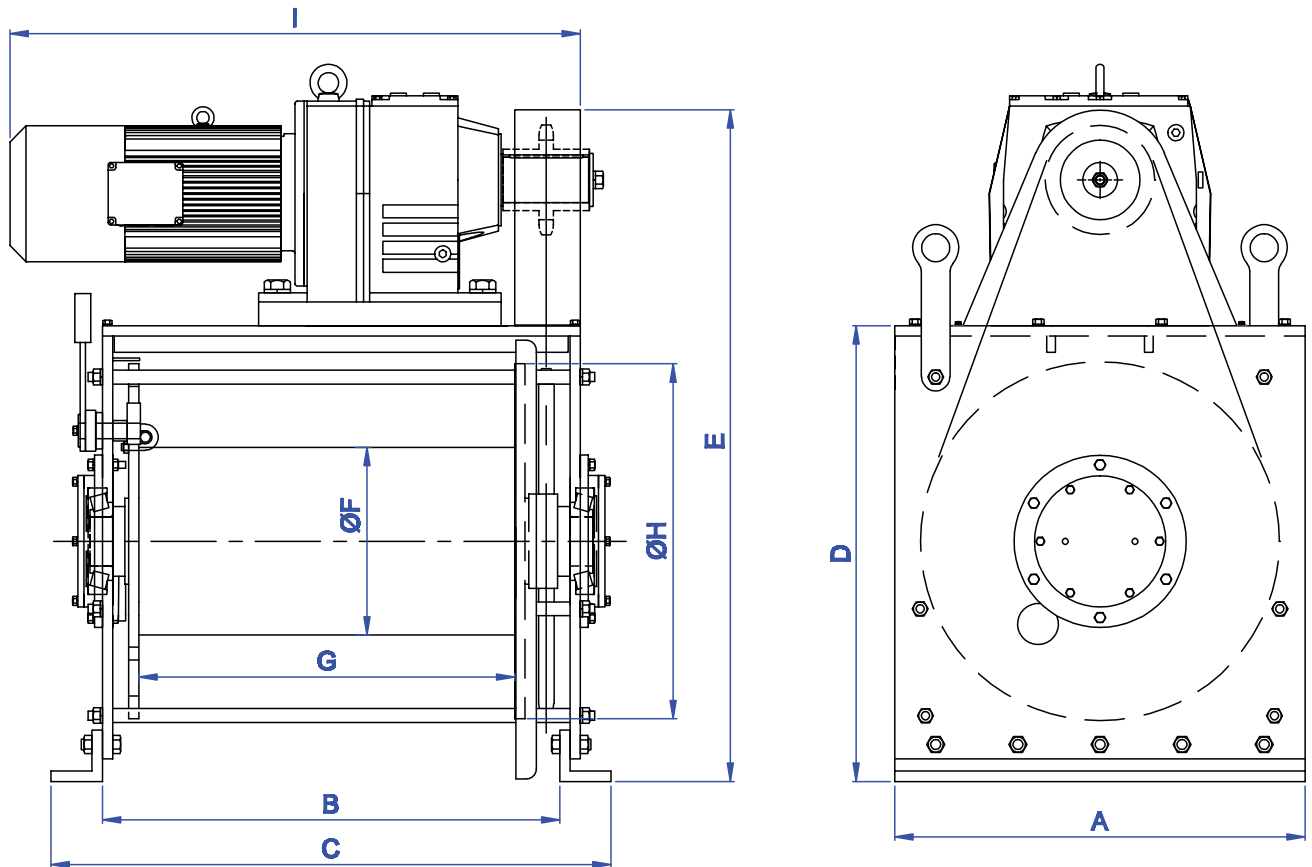


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BARGE POSITIONING WINCH (24" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-24	40033	39-3/8"	31-7/8"	41-11/16"	43-3/4"	62-7/8"	18"	24"	34"	38-1/2"	4000

"I never graduated from Iowa. But I was only there for two terms—Truman's and Eisenhower's."

—Alex Karras

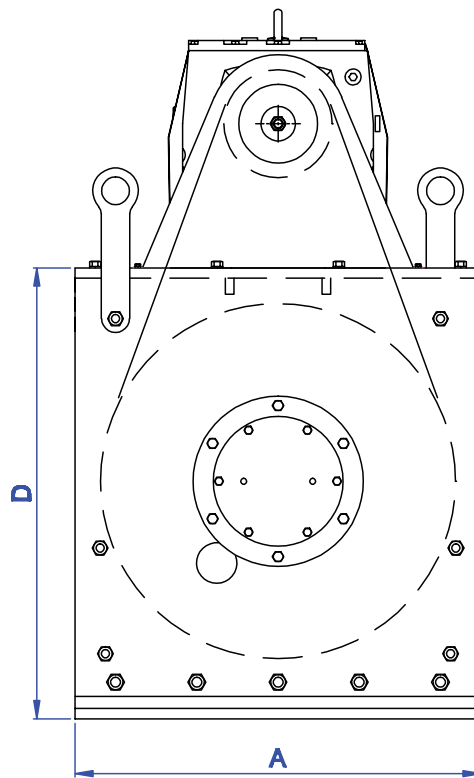
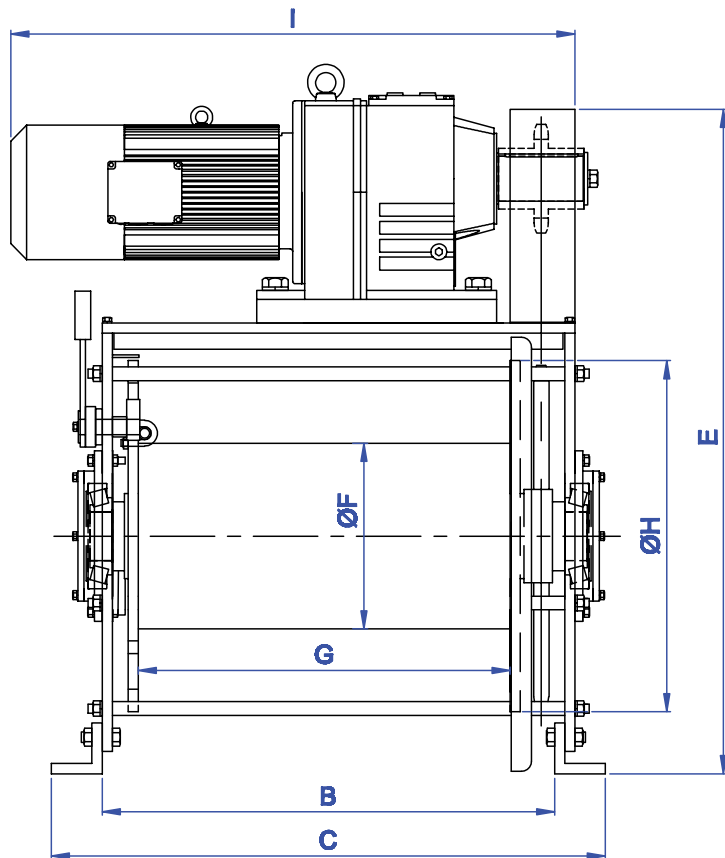
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BARGE POSITIONING WINCH (36" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-36	40038	39-3/8"	43-7/8"	53-11/16"	43-3/4"	65-3/4"	18"	36"	34"	57-5/8"	4500

"Today, it takes more brains and effort to make out the income-tax form than it does to make the income."

—Alfred E. Neuman



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RAILCAR AND INDUSTRIAL WINCH



FEATURES

- Simple design.
- Solid Drum.
- Built for continuous service.
- Few parts.
- Pressure bar.
- Customizable to your specific job.
- Extends wire life by using a single layer and grooved drum.

“The loser is always a part of the problem; the winner is always a part of the answer. The loser always has an excuse; the winner always has a program. The loser says it may be possible, but it’s difficult; the winner says it may be difficult, but it’s possible.”

—Althea Gibson

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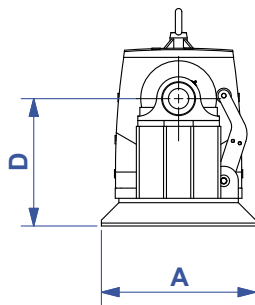
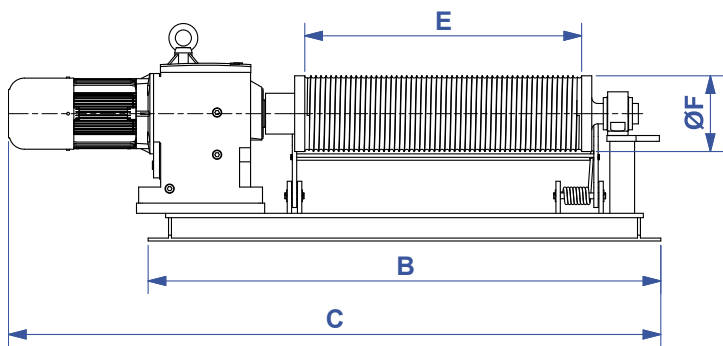
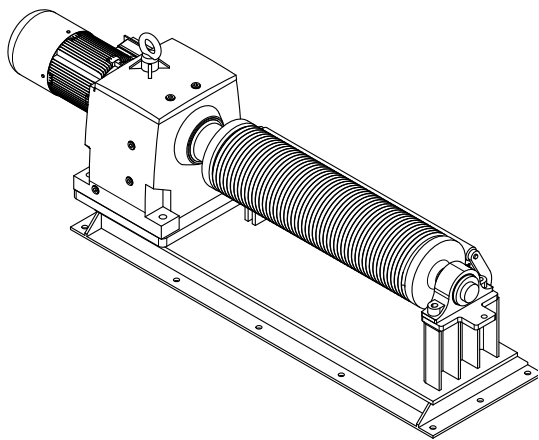
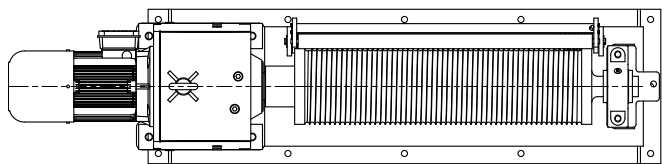
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RAILCAR AND INDUSTRIAL WINCH

WINCHES



PART No.	A	B	C	D	E	ØF	WT. (lbs)
19776	26-1/2"	88"	112"	21-7/8"	47-1/2"	13"	1,000

“Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.”

—Amendment I, The U.S. Bill of Rights

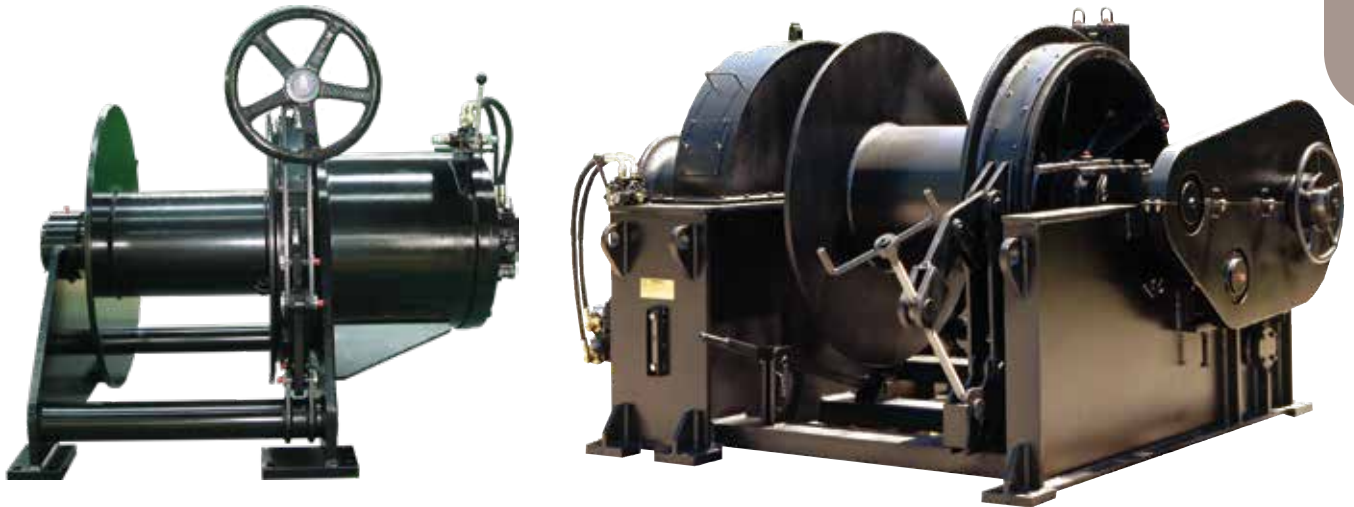


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ANCHOR WINCHES



NABRICO is a full line supplier of electric and hydraulic anchor winches, mooring winches and windlasses. We will custom fit each anchor winch, mooring winch or windlass to your specific application to ensure the best possible configuration. Our winches can be fitted with warping heads and level winds along with many of our other standard features such as a locking dog, drum band brake and a three coat zinc and epoxy paint system. **NABRICO's** hydraulic anchor winches can also be equipped with an electric auxiliary power source to operate the winch in case of a hydraulic failure. Please contact **NABRICO** for a quote specified to meet your requirements.

"New York State is upside down and backwards; high taxes and low performance."

—Andrew Cuomo

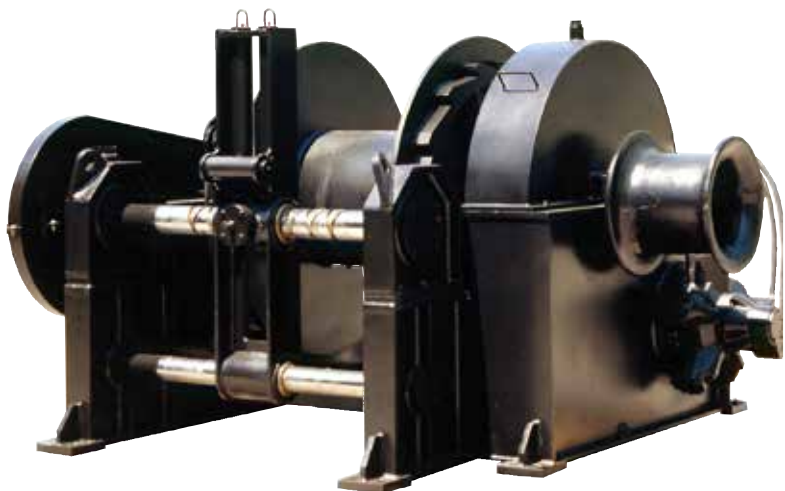
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ANCHOR WINCHES



SPECIFY THE FOLLOWING INFORMATION
TO DETERMINE THE SIZE AND SPEED OF
YOUR ANCHOR WINCH:

CABLE SIZE _____
DRUM CAPACITY _____
LINE PULL (FIRST LAYER) _____
LINE SPEED _____
MOTOR TYPE _____
OF GYPSY HEADS _____
GYPSY HEAD SIZE _____

- HYDRAULIC OR ELECTRIC MOTOR WITH FAIL SAFE MOTOR BRAKE.
- 4-WAY CONTROL VALVE MOUNTED AND PIPED ON THE WINCH.
- BRAKE WITH STAINLESS STEEL BRAKE AND STEEL HAND WHEEL.
- LEVER OPERATED MACHINED JAW CLUTCH.
- OPTIONAL WIRE ROPE LEVEL WIND FOR UNIFORM LAY OF WIRE ON THE DRUM.
- RATCHET AND PAWL TYPE HOLDING DOG ON THE DRUM.
- FABRICATED STEEL CONSTRUCTION.
- THREE COAT ZINC AND EPOXY PAINT SYSTEM.
- ELECTRIC OR HYDRAULIC POWER.
- JAW CLUTCHED DRUM.

MODEL SHOWN

MODELDF-AW-1200-30-2/16H
CABLE SIZE1-7/8 Inch
DRUM CAPACITY1200 Ft.
LINE PULL (FIRST LAYER)25,000 Lbs. @ 2400 PSI
LINE SPEED30 FPM
MOTOR TYPEHYDRAULIC
OF GYPSY HEADSTWO
GYPSY HEAD SIZE16 INCH

- SINGLE OR DOUBLE WARPING HEADS.
- HYDRAULIC MOTOR WITH FAIL SAFE MOTOR BRAKE.
- SPUR GEAR REDUCTION OPERATING IN OIL BATH.
- DRUM BAND BRAKE AND HOLDING DOG.
- DRUM CAPACITY AND LINE PULL TO MEET CUSTOMER REQUIREMENTS.
- OTHER SIZES AND FEATURES AVAILABLE.
- OTHER AVAILABLE OFFSHORE DECK MACHINERY: MOORING WINCHES, TOWING WINCHES, ANCHORS, CHAIN AND CAPSTANS.
- CONTACT NABRICO WITH YOUR SPECIFIC REQUIREMENTS.



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ALUMINUM ANCHOR WINCH



ELECTRIC WINCH

- ANODIZED ALUMINUM FRAME AND COMPONENTS.
- STAINLESS STEEL SHAFTS.
- MANUAL DISC BRAKE SYSTEM WITH ALL STAINLESS STEEL COMPONENTS.
- NORD ALUMINUM GEARMOTOR WITH NSD-X3 PAINT AND CORROSION PROTECTED FAIL-SAFE BRAKE.
- DESIGNED TO DNV SPECIFICATIONS.



HYDRAULIC WINCH

- SYNCHRONOUS LEVELWIND SYSTEM.
- NO MAINTENANCE THORDON BEARINGS.
- WINDLASS IS APPROVED FOR CHAIN 16MM K2 AND 17.5MM K1 WITH MINIMUM BREAKING STRENGTHS OF 150 KN AND 125 KN.
- ALL STAINLESS FASTENERS AND SEPARATOR RODS.

MODEL No.	LINE PULL (LBS)	LINE SPEED (FPM)	DRUM SIZE (IN)	WEIGHT (LBS)
DF-AW-600-2-91-E-AL	1,872	34	3" x 19-1/2" x 15-3/4"	456
DF-AW-600-2-91-H-AL	1,872	34	3" x 19-1/2" x 15-3/4"	347

"One man with courage makes a majority."

—Andrew Jackson

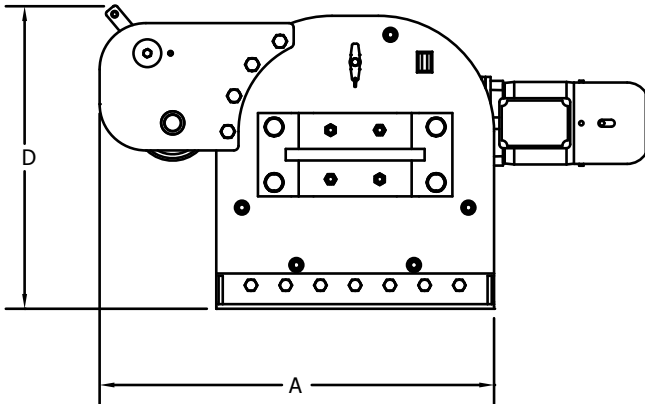
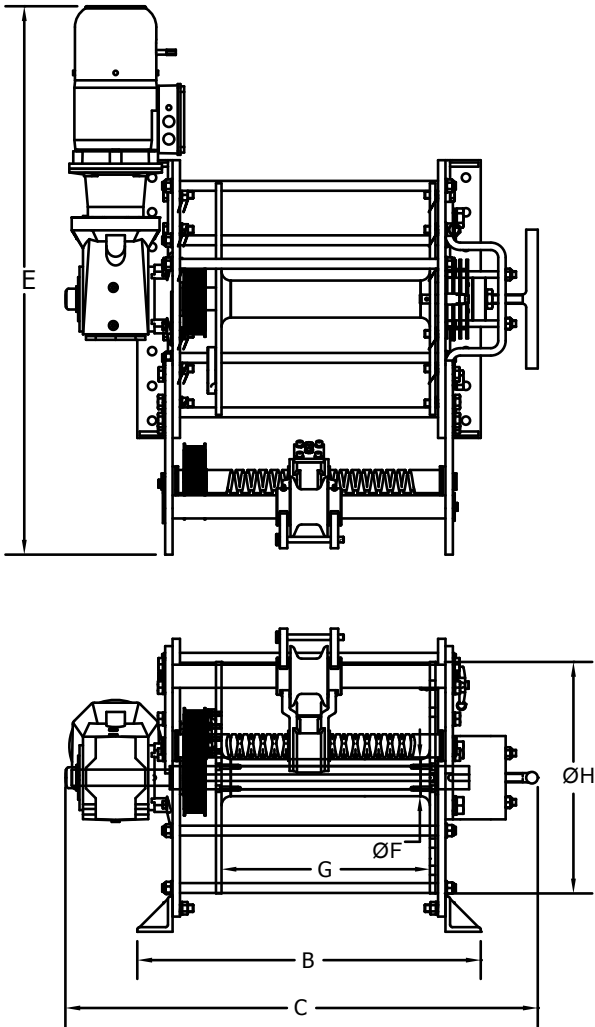
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ELECTRIC ALUMINUM ANCHOR WINCH



MODEL No.	A	B	C	D	E	ØF	G	ØH
DF-AW-600-2-91-E-AL	33-1/2"	29-1/4"	40-1/8"	25-3/4"	46-5/8"	3-1/8"	17-3/4"	19-5/8"

“John Calhoun, if you secede from my nation I will secede your head from the rest of your body.”

—Andrew Jackson

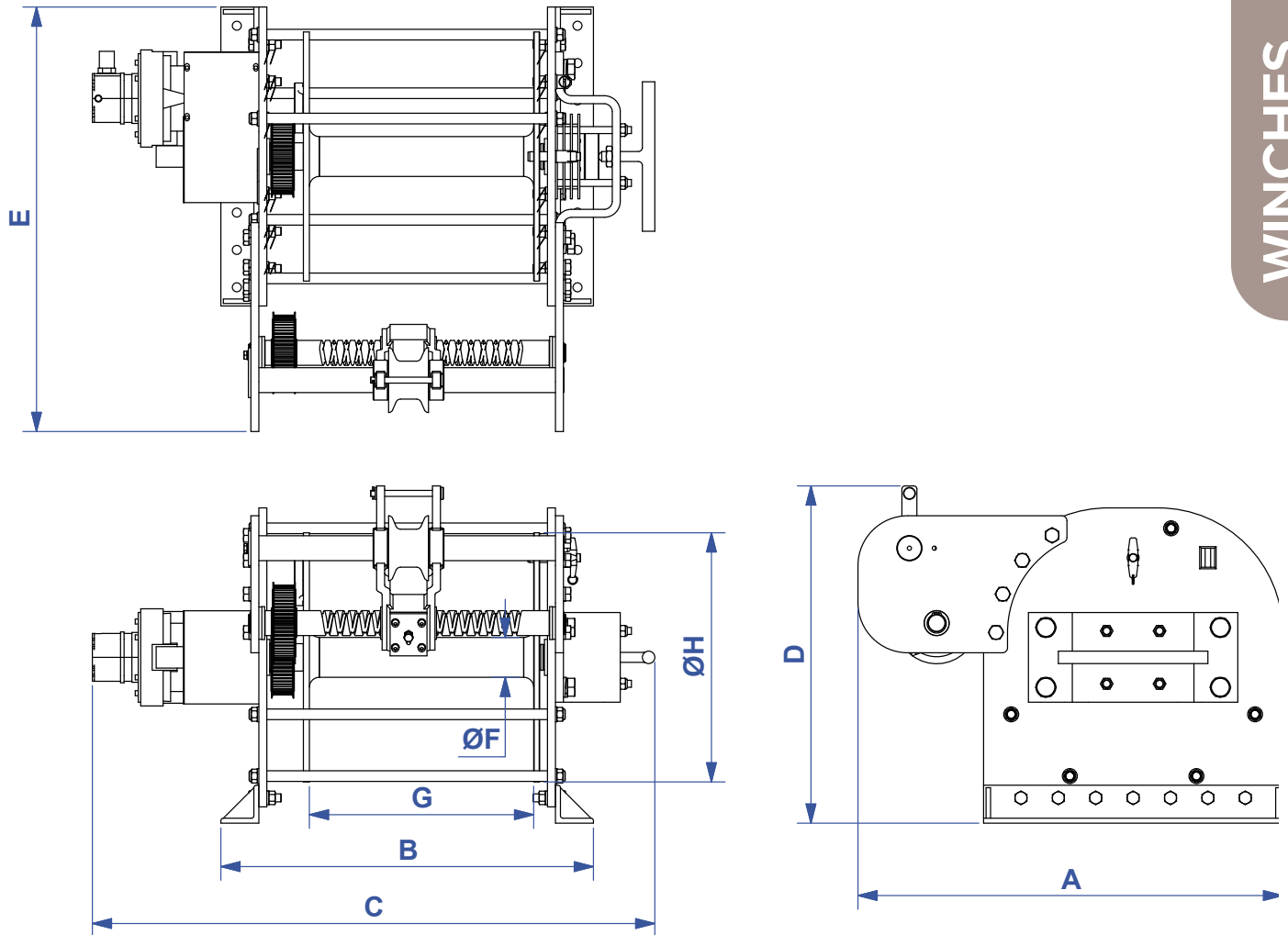


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HYDRAULIC ALUMINUM ANCHOR WINCH



MODEL No.	A	B	C	D	E	ØF	G	ØH
DF-AW-600-2-91-H-AL	33-1/2"	29-1/4"	44-1/2"	25-3/4"	33-1/2"	3-1/8"	17-3/4"	19-5/8"

"Washington, D.C., is twelve square miles bordered by reality."

—Andrew Johnson

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MANUAL WINCHES



NABRICO provides the extra hands you need for fast and sure tow make-up and breakdown with a complete line of hand winches in both left and right hand models (except 2/5 ton winches). Our DF-3 winch features the same trusted parts as our DF-156 winch in a more compact design. NABRICO manual winches are available in 2, 5, 10, 20, 30, 40 and 60 ton holding capacities. NABRICO has a hand winch to meet the particular needs of your job or installation.

Match a NABRICO hand winch to your needs and available space and you're ready to go to work. For installation purposes, all dimensions should be verified.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.

"The best measure of a man's honesty isn't his income tax return. It's the zero adjust on his bathroom scale."

—Arthur C. Clarke



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1 TON MANUAL WINCH



FEATURES

- All Stainless Steel Construction
- Bronze Oil Lite Bushings
- Fully Guarded w/ Stainless Steel Guards
- Stainless Steel Brake Band
- 2 Speed Operation
- Bronze Locking Dog

MODEL NO.	PART NO.	HOLDING CAPACITY (BRAKE &/ OR LOCKING DOG)	LINE PULL		DRUM CAPACITY (FT)				WEIGHT
		LBS	HIGH SPEED (LBS)	LOW SPEED (LBS)	1/8"	3/16"	1/4"	5/16"	LBS
DF-5	15670	2,000	1,000	2,000	360	150	85	50	32

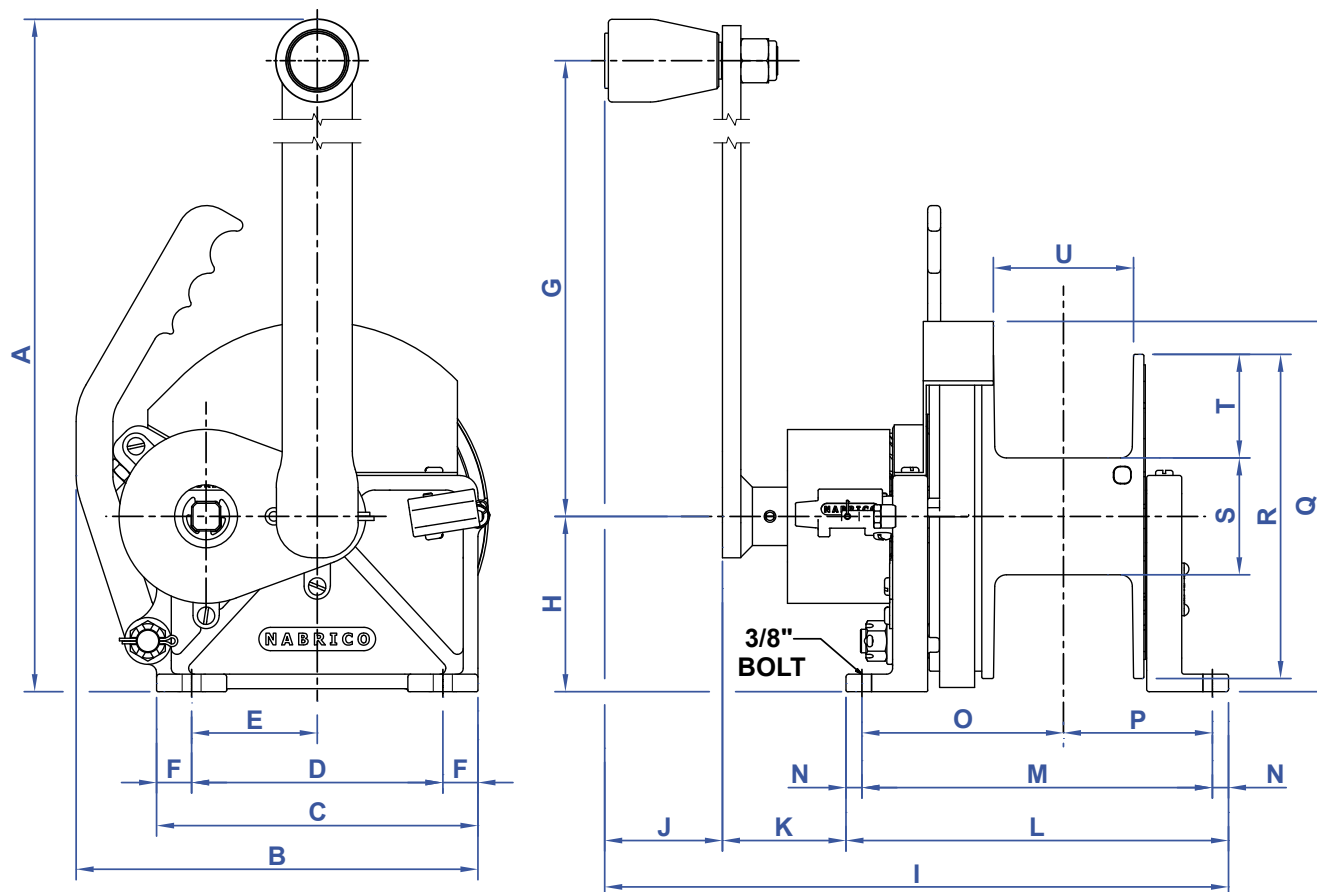
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1 TON MANUAL WINCH



MODEL NO.	PART NO.	A	B	C	D	E	F	G	H	I
DF-5	15670	16-5/8"	8-5/8"	6-7/8"	5-3/8"	2-11/16"	3/4"	12"	3-3/4"	13-3/8"

J	K	L	M	N	O	P	Q	ØR	ØS	T	U
2-1/2"	2-5/8"	8-3/16"	7-1/2"	3/8"	4-5/16"	3-3/16"	7-15/16"	6-15/16"	2-1/2"	2-1/4"	3"

"I'm proud to pay taxes in the United States; the only thing is, I could be just as proud for half the money."

—Arthur Godfrey



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2 AND 5 TON MANUAL WINCH



MODEL No.	LINE PULL SLOW SPEED (LBS)	LINE PULL FAST SPEED (LBS)	SHOCK LOAD (LBS)	HAND BRAKE HOLDING (LBS)
2 Ton	4025	3500	3800 (3 foot drop)	6000
5 Ton	10000	8500	8250 (3 foot drop)	14000

CABLE CAPACITY (FULL DRUM)							
MODEL No.	DRUM WIDTH	1/4	5/16	3/8	7/16	1/2	WT (lbs)
2 Ton	6"	275	200	105	100	60	65
5 Ton	6"	-	-	300	200	170	116

"Government spending is taxation. When you look at this, I've never heard of a poor person spending himself into prosperity; let alone I've never heard of a poor person taxing himself into prosperity."

—Arthur Laffer

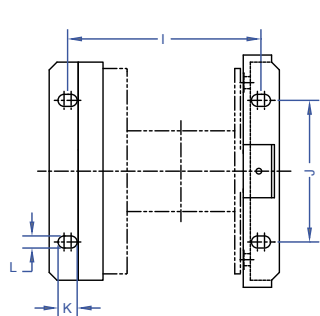
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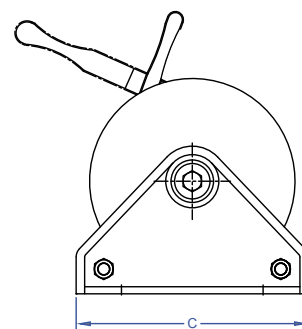
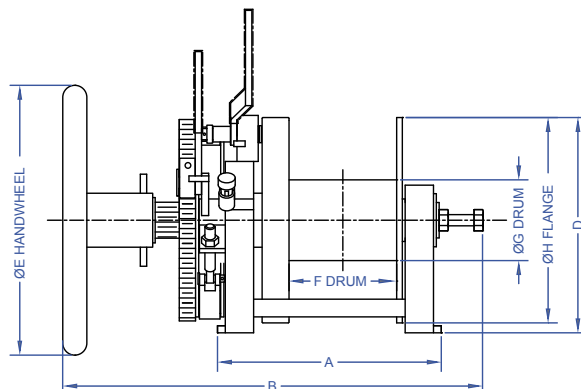
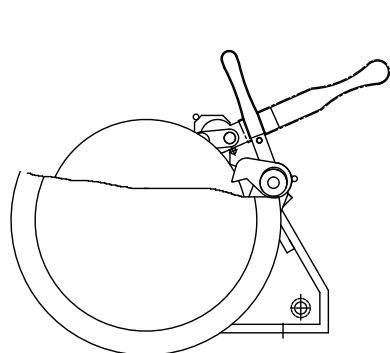
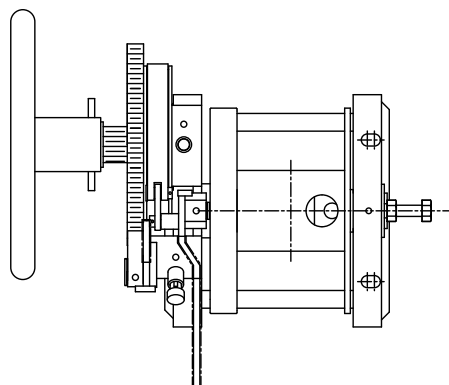


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2 AND 5 TON MANUAL WINCH



WINCH FOOTPRINT



MODEL No.	PART No.	A	B	C	D	ØE	F	ØG	ØH	MOUNTING DIMENSIONS			
										I	J	K	L
2 TON	15550	11-11/16"	23-1/4"	12"	9-5/16"	15"	6-3/32"	4"	9-1/4"	10-1/2"	7-1/2"	1-1/16"	21/32"
5 TON	15600	12-7/16"	23-3/8"	12-7/8"	12"	15"	5-15/16"	4-1/2"	11-3/8"	10-3/4"	7-7/8"	1-1/16"	21/32"

"Over the past 100 years, there have been three major periods of tax-rate cuts in the U.S.: the Harding-Coolidge cuts of the mid-1920s; the Kennedy cuts of the mid-1960s; and the Reagan cuts of the early 1980s. Each of these periods of tax cuts was remarkably successful as measured by virtually any public policy metric."

—Arthur Laffer



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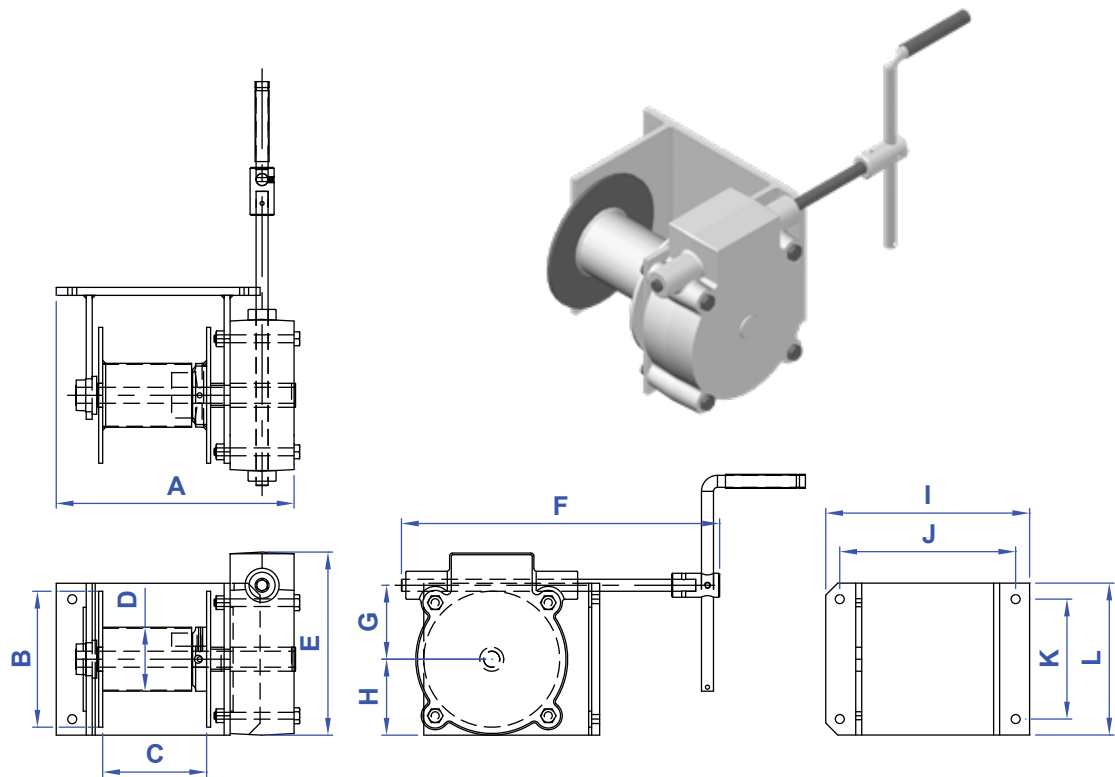
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2 TON MANUAL WINCH ASSY.

BR

WINCHES



MODEL No.	PART No.	A	B	C	D	E	F	G	H	I	J	K	L	WT. (lbs.)
DF-7	15557	15"	8-1/2"	6-1/2"	4"	11-1/2"	19-7/8"	4-1/2"	4-3/4"	12-3/4"	11"	7-1/2"	9-1/2"	120

"Let me just try to give you sort of the intuitive one here on the stimulus funds. If you have a two-person economy—let's imagine we have two farms, and that's the whole world, just two farms. If one of those farmers gets unemployment benefits, who do you think pays for him? Am I going way over your heads today?"

—Arthur Laffer

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FASST WINDER™ WINCHES

WINCHES



NABRICO's patent-pending FASST Winder™ system is fast, easy and results in lower compressive forces and less stress on the body as you fully tighten a winch. Our FASST Winder™ system allows you to get rid of ratchets and still achieve similar line pulls to that of our comparable models. Without needing the assistance of a extension pipe, this system allows the deckhand to achieve final tensioning in almost half the time of a conventional winch. Call NABRICO today to schedule a live demonstration of this new revolutionary system.

"Sometimes, tax rate increases create the very problems that the spending is intended to cure. In other words, the tax rate increases reduce economic growth; they shrink the pie; they cause more poverty, more despair, more unemployment, which are all things government is trying to alleviate with spending."

—Arthur Laffer



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DF-356 W/ FASST WINDER™ WINCH



- Incorporates our powerful FASST Winder™ system.
- Patented high load release dog with secondary anti-backlash drag brake that is activated automatically with the release of the dog.
- Hot-dipped Galvanized coating.
- Uses standard 40-ton winch drive train.
- Ergonomic height.
- No hot work required: mounts to DF-3, DF-156 and some competitors models.
- Heaviest winch in its class at 1,650 lbs.
- No ratchet or ratchet handle extension.
- Fully guarded gears.
- High load release brake is a multi-disc system that incorporates all stainless steel moving parts.

MODEL NO.	HOLDING DOG & OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM CAPACITY (FT)					WT
DF-356-FST	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	5/8"	3/4"	7/8"	1"	1-1/8"	LBS
40-11-M	40	8,000	17,800	340	219	132	115	60	1,650
40-18-M	40	8,000	17,800	563	363	224	198	107	1,875

"The linkage between tax rates and public services is, if not non-existent, negative."

—Arthur Laffer

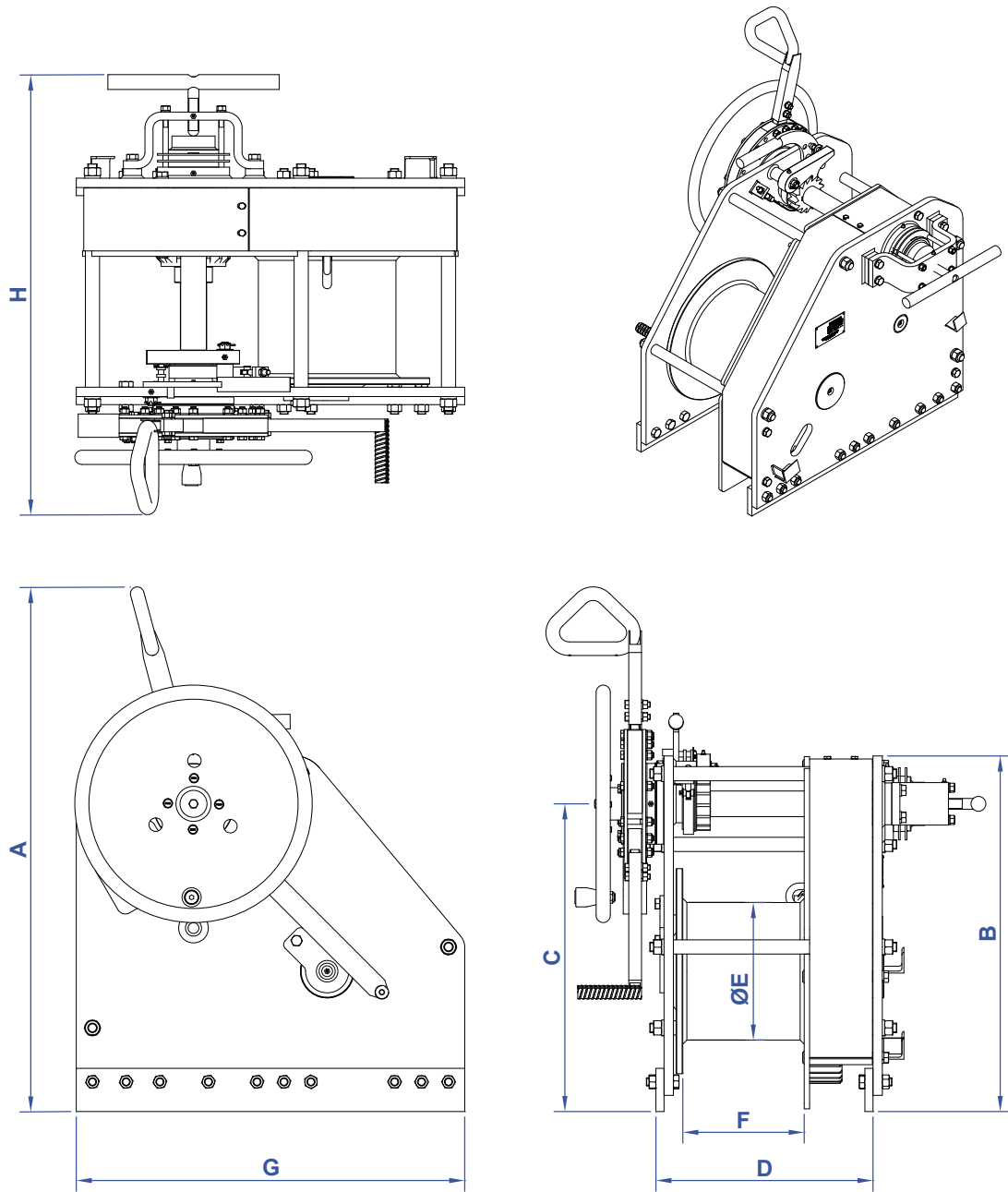
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DF-356 W/ FASST WINDER™ WINCH



MODEL NO.	A	B	C	D	ØE	F	G	H
DF-356-40-11-M	48-9/16"	33"	28-1/2"	20-1/8"	12-3/4"	11-1/4"	36"	40-3/4"
DF-356-40-18-M	48-9/16"	33"	28-1/2"	26-1/4"	12-3/4"	18-1/8"	36"	46-7/8"



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DF-629 W/ FASST WINDER™ WINCH



- No ratchet or ratchet handle extension.
- Fastest and easiest way to fully tighten a winch.
- Large D over D ratio 20:1 ANSI/ASME minimum is 15:1 for pulling and 18:1 for lifting.
- Hard chrome plated shafts, SS hardware and galvanized winch body.
- Patent pending, large, single layer drum.
- Tapered drum design eliminates multi-layer spooling causing crushing and inconsistent wire tensioning.
- Fully enclosed drivetrain to help protect the operator, wire and gearing.
- Simple operation, wire pulls out easily, takes up very little deck space.
- Requires almost no retightening with only one layer of wire.
- Open design drum allows for 100 percent wire inspection and no damaged wire overfilling the drum cavity.
- Patented drum and high load release dog with automatic brake make this winch easy to use and appreciate.
- Patented/Patent Pending (Publication # US 20140124719 A1)

MODEL NO.	HOLDING DOG & OR BRAKE	LINE PULL (LBS)	DRUM CAPACITY (FT)		WEIGHT LBS
	S. TONS		7/8"	1"	
DF-629-FST	40	15,000	30	25	1,177

"Taxes are the lifeblood of government and no taxpayer should be permitted to escape the payment of his just share of the burden of contributing thereto."

—Arthur Vanderbilt

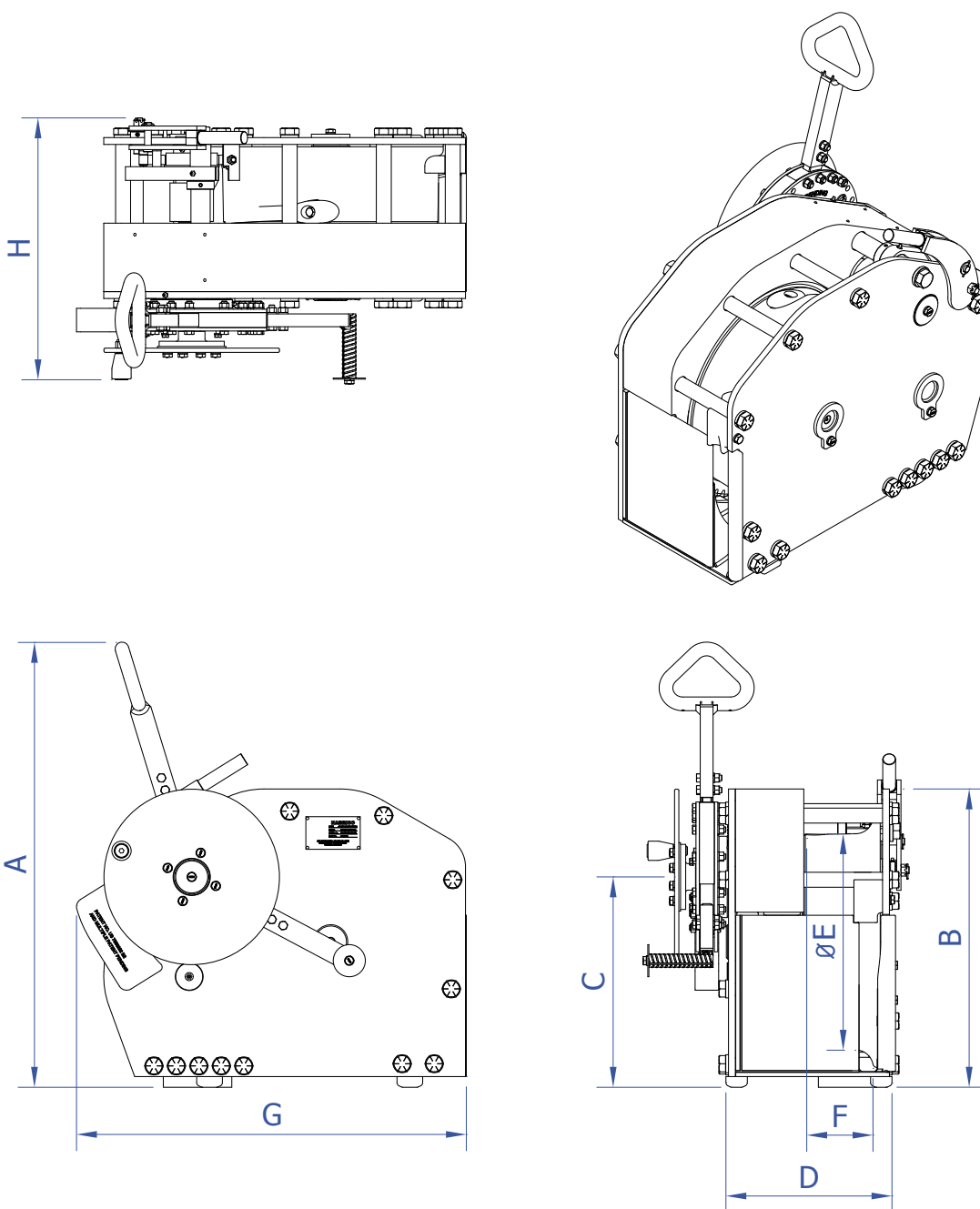
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DF-629 W/ FASST WINDER™ WINCH



MODEL NO.	A	B	C	D	ØE	F	G	H
DF-629-FST-40-6	40-15/16"	27-7/16"	19-3/8"	15-1/4"	19-7/8"	6"	35-7/8"	24"



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DF-629 SIDEWINDER WINCH

BR

WINCHES



- Large D over D ratio 20:1 ANSI/ASME minimum is 15:1 for pulling and 18:1 for lifting.
- Hard chrome plated shafts, SS hardware and galvanized winch body.
- Simple operation, wire pulls out easily, takes up very little deck space.
- Tapered drum design eliminates multi-layer spooling causing crushing and inconsistent wire tensioning.
- Fully enclosed drivetrain to help protect the operator, wire and gearing.
- Patent pending, large, single layer drum.
- Requires almost no retightening with only one layer of wire.
- Open design drum allows for 100 percent wire inspection and no damaged wire overfilling the drum cavity.
- Patented drum and high load release dog with automatic brake make this winch easy to use and appreciate.
- Patented/Patent Pending (Publication # US 20140124719 A1).

MODEL No.	HOLDING DOG	LINE PULL - RATCHET	DRUM CAPACITY (FT)		WEIGHT
	LBS	LBS	7/8"	1"	LBS
DF-629	80,000	15,000	30	25	1,117

"In levying taxes and in shearing sheep it is well to stop when you get down to the skin."

—Austin O'Malley

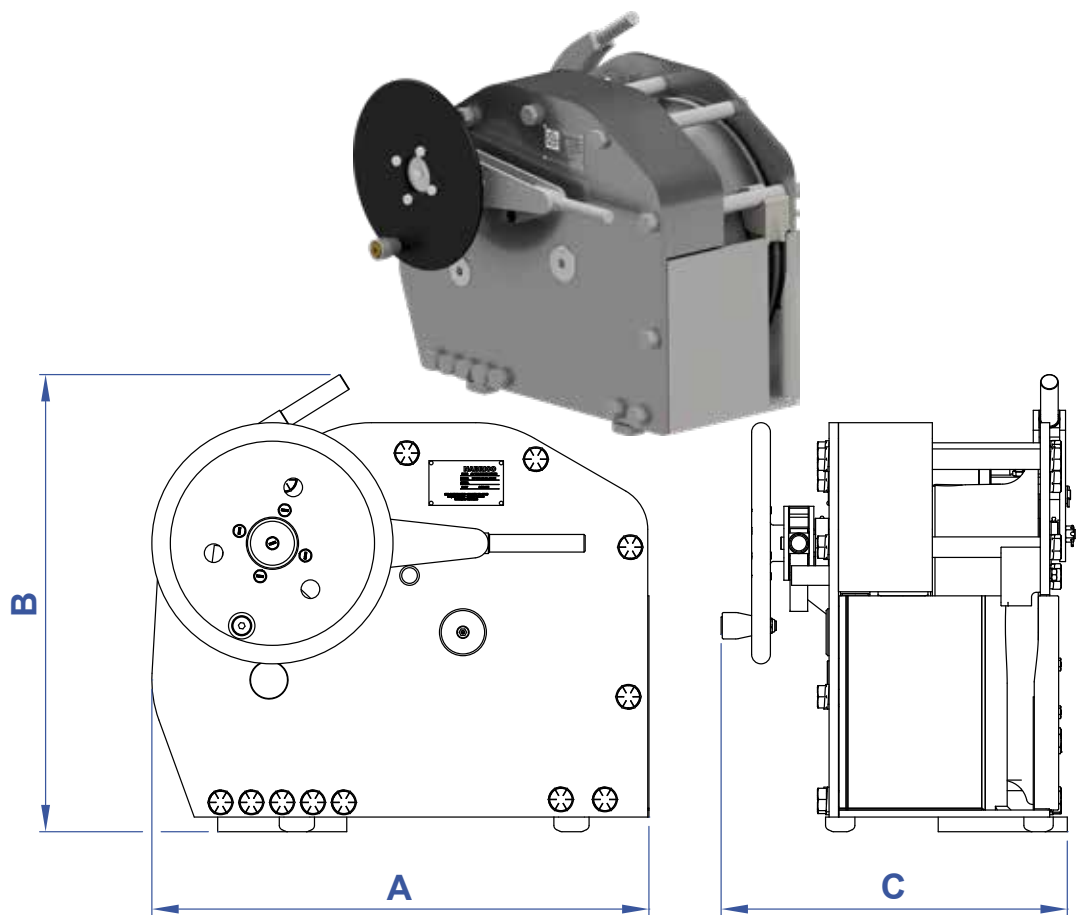
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DF-629 SIDEWINDER WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	62911	62910

MODEL No.	PART No.	A	B	C	WT. (LBS)
DF-629	REFER TO COATING TABLE	33-3/8"	30-5/8"	23-1/4"	1,177

“We have but a slender hold of our virtues; they ought, therefore, to be cherished with care, and practised with diligence.”

—Fisher Ames*

*Representative in the United States Congress from the 1st Congressional District of Massachusetts and important leader of the Federalist Party in the House.



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DF-3 MANUAL WINCH



- Revolutionary new high load release dog system.
- High load release brake with secondary anti-backlash drag brake that is activated automatically with the release of the dog.
- High load release brake is a multi-disc system that incorporates all stainless steel parts.
- Fastest acting and most powerful brake available.
- 4 Bolt lug removable handwheel.
- New simpler heavy duty ratchet assembly with no springs or levers.
- Minimal maintenance.
- Easy to repair.
- All stainless steel and silicon bronze fasteners including separator rods.
- 3-Ply conveyor belt covers (damage and corrosion resistant).
- Galvanized coating available.
- Saltwater package standard with 3-part paint system.
- Heaviest winch in its class.
- True right and left hand models for use in pairs.
- Totally enclosed drive train with the smallest deck footprint in the industry.

MODEL No.	HOLDING-DOG &/OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN		DRUM CAPACITIES (FT)				WT	DIMENSIONAL DATA		
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	5/8"	3/4"	7/8"	1"	LBS	W	L	H
DF-3-30	30 TONS	5,000	22,000	233	141	123	67	1109	19-3/8"	22"	35-1/2"
DF-3-40	40 TONS	5,000	19,000	285	173	150	83	1567	20-1/8"	23-1/4"	43-1/2"

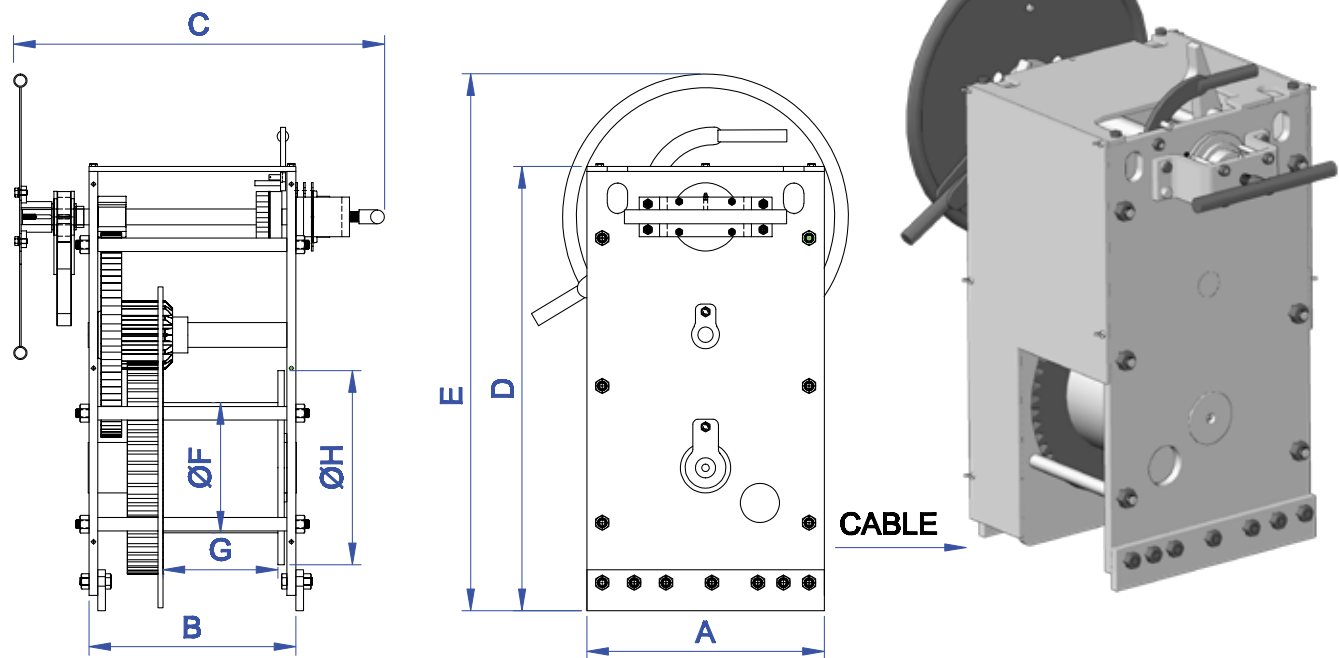
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30 TON UPRIGHT MANUAL WINCH



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94241	94242
GALVANIZED	94243	94244

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-3-30	REFER TO COATING TABLE	22"	19-3/8"	33-1/2"	35-1/2"	44-9/16"	10-3/4"	11"	16"	1065

“America’s abundance was created not by public sacrifices to ‘the common good,’ but by the productive genius of free men who pursued their own personal interests and the making of their own private fortunes. They did not starve the people to pay for America’s industrialization. They gave the people better jobs, higher wages and cheaper goods with every new machine they invented, with every scientific discovery or technological advance—and thus the whole country was moving forward and profiting, not suffering, every step of the way.”

—Ayn Rand



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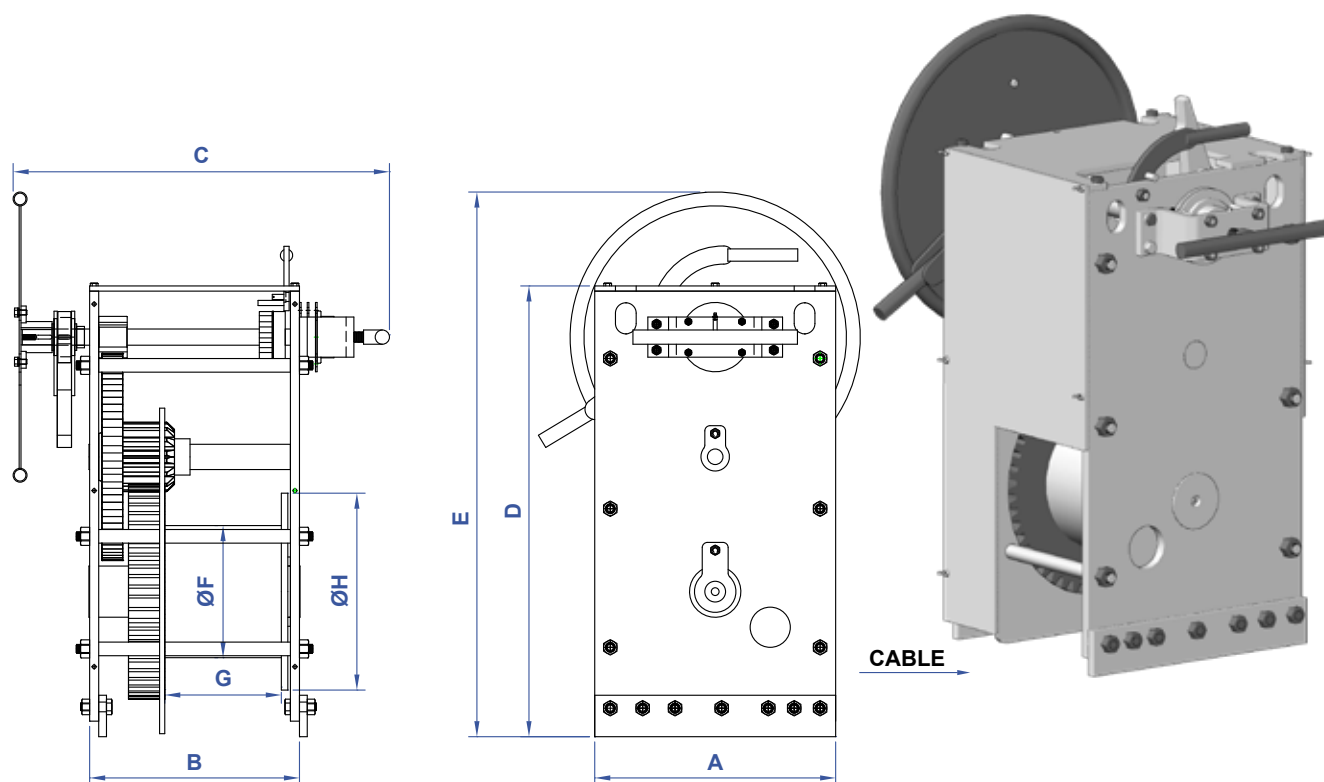
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40 TON UPRIGHT MANUAL WINCH

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94237	94238
GALVANIZED	94239	94240

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-3-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	36-1/16"	43-1/2"	52-9/16"	12-3/4"	11-1/4"	19"	1525

"When more of the people's sustenance is exacted through the form of taxation than is necessary to meet the just obligations of government and expenses of its economical administration, such exaction becomes ruthless extortion and a violation of the fundamental principles of free government."

—Grover Cleveland

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DF-156 MANUAL WINCHES



FEATURES

- All steel construction.
- High load release brake is a multi-disc system that incorporates all stainless steel moving parts.³
- Fastest acting and most powerful brake available.
- 4 bolt hub removable handwheel.
- Simpler heavy duty ratchet assembly with no springs or levers.
- Bronze bushed bearings.
- Alemite fittings for proper lubrication.
- True left and right hand model for use in pairs.
- Blasted and painted, galvanized and other coatings available.
- All stainless steel and silicon bronze fasteners including separator rods.

MODEL	MOUNT	DOG HOLDING (1)	LINE PULL		GEAR RATIO	DRUM FLANGE DIAM.	DRUM	
			HAND WHEEL ONE MAN	RACHET W/ STANDARD EXTENSION			DIAM.	WIDTH (2)
DF-156		S.T.	LBS.	LBS.		IN.	IN.	IN.
10-6-M	Right/Left	10	3,000	7,000	5.57:1	18	8.625	6.0
20-7-M	Right/Left	20	8,000	19,000	18.57:1	16	10.75	7.25
40-11-M	Right/Left	40	6,000	17,800	18.57:1	19	12.75	11.25
40-18-M	Right/Left	40	6,000	17,800	18.57:1	19	12.75	18.125
60-11-M	Right/Left	60	7,500	28,800	27.0:1	24	14.00	10.625
75-11-M	Right/Left	75	7,500	28,800	27.0:1	24	14.00	10.625

MODEL	DRUM CAPACITIES (FT.)									WEIGHT (LBS.)
	CABLE SIZE									
	DF-156	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	
10-6-M	353	317	174	129	-	-	-	-	-	500
20-7-M	270	186	109	57	39	21	-	-	-	850
40-11-M	-	-	287	176	130	84	36	26	-	1250
40-18-M	-	-	463	279	151	139	58	51	-	1350
60-11-M	-	-	572	325	262	200	119	111	62	2100
75-11-M	-	-	572	325	262	200	119	111	62	2800

1. HOLDING AND LINE PULL RATINGS ARE FOR FIRST LAYER OF CABLE.

2. WIDER DRUM WIDTHS AVAILABLE ON REQUEST.

3. DISC BRAKE OPTIONAL EXTRA FOR 10 TON MODEL.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.

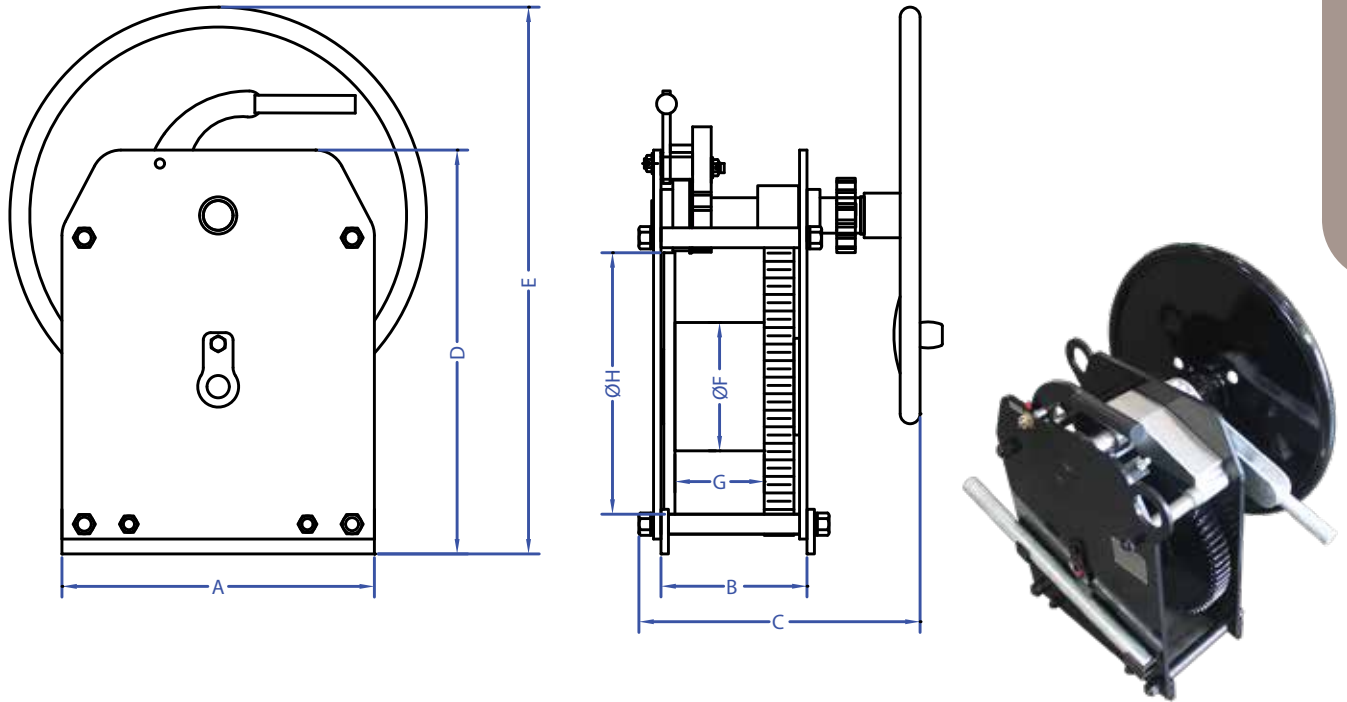


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10 TON MANUAL WINCH



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	6593	6592
GALVANIZED	6591	6590

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-10	REFER TO COATINGS TABLE	21"	9-13/16"	19"	27-1/8"	36-3/4"	8-5/8"	6"	18"	500

"The income tax created more criminals than any other single act of government."

—Barry Goldwater

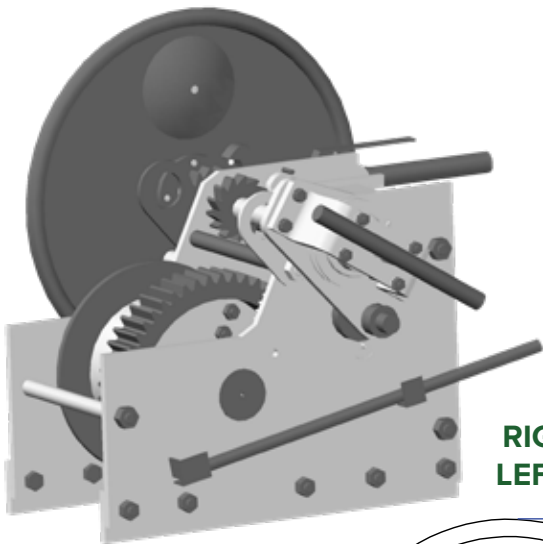
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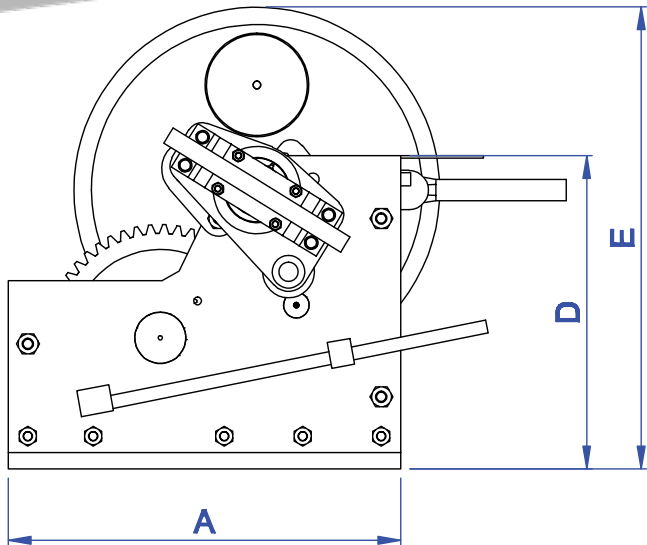
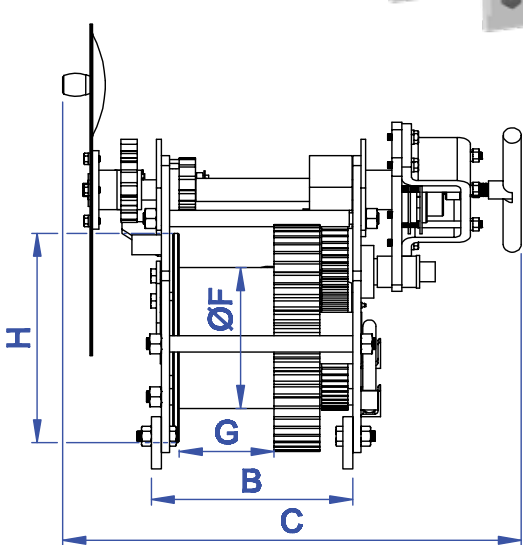


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20 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	71504	6600
GALVANIZED	87508	87508

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-20	REFER TO COATINGS TABLE	30"	15-3/8"	33"	24"	34"	10-3/4"	7-1/4"	16"	850

“Every culture has some ritual for joining two people together and making them stay that way, and ours is giving tax breaks.”

—Bauvard

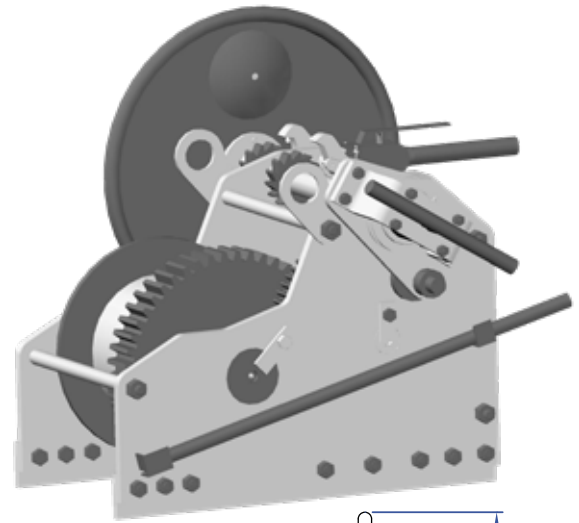


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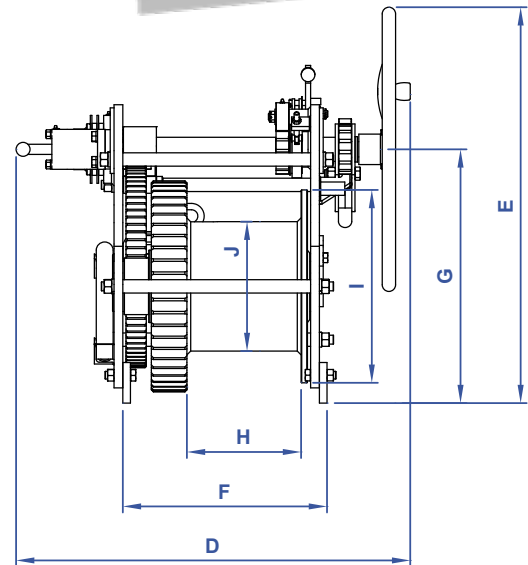
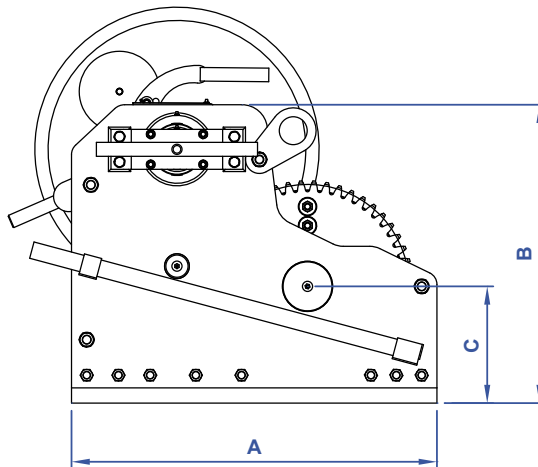
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40 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN IN 3D MODEL
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94201	94200
GALVANIZED	94207	94206

MODEL No.	PART No.	A	B	C	D	E	F	G	H	ØI	ØJ	WT. (lbs.)
DF-156-40	REFER TO COATINGS TABLE	36"	29-3/8"	11-1/2"	38-13/16"	39"	20-1/8"	25"	11-1/4"	19"	12-3/4"	1250

"I make my practices real hard because if a player is a quitter, I want him to quit in practice, not in a game."

—Bear Bryant

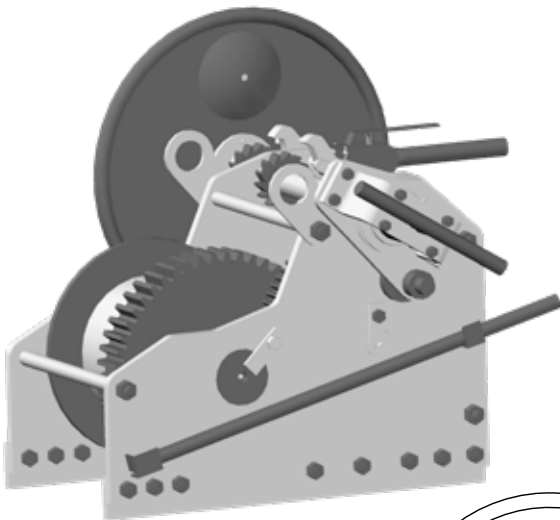
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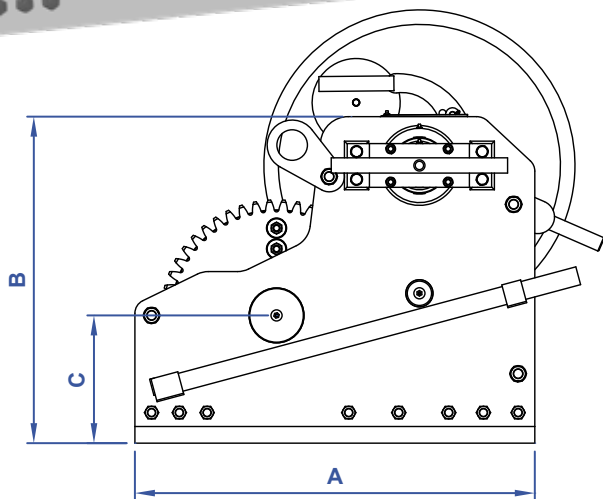
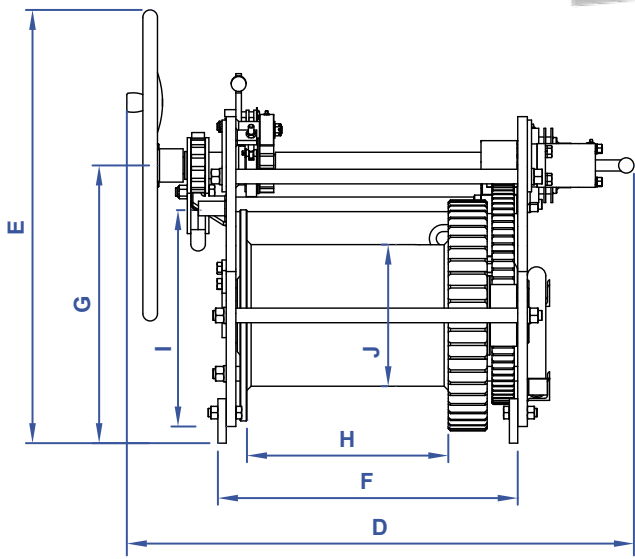


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40 TON 18" WIDE MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94203	94202
GALVANIZED	94209	94208

MODEL No.	PART No.	A	B	C	D	E	F	G	H	ØI	ØJ	WT. (lbs.)
DF-156-40	REFER TO COATINGS TABLE	36"	29-3/8"	11-1/2"	45-5/8"	39"	27"	25"	18-1/8"	19"	12-3/4"	1350

“There is no similarity between golf and putting; they are two different games, one played in the air, and the other on the ground.”

—Ben Hogan

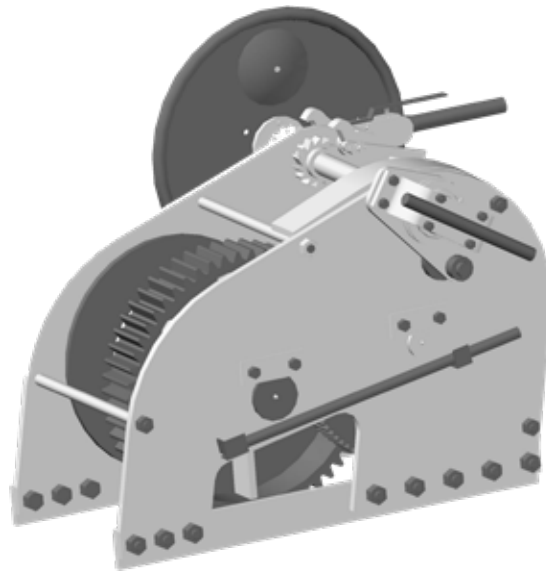


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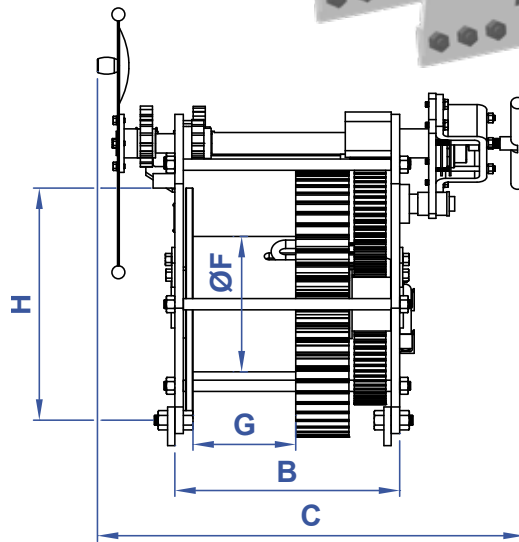
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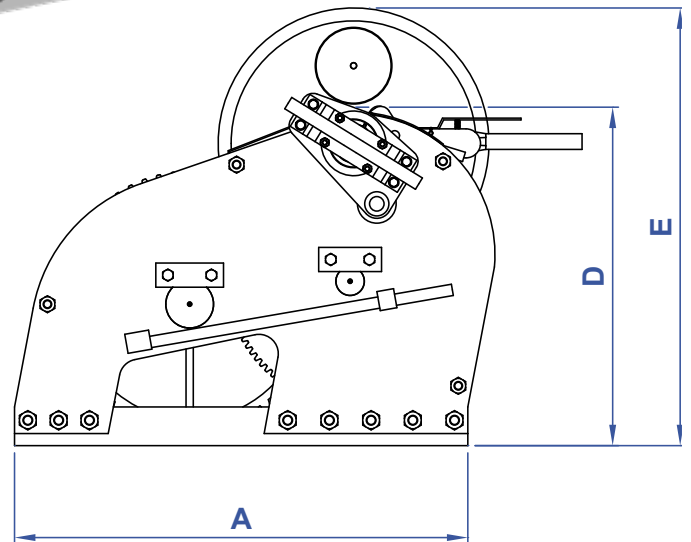
60 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



CABLE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	72033	6518
GALVANIZED	72034	6519

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-60	REFER TO COATINGS TABLE	49-1/8"	23-1/4"	45"	35"	45-1/2"	14"	10-5/8"	24"	2300

"People say capitalism is selfishness. No, socialism is selfishness. The idea that I have to pay for you to paint watercolors in your basement is a selfish philosophy."

—Ben Shapiro

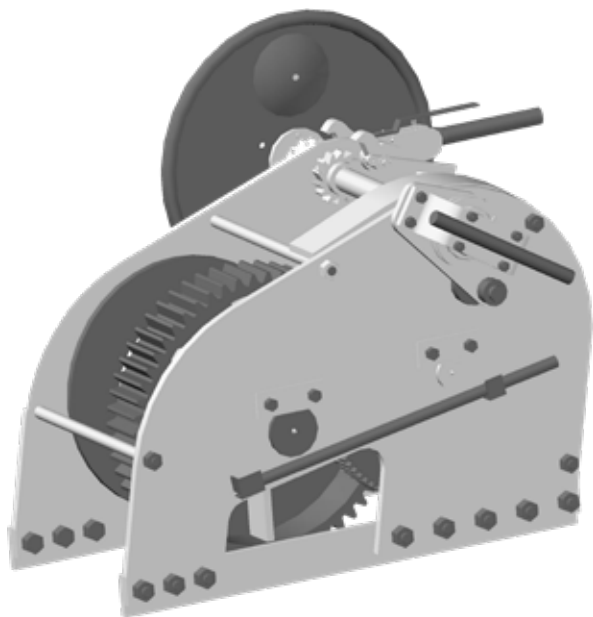
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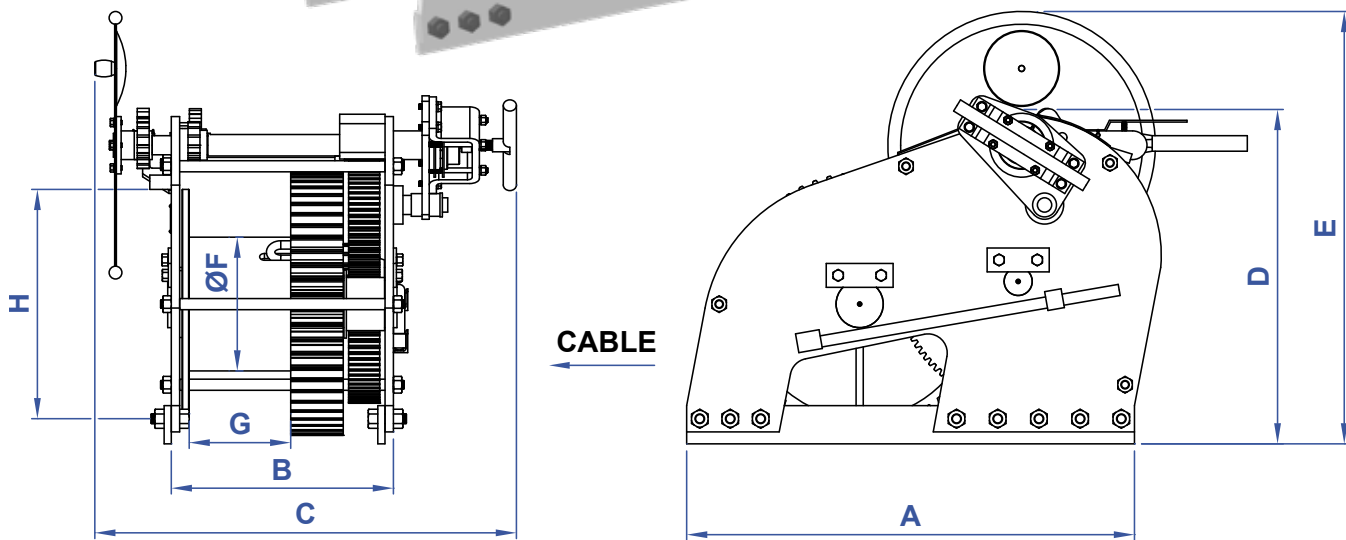


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75 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	72053	72052

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-75	REFER TO COATINGS TABLE	49-1/8"	23-1/4"	45"	35"	45-1/2"	14"	10-5/8"	24"	2800

“Those that can give up essential liberty to gain a little temporary safety deserve neither liberty nor safety.”

—Benjamin Franklin



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DF-529 LOW PROFILE WINCH



- Heavy duty springless, galvanized ratchet handles.
- Stainless steel brake drum and band.
- Chrome plated shafts.
- Bronze bushings with graphite inserts.
- Stainless / bronze hardware.
- Two-piece side plate for easy maintenance.
- “Easy off” handwheel.
- Doubler plate, base bar, d-ring or swivel mounting.
- Right and left hand models.
- Blasted and epoxy painted.
- Hot dipped galvanized option available.
- High load release dog.

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM FLANGE DIAM.	DRUM		DRUM CAPACITIES (FT)				DIMENSIONAL DATA (INCHES)		
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.		DIAM	WIDTH	5/8"	3/4"	7/8"	1"	W	L	H
DF-529	40 TONS	2,000	8,000	14"	6.6"	6.89"	126	95	85	70	12-1/2"	19-3/4"	22-3/4"

“When the people find that they can vote themselves money, that will herald the end of the republic.”

—Benjamin Franklin

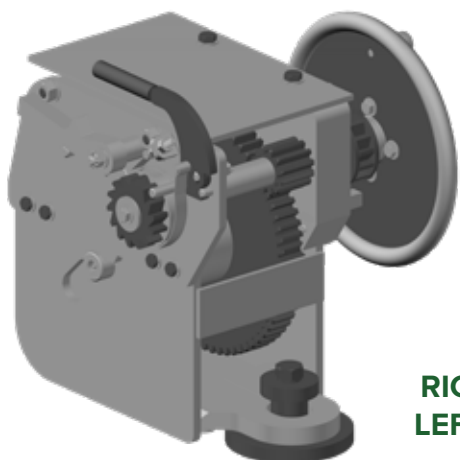
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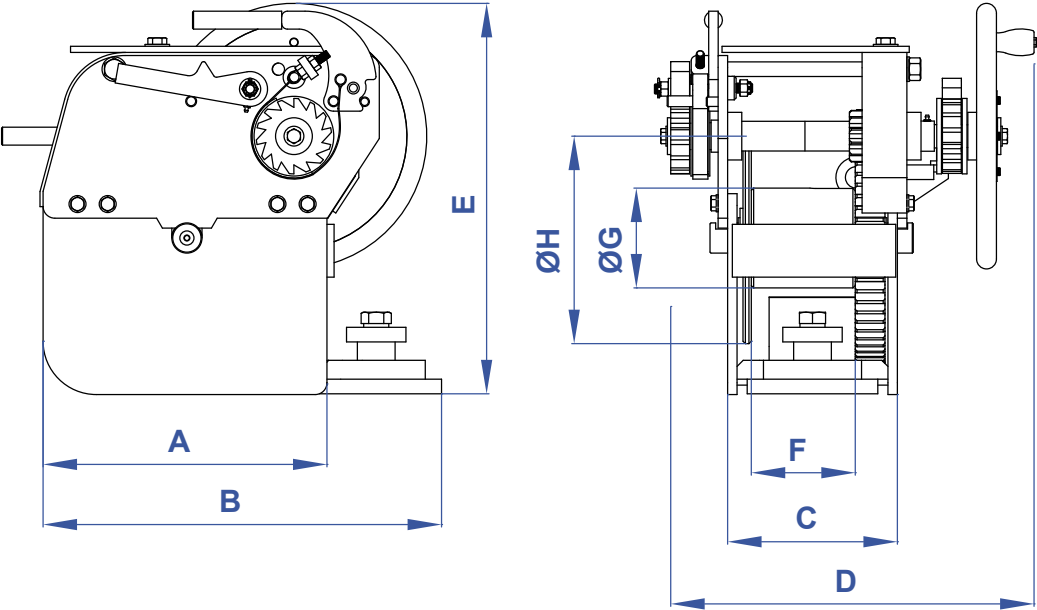


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40 TON LP BUTTON MOUNT WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	90088	90098
GALVANIZED	89101	89100

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	18-3/4"	26-1/2"	11-1/4"	24"	25-1/2"	6-7/8"	6-5/8"	14"	550

“Where carcasses are, eagles will gather, And where good laws are, much people flock thither.”

—Benjamin Franklin



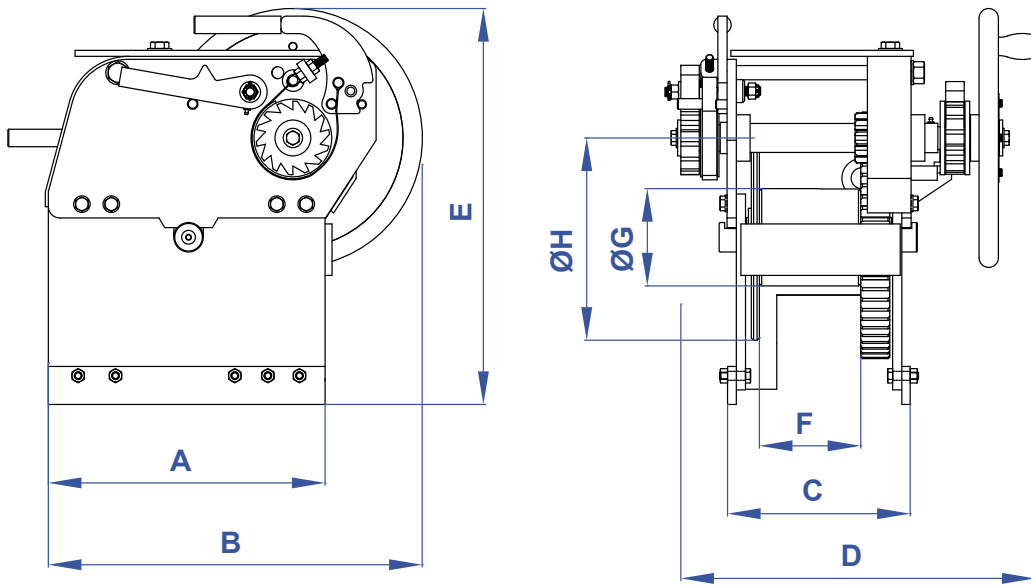
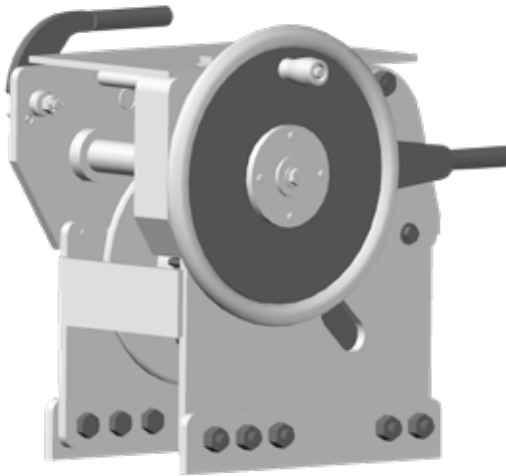
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40 TON LP BASE BAR MOUNT WINCH

RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89081	89080
GALVANIZED	89103	89102

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	19-11/16"	26-1/2"	12-1/2"	24"	25-1/2"	6-7/8"	6-5/8"	14"	480

"Our new Constitution is now established, everything seems to promise it will be durable; but, in this world, nothing is certain except death and taxes."

—Benjamin Franklin

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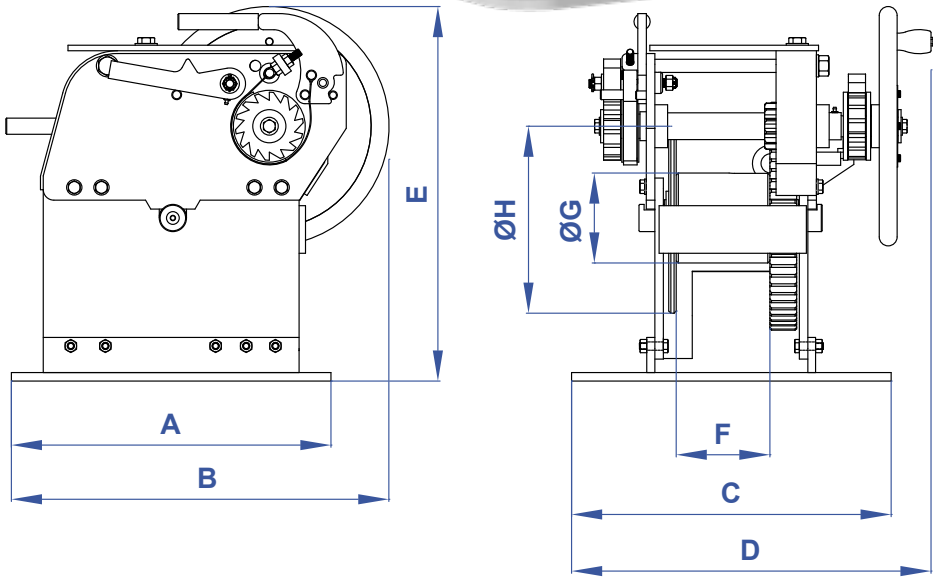
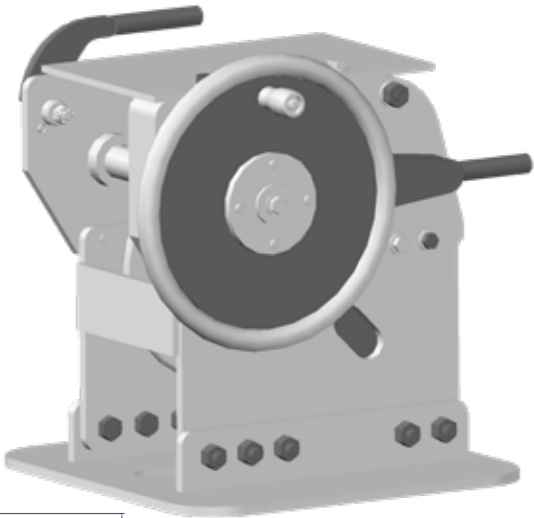
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40 TON LP DOUBLER PLATE MOUNT

RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89088	89098
GALVANIZED	89092	89093

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	23-1/2"	28-3/8"	23-1/2"	24-1/2"	25-1/2"	6-7/8"	6-5/8"	14"	550

“There never was a good war or a bad peace.”

—Benjamin Franklin

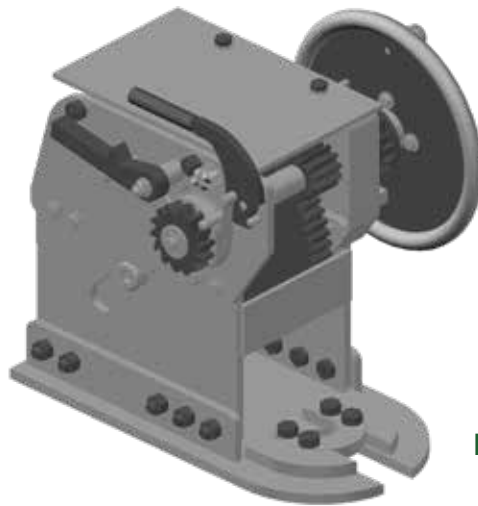


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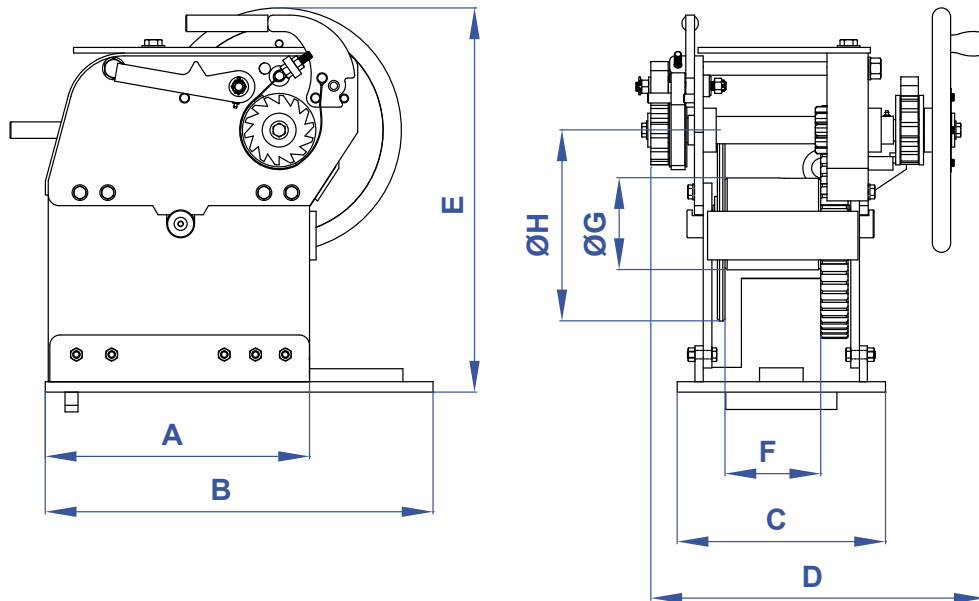
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40 TON LP D-RING MOUNT WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89083	89082
GALVANIZED	89090	89091

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	19-11/16"	29-1/2"	15"	24"	25-1/2"	6-7/8"	6-5/8"	14"	550

"Where liberty dwells, there is my country."

—Benjamin Franklin

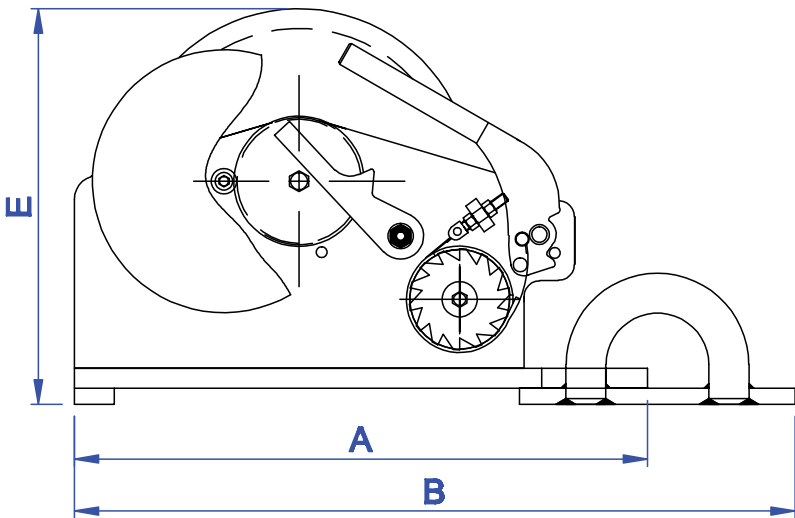
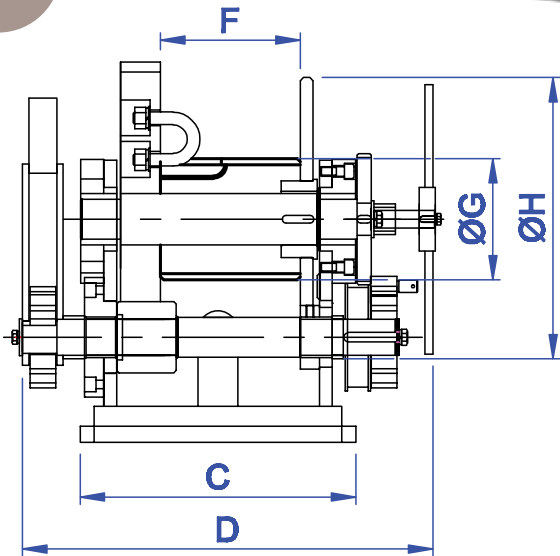
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40 TON COMPACT LOW PROFILE WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	89061	89060

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-539	REFER TO COATINGS TABLE	28-5/16"	35-9/16"	13-9/16"	19-7/8"	19-1/2"	6-7/8"	6"	14"	500

“God grant, that not only the Love of Liberty, but a thorough Knowledge of the Rights of Man, may pervade all the Nations of the Earth, so that a Philosopher may set his Foot anywhere on its Surface, and say, ‘This is my Country.’”

—Benjamin Franklin

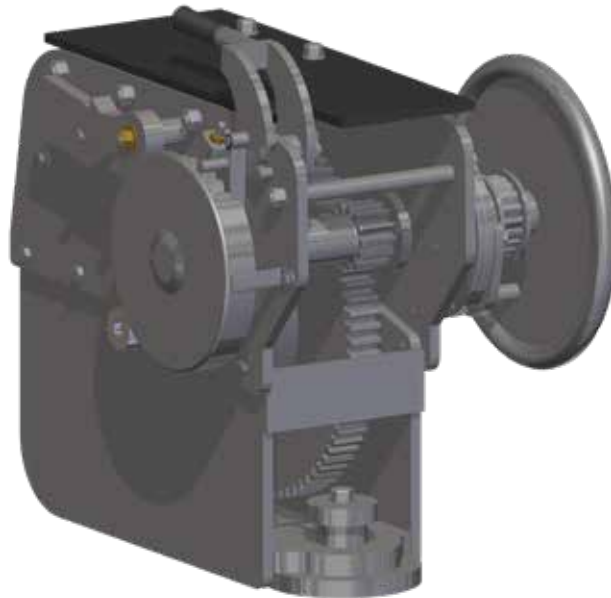


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DF-545 PLANETARY WINCH



- Lowest cost of ownership — SS parts and fasteners attach simple assemblies that are field replaceable.
- Full load release — Patented design. No need to ever beat out the locking dog and built with a stainless brake that will not corrode.
- Two-speed spooling — Fast 5:1 at the handwheel and Powerful 19:1 using the ratchet.
- Compact and easy to maneuver at 690 lbs.
- Wire control — Proven to reduce fouling with easy payout.
- Wire capacity — Drum will spool 70' of 1" wire.
- Durable enclosure — No flimsy guards to get in the way, we use plate and belting.

MODEL No.	HOLDING DOG	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM CAPACITIES (FT)
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	1"
DF-545	40	2,000	18,000	70

Rebellion

"By gnawing through a dyke, even a rat may drown a nation."

—Edmund Burke

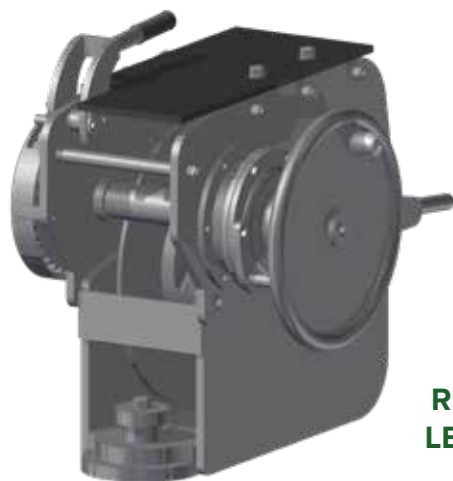
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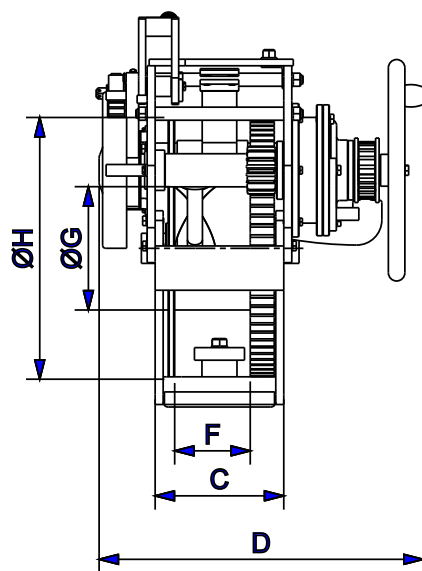
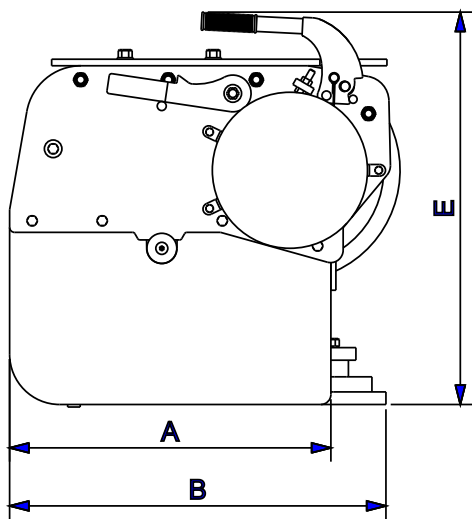


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DF-545 PLANETARY WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	88876	88875

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (LBS)
DF-545	REFER TO COATINGS TABLE	25-15/16"	29-5/8"	10-1/8"	25-1/2"	30-11/16"	6"	9-7/8"	20-1/2"	690

“Tis a Common Observation here that our Cause is the Cause of all Mankind; and that we are fighting for their Liberty in defending our own.”

—Benjamin Franklin

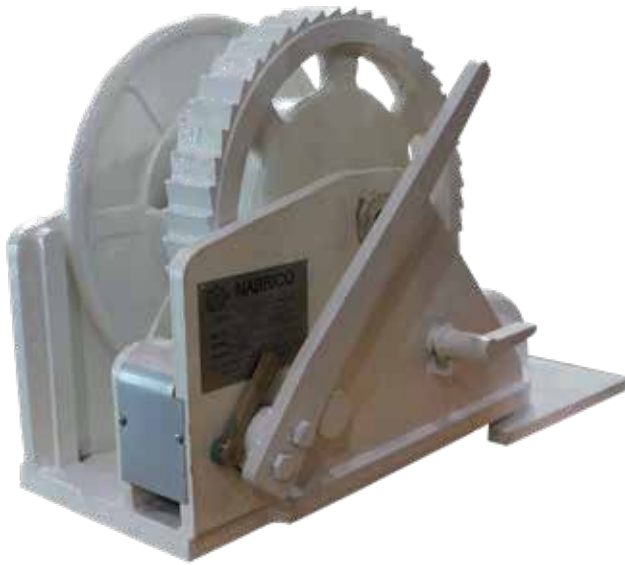


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DF-559 CAST DRUM WINCH



- Ultra low profile.
- Simple to use.
- Low cost, easy maintenance.
- Rope drum wedge wire attachment.
- Nodular iron drum.

- 4140 High strength steel drive system.
- Precision investment cast components.
- SS, bronze and hard chromed moving parts.
- Aftermarket parts for other winches in stock.

MODEL NO.	MOUNT	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER (LBS)	DRUM CAPACITY (FT)		WEIGHT
		S. TONS	RATCHET W/ STD. EXT.	7/8"	1"	LBS
DF-559-40	PADEYE	40	12,000 (est)	70	40	462

"Friends and neighbors complain that taxes are indeed very heavy, and if those laid on by the government were the only ones we had to pay, we might the more easily discharge them; but we have many others, and much more grievous to some of us. We are taxed twice as much by our idleness, three times as much by our pride, and four times as much by our folly."

—Benjamin Franklin

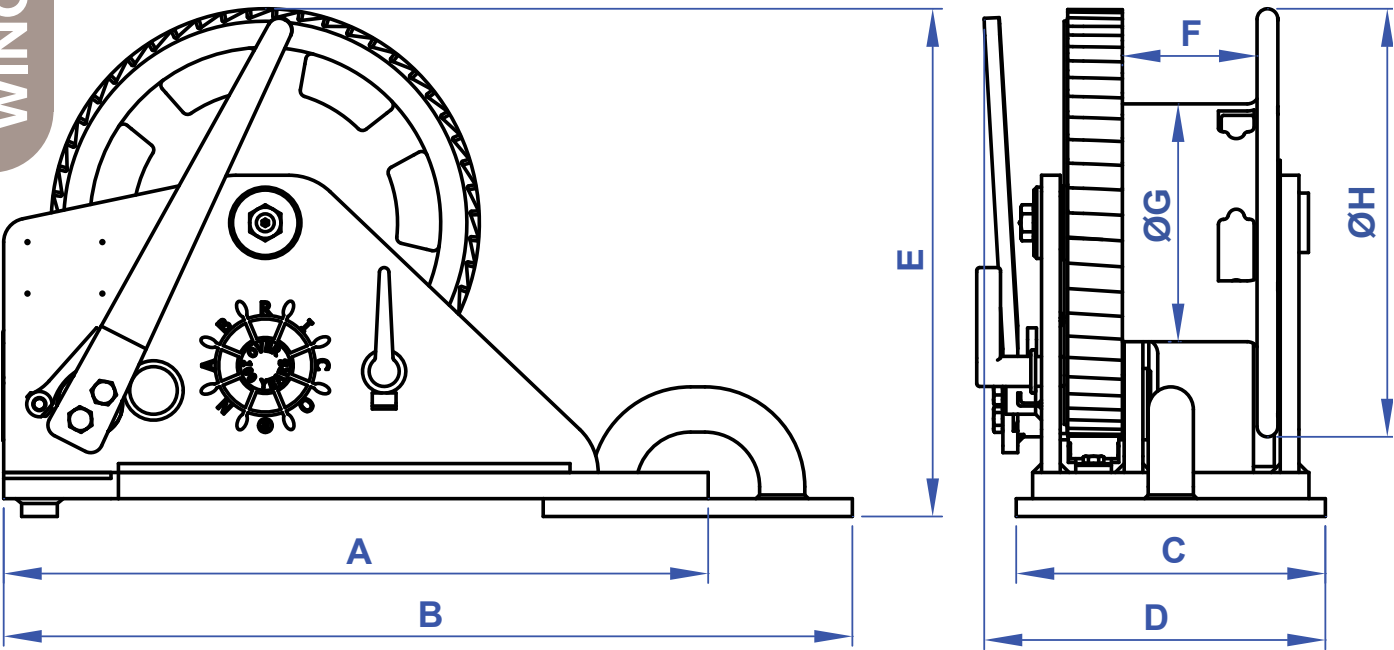
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DF-559 CAST DRUM WINCH



MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-559	55900	29-5/8"	35-11/16"	13"	14-3/8"	21-3/8"	5-2/3"	10"	18"	462

“He who holds parley with vice and dishonor, is sure to become their slave and victim.”

—Fisher Ames*

*Representative in the United States Congress from the 1st Congressional District of Massachusetts and important leader of the Federalist Party in the House.



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PARKER WINCH

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WINCHES



MODEL	HOLDING CAPACITY	LINE PULL @ FIRST LAYER OF CABLE			LINE SPEED @ FIRST LAYER OF CABLE	DRUM DIMENSIONS			DRUM CAPACITY (ft.)					MOTOR
		@ RATED AMPS	@ MOTOR STALL	HAND WHEEL		FLANGE DIAM.	DRUM DIAM.	DRUM WIDTH	CABLE SIZE (in.)					
	S. TONS	LBS.	LBS.	LBS.	FPM	IN.	IN.	IN.	1/2	5/8	3/4	7/8	1	HP
DF-170-25	25	5,800	7,500	7,000	25	14.75	8.00	7.63	230	195	125	90	65	5.4

Parker Towing Winches have been in the marine marketplace for more than fifty years. Still marketed under the Parker name but owned by NABRICO, they benefit from the added support of NABRICO's commitment to quality, inventory maintenance, continuing product improvement and customer service. We offer an electric model and have made it possible for all manual units to be retrofitted.

"Political freedom includes in it every other blessing. All the pleasures of riches, science, virtue, and even religion itself derive their value from liberty alone. No wonder therefore wise and prudent legislators have in all ages been held in such great veneration; and no wonder too those illustrious souls who have employed their pens and sacrificed their lives in defense of liberty have met with such universal applause. Their reputations, like some majestic river which enlarges and widens as it approaches its parent ocean, shall become greater and greater through every age and outlive the ruins of the world itself."

—Benjamin Rush*

* Founding Father of the United States and signer of the Declaration of Independence.

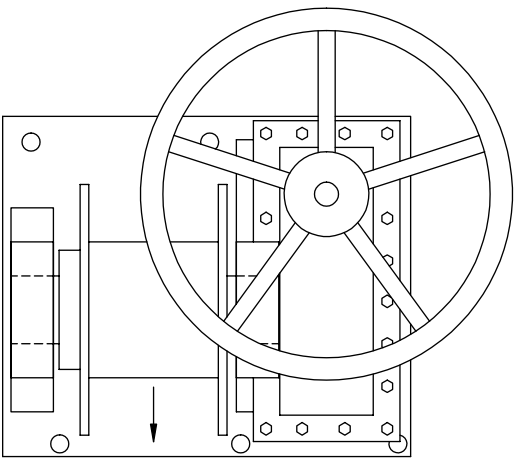
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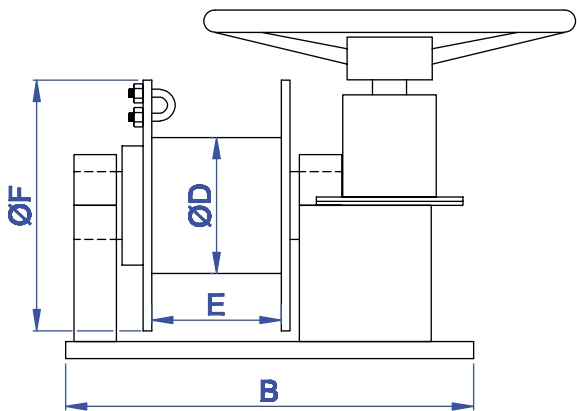
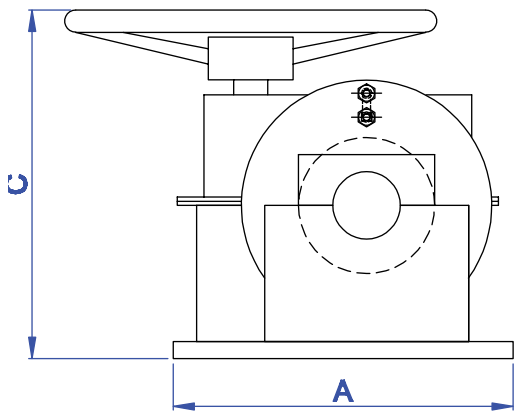


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25 TON PARKER WINCH



LEFT HAND WINCH SHOWN IN MODEL
RIGHT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100506	100501

MODEL No.	PART No.	A	B	C	ØD	E	ØF	WT. (lbs.)
DF-170-25-M	REFER TO COATINGS TABLE	20"	24"	20-1/2"	8"	7-5/8"	14-3/4"	680

“To force a man to pay for the violation of his own liberty is indeed an addition of insult to injury.”

—Benjamin Tucker

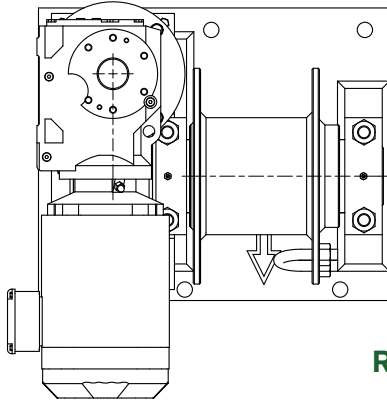


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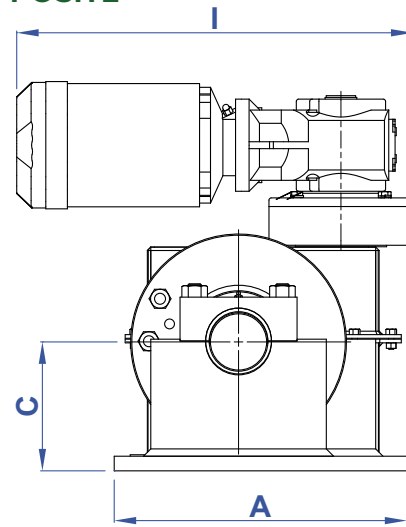
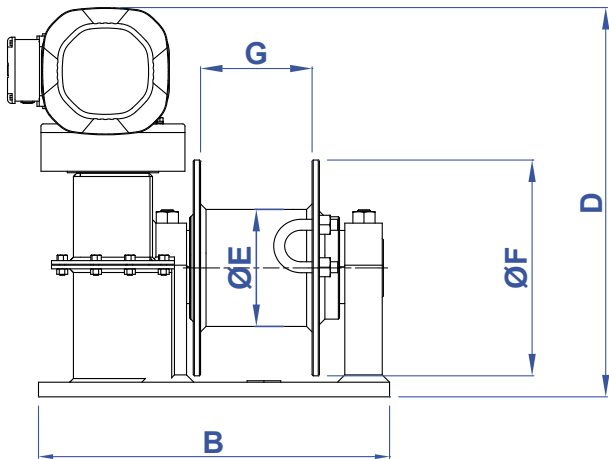
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25 TON PARKER ELECTRIC WINCH



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100507	100502

NOTE:

Electric motor replaces the manual handwheel and attaches to the winch by using the adapter shaft (PN 100708) and adapter ring (PN 100709).

MODEL No.	PART No.	A	B	C	D	ØE	ØF	G	H	WT. (lbs.)
DF-170-25-E	REFER TO COATINGS TABLE	20"	24"	8-13/16"	26-5/8"	8"	14-3/4"	7-5/8"	27"	840

"We must care for each other more, and tax each other less."

—Bill Archer

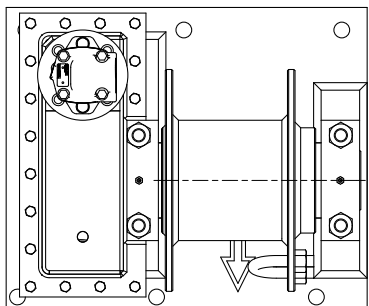
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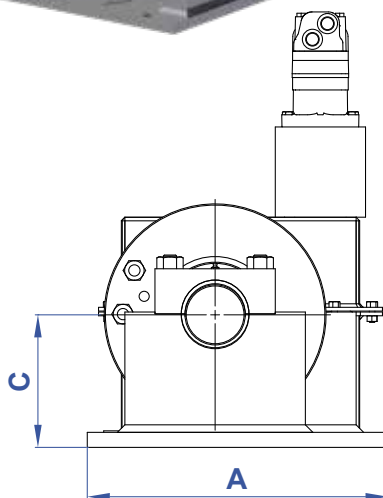
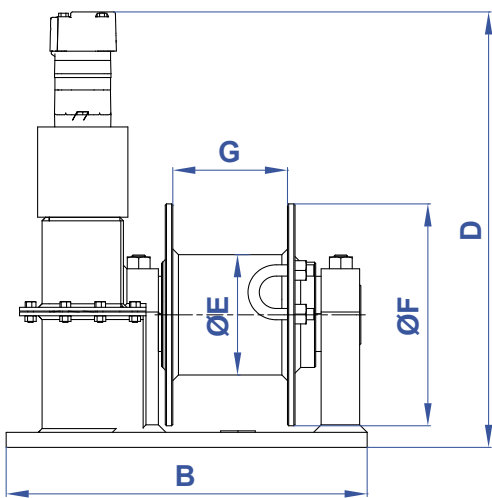


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25 TON PARKER HYDRAULIC WINCH



LEFT HAND
WINCH SHOWN
RIGHT HAND
WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100911	100910

NOTE:
Hydraulic motor replaces the manual handwheel and attaches to the winch by using the adapter shaft (PN 100908) and adapter ring (PN 100909).

MODEL No.	PART No.	A	B	C	D	ØE	ØF	G	WT. (lbs.)
DF-170-25-H	REFER TO COATINGS TABLE	20"	24"	8-13/16"	29"	8"	14-3/4"	7-5/8"	840

"The heart is more than half corrupted, that does not burn with indignation at the slightest attempt to seduce it."

—Fisher Ames*

*Representative in the United States Congress from the 1st Congressional District of Massachusetts and important leader of the Federalist Party in the House.



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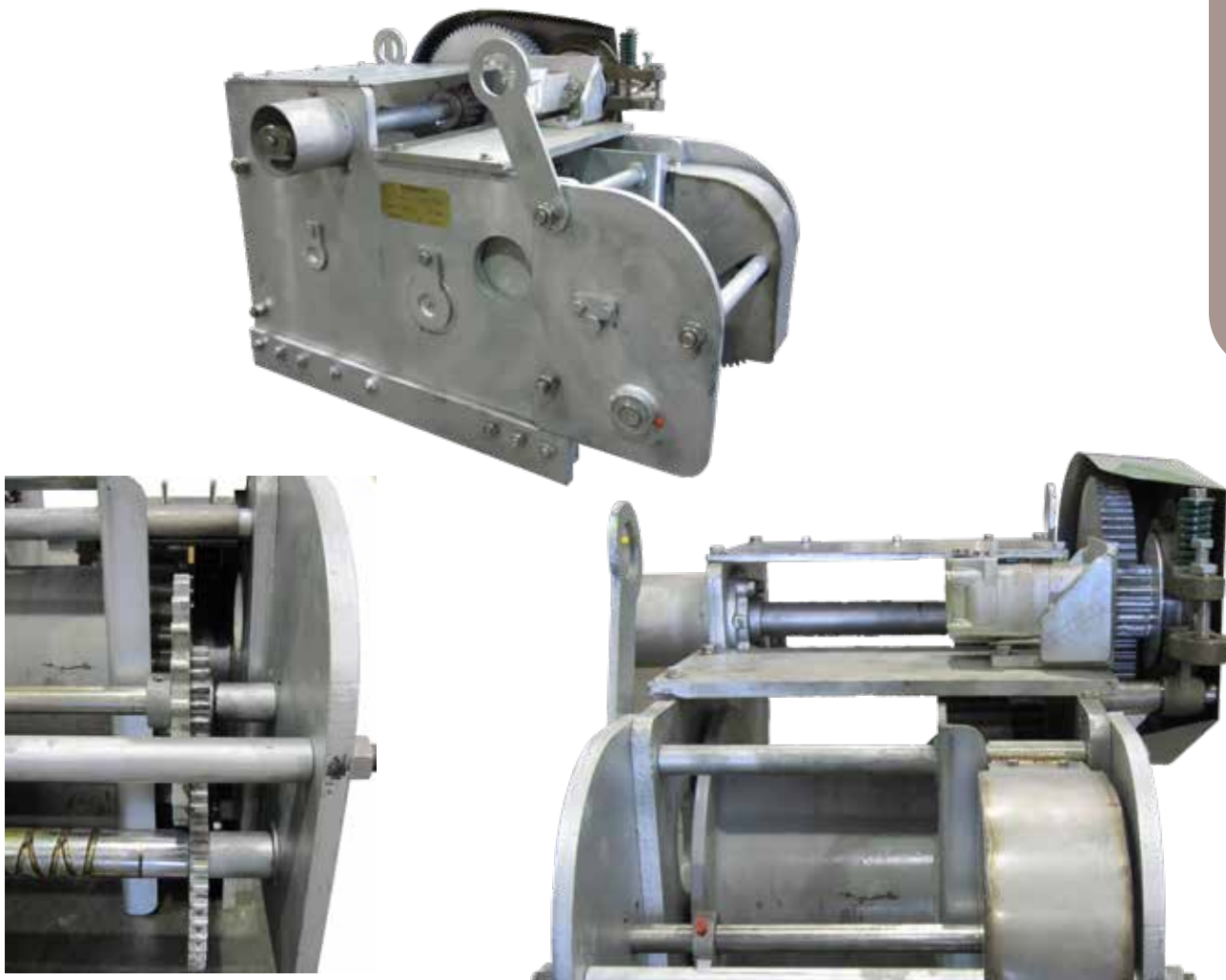
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LEVEL WIND KIT

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WINCHES



NABRICO's Level Wind Kit has the ability to turn our standard DF-156-40 Hydra-Electric or DF-1-40 Electric winches into a winch with a powered level wind. These kits are field retrofits with simple bolt-on replacement. When you purchase the Level Wind Kit, everything is included inside the box with no additional hardware needed. The Level Wind Kit is custom to each specific size of wire rope or synthetic rope to ensure the most uniform winding on the drum, so please let our sales team know what rope type and size you're using when ordering.

"I have discovered in 20 years of moving around the ball park that the knowledge of the game is usually in inverse proportion to the price of the seats."

—Bill Veeck

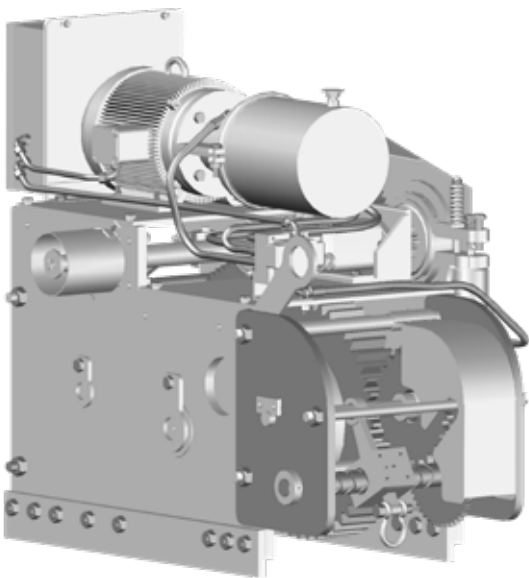
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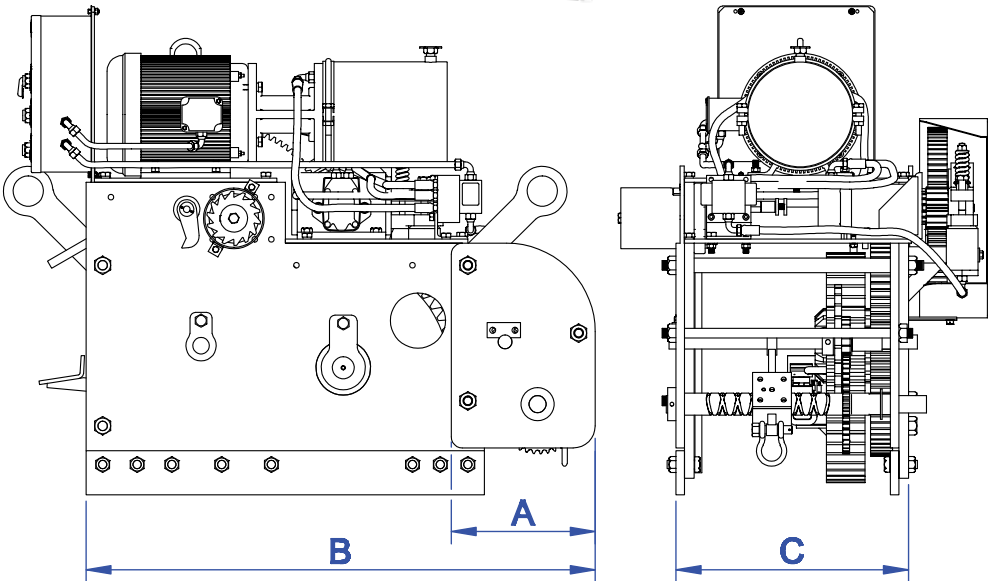


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LEVEL WIND KIT FOR DF-156 HE WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



PART No.	SIZE	LENGTH A	LENGTH B	WIDTH C	WT. (lbs.)
82101-LH 82102-RH	40 TON	13"	46"	21-3/4"	190

“I learned a long time ago that ‘minor surgery’ is when they do the operation on someone else.”

—Bill Walton



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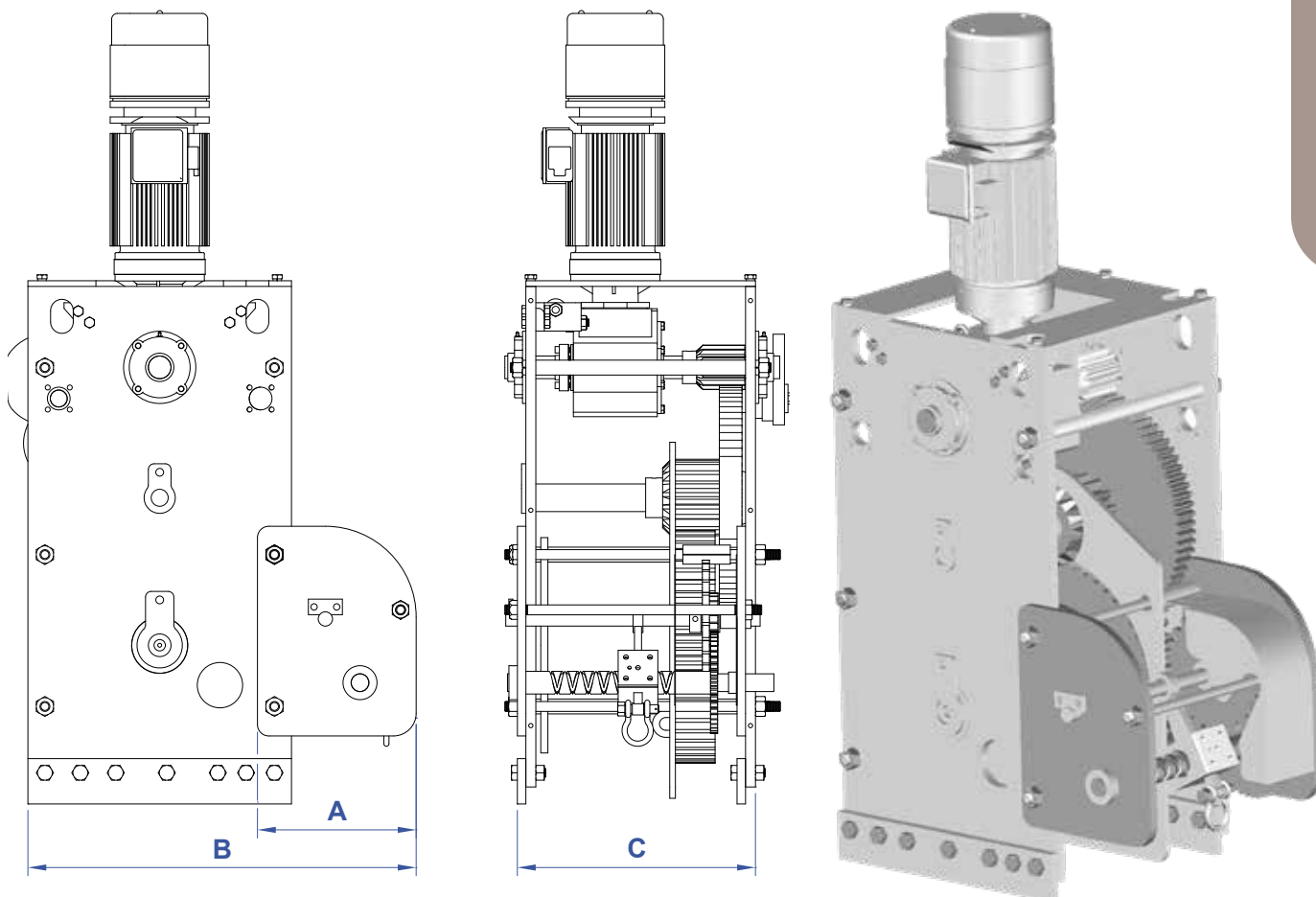
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LEVEL WIND KIT FOR 40 TON ELECTRIC

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WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

PART No.	SIZE	A	B	C	WT. (lbs.)
82097-LH 82098-RH	40 TON	14"	34-1/4"	21-3/4"	190

The Lord answers my prayers everywhere except on the golf course.

—Billy Graham

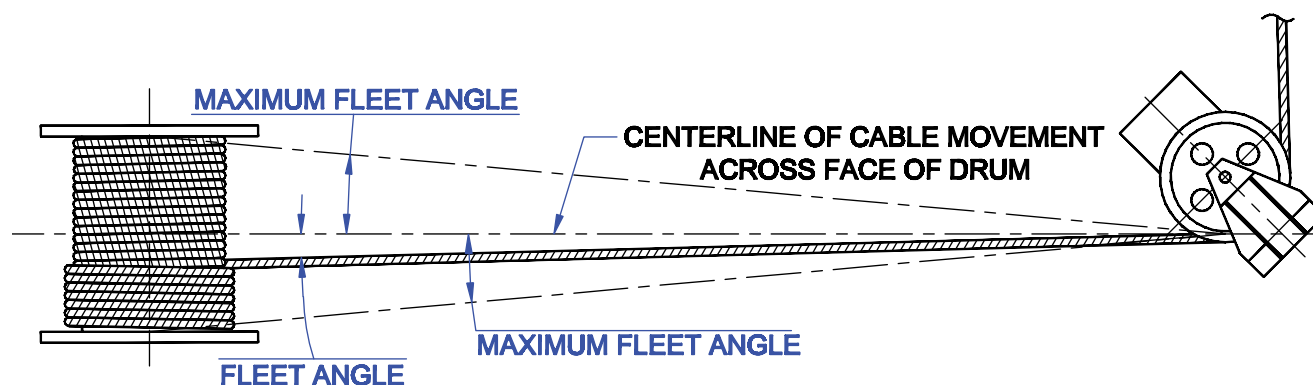
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FLEET ANGLE



Fleet Angle:

In order to insure proper wrapping on the drum and no undue wear of the wire rope, the fleet angle should be kept as small as practical. This is important to consider during the planning of a winch installation. Sheaves and drums should be placed so that the fleet angle will be equal on each side of the centerline of rope travel.

For a smooth drum a maximum fleet angle of 1-1/2 degrees is recommended. When the drum is grooved to suit the wire rope, the fleet angle should not exceed 2 degrees.

Example: Fleet Angle Calculation for 36" Chain Drive Barge Moving Winch

36" Chain Drive Moving Winch

$$a=18"$$

$$b=x \text{ (distance to be determined)}$$

$$A^\circ=1.5^\circ \text{ (maximum for a smooth drum)}$$

$$\tan A = a/b$$

$$\tan 1.5^\circ = 18"/x$$

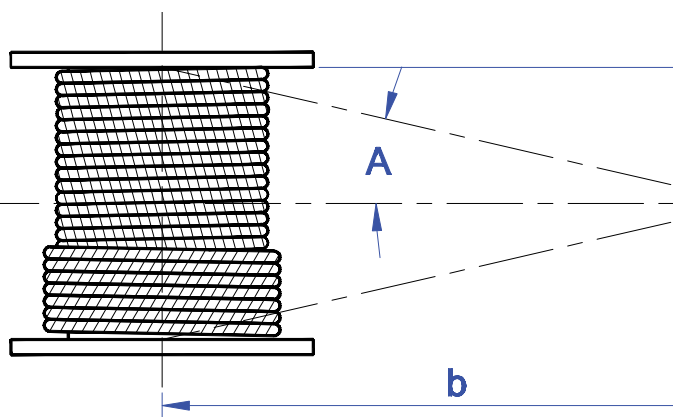
$$.02619 = 18"/x$$

$$x = 18"/.02619$$

$$x \sim 688" \text{ (rounded up to next whole number)}$$

$$x \sim 688" / 12 \text{ (convert to feet)}$$

$$x \sim 58'$$



"I don't expect to win enough games to be put on NCAA probation. I just want to win enough to warrant an investigation."

—Bob Devaney



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