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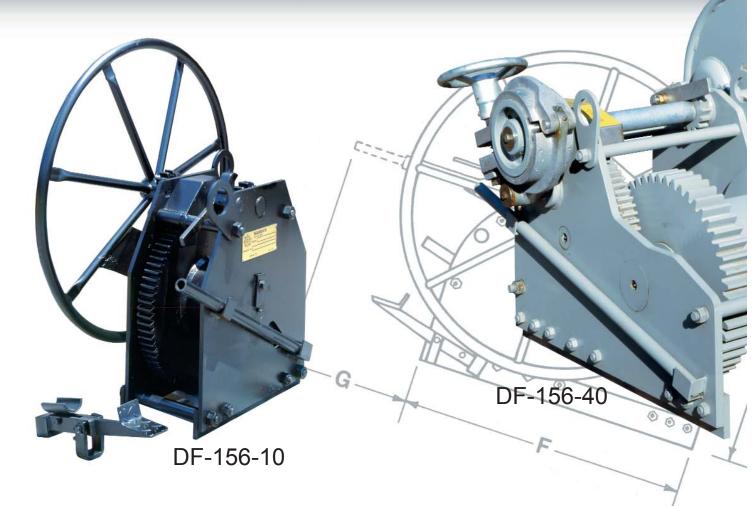
#### PRODUCT NOTICES

**Proprietary Information.** The information and sketches shown in this catalog are proprietary to Nabrico. Duplication, reproduction or manufacture from data contained herein is strictly prohibited.

**Usage Warnings.** All Nabrico Products must be correctly sized, properly located and to serve their intended functions and it is the responsibility of Buyer or End User to insure such action is taken. Please note and consider the following warnings: Improper installation can result in failure of a Nabrico Product. Nabrico Products that have failed because of overloads, or which have been dislodged from foundations, or have fractures and/or deformations should be repaired or replaced immediately. Loads to bitts must be applied to the posts between the base and the midpoint in a horizontal or downward direction. Properly placed chocks will prevent line chafing. Kevels should be installed horizontally on foundation bases of sufficient size, and forces to kevels must be direct to the trunk and not the horns. Horns will fail when exposed to direct loads. And, Nabrico Products are not designed for use to lift a vessel.

**Dimensions.** All dimensions shown in this catalog are in feet and inches. Weights are in English pounds. Capacities are in short tons of 2,000 pounds. Please note that dimensions and weights are nominal and are subject to standard variations. Maximum test pressure on hatches, doors and enclosures is 2 PSI unless advise in writing by Nabrico of a higher allowance. Product details and specifications are subject to change without notice.

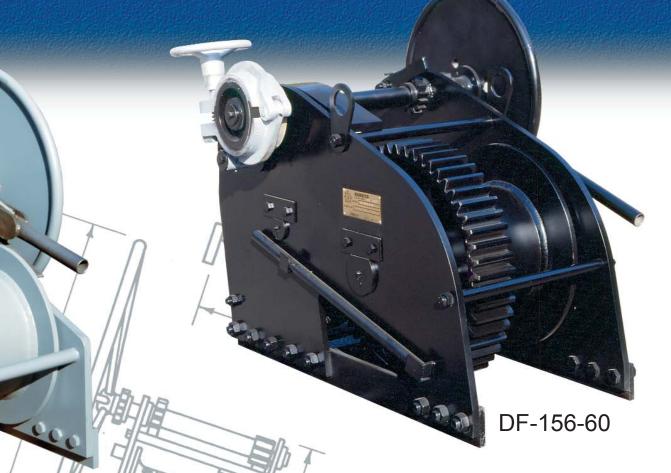




**NABRICO** provides the extra hands you need for fast and sure tow make-up and breakdown with a complete line of hand winches in both right and left hand models. Available in 10, 20, 40 and 60 ton holding capacities, there is a **NABRICO** hand winch to meet the particular needs of your job or installation.

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.

### MANUAL WINCHES



#### Features

- All steel construction.
- Machine cut gears and stainless steel ratchets.
- Bronze bushed bearings.
- Alemite fittings for proper lubrication.
- True right and left hand models for use in pairs.
- · Positive no-slip tension.
- · Fast cranking with handle.

- · Quick release cam action.
- Full load rated hand brake with Stainless Steel braking surface.
- · Corrosion-resistant hardware.
- Lever ratchet for extra high tension.
- Blasted and painted, galvanized and other coatings available.

MODEL	MOUNT	DOG		LINE PULL (1)		DRUM FLANGE	DR	UM	DRUM CAPACITIES (FT.)								WEIGHT	OVER	ALL DIME	NSIONS	
		HOLDING (1)	HANDWHEEL ONE MAN	RACHET W/ STANDARD EXTENSION ONE MAN	RATIO	DIAM.	DIAM	WIDTH (2)	CABLE SIZE					(LBS.)	WIDTH	WIDTH	WIDTH				
6		S.T.	LB.	LB.		IN.	IN.	IN.	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2				
10-6-M	Right/Left	10	5,200	7,000	5.57:1	18	8.625	6.0	353	317	174	129						500	1'77/16"	3'43/4"	4'4"
20-7-M	Right/Left	20	14,000	14,400	18.57:1	16	10.75	7.25	270	186	109	57	39	21				850	2'01/4"	3'35/16"	5'7"
40-11-M	Right/Left	40	14,000	17,800	18.57:1	19	12.75	11.25			287	176	130	84	36	26		1250	2'51/40"	3'6"	6'9"
40-18-M	Right/Left	40	14,000	17,800	18.57:1	19	12.75	18.125			463	279	151	139	58	51		1350	3'01/4"	3'6"	6'9"
60-11-M	Right/Left	60	24,000	28,800	27.0:1	24	14.00	10.625			572	325	262	200	119	111	62	2100	2'87/8"	4'2"	6'8"



Parker Towing Winches have been in the marine market place for more than forty-five

years. Still to be marketed under the Parker name but owned by **NABRICO**, they will benefit from the

retrofitted.



MODEL	BASE DIMENSION	WEIGHT	CAPACITY OF DRUM	RATING	GEAR RATIO	
LR-100	16"X24"	800 lbs.	30' of 1" rope	10 tons	20 to 1	
LL-100	16"X24"	800 lbs.	30' of 1" rope	10 tons	20 to 1	ı
LR-250	20"X24"	850 lbs.	65' of 1" rope	25 tons	30 to 1	ı
LL-250	20"X24"	850 lbs.	65' of 1" rope	25 tons	30 to 1	ı

added support of
NABRICO's commitment
to quality, inventory
maintenance,
continuing product
improvement
and customer
service.
We now offer an
electric model
and have made it
possible for all
manual units to be



## LOW PROFILE

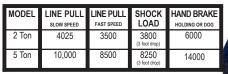
NABRICO offers a variety of Low Profile Winches where space is critical. Models available to weld down or pivot. 40 ton holding capacity. Additional models are available. Inquire for details.

MODEL	MOUNT	HOLDING BRAKE OR DOG	LINE PULL @ First Layer of Cable HAND WHEEL		DRUM FLANGE DIAM.	DIAM	UM WIDTH	DRUM CAPACITIE (F.T.) CABLE SIZE					
			ONE MAN	RACHET HANDLE W/ EXTENSION					CABL	E SIZ	E		
		S. TONS	LBS.	LBS.	IN.	IN.	IN.	5/8	3/4	7/8	1		
DF-525 40-6C	Right or Left	40	2,000	4,800	19.75	8,625	6.0	188	132	95	74		
DF-526 40-6B	Right or Left	40	2,000	4,800	19.75	8,625	6.0	188	132	95	74		



### WINCHES

Ion Hand\* 2 and 5



ALL ABOVE NUMBERS ARE POUNDS

CABLE CAPACITY (FULL DRUM)									
	DRUM WIDTH	1/4	5/16	3/8	7/16	1/2	WEIGHT		
2 Ton	6"	275	200	105	100	60	65		
5 Ton	6"			300	100	170	116		











40 TON BASIC HYDRAULIC

Winch operated by customer supplied hydraulic power or remote mounted power

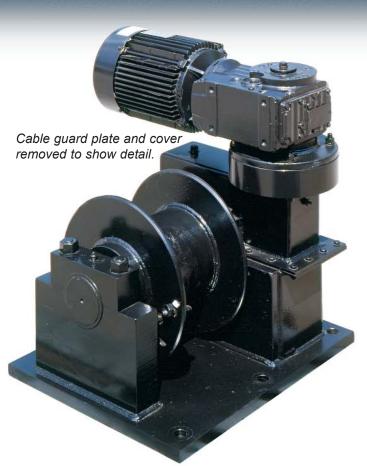
40 TON HYDRA ELECTRIC

#### **Features**

- Self-contained hydraulic/electric power unit with Stainless Steel tank.
- Failsafe brake.
- Mechanical dog for emergency manual operation.
- Hydraulic system prevents power spikes.
- Free-wheeling feature to allow faster cable pull-out.
- Stainless Steel components: control box, guards, tanks and fasteners.

MODE		HOLDING		LINE PULL		LINESPEED		MANUAL			RUM		DRUM CAPACITIES (FT.)			M	OTOR	WEI	EIGHT MOUN		OUNTING DIMENSIONS				
		BRAKE & OR DOG	HYDRA-E RATED (2)	LECTRIC MAX	HAND Wheel	AT DRUM SURFACE	GEAR RATIO	GEAR RATIO	FLANGE DIAM.	DIAM	WIDTH (3)	CABLE SIZE			1		H.E.	BASIC							
		(1)			ONE MAN	NO LOAD	П				(3)												WIDTH	LENGTH	HEIGHT
DF-156		S.T.	LB.	LB.	LB.	FPM			IN.	IN.	IN.	7/16 1/2	5/8	3/4	7/8	1 1	1-1/8	1-1/4 1-	1/2	HP	LB.	LB.			
10-6-HE	Right or Left	10	2272 at 830 psi	3150 at 1119 psi	7,000	23.5	29.25:1	5.57:1	18	8.625	6.00	353 31	174	129			П		Т	3	897	690	10 5/16"	1' 101/12"	3' 6 3/8"
20-7-HE	Right or Left	20	9382 at 1138 psi	11700 at 1381 psi	14,000	17.2	92.86:1	18.57:1	16	10.75	7.25	270 186	109	57	39	21			Т	7.5	1284	1010	1' 3 1/2"	2' 6"	3' 5"
40-11-HE	Right or Left	40	17213 at 1695 psi	18000 at 1797 psi	15,000	12.8	92.86:1	18.576	19	12.75	11.25		287	176	130	84	36	26	Т	10	1930	1518	1' 8 1/8'	3, 0,,	3' 4"
60-11-HE	Right or Left	60	31771 at 1998 psi	33480 at 2105 psi	24,000	9.9	35.201	27.0:1	24	14.00	10.625		572	325	262	200	119	111 6	62	15	3225	2523	1' 11 1/8"	3' 107/8"	4' 3"

### **POWER WINCHES**





**40 TON ELECTRIC** 

#### 25 TON PARKER ELECTRIC

#### **Features**

- Totally enclosed crane and hoist electric motor with high efficiency gear box attached.
- Free-wheeling feature to allow faster cable pullout.\*
- Cable guard prevents cable damage from gears.
- · Quiet operation.

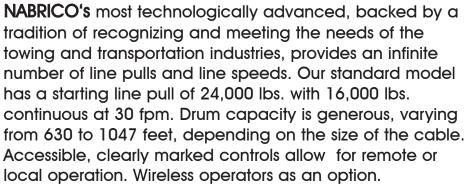
- Provisions for emergency manual operation from three locations. One location utilizes the entire winch gear reduction.\*
- Mechanical locking dog for emergency use in case of motor brake failure.\*
- Minimal maintenance.

\*Not on Parker Winch

MODEL	MOUNT	HOLDING BRAKE & OR DOG	40 TON-4		ST LAYER O IO, 30 TON-3 I HAND		LINESPEED @ FIRST LAYER	DRUM Flang E	DR DIAM	DIAM WIDTH		DRUM CAPACITIES (FT.)  CABLE SIZE		DRUM CAPACITIES (FT.)  CABLE SIZE						MOTOR	WEIGHT	MOUN	TING DIMI	ENSIONS
		(1)	RATED AMPS			CRANK @ TOP SHAFT	OF 1 IN. CABLE NO LOAD	DIAM.		(2)								WIDTH	LENGTH	HEIGHT				
DF-500		S.Tons	LBS.	LBS.	LBS.	LBS.	FPM	IN.	IN.	IN.	1/2	5/8	3/4	7/8	1	HP	LBS.							
60-11-14	Universa I	60	14,000	24,000	15,000	2,500	15.3	19	12.75	11.25		260	180	130	100	10	1,900	1' 9"	3' 8"	3' 51/4"				
40-11-14	Universa I	40	14,000	24,000	15,000	2,500	15.3	19	12.75	11.25		260	180	130	100	5.4	1,900	1' 9"	3' 8"	3' 51/4"				
30-7-15	Universa I	30	13,000	24,000	22,000	4,000	16.0	16	10.75	7.25	186	109	57	39		5.4	1,600	1'33/8"	2' 11/2"	4' 41/4"				
25-10	Right or Left	25	5,800	7,600	NA	5,000	25.0	14.75	8.0	10.25	230	195	125	90	65	5.4	1,400	2' 4"	2' 11/2"	2' 5"				









CABLE	CAPACITY	LINE SPEED	LINE PULL
CABLE SIZE	DRUM CAPACITY	Standard: Infinitely variable	Standard: Infinitely variable
1"	630' @ 4 layers 824' @ 5 layers	from 0-30 fpm.	line pull to 48,000 lbs. at motor stall; 24,000 lbs. starting and
7/8"	695' @ 4 layers 904' @ 5 layers	Custom application up to 50 fpm.	16,000 lbs. continuous.
3/4"	808' @ 4 layers 1047' @ 5 layers		Custom applications are available.

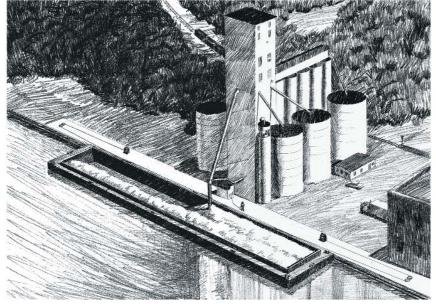
Note: These figures are based on uniform rope winding. The amount of tension applied when spooling the rope will also affect the length.

### **POSITIONING WINCH**

NABRICO's constant tension, all electric positioning winch system consists of two winches, two vector drives, vector motors, helical bevel gearboxes, failsafe brakes, PLC (programmable logic controls) and a solid state regen unit. 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 for extended periods of time. If there should be a loss of power or the emergency stop is pressed, the failsafe brakes hold the load.

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 associated hardware that is a result of starting and stopping.



**NABRICO** pioneered the positioning winch system employing the most recent available technology. 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.





INDEPENDENT TYPE WINDLASS

#### **General Features**

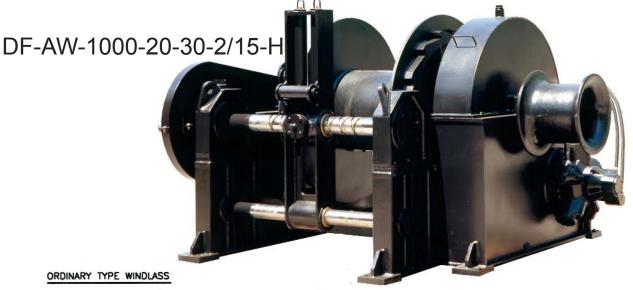
- Fabricated steel construction.
- Three coat zinc and epoxy paint system for complete marine environment protection.
- · Electric or hydraulic power.
- Jaw clutched drum.
- Single or double warping heads.

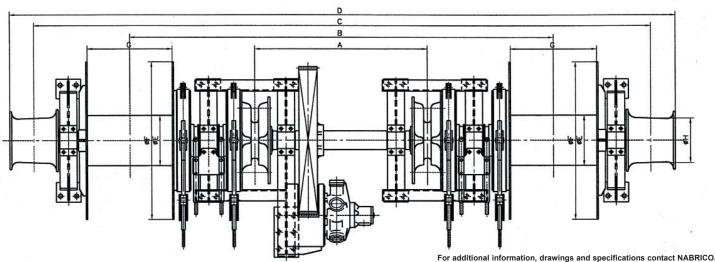
- Spur gear reduction operating in oil bath.
- Level wind available
- Drum band brake and holding dog.
- Drum capacity and line pull to meet customer requirements.

# ANCHOR WINCHES\* & WINDLASSES

- Drum to spool 1200' of 1 3/4 inch diameter wire rope.
- Two 15 inch diameter steel gypsy heads.
- Hydraulic motor with fail safe motor brake.
- 4-way control valve mounted and piped on the winch.
- Manually operated band brake with stainless steel brake and steel hand wheel.
- Lever operated machined jaw clutch.

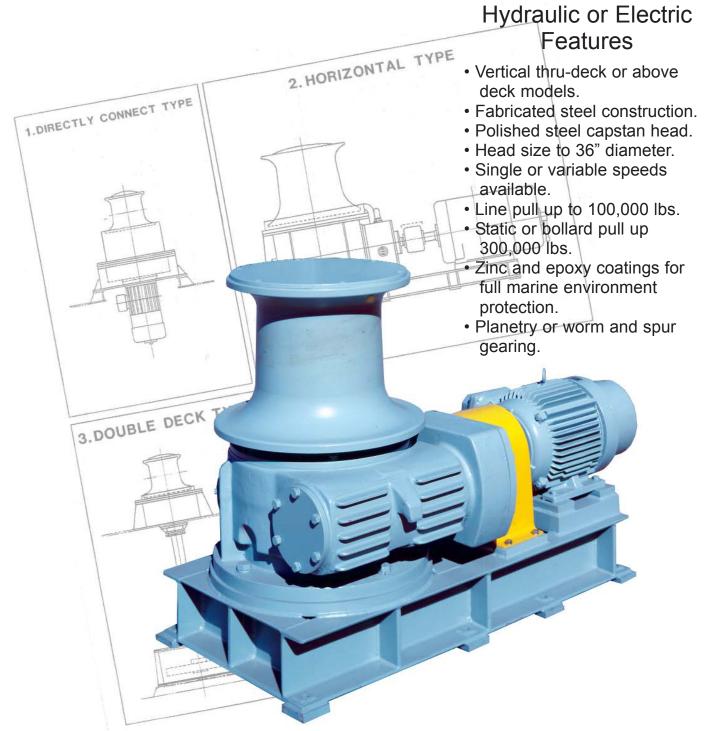
- Wire rope level wind for uniform lay of wire on the drum.
- Ratchet and pawl type holding dog on the drum.
- Rated to lift a 5020 lbs. anchor from 30 fathoms at 30 fpm.
- Rated line pull 20,000 lbs.
- · Other sizes and features available.
- Other available offshore deck machinery; mooring winches, towing winches, anchors, chain and capstans. Contact NABRICO with your specific requirements.







### **ELECTRIC**



### **CAPSTANS**

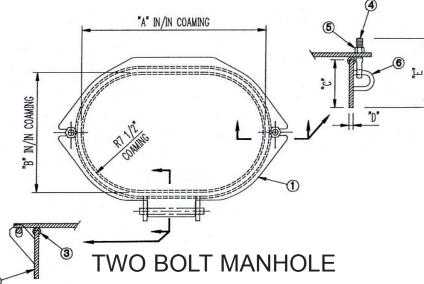
### **HYDRAULIC**





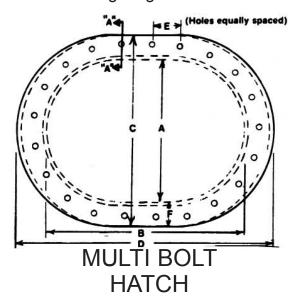


- Sizes: 6", 8" and 10" diameter.
- · Available in Stainless Steel or Carbon Steel.
- · Various coaming heights.



· Various sizes and coaming heights available.

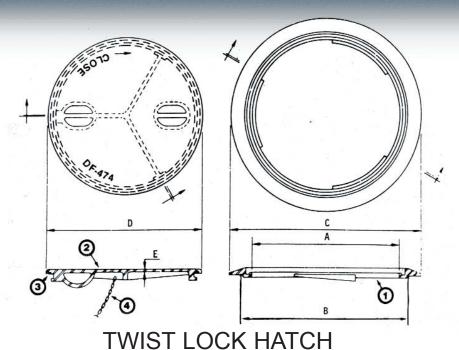
- Carbon Steel and Stainless Steel.
- Varied coaming heights.



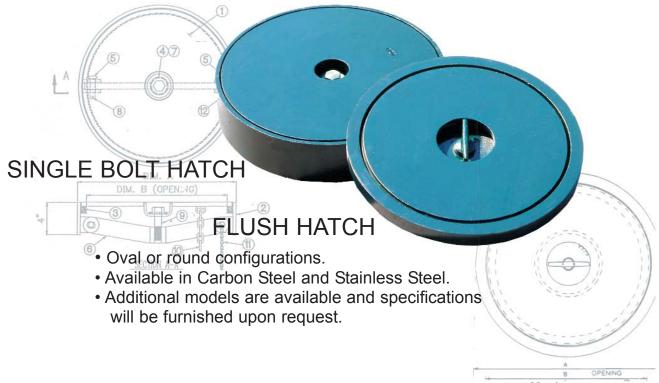
- · Oval or round configurations available.
- · Varied coaming heights.
- · Material fastener and gasket options.

Maximum test pressure: 2psi

# HATCHES



- TWICT ECOICTI
- 18" Diameter.
- Coaming Available.



Maximum test pressure: 2psi





#### **PORT LIGHT**

- · Many varieties available.
- · Material Steel. Stainless Steel and Aluminum available.



#### QUICK ACTING **DOOR**

- Common sizes in stock.
- Doors are suitable for
- a design head of 28'. This product/model is
- covered under ABS (PDA) Certificate #01-
  - HS211271A-PDA, dated 21/Mar/2001.



PIPE SLEEVE

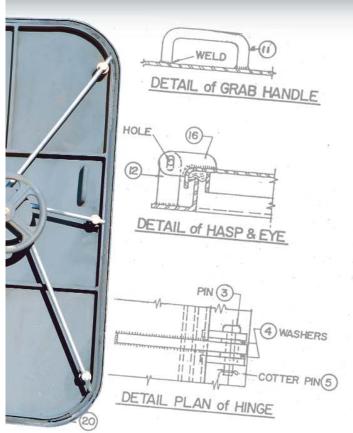
SPRING (27

#### QUICK ACTING HATCH

DOG ARM(9)

- Common sizes in stock. cover
- 24X24X24" hatch is suitable for a design head of 16.9'; 30x30x24" hatch is suitable for design head of 16.6'.
- This product/model is covered under ABS (PDA) Certificate #01-HS211271B-PDA, dated 21/March/2001.

# DOORS & ENCLOSURES





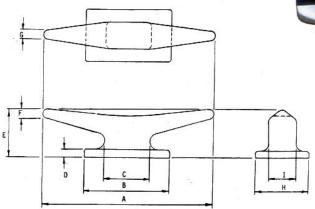
#### 6 DOG DOOR

- Common sizes in stock.
- Doors are suitable for a design head of 28'.
- This product/model is covered under ABS (PDA) Certificate #01-HS195940-PDA, dated 09/Jan/2001.





MARIGO



Nabrico Cast Steel Kevel Sizes: 18" and 24"



Double Bitt
Sizes: 8", 10", 12" and 14"

Nabrico Cast Steel Kevel Chock Sizes: 24", 36", 42" and 48"

DF ABA



Nabrico Steel Button Chock Sizes: 6", 8" and 10"

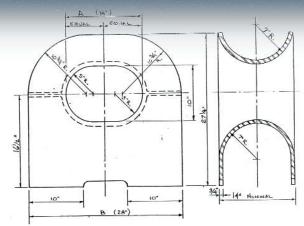


NABRICO will produce custom castings in a variety of materials and employing different methods to meet your specific needs. Contact us with your requirements.

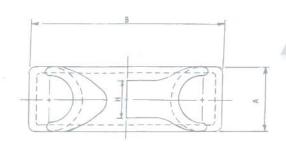
## CASTINGS



**Nabrico** Cast Steel Roller Button Chock Sizes: 12" and 16"



Nabrico Panama Canal Chock







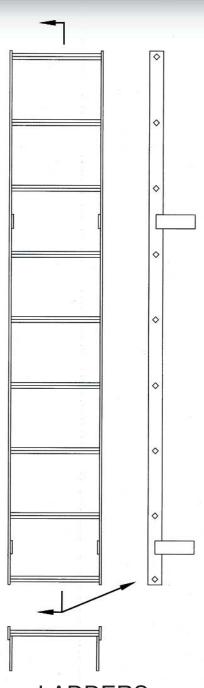
Nabrico Cast Steel D-Ring

Nabrico Cast Steel Chock Sizes: 6" to 12"

NABRICO will produce custom castings in a variety of materials and employing different methods to meet your specific needs.

Contact us with your requirements.





- **LADDERS**
- · Stainless steel and steel. · Various lengths and
- widths.





#### INTERLOCKING PIN

- · Helps maintain tow alignment
- Reduces barge connection shock



- · Various sizes available.
- · Stainless steel options for trunk/hatch/ullages and fasteners.
- Custom coatings available





# **ACCESSORIES**



Nabrico steel suction
Bellmouth

Sizes: 6", 8" and 10"

#### WARNING

DANGEROUS CARGO NO SMOKING NO OPEN LIGHTS

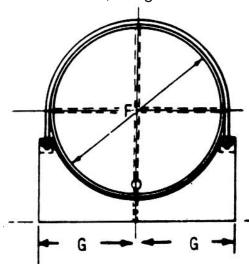
NO VISITORS

#### FLAG POLE SIGN

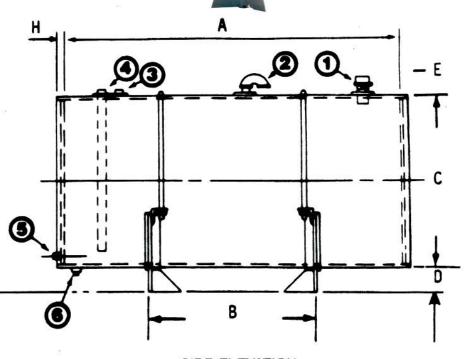
- Light holder.
- Warning sign.
- Loading/unloading flag.
- Document holder available.

#### **FUEL TANK**

• Fuel tanks are available in sizes from 300 to 15,000 gallons.



END ELEVATION

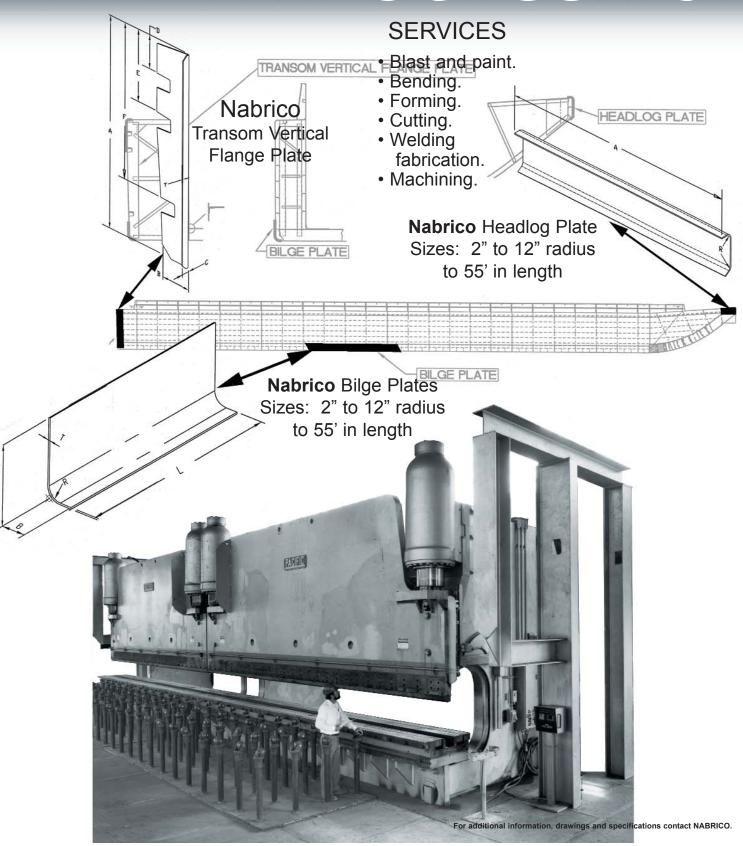


SIDE ELEVATION





# CRANES & STEEL PROCESSING



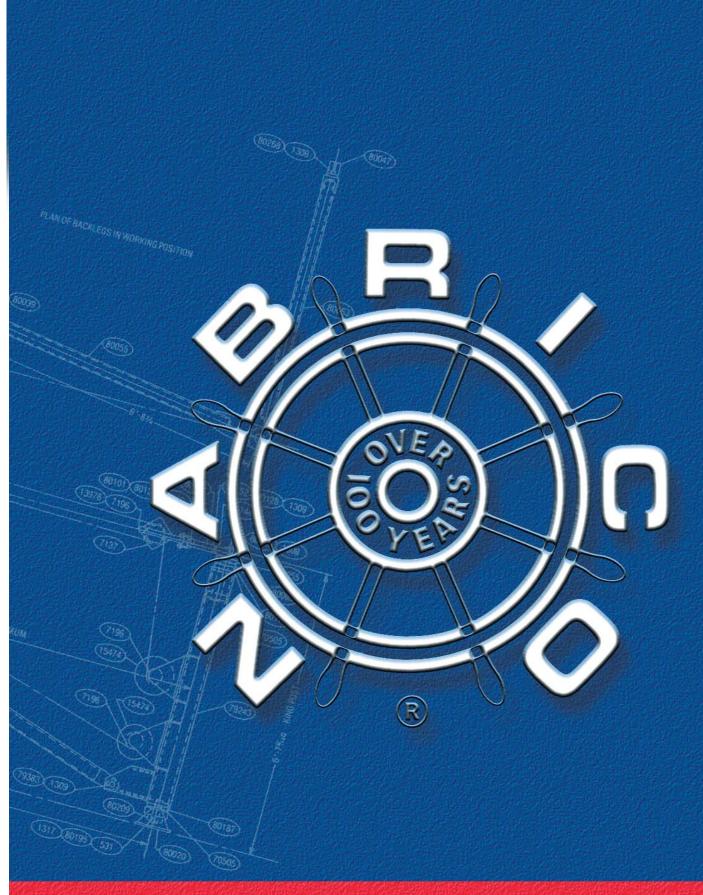


### PRODUCT WARRANTY

NABRICO warrants that all NABRICO products shall be free from defects in material and workmanship during the Warranty Period (as hereinafter defined); provided, however, that NABRICO's warranty hereunder shall not apply to any equipment, material or components that is not manufactured by NABRICO, and NABRICO makes no express or implied warranty that any such equipment, material or components are free from manufacturer or supplier defects. To the extent doable, NABRICO agrees to transfer and assign to a Buyer or End User any warranties extended by the manufacturer or supplier of such equipment, material or components. NABRICO shall have no obligation or responsibility to repair or replace any defective NABRICO Product if a notice of defect is not reported in writing to NABRICO within 180 days from the date of shipment of any NABRICO Winch Products and 90 days from the date of shipment of any other NABRICO Products (such 180 day and 90 day periods are hereinafter referred to as "Warranty Period").

In the event Buyer or any End User timely notify NABRICO in writing of any claim of defect covered by this warranty, NABRICO shall correct the nonconforming work by making repairs or replacements, at NABRICO's option and at NABRICO's expense, if NABRICO's examination shall disclose to its satisfaction that all or a portion of the NABRICO Product is defective. However, this warranty is conditional upon compliance by the Buyer or End User with loading, use and handling in accordance with good commercial practices of the trade, and NABRICO shall not be responsible for defects caused by misloading, overheating, improper cleaning, misapplication, physical abuse or from normal wear and tear. This warranty is void where any NABRICO Product has been altered or repaired by anyone other than NABRICO or its authorized agent.

THE WARRANTY AND REMEDIES SET FORTH HEREIN ARE IN SUBSTITUTION OF AND IN LIEU OF ANY AND ALL OTHER WARRANTIES AND REMEDIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE CONSTRUCTION, DELIVERY AND SALE OF A NABRICO PRODUCT, AND NABRICO SHALL, FOLLOWING SAID DELIVERY AND SALE, IN NO EVENT BE LIABLE TO BUYER OR ANY END USER FOR THE BREACH OF ANY WARRANTY, GUARANTY, OR REMEDY, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, EXCEPT AS SPECIFICALLY SET FORTH ABOVE. EXCEPT AS PROVIDED HEREIN, NABRICO SHALL AT NO TIME AND IN NO EVENT BE LIABLE TO BUYER OR ANY END USER OR TO ANYONE CLAIMING TO OR THROUGH BUYER OR ANY END USER FOR LOSS OR DAMAGES OF ANY KIND. INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFITS RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, ANY ACT, ERROR, OMISSION, NEGLIGENCE, STRICT LIABILITY, TORT, PRODUCT LIABILITY, OR OTHERWISE OF NABRICO, ITS EMPLOYEES OR SUBCONTRACTORS.



### **NABRICO PRODUCTS**

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