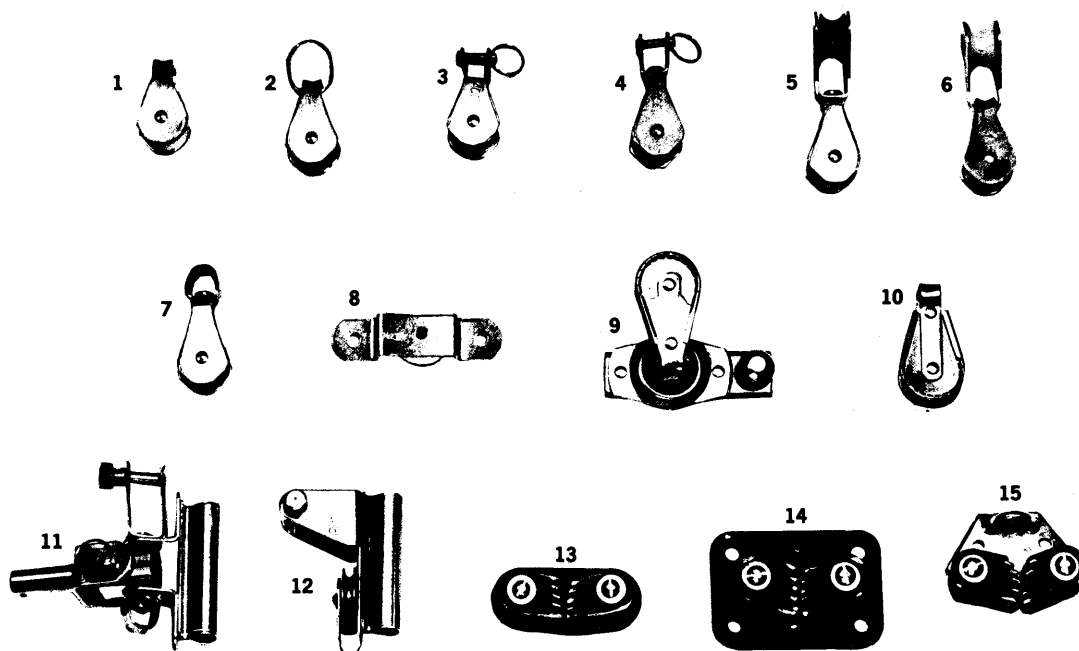




SAILBOAT HARDWARE



PRAM AND DINGHY BLOCKS

Smaller compact versions of the standard racing blocks. Strong, one-piece Stainless Steel shell $\frac{1}{8}$ " thick. Smooth running Nylon sheave, $\frac{1}{4}$ " diameter, accommodates $\frac{3}{16}$ " rope. The finest in running gear for the many smaller boats that require quality hardware with guaranteed performance. Also ideal equipment for production builders of small craft who desire a standard line of dependable light-duty fittings.

NEW! Available with black sheaves. Specify B Following Part No.

1. 812-2010 **Single Block**. Weight $\frac{1}{2}$ oz. Strength 600 lbs.
2. NEW! 812-2011 **Single Block with Ring**. Weight $\frac{3}{4}$ oz. Strength 600 lbs.
3. 812-2030 **Shackle Block**. Weight $\frac{3}{4}$ oz. Strength 600 lbs.
4. 812-2050 **Swivel Shackle Block**. Weight $\frac{3}{4}$ oz. Strength 600 lbs.
5. 812-2060 **Traveller Rig**. Weight 1 oz. Strength 600 lbs.
6. 812-2070 **Traveller Rig**. Weight 1 oz. Strength 600 lbs.
7. 812-2210 **Swivel Eye Block**. Weight
8. 812-3400 **Outhaul Block**. 812-3409 **Stainless Steel Sheave for Cable**.

MISCELLANEOUS BLOCKS AND FITTINGS

9. 812-3481 **Jib Sheet Leader**. For $\frac{5}{16}$ " Sailtrack Nylon $1\frac{1}{16}$ " sheave for $\frac{3}{16}$ " to $\frac{5}{16}$ " rope. Weight 2 oz.
- 812-3482 **Jib Sheet Leader**. For $\frac{5}{8}$ " Sailtrack Nylon $1\frac{3}{16}$ " sheave for $\frac{5}{16}$ " to $\frac{7}{16}$ " rope. Weight $3\frac{1}{4}$ oz.
- 812-4482 **Jib Leader**. Same as RL-348-B but for $\frac{7}{8}$ " track. Weight $3\frac{1}{2}$ oz.
10. 812-3530 **Bullet Block**. Sheave $1 \times \frac{5}{16}$ " for $\frac{1}{4}$ " rope.
11. 812-2524 **Gooseneck with Captive Clew**, *Captive Clew available on any Goosenecks shown on page 6 by designating an X after the part number.
12. 812-2700 **Clew Outhaul for $\frac{1}{2}$ " luff groove**. 812-2709 **Stainless Steel Sheave**.
13. 812-2600 **Cam Cleats**. Glass filled celeon jaws.
14. 812-2610 **Cam Cleats**.
15. 812-2620 **Cam Cleats stainless steel base**.

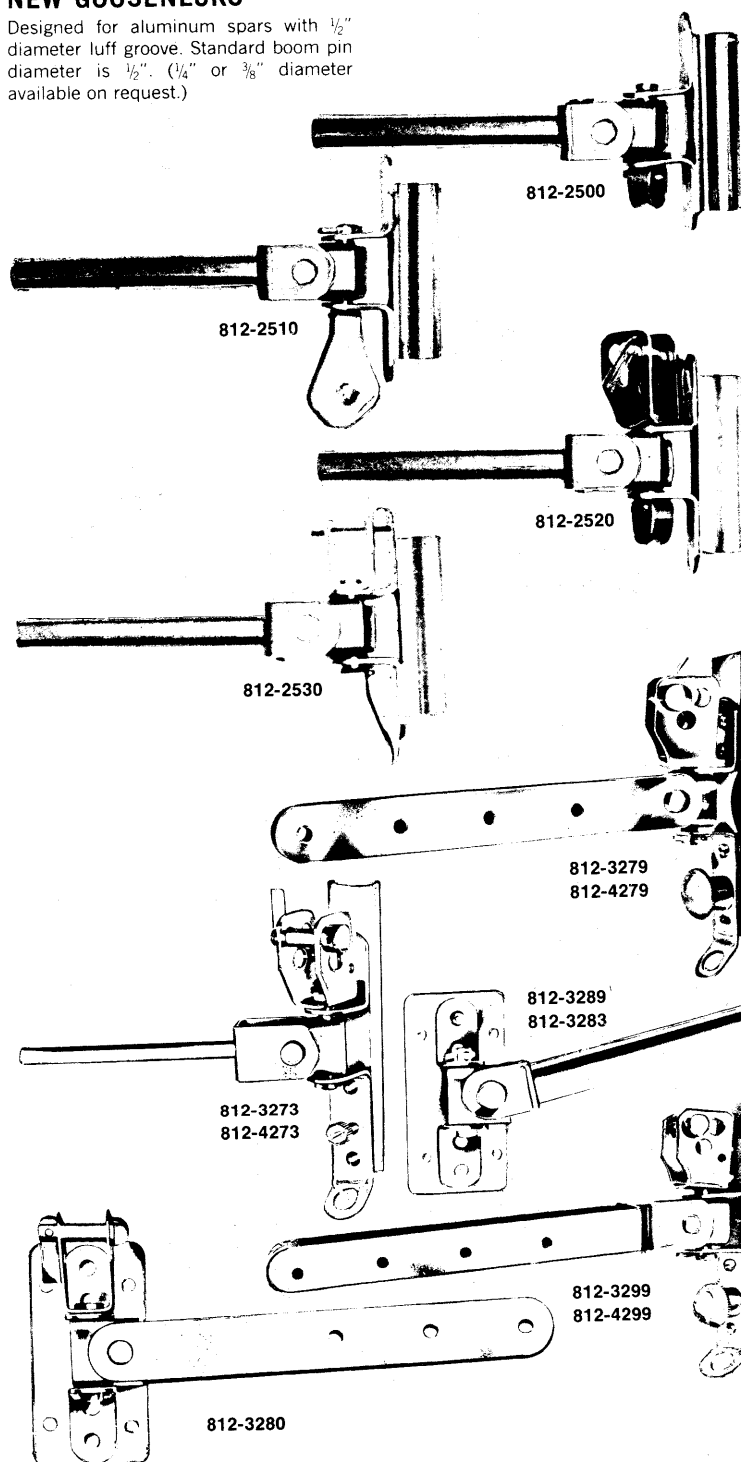


W.J. KEATING LIMITED

SAILBOAT HARDWARE

NEW GOOSENECKS

Designed for aluminum spars with $\frac{1}{2}$ " diameter luff groove. Standard boom pin diameter is $\frac{1}{2}$ ". ($\frac{1}{4}$ " or $\frac{3}{8}$ " diameter available on request.)



LUFF GROOVE ROLLER REEFING GOOSENECK

With eye for downhaul.

812-2500 Weight 7 oz.

With integral downhaul block for precise control of luff tension.

812-2510 Weight $7\frac{1}{2}$ oz.

With 3-position tack fitting, no-lose toggle pin, and downhaul eye.

812-2520 Weight 8 oz.

With 3-position tack fitting, no-lose toggle pin, and integral downhaul block. Exclusive design puts downhaul force in the same plane as upward force from the bolt rope. Prevents gooseneck slide from jamming in track.

812-2530 Weight $8\frac{1}{2}$ oz.

SLIDING GOOSENECK

Three tack positions. 4" slide. Features new spring loaded adjusting button for Sail Track. Weight 6 oz.

812-3279 $\frac{5}{8}$ " Track. 812-4279 $\frac{7}{8}$ " Track.

Same construction as RL-327-SP but with standard RL-25 Thumbscrew for Sail Track.

812-3270 $\frac{5}{8}$ " Track. 812-4270 $\frac{7}{8}$ " Track.

FIXED GOOSENECK

Strong, Stainless Steel plate $1\frac{1}{2}$ " x 3" for round or square masts. Complete with toggle pin. Weight 5 oz.

812-3280 Gooseneck.

ROLLER REEFING GOOSENECKS

812-3289 $\frac{1}{2}$ " diameter Stainless Boom Pin. $3\frac{1}{2}$ " long. Plate $1\frac{1}{2}$ " x 3".

812-3283 $\frac{1}{4}$ " diameter Stainless Boom Pin. $3\frac{1}{2}$ " long. Plate $1\frac{1}{2}$ " x 3".

812-3273 $\frac{1}{4}$ " diameter Stainless Boom Pin. $3\frac{1}{2}$ " long on slide for $\frac{5}{8}$ " track.

812-4273 same as RL-327-M but on slide for $\frac{7}{8}$ " track.

SWIVEL SLIDING ROLLER REEFING GOOSENECKS

Three tack positions. 4" slide. New spring loaded adjusting button for Sail Track. Weight 7 oz.

812-3299 $\frac{5}{8}$ " Track. RL-329 (with RL-25)

812-4299 $\frac{7}{8}$ " Track. RL-429 thumbscrew)

NOTE: To compensate for extra strain of boom vang, heavier clews and brackets are standard on all RACE-LITE goosenecks.



W.J. KEATING LIMITED

SAILBOAT HARDWARE



RL-344 CHAIN PLATE COVERS

Plate 2" long, 1" wide. Takes #6 Screws.

812-3441 — Slotted for $\frac{3}{4}$ " x $\frac{1}{8}$ " Chain Plates.

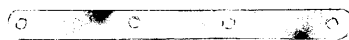
812-3442 — Slotted for 1" x $\frac{1}{8}$ " Chain Plates.



$\frac{1}{2}$ " TANG MATERIAL

To accommodate the needs of builders and sailors in fabricating tang assemblies, twelve stock lengths are offered, with a $\frac{3}{16}$ " hole in each end. Widths $\frac{3}{4}$ " and $\frac{1}{2}$ ". All $\frac{1}{8}$ " thick. Round edge stock. Electropolished.

Cat. No.	Tang Length
812-3393	3"
812-3394	4"
812-3395	5"
812-3396	6"
812-3397	7"
812-3398	8"
812-3399	9"
812-3390	10"
812-3391	11"
812-3392	12"



CHAIN PLATES

Cat. No.	812-3970	812-3980
Length	7"	10 $\frac{1}{2}$ "
Width	1"	1"
Thickness	$\frac{5}{16}$ "	$\frac{5}{16}$ "
Size Screws	#10	#10

Cat. No.	RL-380	RL-381
Width	$\frac{3}{4}$ "	$\frac{1}{2}$ "
Length	6"	6"
Thickness	$\frac{1}{16}$ "	$\frac{1}{16}$ "



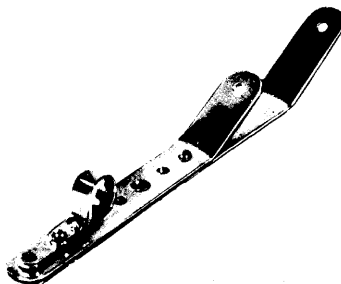
CHANNEL PLATE

Can be used for stay adjustment.

Cat. No.	812-3520
Length	4"
Width	$\frac{5}{8}$ "
Height	$\frac{5}{8}$ "
(3) bottom holes take	#8 Screws
Thickness	$\frac{5}{16}$ "

$\frac{3}{4}$ " TANG MATERIAL

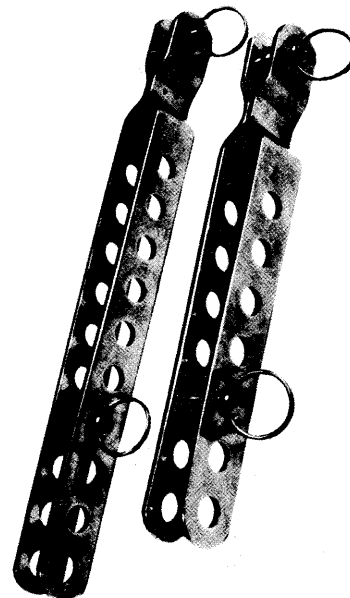
Cat. No.	Tang Length
812-3202	2"
812-3203	3"
812-3204	4"
812-3205	5"
812-3206	6"
812-3207	7"
812-3208	8"
812-3209	9"
812-3210	10"
812-3211	11"
812-3212	12"



JIBSTAY TANG ASSEMBLY

Single, compact assembly, consisting of jibstay tang, jib halyard tang, and loop for spinnaker halyard. Loop will take RL-305 or RL-355 blocks. Assembly fits recess of RL-364 Vee Strut Fitting, and secures with $\frac{1}{4}$ " throughbolts. Material $\frac{3}{4}$ " wide x $\frac{1}{8}$ " thick. 8" overall length. Weight 3 oz.

812-3640 Tang Assembly.

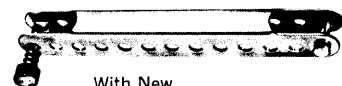


SHROUD ADJUSTERS

Especially useful on catamarans. 7 or 10 positions with Clevis pins in each end. Stainless Steel.

812-2452 10 positions, 7" long

812-2459 7 positions, 5" long



With New Captive Pin

SHROUD ADJUSTERS

Open construction for easy adjusting. 12 positions. Fits new RL-47 and -48 slides. With spring tension captive pin for quick release when taking down mast. No strain. No cotter pins. 5" long.

Cat. No.	812-3496
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Standard (2) Clevis Pins

Same features as above, but without new captive pin. $\frac{3}{16}$ " diameter clevis pins.

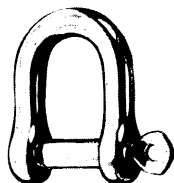
Cat. No.	812-3490
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W.J. KEATING LIMITED

SAILBOAT HARDWARE

SHACKLES



"D" SHACKLES

Drop Forged Type 316 Stainless Steel.

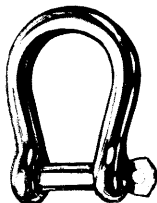
	Pin Dia.	Inside Length	Throat	Safe Working Load
812-1403	1/4	13/16	15/32	1320 lbs (600 kg)
812-1404	5/16	1 1/4	5/8	2200 lbs (1000 kg)
812-1405	13/32	1 3/8	25/32	3300 lbs (1500 kg)



TWISTED SHACKLES

Drop Forged Type 316 Stainless Steel.

	Pin Dia.	Inside Length	Throat	Safe Working Load
812-1423	5/16	1	5/8	2200 lbs (1000 kg)
812-1424	3/8	1 3/16	11/16	2750 lbs (1250 kg)
812-1425	7/16	1 1/2	13/16	3300 lbs (1500 kg)



BOW SHACKLES

Captive Pin Bow Shackles. Drop Forged Type 316 Stainless Steel.

	Pin Dia.	Inside Length	Throat	Safe Working Load
812-1443	1/4	1 1/16	15/32	1320 lbs (600 kg)
812-1444	5/16	1 15/32	5/8	2200 lbs (1000 kg)
812-1445	13/32	1 13/16	25/32	3300 lbs (1500 kg)

BRONZE SCREW PIN SHACKLE

	Pin Dia.	Inside Length	Throat	Max. Working Load
812-3555	3/8	1 1/4	9/16	1300 lbs.
812-3551	5/8	2	7/8	2500 lbs.

FAST EYESNAP SHACKLE

Drop Forged Type 316 Stainless Steel.

	Length	Jaw Dia.	Use. Rg. Dia.	Safe Working Load
812-4710	2	5/8	13/32	3300 lbs (1500 kg)
812-4720	2 3/4	7/8	1/2	6400 lbs (2900 kg)



SWIVEL EYE SNAP SHACKLE

Drop Forged Type 316 Stainless Steel.

	Use. Jaw	Use. Rg. Dia.	Safe Working Load
812-1473	2 3/4	5/8 9/16	1100 lbs (500 kg)
812-1475	3 1/2	7/8 27/32	1980 lbs (900 kg)



STAMPED "D" SHACKLES

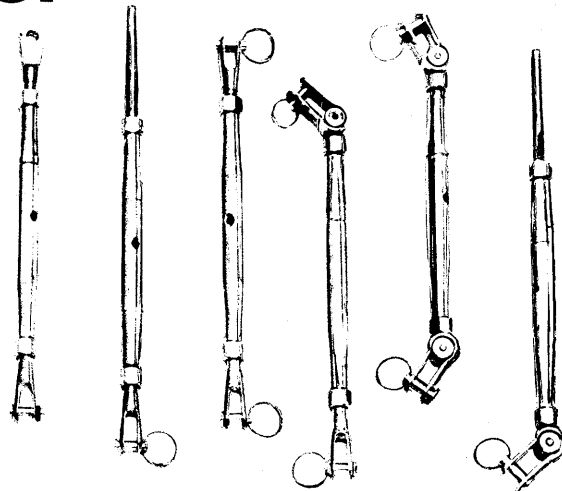
	Pin Dia.	Inside Length	Throat
812-2300	1/4	7/8	3/8
812-2350	3/8	7/8	5/8



W.J. KEATING LIMITED

NEW STYLE TURNBUCKLES:

COMBINING THE BEST FEATURES
OF THE STANDARD AND SURE
LOCK TURNBUCKLES



Part No.	Type	Wire Size	Thread	Length		Pin	Right Hand	Left Hand
				Closed	$\frac{2}{3}$ Open			
1812-3551	Jaw & Jaw	$\frac{1}{16}$ "	10-32	$4\frac{3}{8}$	$5\frac{1}{4}$	RL-1	RL-30-ARH	RL-30-ALH
1812-3382	Jaw & Swaged End	$\frac{1}{16}$ "	10-32	$4\frac{3}{8}$	$5\frac{1}{4}$	RL-1	RL-38-AB	RL-30-ALH

2" Barrel. Approximate tensile strength over 1700 lbs. Thread size 10-32. Inside width of jaw $\frac{5}{32}$ ". Length between centers: closed $4\frac{3}{8}$ ", $\frac{2}{3}$ open $5\frac{1}{4}$ ". Weight 1 oz.

1812-3352	Toggle & Toggle	$\frac{1}{16}$ - $\frac{3}{32}$	12-28	$6\frac{1}{2}$	9	RL-2	RL-59-RH	RL-59-LH
1812-3350	Jaw & Toggle	$\frac{1}{16}$ - $\frac{3}{32}$	12-28	$6\frac{1}{2}$	9	RL-2	RL-59-RH	RL-30-BLH

$3\frac{1}{2}$ " Barrel. Approximate tensile strength over 2200 lbs. Thread size 12-28. Inside width of jaw $\frac{1}{4}$ ". Length between centers: closed $6\frac{1}{2}$ ", $\frac{2}{3}$ open 9". Weight $2\frac{1}{4}$ ozs.

812-3350	Jaw & Jaw	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-30-CRH	RL-30-CLH
812-3351	Jaw & Jaw	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2-0	RL-30-CRH	RL-30-CLH
812-3352	Toggle & Toggle	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-60-RH	RL-60-LH
812-3353	Toggle & Toggle	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-3	RL-60-RH($\frac{1}{4}$)	RL-60-LH($\frac{1}{4}$)
812-3354	Jaw & Toggle	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-60-RH	RL-30-CRH
812-3385	Jaw & Swaged End	$\frac{3}{32}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-38-CC	RL-30-CLH
812-3386	Toggle & Swaged End	$\frac{3}{32}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-38-CC	RL-60-LH
812-3387	Jaw & Swaged End	$\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-38-CD	RL-30-CLH
812-3388	Toggle & Swaged End	$\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-38-CD	RL-60-LH
812-3359	Jaw & Eye	$\frac{3}{32}$ - $\frac{1}{8}$	$\frac{1}{4}$ -28	7"	$9\frac{3}{4}$	RL-2	RL-30-CE	RL-30-CLH

4" Barrel. Approximate tensile strength over 2800 lbs. Thread size $\frac{1}{4}$ -28. Inside width of jaw $\frac{1}{4}$ ". Length between centers: closed 7", $\frac{2}{3}$ open $9\frac{3}{4}$ ". Weight $2\frac{3}{4}$ ozs.

812-3381	Jaw & Swaged End	$\frac{5}{32}$	$\frac{5}{16}$ -24	$8\frac{1}{4}$	11	RL-3	RL-38-DE	RL-30-DLH
812-3382	Jaw, Toggle & Swaged End	$\frac{5}{32}$	$\frac{5}{16}$ -24	$8\frac{1}{4}$	11	RL-3	RL-38-DE	RL-61-DLH
812-3383	Jaw & Swaged End	$\frac{3}{16}$	$\frac{5}{16}$ -24	$8\frac{1}{4}$	11	RL-3	RL-38-DF	RL-30-DLH
812-3384	Toggle & Swaged End	$\frac{3}{16}$	$\frac{5}{16}$ -24	$8\frac{1}{4}$	11	RL-3	RL-38-DF	RL-61-DLH

$4\frac{1}{2}$ " Barrel. Approximate tensile strength over 3200 lbs. Thread size $\frac{5}{16}$ -24. Inside width of jaw $\frac{1}{4}$ ". Length between centers: closed $8\frac{1}{4}$ ", $\frac{2}{3}$ open 11". Weight $3\frac{3}{8}$ ozs.

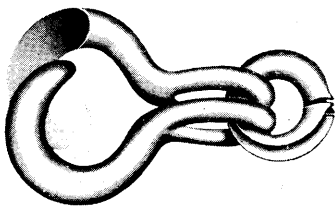


W.J. KEATING LIMITED

SISTER HOOKS & MANILA ROPE THIMBLES

DROP FORGED STEEL

Large Eye



K-1148

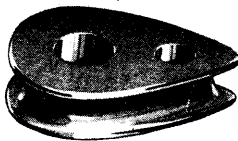
Size Inches	Price Each Galvanized With Thimble	Without Thimble	Overall Length of Hook Inches	Inside Diam. of Eye Inches	For Diam. Rope Inches	Est. Wt. With Th. per 100 in Lbs.
1/4	\$.40	\$.30	2 1/8	9/16	3/8	11 1/4
5/16	.40	.30	2 5/8	1 1/16	7/16	17
3/8	.45	.35	3 1/8	1	1/2	25
1/2	.55	.40	3 3/4	1 1/16	5/8	49
5/8	.90	.70	4 9/16	1 1/4	3/4	94
3/4	1.10	.90	5 5/16	1 1/2	7/8	148
7/8	1.50	1.20	6 1/4	1 5/8	1	269
1	1.85	1.50	6 3/4	1 7/8	1 1/4	377

For Self Colored Finish, Deduct 5%

We always send GALVANIZED Match Hooks WITH Thimbles unless otherwise specified.

SOLID THIMBLES

GALVANIZED CAST IRON



K-1150

Overall Length Inches	Size Turnbuckle Shackle Inches	For Served Wire Rope Inches	Size Large Hole Inches	Est. Wt. Each in Lbs.
2 3/4	1/2	3/8	7/16	1/2
3	5/8	1/2	9/16	5/8
4	3/4	9/16	1 1/16	1 1/8
4 1/4	7/8	5/8	7/8	1 1/4
4 3/4	1	3/4	1 1/16	1 1/2
5	1 1/8	7/8	1 1/4	2 3/8
5 1/2	1 1/4	1	1 1/4	3 3/8
6	1 3/8	1 1/16	1 1/2	4 1/4
6 1/2	1 1/2	1 1/8	1 5/8	4 5/8

SMALL BOAT CLEATS

GALVANIZED IRON AND BRONZE

OPEN BASE

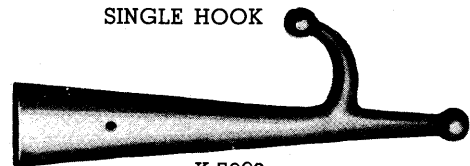


K-1149

Length Inches	Est. Wt. Each in Lbs.
3 1/2	1/8
4	1/8
5	1/4
6	1/2
8	3/4
10	2
12	3 3/4
14	6 1/4
18	11 1/4

NAVY POINT BALL

SINGLE HOOK

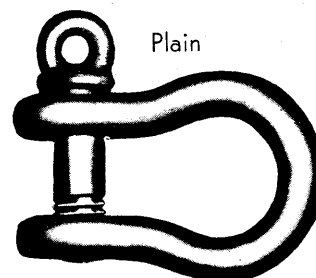


K 5009

Size No.	Diam. of Pole Inches	Est. Wt. Each in Lbs.
3 1/2	1	5/8
4	1 1/4	3/4
5	1 1/2	1
6	2	1 1/2

SCREW PIN ANCHOR SHACKLE

Manganese Bronze



K-1150

Size	Dia. Pin
3/16"	1/4"
1/4"	5/16"
5/16"	3/8"
3/8"	7/16"
7/16"	1/2"
1/2"	5/8"
5/8"	3/4"
3/4"	7/8"



W.J. KEATING LIMITED

PADDLES



K-1154

These are a good first quality paddle.
Lightweight and strong. Protected by two coats of the finest varnished.

Sizes Available in Feet

2-1/2'
3' ...
3-1/2'
4' ...
4-1/2'
5' ...
5-1/2'

OARS

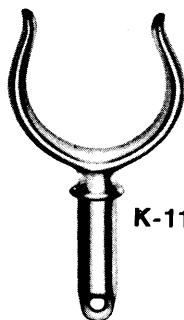
K-1155

Only selected hardwoods used in manufacturing these Oars.

Sizes Available

Foot

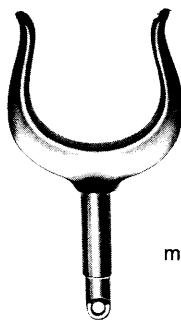
5'	5 1/2'	6'	6 1/2'	7'	7 1/2'	8'
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Standard horn
straight shanks.

K-1156

Galvanized
malleable iron.



Ribbed horn
straight shanks.

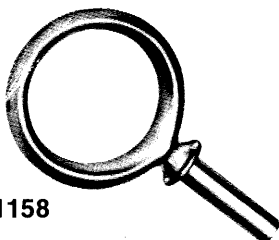
K-1157

Burnished
manganese bronze.

OARLOCK HORNS

	Size No.	Opening Inches	Diameter Shank Inches	Weight Pair in Lbs.
K-1156	0 1 1/2	1 3/4 2 1/8	5/8 5/8	3/4 1 1/4
K-1157	1	2	1/2	7/8

Size No. 1 1/2 has lashing eye.

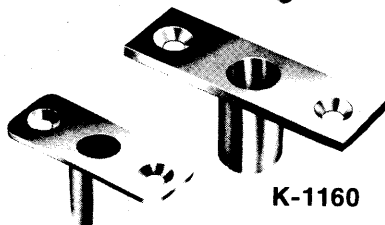


K-1158

ROUND OARLOCK HORNS

Galvanized gray iron.
For straight shanks.

Size No.	I. D. Ring Inches	Diameter Shank Inches	Weight Pair in Lbs.
0 1	2 2 1/4	1/2 1/2	7/8 1



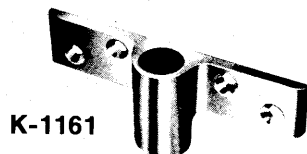
K-1160

REGULAR OARLOCK SOCKETS

Galvanized gray iron.
For straight shank.

	Size No.	For Diameter Shank Inches	For Screw No.	Weight Pair in Lbs.
K-1159	1	5/8	10	1/2
K-1160	1	1/2	10	3/8

K-1159



K-1161

SIDE PLATE OARLOCK SOCKETS

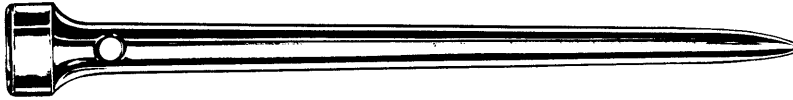
Galvanized malleable iron.
For straight shank.

Size No.	For Diameter Shank Inches	For Screw No.	Weight Pair in Lbs.
1	5/8	10	1/2



W.J. KEATING LIMITED

MARLINE SPIKES



CONFORMS TO FEDERAL SPEC MIL-M-15926B TYPE I

Part No.	A	B	C	D	E	F	G	H
	Inches	Inches	Inch	Inch	Inch	Inches	Inch	Inch
639-5139	$6\frac{1}{8}$	$7\frac{7}{8}\pm\frac{1}{16}$	$1\frac{1}{8}\pm\frac{1}{16}$ -0.000	$9\frac{1}{16}\pm 0.000$ -1/16	$3\frac{1}{16}\pm\frac{1}{32}$	$7\frac{7}{8}\pm\frac{1}{16}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\pm\frac{1}{16}$
639-5140	$8\pm\frac{1}{4}$	$1\pm\frac{1}{16}$	$1\frac{1}{8}\pm\frac{1}{16}$ -0.000	$5\frac{1}{8}\pm 0.000$ -1/16	$1\frac{1}{4}\pm\frac{1}{32}$	$1\pm\frac{1}{8}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{1}{8}\pm\frac{1}{8}$
639-5141	$10\pm\frac{5}{16}$	$1\frac{1}{4}\pm\frac{1}{8}$	$1\frac{1}{4}\pm\frac{1}{16}$	$5\frac{1}{8}\pm\frac{1}{16}$ -0.000	$1\frac{1}{4}\pm\frac{1}{32}$	$1\frac{1}{4}\pm\frac{1}{8}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{3}{16}\pm\frac{1}{8}$
639-5142	$12\pm\frac{5}{16}$	$1\frac{5}{16}\pm\frac{1}{8}$	$1\frac{1}{4}\pm\frac{1}{16}$	$3\frac{3}{4}\pm 0.000$ -1/16	$5\frac{1}{16}\pm\frac{1}{32}$	$1\frac{1}{4}\pm\frac{1}{8}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{3}{16}\pm\frac{1}{8}$
639-5144	$14\pm\frac{3}{8}$	$1\frac{7}{16}\pm\frac{1}{8}$	$1\frac{1}{4}\pm\frac{1}{16}$	$3\frac{3}{4}\pm\frac{1}{16}$ -0.000	$5\frac{1}{16}\pm\frac{1}{32}$	$1\frac{1}{4}\pm\frac{1}{4}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{1}{4}\pm\frac{1}{8}$
639-5143	$16\pm\frac{3}{8}$	$1\frac{1}{2}\pm\frac{1}{8}$	$3\frac{3}{8}\pm\frac{1}{16}$	$1\pm\frac{1}{16}$ -0.000	$5\frac{1}{16}\pm\frac{1}{32}$	$2\pm\frac{1}{4}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{1}{4}\pm\frac{1}{8}$
639-5146	$20\pm\frac{1}{2}$	$1\frac{11}{16}\pm\frac{1}{8}$	$3\frac{3}{8}\pm\frac{1}{16}$	$1\frac{1}{8}\pm\frac{1}{16}$ -0.000	$3\frac{3}{8}\pm\frac{1}{32}$	$2\pm\frac{1}{4}$	$5\frac{1}{16}\pm\frac{1}{16}$	$1\frac{1}{2}\pm\frac{1}{8}$

MAY BE SUPPLIED WITH OR WITHOUT LANYARD HOLE

SAILORS PALMS

K-3002 —Tied Seaming.

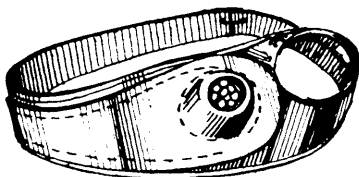
K-3003 —Tied Roping.

K-3004 —Neat Seaming.

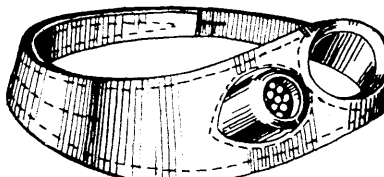
K-3005 —Buckled Seaming.

K-3006 —Buckled Roping.

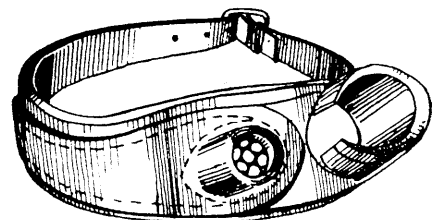
K-3007 —Neat Roping.



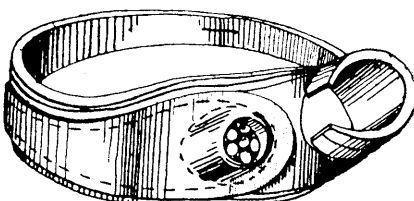
K-3002



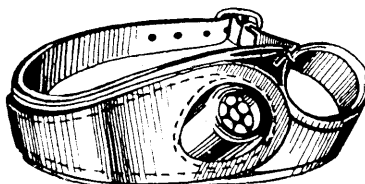
K-3004



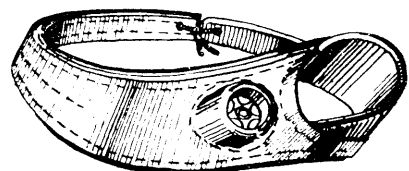
K-3006



K-3003



K-3005



K-3007



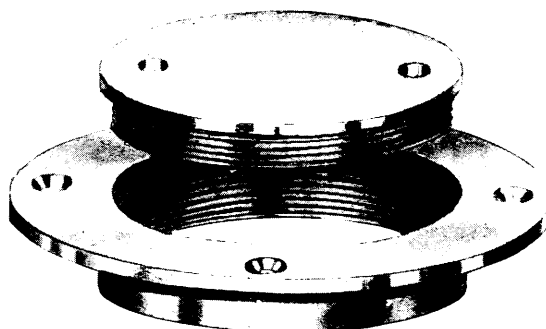
W.J. KEATING LIMITED

K-1142 REGULAR DECK PLATE

Cast Bronze or Cast Aluminum

Machine
Finish

Chrome
Plated

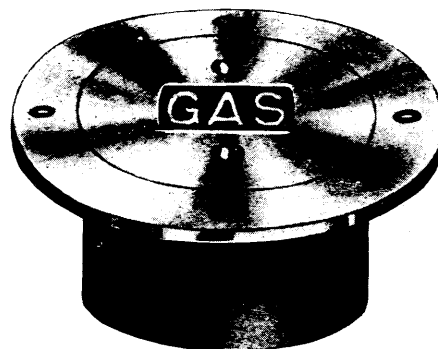


Dia. Opening	O.D. Plate
3"	4 ⁷ / ₈ "
4"	5 ⁷ / ₈ "
5"	7"
6"	8 ¹ / ₈ "
7 ¹ / ₄ "	10 ³ / ₈ "
8 ¹ / ₄ "	11 ³ / ₈ "
10"	14 ¹ / ₈ "
12"	15 ¹ / ₄ "
14 ¹ / ₄ "	17 ⁷ / ₈ "

Machine
Finish

Chrome
Plated

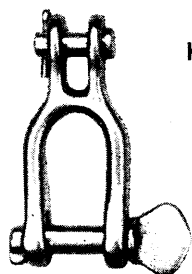
K-1143 PIPE DECK PLATE WITH CHAIN



Cap cannot be lost
due to chain fasten-
ing.

K-1144 WIRE HALYARD SHACKLE

Cast Bronze
Plain



Width
Inside
of Jaw

Dia.
Jaw Pin

Length
Inside

Width
Inside

Dia.
of Pin

5⁵/₁₆"

1¹/₄"

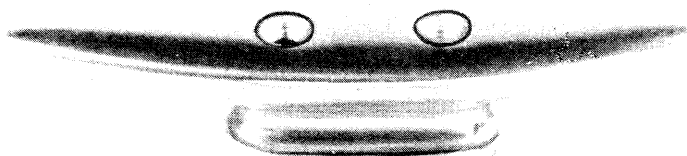
11¹/₈"

5⁵/₈"

5⁵/₁₆"

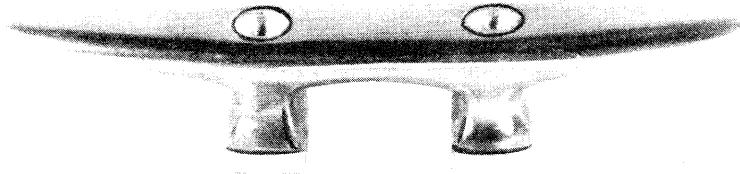
K-1145 SPAR CLEAT

Cast Aluminum — Plain or Polished
Sizes 3", 4", 5", 6" and 7"



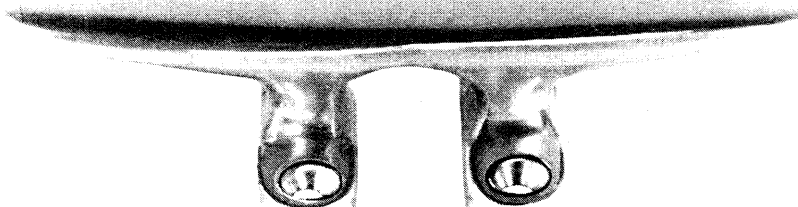
K-1146 TWO HOLE CLEAT

Cast Bronze or Aluminum —
Plain, Polished or Chrome
Sizes: 4", 5", 6", 7" and 8"
Low profile — will not snag lines



K-1147 FOUR HOLE CLEAT

Cast Bronze or Aluminum —
Plain, Polished or Chrome
Sizes: 5", 6", 7", 8", 9", 10¹/₂" and 12"
Low profile — will not snag lines





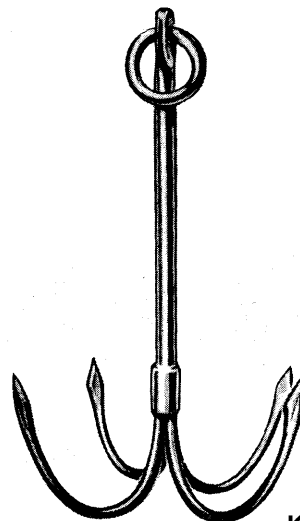
W.J. KEATING LIMITED

GRAPNELS

STANDARD SIZES

4 lb., 6 lb., 8 lb., 12 lb., 15 lb.

1. With ring or shackle
2. With or without collar
3. 3, 4, or 5 prong
4. With round or flatted points
5. Galvanized



K-2077

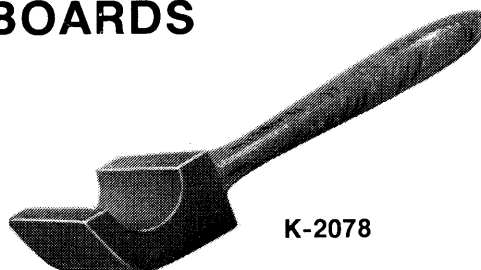
LIGNUM VITAE SERVING BOARDS

3 x 2½ x 8½ overall

4 x 3½ x 11½ overall

5 x 4 x 13 overall

Specify rope diameter

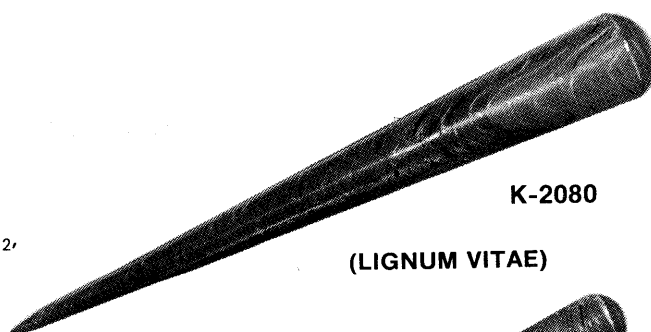


K-2078

LIGNUM VITAE FIDS

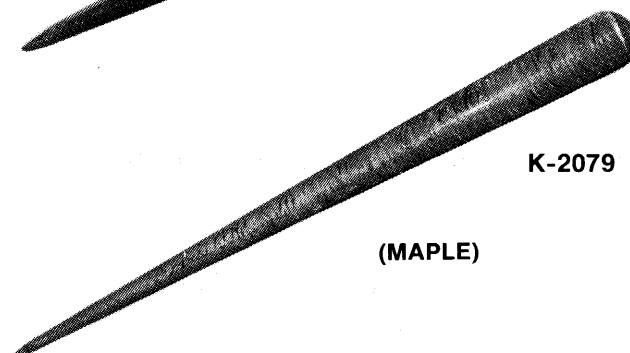
Length: 8, 10, 12, 14, 16, 18, 20, 22, 24

Butt dia.: 1⅛, 1¼, 1½, 2, 2¼, 2⅜, 2½,
2⅝, 2¾.



K-2080

(LIGNUM VITAE)



K-2079

(MAPLE)

ALSO AVAILABLE IN ROCK MAPLE



W.J. KEATING LIMITED

EYE BOLTS

Manganese Bronze
Steel
Stainless Steel



U.S.S. Thread
Acme Thread
Whitworth Thread

K-2520

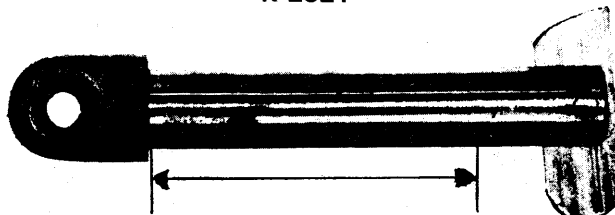
		DIAMETER								
		1/4"	5/8"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"
L E N G T H	2"	EB1	EB4	EB7	EB11	.....	.....	.....	.....	.....
	3"	EB2	EB5	EB8	EB12	EB16	.....	.....	.....	.....
	4"	EB3	EB6	EB9	EB13	EB17	EB23	.....	.....	.....
	5"	.....	.....	EB10	EB14	EB18	EB24	EB29	EB37	.....
	6"	.....	.....	.....	EB15	EB19	EB25	EB30	EB38	.....
	7"	.....	.....	.....	.....	EB20	EB26	EB31	EB39	.....
	8"	.....	.....	.....	.....	EB21	EB27	EB32	EB40	.....
	9"	.....	.....	.....	.....	EB22	EB28	EB33	EB41	EB43
	10"	.....	.....	.....	.....	.....	.....	EB34	.....	EB44
	11"	.....	.....	.....	.....	.....	.....	EB35	.....	.....
	12"	.....	.....	.....	.....	.....	.....	EB36	.....	.....

TOGGLE PINS

K-2521

TYPE -A-
MANGANESE BRONZE

TYPE -B-
STEEL



TYPE -C-
GALVANIZED STEEL

TYPE -D-
STAINLESS STEEL

Please specify length of chain if required.

(Measured from under the shoulder to beginning of slot)

DIAMETER		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-5/8"
L E N G T H	1"	T10	T21	T32	T43	T56	T71	.....	.....	.....	.....	.....	.....	.....
	1-1/2"	T11	T22	T33	T44	T57	T72	.....	.....	.....	.....	.....	.....	.....
	2"	T12	T23	T34	T45	T58	T73	T90	T109	.....	.....	.....	.....	.....
	2-1/2"	T13	T24	T35	T46	T59	T74	T91	T110	.....	.....	.....	.....	.....
	3"	T14	T25	T36	T47	T60	T75	T92	T111	T128	T145	T162	.....	.....
	3-1/2"	T15	T26	T37	T48	T61	T76	T93	T112	T129	T146	T163	.....	.....
	4"	T16	T27	T38	T49	T62	T77	T94	T113	T130	T147	T164	T179	T196
	4-1/2"	T17	T28	T39	T50	T63	T78	T95	T114	T131	T148	T165	T180	T197
	5"	T18	T29	T40	T51	T64	T79	T96	T115	T132	T149	T166	T181	T198
	5-1/2"	T19	T30	T41	T52	T65	T80	T97	T116	T133	T150	T167	T182	T199
	6"	T20	T31	T42	T53	T66	T81	T98	T117	T134	T151	T168	T183	T200
	6-1/2"	.....	.....	.....	T54	T67	T82	T99	T118	T135	T152	T169	T184	T201
	7"	.....	.....	.....	T55	T68	T83	T100	T119	T136	T153	T170	T185	T202
	7-1/2"	.....	.....	.....	.....	T69	T84	T101	T120	T137	T154	T171	T186	T203
	8"	.....	.....	.....	.....	T70	T85	T102	T121	T138	T155	T172	T187	T204
	8-1/2"	.....	.....	.....	.....	.....	T86	T103	T122	T139	T156	T173	T188	T205
	9"	.....	.....	.....	.....	.....	T87	T104	T123	T140	T157	T174	T189	T206
	9-1/2"	.....	.....	.....	.....	.....	T88	T105	T124	T141	T158	T175	T190	T207
	10"	.....	.....	.....	.....	.....	T89	T106	T125	T142	T159	T176	T191	T208
	10-1/2"	.....	.....	.....	.....	.....	.....	T107	T126	T143	T160	T177	T192	T209
	11"	.....	.....	.....	.....	.....	.....	T108	T127	T144	T161	T178	T193	T210
	11-1/2"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T194	T211
	12"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T195	T212



W.J. KEATING LIMITED

FASTENERS

FERROUS AND NON-FERROUS



ROUND HEAD WOOD SCREWS



THREADED RODS



OVAL HEAD WOOD SCREWS



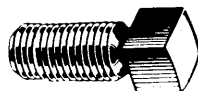
COTTER PINS



FLAT HEAD WOOD SCREWS



FLAT WASHERS



SQUARE HEAD SET SCREWS



LOCK WASHERS



WING NUTS



SINGLE JACK CHAIN



CAP NUTS



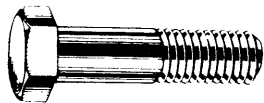
CASTELLATED HEX NUTS



W.J. KEATING LIMITED

FASTENERS

FERROUS AND NON-FERROUS



HEX HEAD CAP SCREWS



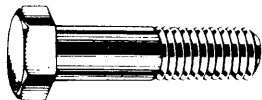
ROUND HEAD MACHINE SCREWS



CARRIAGE BOLTS



FLAT HEAD MACHINE SCREWS



HEX HEAD MACHINE BOLTS



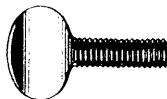
OVAL HEAD MACHINE SCREWS



SQUARE HEAD LAG SCREWS



FILLISTER HEAD MACHINE SCREWS



THUMBSCREWS



HEX NUTS



STUD BOLTS



SQUARE NUTS



Screws

Nylon Machine Screws

Cheese Head	
8BA	1/8" - 7/8"
6BA	3/16" - 1 1/4"
5BA	1/4" - 3/4"
4BA	1/8" - 1 1/2"
3BA	1/4" - 1"
2BA	3/16" - 2 1/2"
OBA	1/4" - 2"
3/16" Whit	1/4" - 1 3/8"
1/4" Whit	1/4" - 2"
5/16" Whit	3/8" - 2 3/4"
3/8" Whit	1/2" - 2 3/4"
1/2" Whit	1 1/2"
M2.5	2.5 - 20mm
M3	3 - 30mm
M4	6 - 40mm
M5	6 - 50mm
M6	5 - 75mm
M8	10 - 80mm
M10	20 - 100mm
Pan head	
M3	3 - 30mm
M4	6 - 40mm
M5	6 - 50mm
M6	5 - 75mm
M8	10 - 80mm
M10	20 - 100mm
Round head	
8BA	1/4" - 1/2"
6BA	1/4" - 1"
4BA	1/4" - 1 1/2"
3BA	3/8"
2BA	1/4" - 1"
OBA	1/4" - 1 1/2"
3/16" Whit	1/4" - 1 3/8"
1/4" Whit	1/4" - 2"
5/16" Whit	3/8" - 1"
3/8" Whit	1"
Hexagon head	
M3	3 - 30mm
M4	6 - 40mm
M5	6 - 50mm
M6	5 - 75mm
M8	10 - 80mm
M10	20 - 100mm
M12	20 - 100mm
M16	40 - 110mm

Countersunk head	
3/8" Whit	1" - 1 1/2"
M3	6 - 30mm
M4	6 - 35mm
M5	8 - 40mm
M6	8 - 60mm
M8	16 - 70mm
M10	25 - 80mm
Raised Countersunk head	
8BA	1/8" - 3/4"
6BA	3/16" - 1"
4BA	3/16" - 1 1/2"
2BA	1/4" - 1 1/2"
OBA	1/4" - 1 3/4"
3/16" Whit	3/8" - 1"
1/4" Whit	5/16" - 2"
5/16" Whit	5/8" - 1 1/2"
M3	6 - 30mm
M4	6 - 35mm
M5	8 - 40mm
M6	8 - 60mm
M8	16 - 70mm
M10	25 - 80mm
Finger screws	
2BA	1/2" - 1"
OBA	3/4"
1/4" Whit	5/8" - 3/4"
M5	6 - 30mm
M6	10 - 30mm
Isocoles head	
2BA	1/2"
1/4" Whit	1/2" - 1"
5/16" Whit	3/4"
Grub screws	
3BA	3/16"
2BA	1/4" - 3/8"
3/16" Whit	5/16"
1/4" Whit	1/4" - 1/2"
5/16" Whit	5/16" - 1/2"
3/8" Whit	5/16" - 1/2"
M4	5 - 12mm
M5	6 - 16mm
M6	5 - 30mm
M8	8 - 40mm
M10	20 - 25mm
M12	15 - 40mm

Polypropylene Machine Screws

Cheese head	
M6	30 - 50mm
M8	12 - 50mm
M10	25 - 40mm
Countersunk head	
M12	25 - 50mm
Hexagon head	
M6	25 - 75mm
M8	25 - 40mm
M10	25 - 65mm
M12	25 - 75mm
M16	40 - 75mm
M20	35 - 75mm

Polyacetal Wood Screws

Countersunk head	
M4	15 - 40mm
M5	15 - 50mm
M6	20 - 60mm
Raised countersunk head	
M4	15 - 40mm
M5	15 - 50mm
M6	20 - 60mm
Round head	
M4	15 - 40mm
M5	15 - 50mm
M6	20 - 60mm



Screwed Rod

Nylon Type 66

Standard lengths 1 or 2 metres

1/4" Whit

5/16" Whit

3/8" Whit

1/2" Whit

5/8" Whit

3/4" Whit

M5

M6

M8

M10

M12

M16

M20

Polypropylene

Standard lengths 1 or 2 metres

M6

M8

M10

M12

M16

M20

Nuts

Nylon

Plain nuts

8BA

5/16" Whit thin

3/8" Whit thin

3/8" Whit full

1/2" Whit full

M3

M4

M5

M6

M8

M10

M12

M16

M20

Washer faced nuts

6BA

4BA

2BA

OBA

3/16" Whit

1/4" Whit

5/16" Whit

M2.5

M3

M4

M5

M6

M8

M10

M12

Dome nuts

2BA

3/16" Whit

1/4" Whit

5/16" Whit

3/8" Whit

M3

M4

M5

M6

M8

M10

M12

M16

Thumb nuts

2BA

3/16" Whit

1/4" Whit

5/16" Whit

3/8" Whit

M4

M6

Wing nuts

M4

M5

M6

M8

M10

Polypropylene

Plain nuts

M6

M8

M10

M12

M16

M20

Washer faced nuts

M6

M8

M10

M12

M16



Washers

Nylon Imperial Sizes

Ref. No.	Size	O.D.	I.D.	Thickness
7801	6BA	.240"	.120"	1/32"
7802	4BA	9/32"	5/32"	1/32"
7803	2BA/3/16"	1/2"	3/16"	1/32"
7804	OBA/1/4"	9/16"	1/4"	1/16"
7805	9/32"	5/8"	9/32"	3/32"
7806	5/16"	11/16"	5/16"	1/16"
7807	3/8"	13/16"	3/8"	1/16"
7808	3/8"	1"	3/8"	1/16"
7809	3/8"	1"	3/8"	1/8"
7810	1/2"	1 1/16"	1/2"	1/16"
7813	5/8"	1 1/4"	5/8"	3/32"
7811	3/4"	1 1/2"	3/4"	1/8"
7814	7/8"	1 1/2"	7/8"	1/8"
7812	1"	1 3/4"	1"	1/8"

Nylon Metric Sizes

DIMENSIONS MM				
Ref. No.	Size	O.D.	I.D.	Thickness
7815	M3	7	3.2	0.5
7816	M4	9	4.3	0.8
7817	M5	10	5.3	1.0
7818	M6	14	6.3	1.5
7819	M8	16	8.2	1.5
7820	M10	21	10.5	2.0
7821	M12	24	12.5	2.5
7822	M16	30	17.0	3.0
7823	M20	37	21.0	3.0

Polypropylene Metric Sizes

DIMENSIONS MM				
Ref. No.	Size	O.D.	I.D.	Thickness
7824	M6	14	6.3	1.5
7825	M8	16	8.2	1.5
7826	M10	21	10.5	2.0
7827	M12	24	12.5	2.5
7828	M16	30	17	3.0
7829	M20	37	21	3.0

WE WILL BE PLEASED TO QUOTE FOR OTHER SIZES AND OTHER MATERIALS

Nylon Bushes

Headed

Catalogue No.	O.D.	I.D.	Length Overall	O.D. Over head	Thickness of head
24	3/8"	1/4"	3/8"	5/8"	3/32"
36	7/16"	1/4"	1/4"	3/4"	1/16"
37	7/16"	5/16"	1/4"	3/4"	1/16"
38	7/16"	5/16"	3/16"	3/4"	1/16"
25	1/2"	3/8"	1/2"	3/4"	3/32"
39	9/16"	7/16"	9/16"	7/8"	3/32"
10	5/8"	1/2"	5/8"	7/8"	3/32"
26	3/4"	5/8"	3/4"	1"	3/32"
27	7/8"	3/4"	7/8"	1 1/8"	3/32"
28	1"	7/8"	1"	1 1/4"	3/32"
33	1 1/8"	1"	1 1/8"	1 3/8"	3/32"

Plain

Catalogue No.	O.D.	I.D.	Length
17	3/8"	1/4"	3/8"
18	1/2"	3/8"	1/2"
34	9/16"	3/8"	1 1/16"
19	5/8"	1/2"	5/8"
32	3/4"	5/8"	3/4"
20	7/8"	3/4"	7/8"
21	1"	7/8"	1"
22	1 1/8"	1"	1 1/8"

All sizes are designed to give a slight interference fit in the housing.

Headed bushes have a semi-circular cut out in the head for location purposes when the bushes are used as a sliding fit.

WE WILL BE PLEASED TO QUOTE FOR OTHER SIZES AND OTHER MATERIALS.

Precision Ground Balls

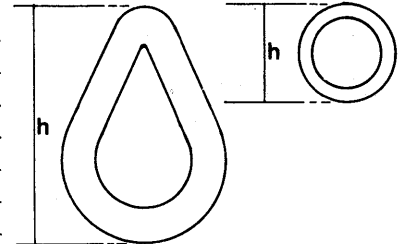
NYLON TYPE 66	2mm	-	80mm diameter
POLYACETAL	2mm	-	80mm diameter
POLYPROPYLENE	3mm	-	80mm diameter
P.T.F.E.	3/32"	-	80mm diameter
POLYETHYLENE	28mm	-	80mm diameter
POLYURETHANE 90°A	4mm	-	25mm diameter
GLASS	3/32"	-	1/2" diameter



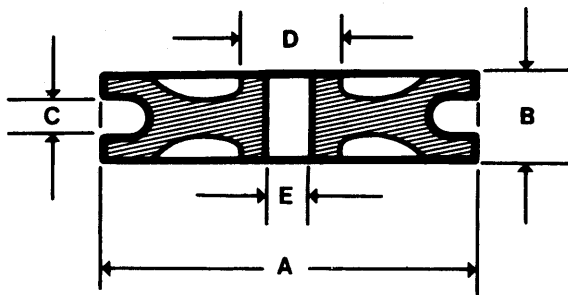
Nylon Rope Thimbles Heart shaped and round

Reference No.	h	rope diameter	rope circumference
Heart shaped			
F1444	17mm	3mm	3/8"
F1445	22mm	4mm	1/2"
F1288	32mm	5mm	5/8"
F974	40mm	6mm	3/4"
F1182	55mm	8mm	1"

Reference No.	h	rope diameter	rope circumference
F985	65mm	10mm	1 1/4"
F1235	70mm	12mm	1 1/2"
F1308	77mm	14mm	1 3/4"
F1481	90mm	16mm	2"
Round			
F1110	25mm	9mm	1 1/8"



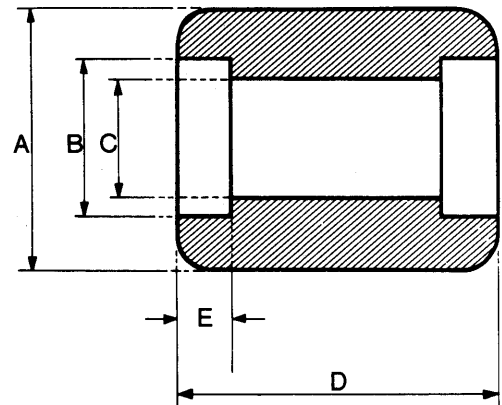
Nylon Pulleys



Reference No.	A	nominal dimensions mm B	C	D	E
F1391	57	12	8	13	7.9
F1394	80	12	9	25	12
F1395	25	7	4	9	6.3
F1396	38	20	14*	20	9.5

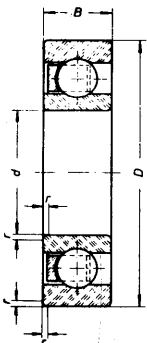
*flat bottom V section groove

Nylon Rollers



Part number	A	nominal dimensions mm B	C	D	E	Maximum load capacity
F1568	50	—	14	50	—	250 kilos
F1533	75	32	28	62	10	450 kilos
F1645	81.5	47	39	70	14	570 kilos
F1644	81.5	47	39	104	12.5	850 kilos
F1446	85	47	39	90	20	760 kilos
F1691	85	47	39	95	20	800 kilos

Polyacetal inner and outer races Nylon type 66 cages Glass balls



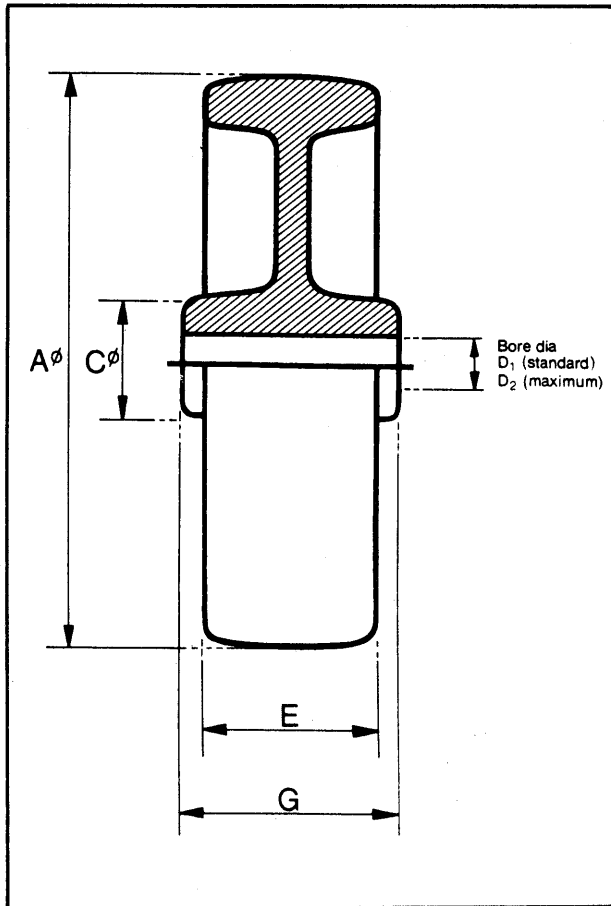
Ref No	d mm	Tolerance μm	D mm	Tolerance μm	B mm	Tolerance μm	r mm
608	8	+58 0	22	0 -84	7	0 -90	0.5
626	6	+48 0	19	0 -84	6	0 -75	0.5
6000	10	+58 0	26	0 -84	8	0 -90	0.5
6001	12	+70 0	28	0 -84	8	0 -90	0.5
6002	15	+70 0	32	0 -100	9	0 -90	0.5
6003	17	+70 0	35	0 -100	10	0 -90	0.5
6004	20	+84 0	42	0 -100	12	0 -110	1.0
6005	25	+84 0	47	0 -100	12	0 -110	1.0
6006	30	+84 0	55	0 -120	13	0 -110	1.5

Ref No	d mm	Tolerance μm	D mm	Tolerance μm	B mm	Tolerance μm	r mm
6201	12	+70 0	32	0 -100	10	0 -90	1.0
6202	15	+70 0	35	0 -100	11	0 -110	1.0
6204	20	+84 0	47	0 -100	14	0 -110	1.5
6205	25	+84 0	52	0 -120	15	0 -110	1.5
6300	10	+58 0	35	0 -100	11	0 -110	1.0
6301	12	+70 0	37	0 -100	12	0 -110	1.5
6302	15	+70 0	42	0 -100	13	0 -110	1.5
6303	17	+70 0	47	0 -100	14	0 -110	1.5



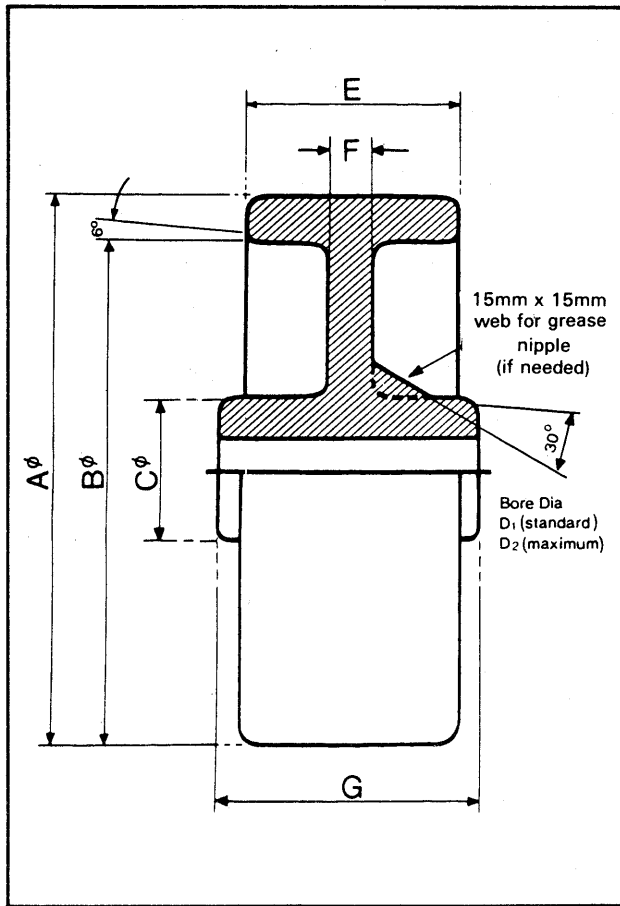
Nylon Truck Wheels

Light Series



Part number	A	C	D1	D2	E	G	Maximum load capacity
F5013	32	13	8	—	13	13	18 kilos
F5015	38	13	6	8	16	19	20 kilos
F5020	51	13	6	8	16	19	27 kilos
F5025	64	13	6	8	19	24	36 kilos
F5030	76	19	6	10	16	19	60 kilos
F5040	101	25	12	16	32	39	160 kilos
F5050	128	29	12	19	35	50	225 kilos
F5060	152	29	12	19	25	28	200 kilos

Standard Series



Part number	A	B	C	D1	D2	E	F	G	Maximum load capacity
F1576	100	87	24	12	16	41	7	50	200 kilos
F1577	125	110	30	16	19	46	8	55	300 kilos
F1578	150	136	35	19	23	46	9	55	400 kilos
F1579	200	185	37	19	25	51	10	60	500 kilos
F1592	250	230	45	20	32	60	12	70	800 kilos

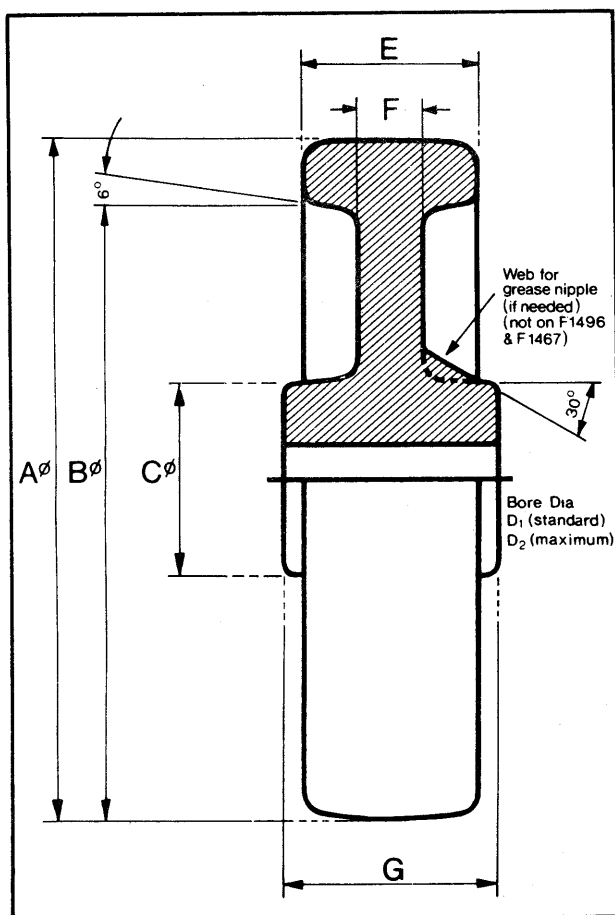
Nylon Wheels and Rollers

The maximum load capacities detailed are for ideal conditions, smooth floors and the absence of shock loading. An allowance must be made for rougher surfaces and shock loading and the figures reduced accordingly.



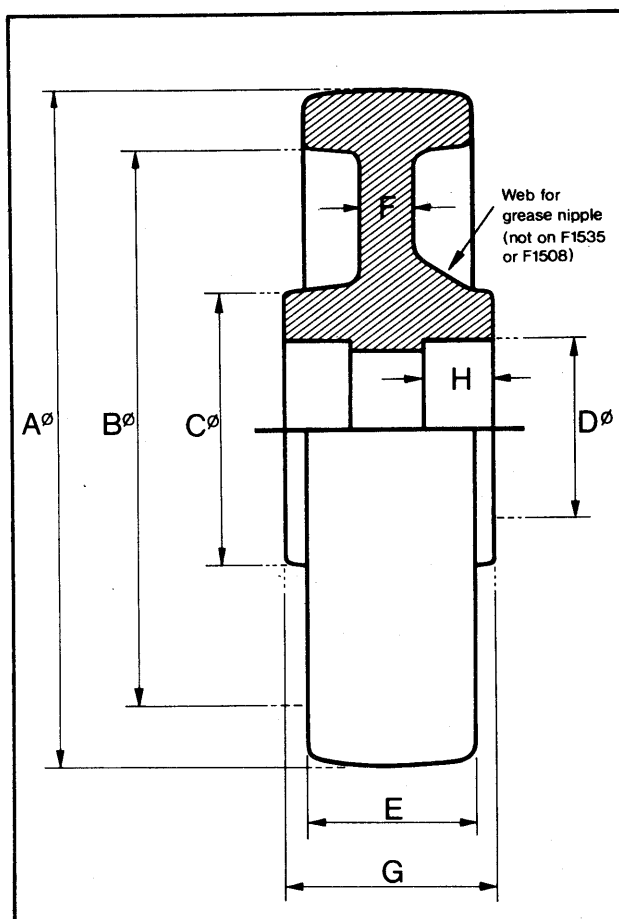
Nylon Truck Wheels

Heavy Duty Series



Part number	A	B	C	D1	D2	E	F	G	Maximum load capacity
F1496	80	60	30	9.5	19	32	9	36	240 kilos
F1467	100	76	32	8	22	30	11	36	300 kilos
F1532	125	100	36	13	22	33	12	39	400 kilos
F1466	125	100	39	17	28	50	12	62	625 kilos
F1450	150	119	42	15	32	50	15	62	750 kilos
F1604	170	147	90	60	63	40	14	40	680 kilos
F1465	180	145	45	17	35	50	16	62	850 kilos
F1464	200	166	45	20	35	50	16	62	1000 kilos

Heavy Duty recessed for ball races



Part number	A	B	C	D	E	F	G	H	Maximum load capacity
F1553	90	72	54	40	40	11	40	12	250 kilos
F1534	125	91	60	32	39	14	44	10	490 kilos
F1508	145	108	80	52	75	26	50	15	1125 kilos
F1535	145	110	85	52	58	16	60	15	870 kilos
F1634	160	135	60	35	40	13	48	12	640 kilos
F1522	155	123	80	52	50	16	58	16	800 kilos
F1690	180	140	80	52	60	22	48	15	1080 kilos
F1490	200	165	80	52	50	16	62	19	1000 kilos

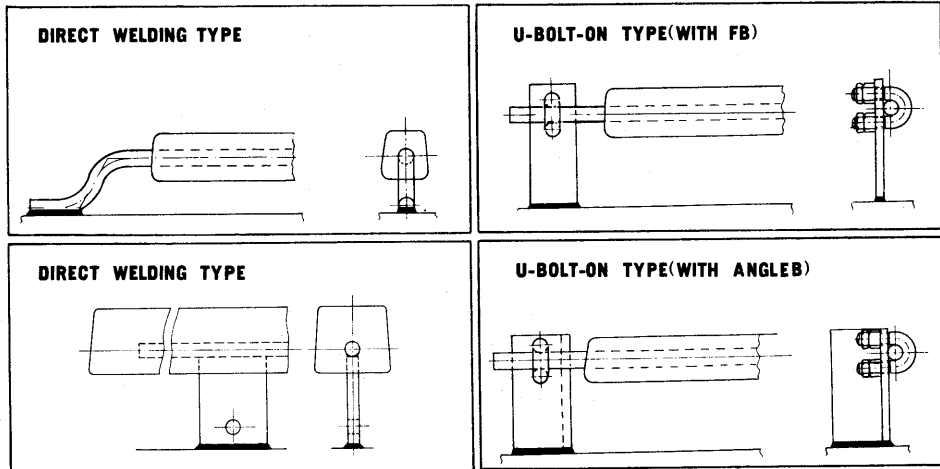


ZINC ANNODES

MIL SPEC. A—18001—H

Specifications of Components (%)

Fe	0.005	max
Cd	0.025	—0.15
Pb	0.006	max.
Cu	0.005	max.
Al	0.10	—0.5
Si	0.125	max.
Zn	Remainder	



Standard products for ballast tanks of ships.

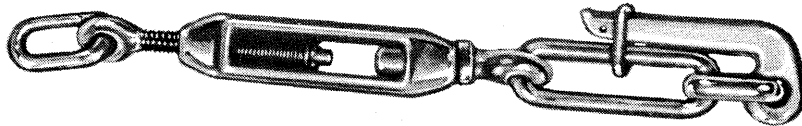
Type	Nominal Size (mm)	Nominal Weight (kg)	Core (mm)	Life (Yrs)				
				Permanent Ballast			Cleaned Ballast	
				30 %	40 %	50 %	30 %	40 %
SN - 2	37×37×1000	10.4	13	2				
- 4	54×53.5×1000	21.5	16	4				2
SO - 2	44×43×1000	14.0	13		2		2	
- 4	63×62×1000	28.9	16		4			3
SP - 2	48×49×1000	17.5	13			2		
- 4	74×74×1000	40.1	16			4		4
58P - 1.22	35.5×35.5×1220	11.3	13	2				
80P - 1.2	42×42×1200	15.8	13		2		2	
118P - 1.22	51×51×1220	23.0	13	4		2		2
160P - 1.22	63×63×1220	33.3	13		4		4	
200P - 1.22	70×70×1220	43.0	13			4		
216P - 1.22	76×76×1220	46.5	13					4
SR	34×36×1200	10.8	13	2				
ST	48×52×1230	23.0	13	4				

NOTE : Other types of ZINNODE are available on request.

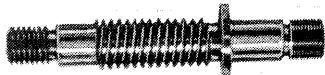


W.J. KEATING LIMITED

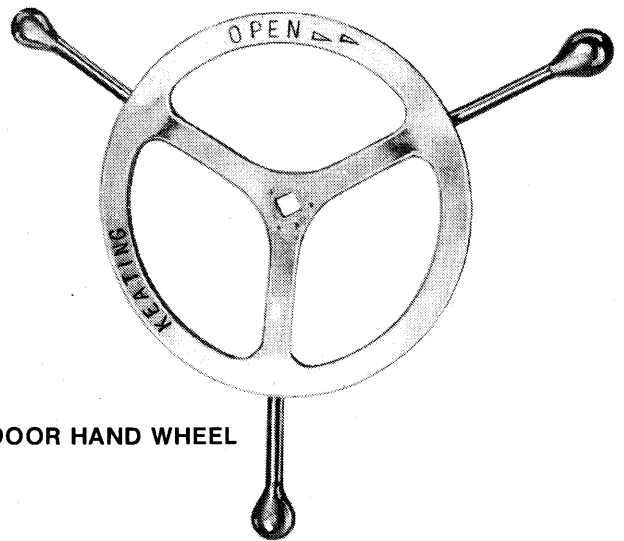
MISCELLANEOUS PRODUCTS OF OUR MANUFACTURE



SCREW AND SLIP



SPINDLE FOR WTQA HATCH



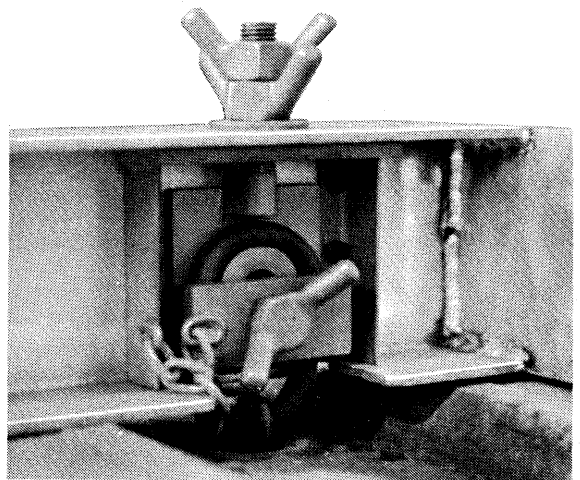
WTQA DOOR HAND WHEEL



BRONZE DOOR WEDGE



INSIDE DOOR HANDLE



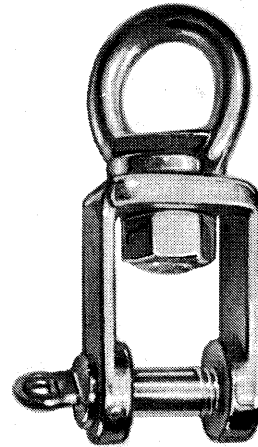
**TIE-DOWN ASSY FOR ALUMINUM
PORTABLE CAPSTAN**



W.J. KEATING LIMITED



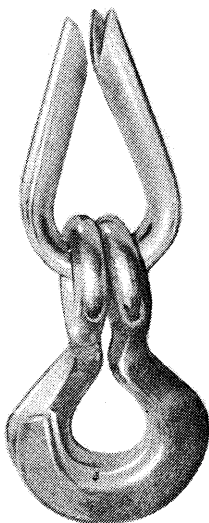
**BOW SHACKLE WITH ROUND PIN
AND FORELOCK KEY**



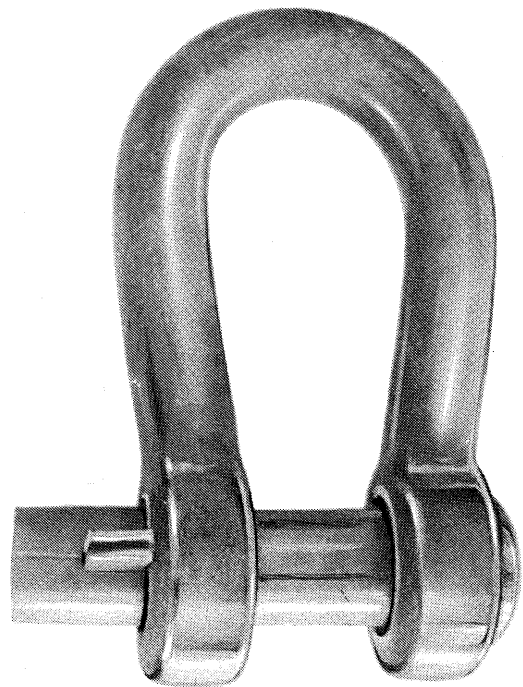
SWIVEL SHACKLE



**SWING OR
KEYSTONE
LINK**



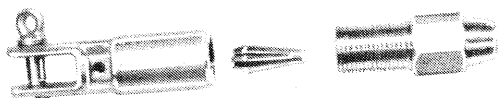
**TWIN OR SISTER HOOK
WITH OVAL THIMBLE**



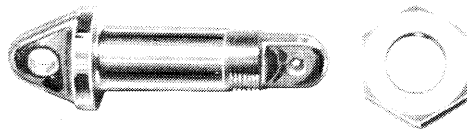
**BOW SHACKLE WITH OVAL PIN
AND FORELOCK KEY**



W.J. KEATING LIMITED



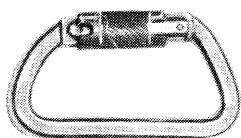
FORGED ALUMINUM WIRE ROPE
SOCKET-CLEVIS CONNECTION



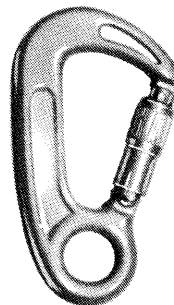
STAUNCHION HOOK AND NUT



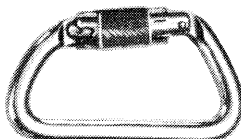
FORGED ALUMINUM WIRE ROPE
SOCKET-EYE CONNECTION



TWIST LOCK ALUMINUM
KARABINER



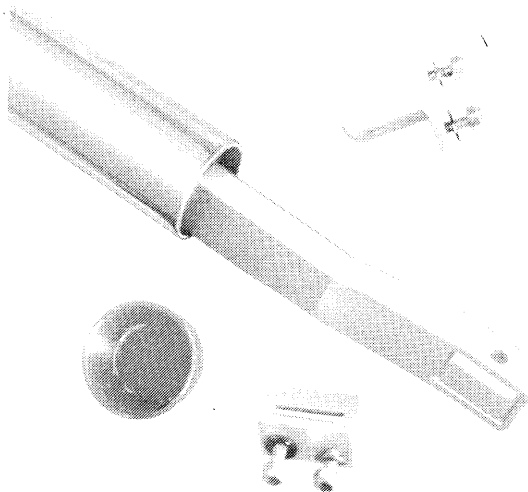
TWIST LOCK ALUMINUM
INDUSTRIAL HOOK
(SCAFFOLD HOOK)



TWIST-LOCK STEEL
KARABINER



STAINLESS STEEL
TOGGLE BOLT



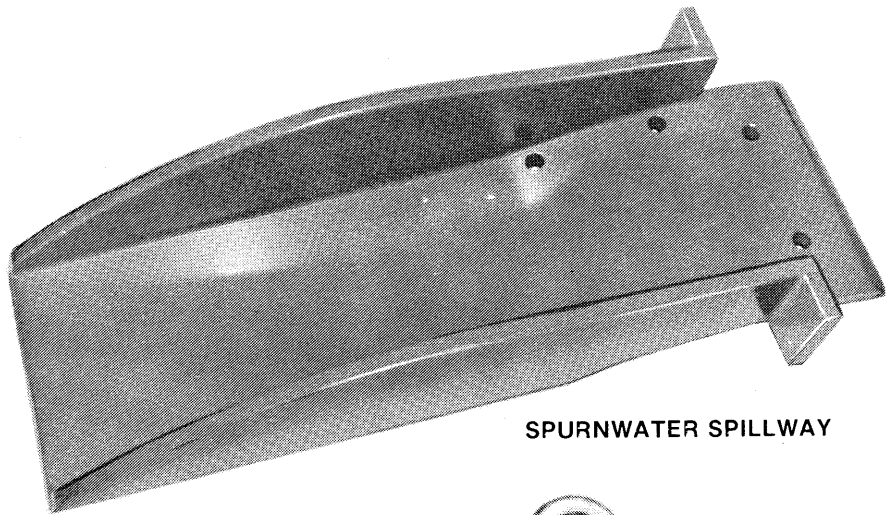
LOCKING BAR SET CONSISTING OF BAR,
TOP & BOTTOM HASP, LOCKNUTS
AND SHIPPING TUBE



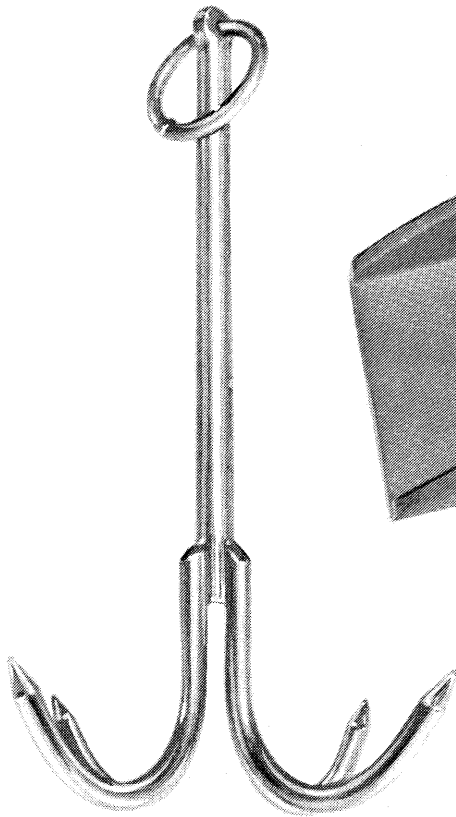
MARLINE SPIKE



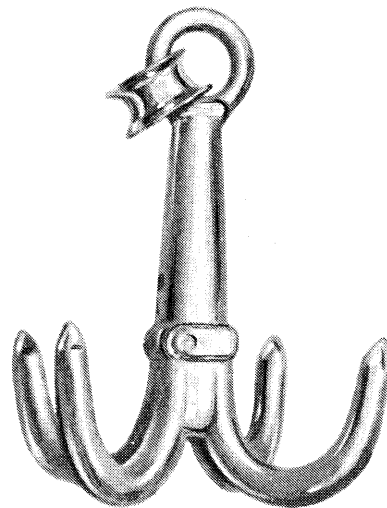
W.J. KEATING LIMITED



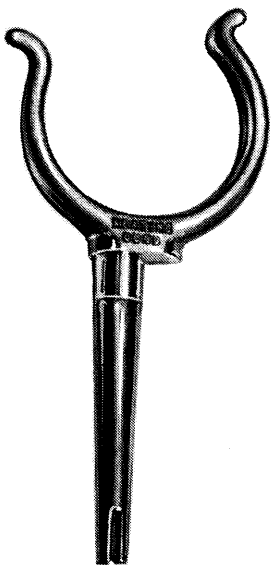
SPURNWATER SPILLWAY



6 LB GRAPNEL WITH RING



CREEPER



**MANGANESE BRONZE
ROWLOCK CRUTCH**



**6 LB. FOLDING STOCK
ANCHOR**



**BRONZE
OARLOCK**



W.J. KEATING LIMITED

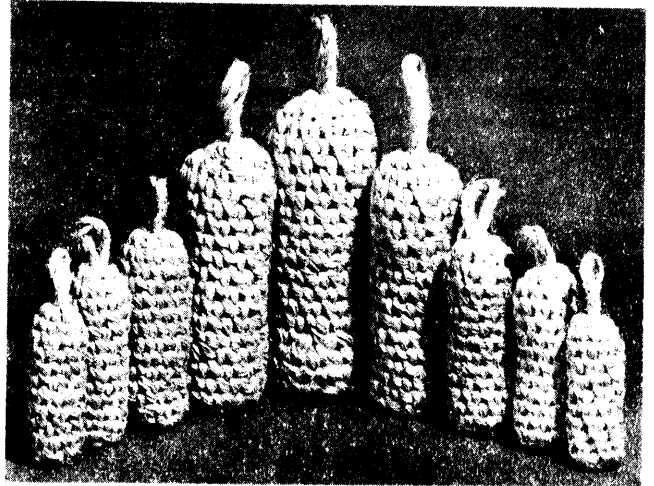
BOAT FENDERS

Recommended size for boats approximate		
fender sizes:	up to	weight
3 x 10"	15 feet	1 lbs
4 x 12"	25 feet	3 lbs
5 x 14"	35 feet	5 lbs
6 x 20"	50 feet	8 lbs
8 x 24"	50 feet and over	15 lbs

PLEASE NOTE:

- Allow two to four weeks delivery.
- All products carry a money back guarantee.

Second eye available



K-3031

HAND MADE BOAT FENDERS

We are offering a quality nautical accessory which gives the best protection for your boat; MANILA ROPE, BOAT FENDERS.

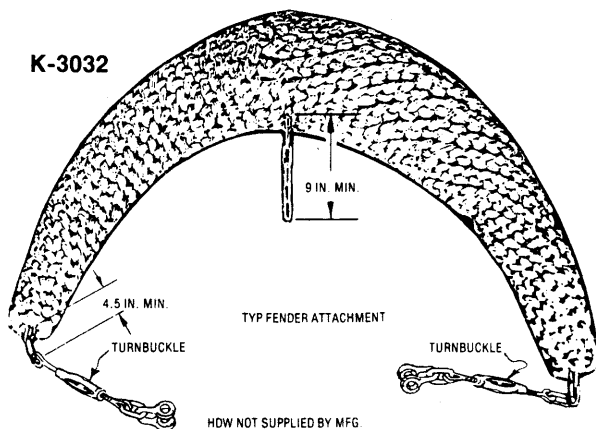
The outside is made of soft Manila, the inside either of Manila or Polypropylene. Polypropylene is used mostly in the larger size fenders to keep weight at a minimum. They are of sturdy construction, unique and long lasting and a must for the discriminating boat man.

A fresh and salt water test shows the fenders will float up to twelve hours and absorb 50% of their own weight in water. As our fenders are hand made, sizes and weight may vary.

Both side and bow fenders are available in five standard sizes or fenders can be made to your specification.

BOW FENDERS

K-3032



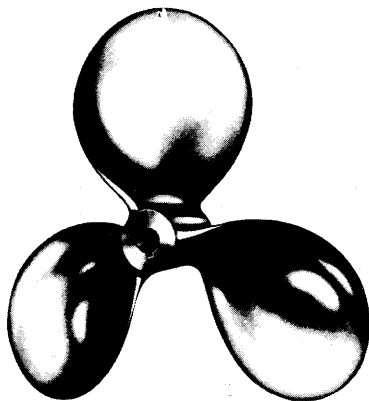
Bow fenders under 40" in length have one steel wire loop on the right and left side. 40" and larger are as shown (Turnbuckle and shackle not included).



Bowfenders with beard as shown available



W.J. KEATING LIMITED

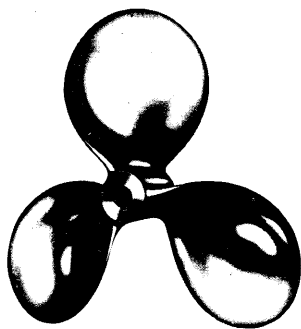


INVESTMENT CAST # 316 STAINLESS STEEL PROPELLERS

Applications for mixing, blending, and liquid movement of all types

Standard 3-blade Industrial propellers, porosity-free, precise pitch accuracy, balanced and accurately machined are your assurance of efficient vibration-free performance.

Die Size Dia. Pitch	Hand	Hub Dia. (Inches)	Hub Length (Inches)	Stock Bores with Set Screws (Inches)	Max. Bores with Keyway (Inches)	Buffed Mirror Finish or "Roto" Dull Finish
3 x 3	R - L	$\frac{7}{8}$	1	$\frac{3}{8} - \frac{1}{2} - \frac{5}{8}$	N.A.	
3 x 3	L	$\frac{7}{8}$	1	$\frac{3}{4}$	$\frac{1}{2} *$	
4 x 4	R - L	1	1	$\frac{1}{2} - \frac{5}{8} - \frac{3}{4}$	$\frac{1}{2}$	
4 x 4	L	$1\frac{3}{4}$	1	$1 - 1\frac{1}{4}$	1	
5 x 5	R - L	1	$1\frac{1}{4}$	$\frac{1}{2} - \frac{5}{8} - \frac{3}{4}$	$\frac{1}{2}$	
5 x 5	R - L	$1\frac{3}{4}$	$1\frac{1}{4}$	$1 - 1\frac{1}{4}$	1	
6 x 6	R - L	1	$1\frac{1}{4}$	$\frac{5}{8} - \frac{3}{4}$	$\frac{1}{2} *$	
6 x 6	R - L	$1\frac{3}{4}$	$1\frac{1}{4}$	$1 - 1\frac{1}{4}$	1	
7 x 7	R - L	$1\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{4} - \frac{5}{8}$	$\frac{3}{4}$	
7 x 7	R - L	$1\frac{3}{4}$	$1\frac{1}{2}$	$1 - 1\frac{1}{4}$	1	
8 x 8	R - L	$1\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4} - \frac{7}{8}$	$\frac{3}{4} - \frac{7}{8}$	
8 x 8	R - L	$1\frac{3}{4}$	$1\frac{3}{4}$	$1 - 1\frac{1}{4}$	1	
8 x 12	L	$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{3}{4} - 1$	$\frac{3}{4} - 1$	
9 x 9	L	$1\frac{5}{8}$	$2\frac{1}{8}$	$\frac{3}{4} - 1$	$\frac{3}{4} - 1$	
9 x 14	L	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{3}{4} - 1 - 1\frac{1}{4}$	$\frac{3}{4}$	
10 x 10	L	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{3}{4} - 1 - 1\frac{1}{4}$	$\frac{3}{4} - 1$	
10 x 10	R	$1\frac{3}{4}$	$2\frac{1}{4}$	$1 - 1\frac{1}{4}$	1	
10 x 15	L	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{3}{4} - 1 - 1\frac{1}{4}$	$\frac{3}{4} - 1$	
11 x 11	L	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{7}{8} - 1 - 1\frac{1}{4} - 1\frac{1}{8}$	$\frac{7}{8}$	
11 x 16	L	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{3}{4} - 1 - 1\frac{1}{4}$	$\frac{7}{8} *$	
12 x 12	R - L	$1\frac{3}{4}$	$2\frac{5}{8}$	$1 - 1\frac{1}{4}$	1	
12 x 18	L	$1\frac{3}{4}$	$2\frac{3}{4}$	$1 - 1\frac{1}{4}$	1	
13 x 13	L	$1\frac{3}{4}$	$2\frac{5}{8}$	$1 - 1\frac{1}{4}$	1	
13 x 20	L	2	3	$1\frac{1}{4} - 1\frac{1}{2}$	$1\frac{1}{4}$	
14 x 14	R - L	$2\frac{1}{4}$	3	$1\frac{1}{4} - 1\frac{1}{2}$	$1\frac{1}{4}$	
14 x 21	L	2	3	$1\frac{1}{4} - 1\frac{1}{2}$	$1\frac{1}{4}$	
15 x 15	L	$2\frac{1}{2}$	3	$1\frac{1}{4} - 1\frac{1}{2}$	$1\frac{1}{2}$	
16 x 16	L	$2\frac{1}{2}$	3	$1\frac{1}{4} - 1\frac{1}{2}$	$1\frac{1}{2}$	



"SAND CAST" PROPELLERS

Are accurate to all manufacturing tolerances, providing assurance of maximum performance with freedom of vibration.

Pattern Size Dia. Pitch	Hand	Hub Size (end) (Inches)	Hub Length (Inches)	STANDARD Max. Straight Bore with Set Screws (Inches)	with Keyway (Inches)
3 x 3	R - L	$\frac{7}{8}$	1	$\frac{5}{8}$	N.A.
4 x 4	R - L	$\frac{7}{8}$	1	$\frac{5}{8}$	N.A.
4 x 4	R - L	$1\frac{1}{8}$	1	$\frac{3}{4}$	$\frac{5}{8}$
5 x 5	R - L	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$
5 x 5	R - L	$1\frac{3}{8}$	$1\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$
6 x 6	R - L	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$
7 x 7	R - L	$1\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$
7 x 7	R - L	2	$1\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$
8 x 8	R - L	$1\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{5}{8}$
8 x 8	R - L	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{8}$	1
8 x 8	R - L	2	$1\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$
9 x 9	R - L	$1\frac{3}{8} \times 1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$
9 x 9	R - L	$1\frac{3}{8}$	$2\frac{1}{8}$	$\frac{7}{8}$	$\frac{3}{4}$
10 x 10	R - L	$1\frac{3}{8} \times 1\frac{3}{8}$	$2\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$
10 x 10	R - L	$1\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{1}{8}$	1
11 x 11	R - L	$1\frac{7}{8} \times 1\frac{5}{8}$	$2\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$
11 x 11	R - L	$1\frac{5}{8}$	$2\frac{1}{4}$	$1\frac{1}{8}$	$\frac{3}{4}$
12 x 12	R - L	$1\frac{5}{8} \times 1\frac{3}{4}$	$2\frac{5}{8}$	1	$\frac{3}{4}$
12 x 12	R - L	$1\frac{3}{4}$	$2\frac{5}{8}$	$1\frac{1}{8}$	1
13 x 13	R - L	$1\frac{5}{8} \times 1\frac{3}{4}$	$2\frac{3}{4}$	1	$\frac{7}{8}$
13 x 13	R - L	2	$2\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$
14 x 14	R - L	$1\frac{3}{4} \times 2$	3	$1\frac{1}{8}$	1
14 x 14	R - L	$2\frac{1}{4}$	3	$1\frac{1}{2}$	$1\frac{1}{4}$
15 x 15	R - L	$1\frac{3}{4} \times 2$	3	$1\frac{1}{8}$	1
16 x 16	R - L	$1\frac{5}{8} \times 2\frac{3}{8}$	$3\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$
17 x 17	R - L	$2 \times 2\frac{3}{8}$	$3\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{1}{8}$
18 x 18	R - L	$2 \times 2\frac{3}{8}$	$3\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{1}{8}$
18 x 18	R - L	$3\frac{1}{2}$	$3\frac{3}{8}$	$2\frac{1}{4}$	2
20 x 20	R - L	$2\frac{1}{8} \times 2\frac{1}{8}$	$3\frac{3}{4}$	$1\frac{3}{8}$	1
20 x 20	R - L	$3\frac{1}{2}$	$3\frac{3}{4}$	$2\frac{1}{4}$	2
22 x 22	R - L	$2\frac{1}{8} \times 2\frac{1}{8}$	$4\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{1}{4}$
24	R - L	Hub Diameters determined by Bore and Keyway size. Specified Props requiring enlarged Hubs to accommodate extra large Bores available on special quotation.	$4\frac{1}{2}$		2
26	R - L		$5\frac{1}{4}$		$2\frac{1}{4}$
28	R - L		$5\frac{1}{4}$		$2\frac{1}{2}$
30	R - L		6		$2\frac{3}{4}$
32	R - L		6		3
34	R - L		$6\frac{5}{8}$		$3\frac{1}{4}$
36	R - L		7		$3\frac{1}{2}$
38	R - L		$7\frac{3}{4}$		$3\frac{3}{4}$
40	R - L		$7\frac{3}{4}$		$3\frac{3}{4}$
42	R - L		8		$3\frac{3}{4}$
44	R - L		8		$3\frac{3}{4}$
46	R - L		10		4
48	R - L		10		4
50	R - L		$10\frac{3}{4}$		4

Aluminum or Manganese Bronze, Buff Finish

Manganese Bronze #40 Grit Finish

316 Stainless Buff Finish

316 Stainless #40 Grit Finish "RF"

Cast Iron Balanced Casting Only (A) (B)

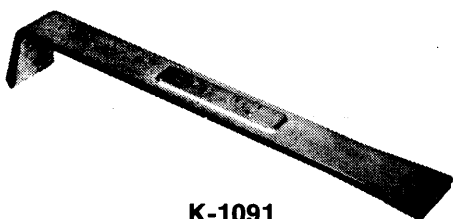
Sizes, alloys, etc. other than listed quoted upon receipt of drawings or specifications.



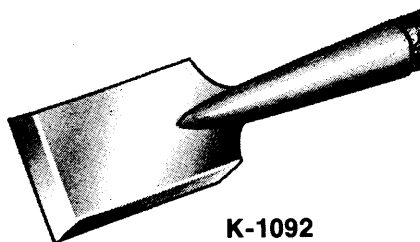
W.J. KEATING LIMITED

NON-SPARKING TOOLS

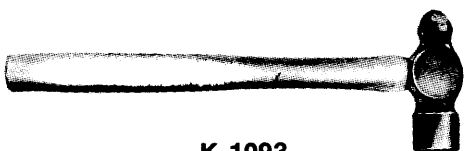
AVAILABLE IN VARIOUS SIZES



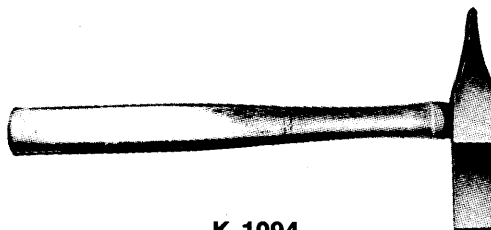
K-1091
MANGANESE BRONZE
DOUBLE END SCRAPERS



K-1092
MANGANESE BRONZE
DECK SCRAPERS



K-1093
MANGANESE BRONZE BALL PEEN
HAMMERS



K-1094
MANGANESE BRONZE CHIPPING
HAMMER



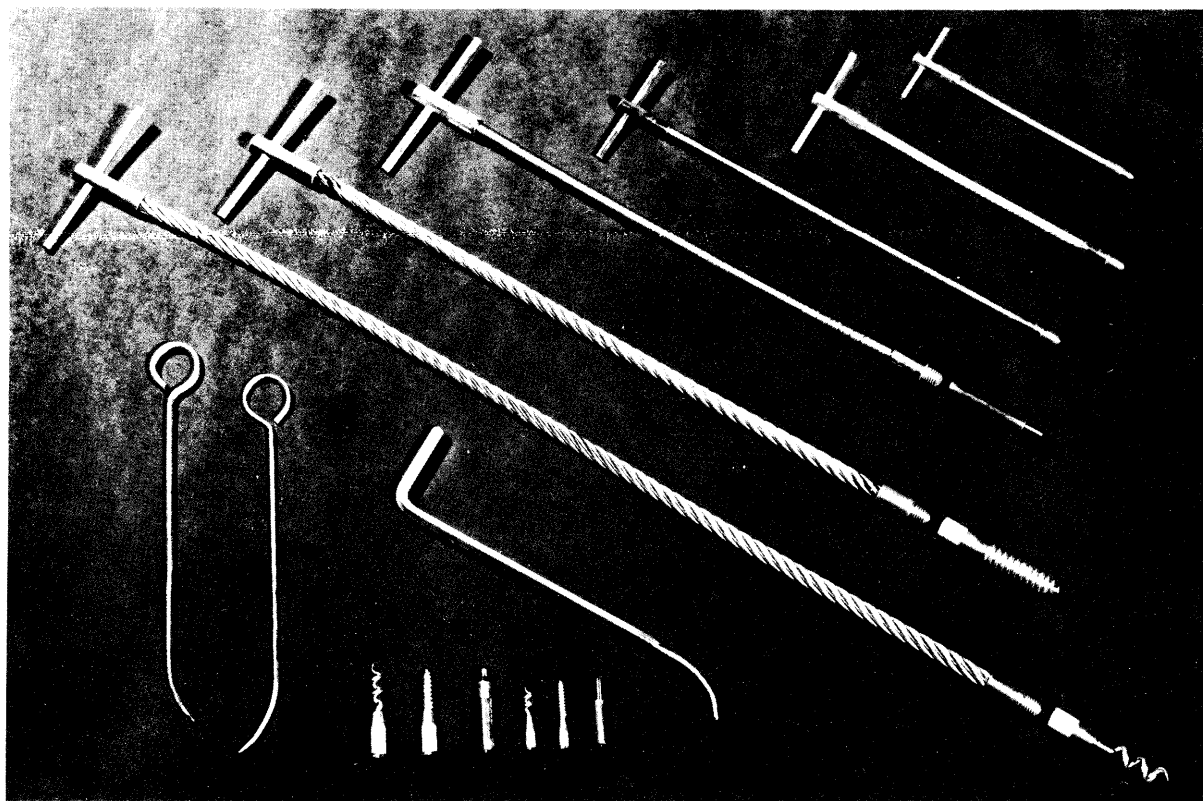
K-1095
HEAVY DUTY MANGANESE
BRONZE BOX WRENCHES



W.J. KEATING LIMITED

Flexible and Solid Shaft Packing Extractors

The removable tip feature of our flexible shaft extractors means real savings for you in time and money, and makes them multiple purpose tools:



Flexible Shaft Extractors

Size No.	Overall Length	Packing Spaces
With your choice of removable corkscrew or woodscrew bits—		
No. 1	7½"	¼" up
No. 2	11"	⅜" up
No. 3	14½"	½" up
With your choice of fixed corkscrew or woodscrew bits—		
No. 4	19"	⅝" up
No. 5	23"	¾" up
No. 6	30"	1" up

Solid Shaft Extractors*

No. 7	10"	⅞" up
No. 8	10"	3 ₁₆ " up
No. 9	10"	5 ₁₆ " up

*Excellent for removing valve stem packing and packing which tends to break up easily.

Packing Hook Sets

- K-1096**—14 Items in Special Tool Box
 2—No. 1 Flexible Shaft Tools
 2—No. 2 Flexible Shaft Tools
 6—Removable Tips
 (3 corkscrew bits for each size tool)
 1—No. 7 Solid Shaft Extractor
 1—No. 8 Solid Shaft Extractor
 1—No. 9 Solid Shaft Extractor
 1—Wrench
- K-1097**—22 Items in Special Tool Box
 2—No. 1 Flexible Shaft Tools
 2—No. 2 Flexible Shaft Tools
 2—No. 3 Flexible Shaft Tools
 12—Removable Tips
 (3 corkscrew and 1 woodscrew for each size tool)
 1—No. 7 Solid Shaft Extractor
 1—No. 8 Solid Shaft Extractor
 1—No. 9 Solid Shaft Extractor
 1—Wrench



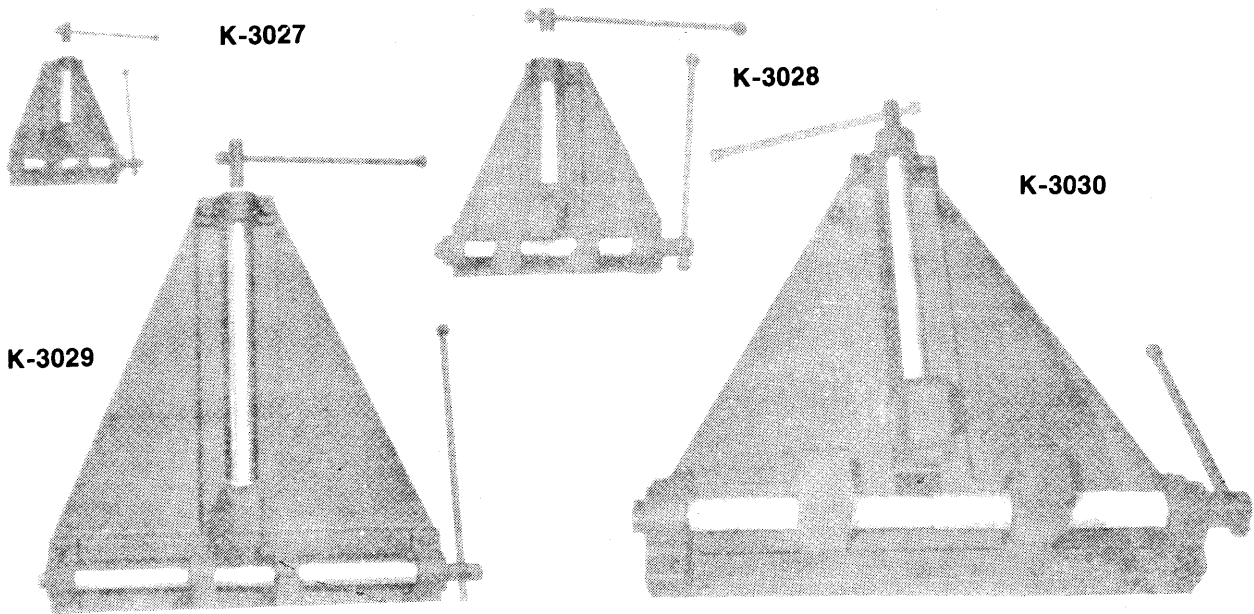
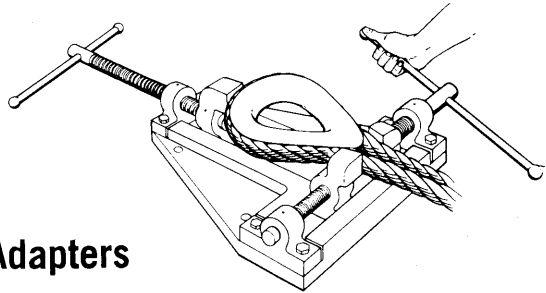
W.J. KEATING LIMITED

RIGGERS' Forming Vises

Handle $\frac{1}{16}$ " to $3\frac{1}{2}$ " Cable Without Adapters

Form Strong Slings for Handling Many Heavy Loads

Proven in Maritime, Oil, Lumber, Construction & Manufacturing Industries



Available in 4 Sizes as Pictured

Meeting all standard federal specifications, the Portable Riggers' Forming Vise is in widespread use wherever cable and wire rope is in use or handled. Patented jaws hold and snug cables and wire rope from $\frac{1}{16}$ " to $3\frac{1}{2}$ " inclusive without adapters. Slots in the base are dovetailed to accept dovetailed jaws. The base is drilled with four $\frac{5}{8}$ " holes for mounting in flat or horizontal position. Acme threaded screws provide easy operation and positive action and extreme strength. Rigid construction assures durability. Invaluable for forming cable or wire rope around thimbles or fixtures, making slings for either splicing or "U" bolt clamp or clip installations.

Prices Available On Request

	Front Jaw Spread	Base Dimensions	Wire Line Capacity
K-3030	to 23"	35"x37"	$1\frac{1}{2}$ "x $3\frac{1}{2}$ "
K-3029	to 23"	35"x37"	$1\frac{1}{2}$ " to $2\frac{1}{2}$ "
K-3028	to 9 $\frac{1}{2}$ "	19"x19 $\frac{1}{2}$ "	$\frac{3}{8}$ " to $1\frac{1}{2}$ "
K-3027	to 4 $\frac{1}{4}$ "	10"x11 $\frac{1}{2}$ "	$\frac{1}{16}$ " to $\frac{3}{4}$ "



W.J. KEATING LIMITED

"Bridger" Shoulder Line Gun Kit



LINE GUN USES

Rescues at sea • Shipwrecks • Strandings • Man overboard • Retrieving lost barges or tows • Transfer of sick or equipment • Refueling operations • Docking • Rescues in rivers - floods - rapids and people falling thru ice on lakes • in large building fires for saving people where ladders won't reach • Getting equipment to people and firemen in high places • Construction workers save time and money to get lines over ravines - rivers - trees - obstacles and thru pipes • Mining company for rescue in cave-ins • Getting food - water and medical supplies thru small holes to cave-in victims • Mountainous areas use them where mountain climbing is done.

KIT # K-4025

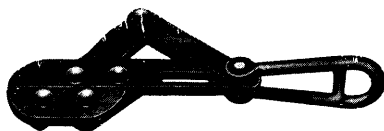
With each gun we supply the following material

1 Well Constructed Wooden Gun; Box with solid brass hardware; 10 Brass Projectiles; 4 Nylon Shot Lines (ea. 600 ft.); 1 Aerometal Cannister; 3 Rewinding Spindles; 25 Blank Cartridges Heavy Loads; 1 Can Gun Oil; 1 Cleaning Rod; 1 Wire Brush; 1 Box Patches; 1 Set Plastic Instructions; 1 Bottle Cleaning Solvent.

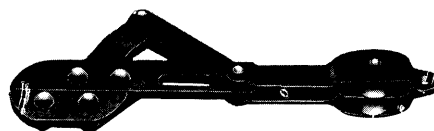
BUFFALO GRIPS

The Buffalo Grip has a gripping power which increases with and is many times the pull applied to it, making it an absolutely reliable tool that will not slip, no matter how severe the strain.

The Buffalo Grip is made in two sizes with flat jaws for bare wire and in two sizes with longitudinally-grooved jaws for insulated wire. Each size can be supplied with a loop or a pulley shackle, as desired.



K-1083 Buffalo Grip with Loop



K-1084 Buffalo Grip with Pulley

Cat. No.	Extreme Opening, Inches	DESCRIPTION
1	.22	Has flat jaws for bare wire from smallest to No. 6 incl. When equipped with pulley, use $\frac{5}{16}$ " rope
2	.35	Has flat jaws for bare wire from smallest to No. 0 incl. When equipped with pulley, use $\frac{3}{8}$ " rope
4	.52	Has grooved jaws for weatherproof wire No. 6 to No. 1 incl. When equipped with pulley, use $\frac{3}{8}$ " rope
6	.29	Has grooved jaws for weatherproof wire No. 14 to No. 8 incl. When equipped with pulley, use $\frac{5}{16}$ " rope



W.J. KEATING LIMITED

U.S. COAST GUARD APPROVED

EMBARKATION AND DEBARKATION

LADDER TYPE 11 PLS

K-3084

