

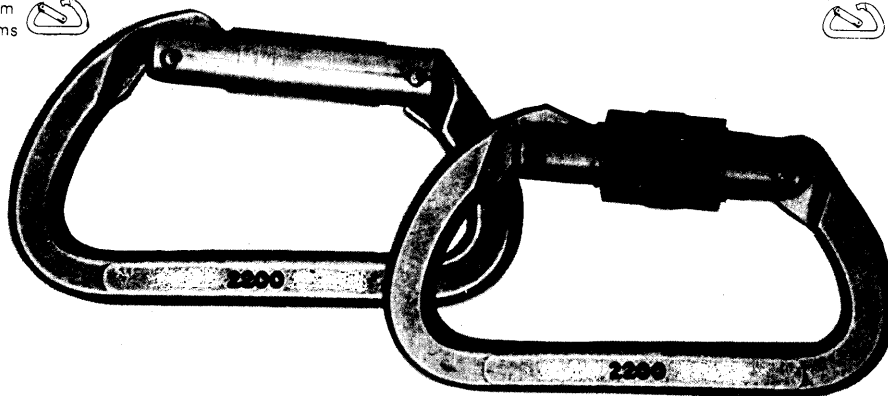


**W.J. KEATING LIMITED**

# **MOUNTAINEERING EQUIPMENT**

## **ALUMINUM KARABINERS**

10mm Aluminium Offset 'D'  
18mm  
55gms



**K-5017**

2200 kg

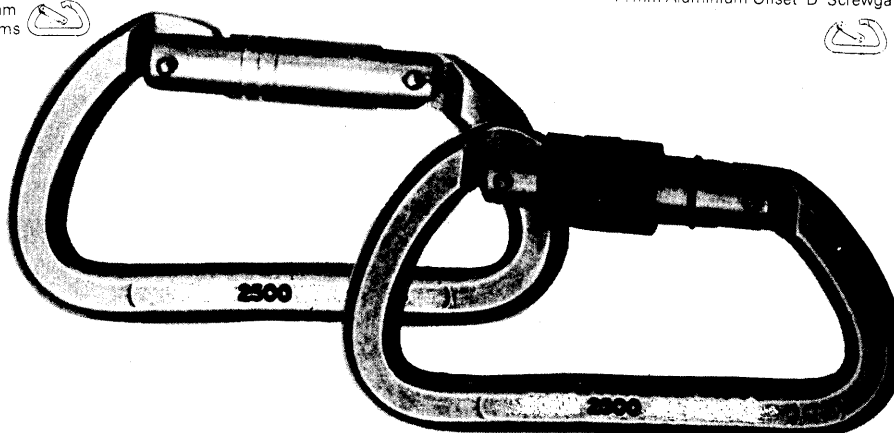


10mm Aluminium Offset 'D' Screwgate  
15mm



**K-5018**

11mm Aluminium Offset 'D' UIAA  
22mm  
68gms



**K-5019**

2500 kg

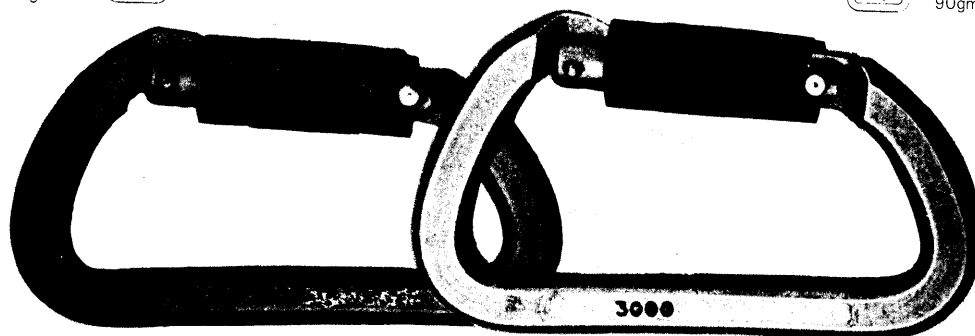


11mm Aluminium Offset 'D' Screwgate UIAA  
19mm  
74gms



**K-5022**

11mm Aluminium Offset 'D' Twist Lock  
15 875mm  
80gms



**K-5023**

2500 kg



3000 kg



13mm Aluminium Offset 'D' Twist Lock  
16.5mm  
90gms



**K-5025**

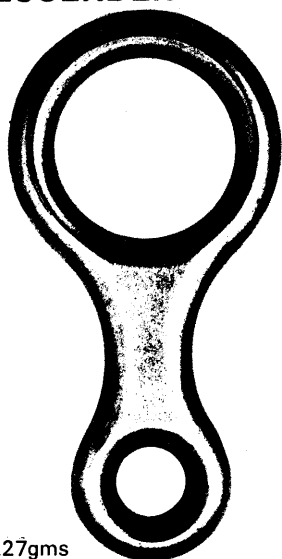


**W.J. KEATING LIMITED**

## **MOUNTAINEERING EQUIPMENT**

### **FIGURES OF EIGHT**

#### **LARGE DESCENDER**



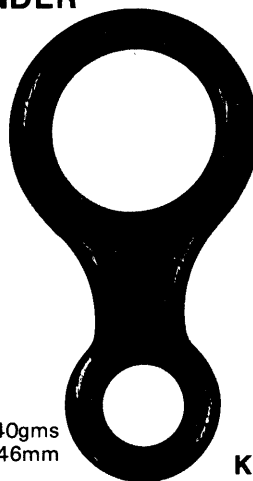
082004 227gms  
84mm x 186mm

**K-5026**

#### **LARGE MODEL**

Forged from HF30. The breaking strain when new is 6000 kg. The extra material in this model allows for heat dissipation and wear resistance and is particularly recommended for Mountain Rescue.

#### **SMALL DESCENDER**



081043 140gms  
76mm x 146mm

**K-5027**

#### **SMALL MODEL**

Forged from HF15. The breaking strain when new is 4000 kg. This model is hard anodised to give protection against corrosion. It is far lighter than the large model and is therefore very popular with individual climbers. The small eye readily accepts two karabiners.

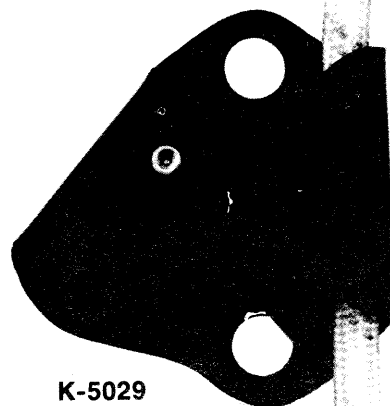
## **ASCENDERS**



**K-5028**

#### **EXPEDITION ASCENDERS**

Designed for use with 'mittened hands'. The top is for sac hauling and mountain rescue and the moulded handle presents a smooth surface for tape attachment to the rope. The trigger release locks the rope in position.



**K-5029**

#### **STANDARD ASCENDERS**

Compact and light. The top attachment hole is for sac hauling and mountain rescue whilst the bottom hole is for attachment to the rope via a karabiner, which also prevents accidental removal of the rope.



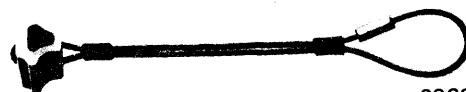
# W.J. KEATING LIMITED

## MOUNTAINEERING EQUIPMENT






### NUTS

Nuts are made from high strength Aluminium alloy. The wire used for the construction of the wire slings is extra high tensile Steel and is plated for corrosion resistance. The joint is made by the hydraulic swaging of a compression sleeve and is the strongest point of the sling. In all but the largest sizes, the wire sling nuts give a greater breaking strain than is available using rope or tape and they are generally easier to place. For higher breaking strain and ease of placement, the four smallest wedges and the two smallest hexagons are only available as wire sling assemblies.

**THE USE OF TAPE SLINGS ON SMALLER NUTS IS NOT RECOMMENDED.**



COGS

Number	Wire	Rope						Rope		Wire		
			mm	mm	mm	mm	mm	gms	mm	gms	kg	
Brass A	611940		Hexagonal	6	6	15	15			2 5	20	750
Brass B	612943		Hexagonal	8	8	18	18			2 5	24	750
1	661972	661004	19	17	15	26	23	5	10	4	50	1750
2	662975	662000	21	19	18	29	26	6	15	4	55	1750
3	663971	663003	26	23	20	33	29	7	25	4	64	1750
4	664974	664006	30	27	24	37	33	8	29	4	68	1750
5	665970	665002	34	31	28	43	37	9	41	4	86	1750
6		666005	39	35	32	23	20	6	26			
7		667001	45	41	37	27	23	7	37			
8		668004	53	49	44	32	27	8	58			
9		669000	63	57	52	39	32	9	89			
10		660001	75	67	60	47	39	10	133			



### PITONS

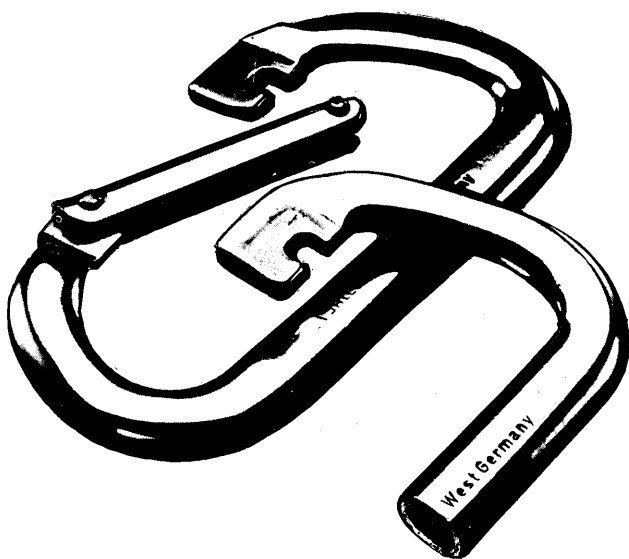
KING PINS						
511691		1	Short Thin	60	5	57
512694		2	Long Thin	80	5	68
513690		3	Short medium	60	8	75
514693		4	Long Medium	80	8	88
515696		5	Short Thick	60	10	77
516692		6	Long Thick	80	10	110
517695		7	Extra Long	100	9	110
ANGLES						
	1	531694	75	13	60	
	2	532690	80	15	74	
	3	533693	110	20	88	
	4	534696	100	25	116	
OFFSETS						
	521696	Razor Blade Direct Aid only	40	2	50	
	522692	Short Knife Blade	45	3	65	
	523695	Long Knife Blade	60	3	77	
SKY HOOKS				MICRO PEGS		
	562691	44gms	Straight	Flat	551690	12gms
	561695	44gms	Curved	Bent	552693	12gms



**W.J. KEATING LIMITED**

# MOUNTAINEERING EQUIPMENT

## HOLLOW karabiner



This new superlight and at the same time strong karabiner sets a new standard for karabiners. It has a minimum break strength of 2000 kg (approx. 4400 lbs.) and a max. testing strength of 2200 kg (approx. 4850 lbs). The weight is 43 g (1½ ozs.).

The wide gate opens smoothly and its D-shape makes it real handy and gives proof of the best intensions of the designer to the climber. Every single karabiner is individually tested electronic-mechanically and stamped with the min. test strength.

K-2056 /inox  
K-2057 /black

## LADDERS

### Etrier "Standard"

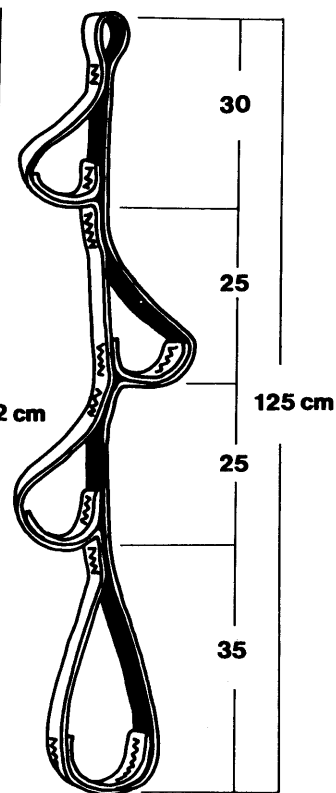
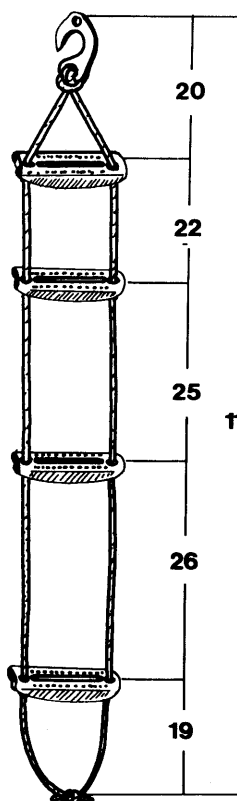
4 alu steps, Fifi hook.  
Weight: 160 g

K-2054

### Etrier "Cengalo"

4 steps  
Weight: 175 g

K-2055



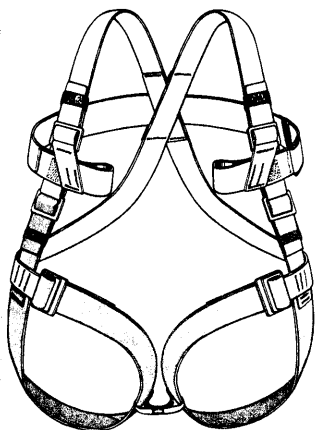


**W.J. KEATING LIMITED**

## MOUNTAINEERING EQUIPMENT

### Fullbody harnesses — the safest system

**K-2063**



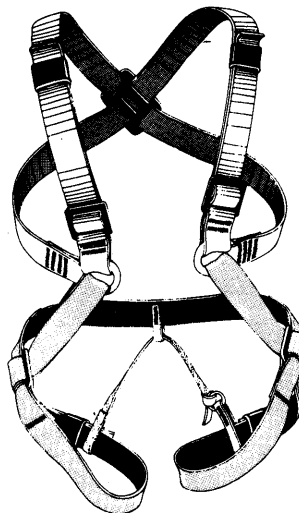
A new development — a reasonably priced, light weight complete fullbody harness — for beginners and advanced climbers alike. Fully adjustable. Chest size, 40–115 cm. The extra wide tapes help distribute the pressure. Width of chest tape — 45 mm. Width of leg loops 35 mm. Includes one gear sling on the chest harness. The tape connecting chest and seat sections is adjustable in length. The harness can be adapted to all body sizes. Open leg loops with a slip-in buckle.

Colours: chest red  
connecting tape red  
leg loops blue

Sewn with contrasting thread.  
Weight: 605 g.

**K-2063**

**K-2064**



Super light weight fullbody harness — designed for climbing in glacier and ski areas (expeditions). 35 mm wide tape for both chest and seat harness. Fully adjustable, suitable for all body sizes. Different colour of seat harness/blue and chest harness/red simplify use.

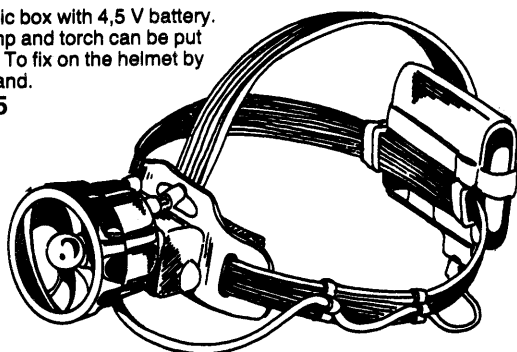
Weight: 500 g.  
Size: fully adjustable

**K-2064**

#### Head lamp

Flat plastic box with 4,5 V battery. Head lamp and torch can be put together. To fix on the helmet by rubber band.

**K-2065**



**K-2065**

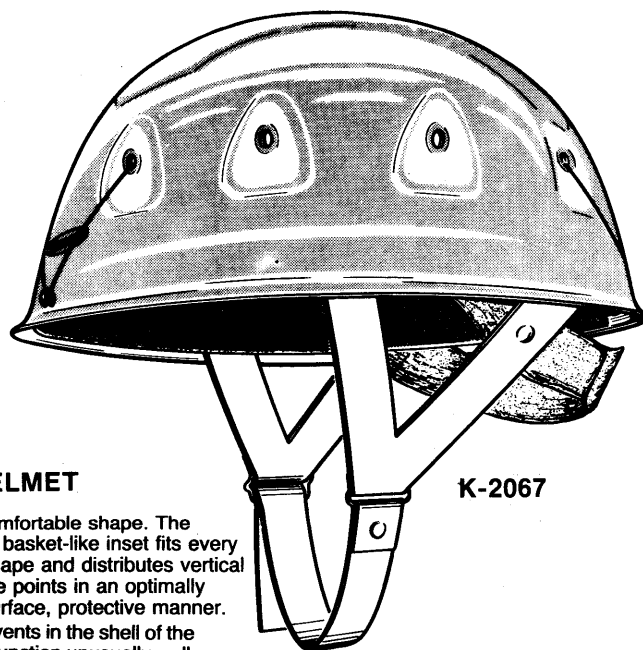
#### HELMET

Very comfortable shape. The flexible, basket-like inset fits every head shape and distributes vertical pressure points in an optimally large surface, protective manner.

The air vents in the shell of the helmet function unusually well (based on the chimney principle). 8 large air holes (about 2,2 cm<sup>2</sup>) avoid the collection of heat even at high temperatures. Elastic lamp fastening strap.

Colours: red, white  
Size: adjustable  
Weight: 580 g

**K-2067**



**K-2067**

#### Fiffi hook

The Fiffi with a "bite". This new, improved model, has a sharp point at the hook and a new large hook radius. This shape allows use in all circumstances, especially when the point can be placed in nooks and crannies in the rock.

Zinc surface.  
Weight 30 g.

**K-2066**

**K-2066**





# W.J. KEATING LIMITED

## MOUNTAINEERING EQUIPMENT

K-2058

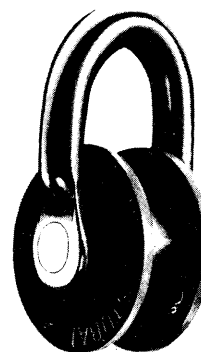
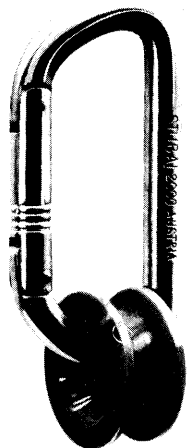
### Karabiner rope pulley

MODEL „Wagner” K-2058

made of plastic

The new Stubai Karabiner rope pulley model "Wagner" is without doubt sometimes a life-saving factor and represents a great step forward in mountain rescue techniques. It saves 25% energy (as opposed to 10% in the case of normal pulley), it slides well (plastic, self-lubricating) and can be easily transported due to its lightness (15 g, size 20x48 mm).

Part No.	[-mm-]	g
068-1239	45	15



### Pulley K-2059

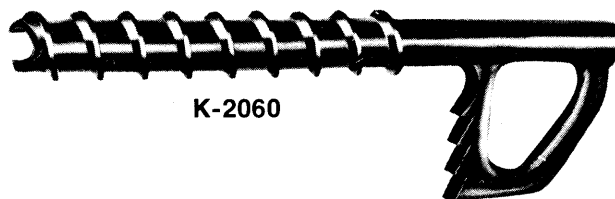
Aluminium ring, plastic wheel Ø45 mm, for lifting up loads

Part No.	[-mm-]	g
068-1275	75	53

### Tubular Ice Screw K-2060

Forged in one piece, with slot for easy removal of ice, galvanized, without square, with two cutters.

Part No.	[-mm-]	mm	g
068-1319	140	100	90
068-1.	200	150	120

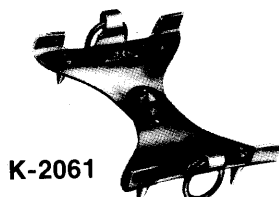


K-2060

### Instep Crampons K-2061

Adjustable, zinc-plated

Part No.	g
068-1355	220



K-2061

### MODEL Tirol K-2062

12 points, adjustable, easy to fit on boots, made of especially selected high tensile and cold resistant steel. Very stable crampon for extreme pretension; middle bars riveted on (therefore no loosening of screws).

#### Quick and advantageous adaption:

The crampon can be adjusted to the boot from front and back. The middle bars are flat and of softer metal and can be formed to the boot for an exact fit without heating.

#### Adjustable in length with triple safety:

Threat in counter bar prevents screw from coming out; nut as additional protection; riveting of top of screw as final safety.

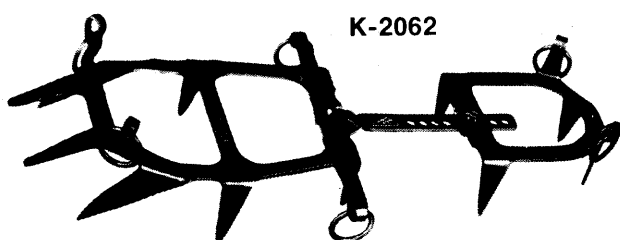
#### Balancing safety:

Due to the bigger distance in width of the first pair of downward points from each other compared with the two front points much less danger in toppling.

#### Less effort:

Front points and first pair of downward points are designed for a 45° slope. Great relaxation of shank muscular system therefore.

Part No.	size	g
068-1391	36-41	700
068-1417	42-47	750



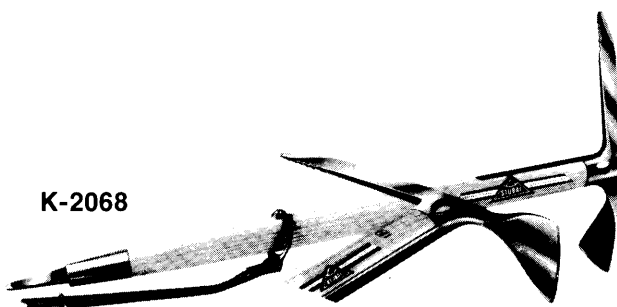
K-2062



**W.J. KEATING LIMITED**

## MOUNTAINEERING EQUIPMENT

K-2068



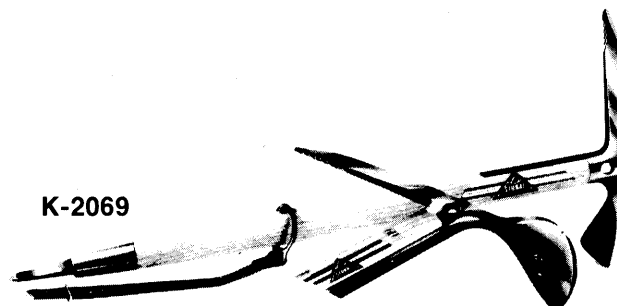
### MODEL **Aschenbrenner with ash shaft** K-2068

With flat adze and karabiner hole.

Part No.	mm	g
068-6332	630	760
068-6350	700	780
068-3031	750	800
068-3077	800	820

Part No.	mm	g
068-6234	850	840
068-6270	900	860
068-6314	970	880

K-2069



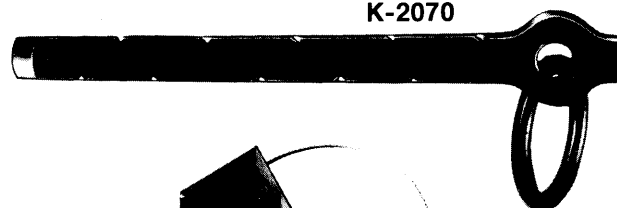
### MODEL **Aschenbrenner (ski axe) with ash shaft** K-2069

With curved adze and karabiner hole.

Part No.	mm	g
069-2110	630	760
069-2138	700	780
069-2156	750	800
069-2236	800	820

Part No.	mm	g
068-3111	850	840
069-2030	900	860
069-2076	970	880

K-2070

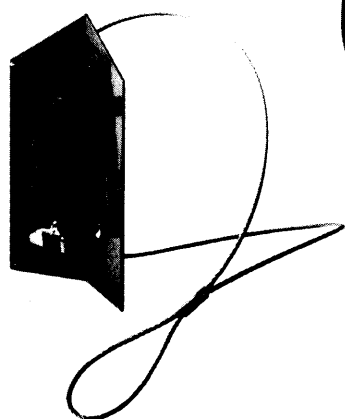


### **Ice Piton** K-2070

with ring

Part No.	mm	mm	g
069-2272	250	210	150
069-2316	350	310	210

K-2071

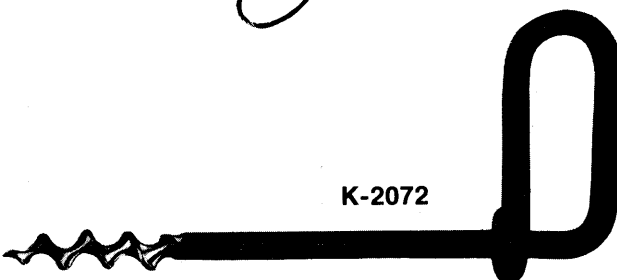


### **Snow Belay** K-2071

Made of high strength aluminium, lacquered, with steel wire

Part No.	Leng mm	g
069-2334	069-2637	400
069-2352	069-2673	480

K-2072

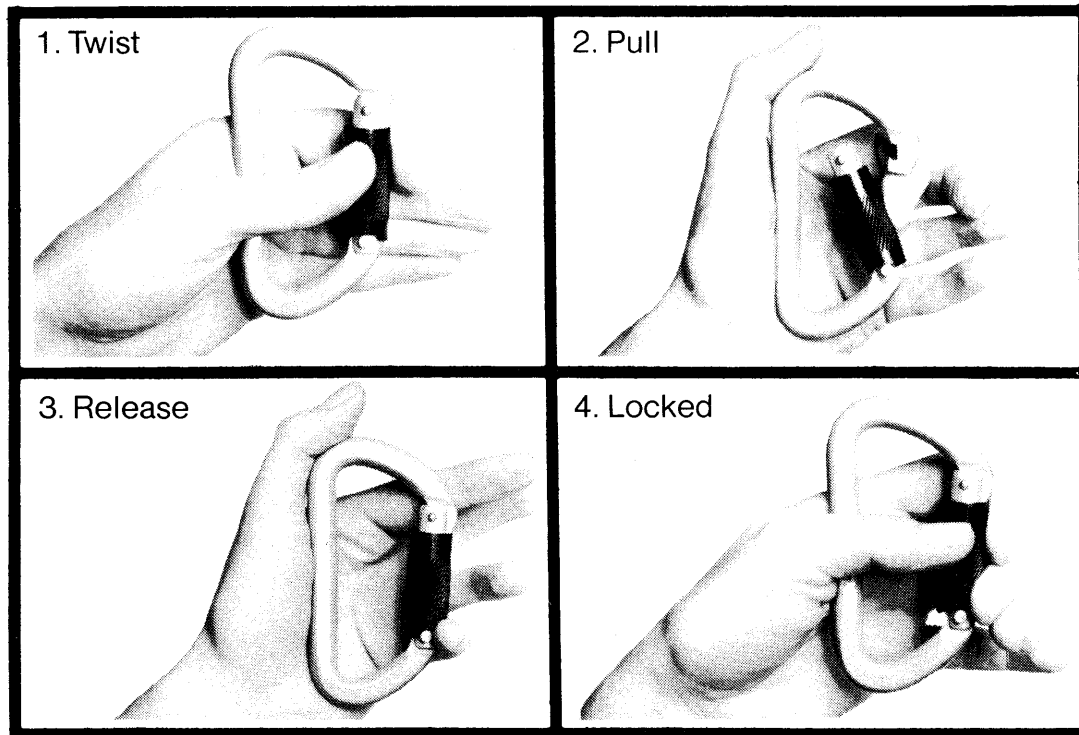


### **Ice Screws** MODEL **Marwa** K-2072

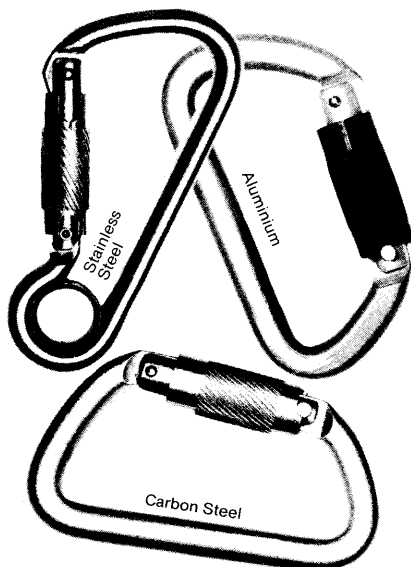
Part No.	mm	mm	g
069-2717	110/5,5	80	20
069-2735	150/6	120	40
069-2753	150/7	120	60
069-1950	200/7	170	80



# TWISTLOK KARABINERS



## SELF LOCKING HOOKS



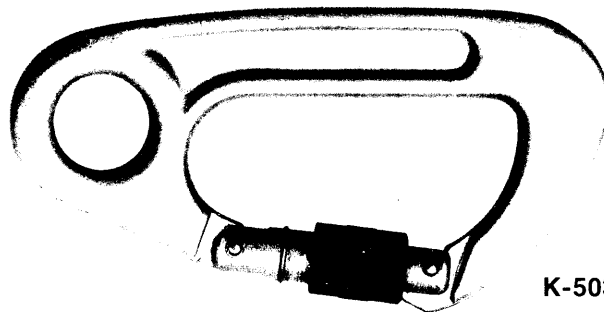
Twist a quarter of a turn to open, pull back to clip on, release gate to lock off.

Code	Material	Opening mm	Breaking Strength		Weight gms	Dimensions in mm
			Major axis kg	Minor axis kg		
K-5030	Aluminium	19	2500	800	80	109 x 62
K-5031	Aluminium	19	3000	800	90	112 x 64
K-5032	Aluminium	25	2200	800	80	115 x 74
K-5033	Aluminium	23	2200	800	110	123 x 78
K-5034	Stainless Steel	16	2000	750	150	115 x 60
K-5035	Carbon Steel	19	3000	1200	210	108 x 61





## INDUSTRIAL HOOK



K-5036

### MANUFACTURE

All manufacturing processes are carried out entirely in our works. Hot forged from high strength aircraft alloy, heat treatment is to A.I.D. standards and quality control is rigorous. Components are anodised to BS 1615-1972 grade A10 to give maximum resistance against corrosion.

### MATERIAL SPECIFICATION

BACK — Aircraft alloy HF15 - or others for special applications - anodised.

GATES — As above - anodised.

LOCKING FERRULE — Free machining aluminium - anodised.

RIVET AND SPRING PUSHER — High tensile stainless steel.

SPRING — Stainless steel.

### CARE AND USE

**INSPECT** the action of the gate and the screw. Occasionally oil the mechanism with a light machine oil.

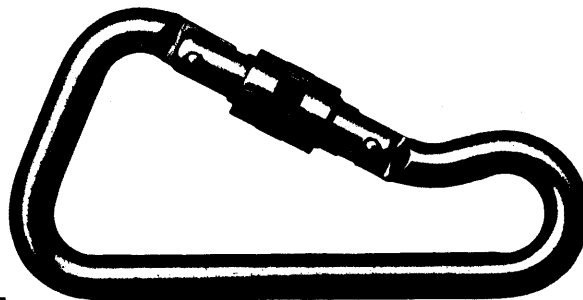
**AVOID** contact with corrosive substances particularly alkalis.

**SECURITY** the locking ferrule does not add to the strength of the karabiner but it does give greater gate security and it must be fastened to ensure that there is no inadvertent opening of the gate.

### CERTIFICATION

Karabiners can be proof loaded if required to be and certificate of conformance supplied.

## STEEL SAFETY HOOK



K-5037

### MANUFACTURE

Made from Carbon Steel the heat treatment is very carefully controlled. The plating of the steel components complies with BS 1397 and care is taken to avoid hydrogen embrittlement. Component parts are plated before assembly to ensure maximum protection against corrosion and the use of stainless steel, for the internal parts, ensures high strength whilst avoiding electrolytic corrosion.

### MATERIAL

BACKS	Carbon Steel
GATES	Carbon Steel
LOCKING FERRULES	Carbon Steel
RIVETS	High tensile stainless steel
SPRING PUSHER	High tensile stainless steel
SPRING	High tensile stainless Steel

### CARE AND USE

**INSPECT** the action of the gate and the screw. Occasionally oil with a light machine oil.

**ALWAYS** place screwgate karabiners to ensure that the rope action will not release the screw.

**ALWAYS** PLACE KARABINERS TO ENSURE THAT THE GATE IS NOT OPENED BY PROJECTIONS.

**AVOID** CONTACT WITH CORROSIVE SUBSTANCES

### CERTIFICATION

The figures given represent the minimum breaking strain of the karabiner when tested over 12 mm pins. Components can be proof loaded and certificates of conformance provided. Plating is to BS 1706 ZN3.



**W.J. KEATING LIMITED**

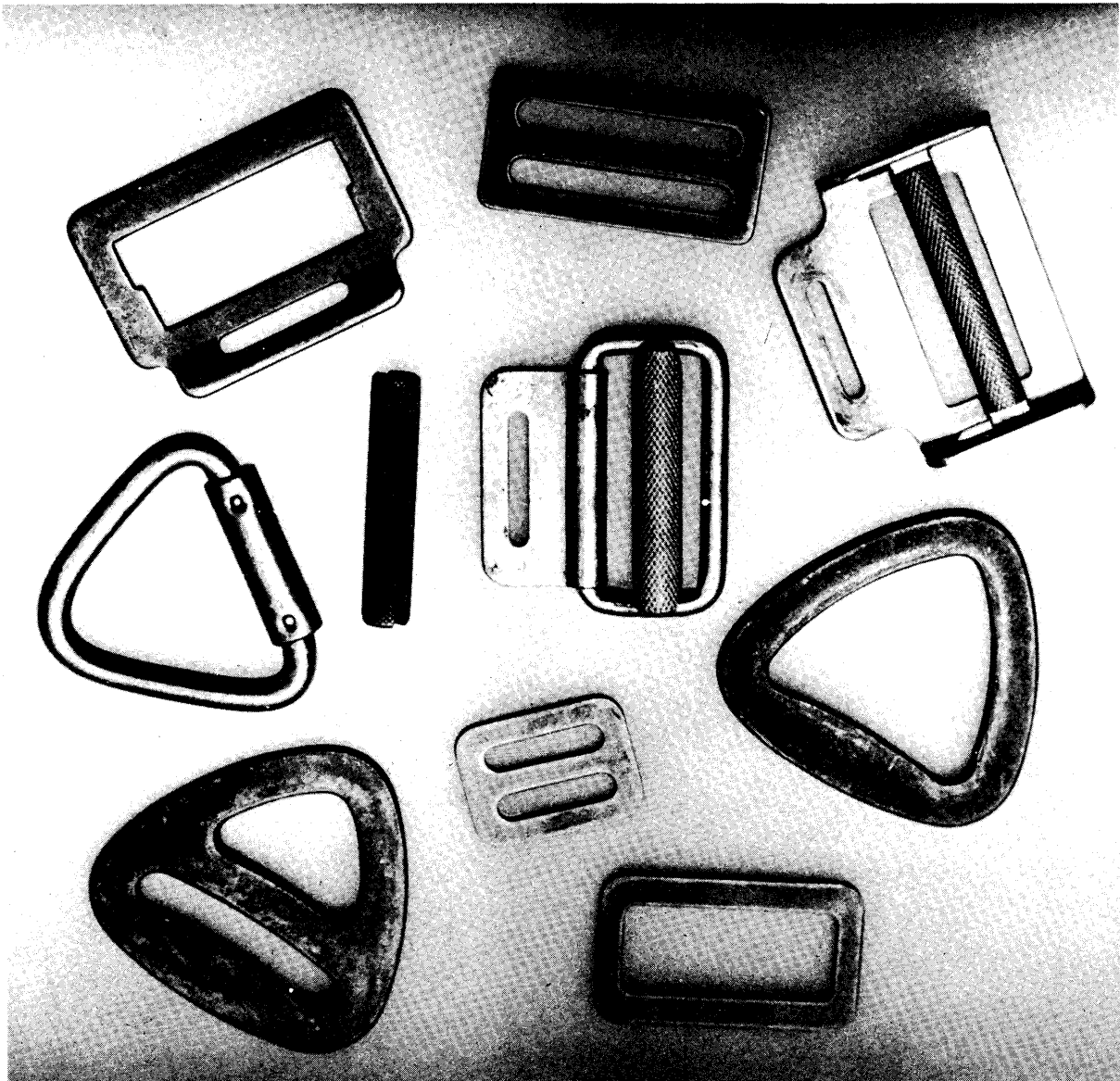
# INDUSTRIAL FITTINGS

This is a complete range of industrial and safety fittings and has been developed in response to our industrial customers' requirements. The fittings carry the accepted Clog standard of finish and manufacture.

Destruction tests, proof loading and certification can be supplied. The breaking strain of components is dependent on the application. The components listed below are fittings already manufactured by Clog but we are always happy to

quote for alternative materials. Clog offer a design service and will advise customers on the application of various fittings.

All the manufacturing processes are carried out entirely in our works including forging, heat treatment and plating. Steel components are normally plated to BS 1706 ZN3 but other thicknesses can be supplied on request. Anodising is to BS 1615-1972 grade A10.



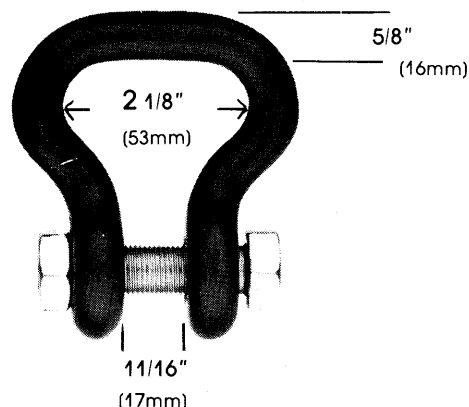


**W.J. KEATING LIMITED**

## CARGO RESTRAINT DEVICES

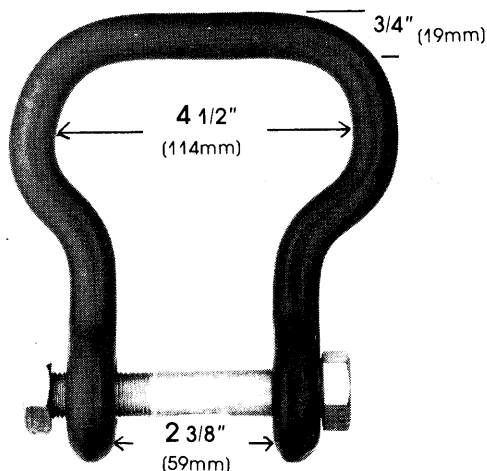
**Part No. MS 70087-1**

Clevis, Suspension, Air Delivery, Type I  
Drop Forged Alloy Steel  
Proof-load 20,000 lbs.  
Weight (approx.) 1 lb. 5 oz.  
Phosphate Finish



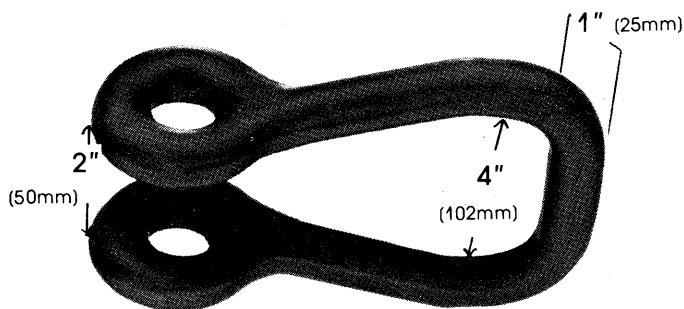
**Part No. MS 70087-2**

Replaces Part No. 51 B 6245  
Clevis, Suspension Cargo, Aerial Delivery  
Drop Forged Alloy Steel  
Proof-load 20,000 lbs.  
Weight (approx.) 4 lbs. 5 oz.  
Phosphate Finish



**Part No. MS 70087-3**

Clevis, Suspension, Air Delivery, Type I  
Drop Forged Alloy Steel  
Proof-load 40,000 lbs.  
Weight (approx.) 7 lbs. 8 oz.  
Phosphate Finish



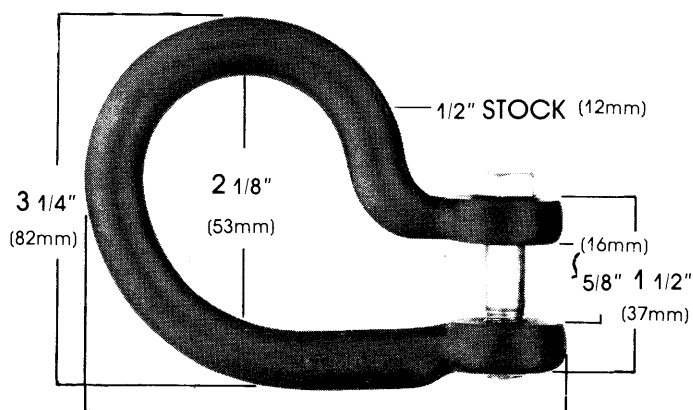
**Proof Load Definition:** That load the part must hold without permanent deformation.



## CARGO RESTRAINT DEVICES

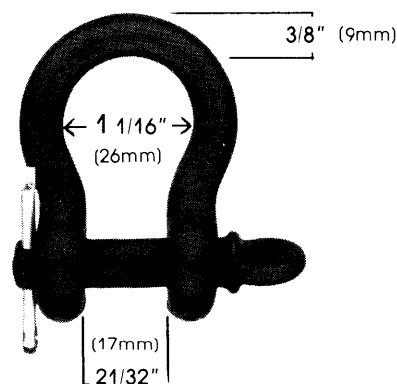
### Part No. MS 70085-1

Clevis, Tie-down, Air Delivery, Type II  
Drop Forged Alloy Steel  
Proof-load: 7,000 lbs.  
Weight (approx.) 1 lb. 14 oz.  
Phosphate Finish



### Part No. MS 70086-1

Previous Part No. 51 B 6719  
Clevis, Riser, Air Delivery, Type III  
Drop Forged Carbon Steel  
Proof-load 2,000 lbs.  
Weight (approx.) 5.2 oz.  
Phosphate Finish



**Proof Load Definition:** That load the part must hold without permanent deformation.



# W.J. KEATING LIMITED

## V-RINGS • D-RINGS • O-RINGS

### Part No. MS 70115

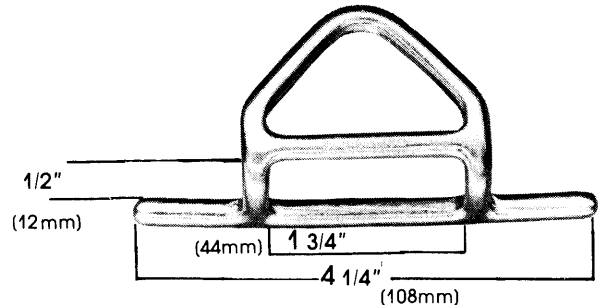
Replaces Part No. 60 B 6039

Ring - "V", Parachute Extraction Bag, Aerial Delivery

Drop Forged Carbon Steel

Weight (approx.) 3 oz.

Cadmium Plated



### Part No. MS 70123

Replaces Part No. 44 A 9361

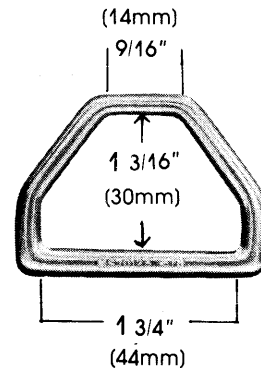
Ring, Parachute Harness, Accessory Attaching

Drop Forged Steel

Proof-load 500 lbs.

Weight (approx.) 1.5 oz.

Cadmium Plated



### Part No. MS 22020-1

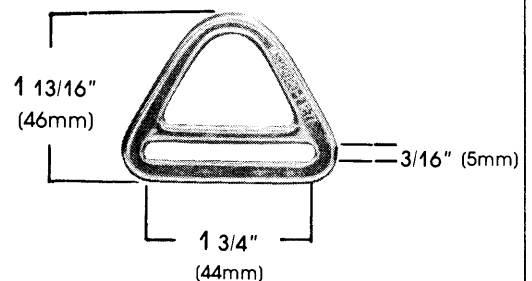
Link, Parachute Harness Triangle

Drop Forged Alloy Steel

Proof-load 2,500 lbs.

Weight (approx.) 1.5 oz.

Cadmium Plated



### Part No. MS 22045

Replaces Part No. AN 6563

Ring - "V", Parachute Harness

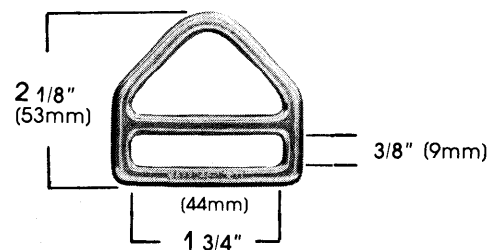
Drop Forged Alloy Steel

Proof-load 2,500 lbs.

Weight (approx.) 2 oz.

-1 Cadmium Plated

-2 Phosphate Finish



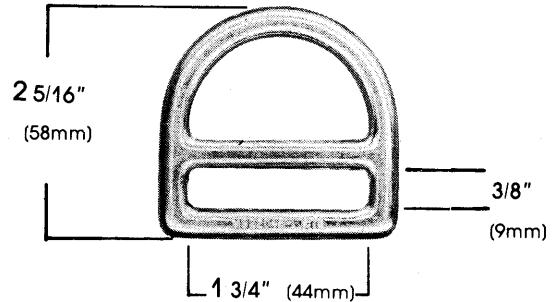
**Proof Load Definition:** That load the part must hold without permanent deformation.



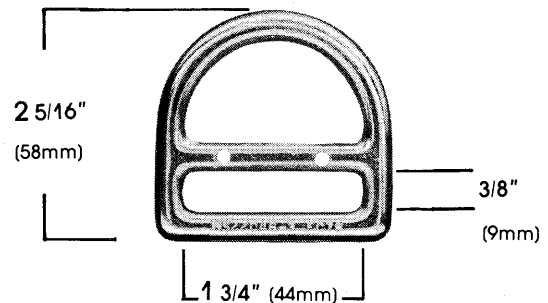
**W.J. KEATING LIMITED**

## V-RINGS • D-RINGS • O-RINGS

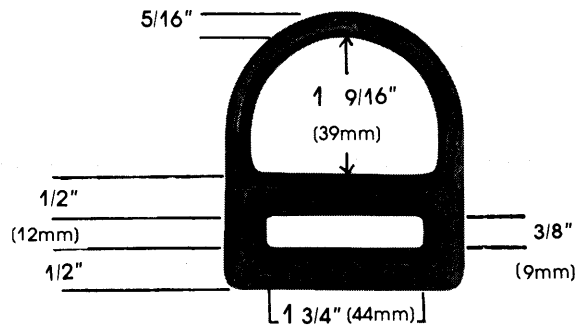
Part No. MS 22046-1, -2  
Ring - "D", Parachute Harness  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Weight (approx.) 3.5 oz.  
-1 Cadmium Plated  
-2 Phosphate Finish



Part No. MS 22046-3, -4  
Ring - "D", Parachute Harness  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Weight (approx.) 3.5 oz.  
-3 Cadmium Plated  
-4 Phosphate Finish  
Note: -3 and -4 same dimensions as -1 and -2 except  
2 holes 9/64" diameter drilled on center bar 1" apart.



Part No. MS 22046-7, -8 Part No. 1080  
Ring - "D", Cargo Restraint  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Weight (approx.) 8 oz.  
-7 Cadmium Plated  
-8 Phosphate Finish



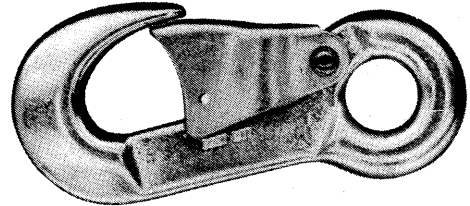
**Proof Load Definition:** That load the part must hold without permanent deformation.



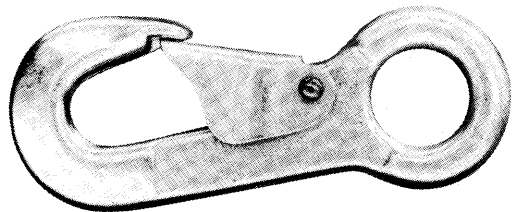
## SNAPS • HOOKS

**Part No. 3027 (Military P/N 11-1-598)**

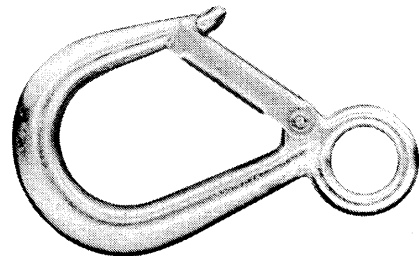
Rope Snap, with Safety Guard  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside Diameter of Eye: 5/8" (16 mm)  
Overall Length: 4"  
Maximum Throat Opening 1/2" (12 mm)  
Weight (approx.) 5.4 oz.  
Cadmium Plated

**Part No. 3028**

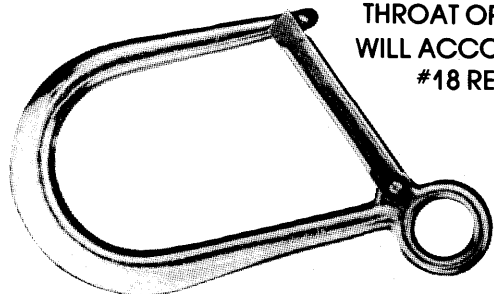
Rope Snap  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside Diameter of Eye: 1 1/16" (27 mm)  
Overall Length: 5 3/8"  
Maximum Throat Opening: 5/8" (15 mm)  
Weight (approx.) 9.3 oz.  
Cadmium Plated

**Part No. 3029**

Rope Snap, Ladder Hook  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside Diameter of Eye: 1" (25 mm)  
Overall Length 6"  
Maximum Throat Opening: 1 1/4" (31 mm)  
Weight (approx.) 14 oz.  
Cadmium Plated

**Part No. 3030**

Snap, Construction Workers Restraining  
Drop Forged Alloy Steel  
Proof-load 4,000 lbs.  
Inside Diameter of Eye: 1" (25 mm)  
Overall Length: 8 1/2"  
Maximum Throat Opening 2 1/4" (57 mm)  
Weight (approx.) 30 oz.  
Chromate Finish Standard



THROAT OPENING  
WILL ACCOMODATE  
#18 REBAR

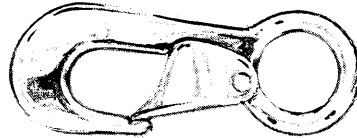
**Proof Load Definition:** That load the part must hold without permanent deformation.



## SNAPS • HOOKS

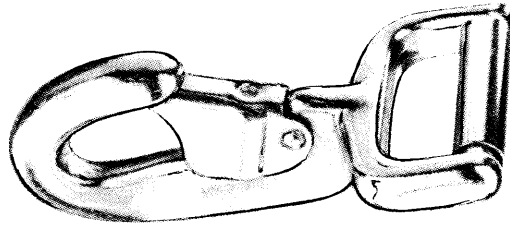
### Part No. 3034

Rope Snap  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside diameter of Eye: 1 1/16" (27mm)  
Throat Opening (with guard): 5/8" (15mm)  
Weight (approx.) 8 oz.  
Cadmium or Chromate Finish



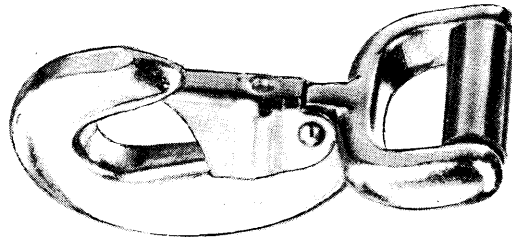
### Part No. 3040

Snap Hook, Lineman Pole Strap  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Strap Bar: 1 3/4" (44 mm) or 2" (50 mm) Specify  
Overall Length: 5"  
Maximum Throat Opening: 5/8"  
Weight (approx.) 10.3 oz.  
Cadmium Plated



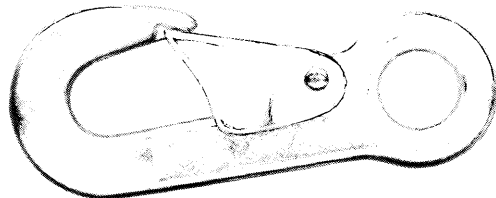
### Part No. 3045

Snap, Heavy Duty  
Drop Forged Alloy Steel  
Proof-load 10,000 lbs.  
Strap Bar: 1 3/4" (44 mm)  
Throat Opening: 5/8" (15 mm)  
Length: 5"  
Weight (approx.) 1 lb.  
Chromate Finish Standard



### Part No. 3047

Rope Snap  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside Diameter of Eye: 3/4" (19 mm)  
Overall Length: 5"  
Throat Opening 5/8" (15 mm)  
Weight (approx.) 8 oz.  
Cadmium Plated or Chromate Finish



**Proof Load Definition:** That load the part must hold without permanent deformation.

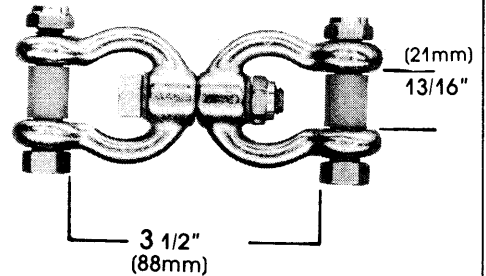




## SNAPS • HOOKS

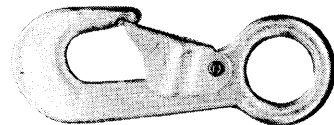
### Part No. 5020

Swivel Assembly  
Drop Forged Steel  
Nylon Bearings  
Proof-load 6,000 lbs.  
May be used with any snap with 9/16" (14 mm) or larger eye.  
Distance between bearing surfaces 3 1/2" (88 mm)  
Weight (approx.) 14 oz.  
Chromate Finish Standard



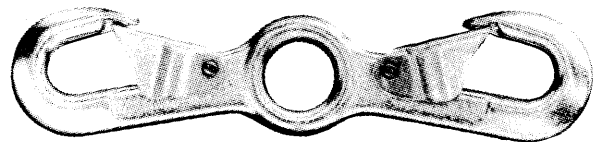
### Part No. 3031

Rope Snap  
Drop Forged Alloy Steel  
Proof-load 5,000 lbs.  
Inside Diameter of Eye: 1 1/16" (27 mm)  
Overall Length: 5"  
Throat Opening (with Guard): 5/8" (15 mm)  
Weight (approx.) 8 oz.  
Cadmium or Chromate Finish



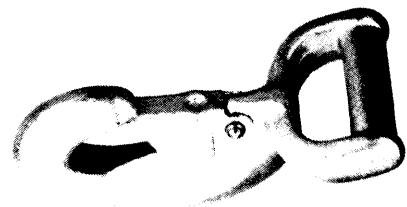
### Part No. 3032

Snap, Separator  
Drop Forged Alloy Steel  
Proof-load 4,000 lbs.  
Inside Diameter of Eye: 1 1/32" (26 mm)  
Overall Length: 8 7/8"  
Maximum Throat Opening: 5/8" (15 mm)  
Weight (approx.) 16 oz.  
Cadmium or Chromate Finish



### Part No. 3048

Hook, with 1 3/4" (44 mm) Strap Bar  
Drop Forged Alloy Steel  
Proof-load 20,000 lbs.  
Total Length: 5 7/16"  
Throat Opening: 5/8" (15 mm)  
Weight (approx.) 1 1/2 lbs.  
Chromate Finish Standard



**Proof Load Definition:** That load the part must hold without permanent deformation.



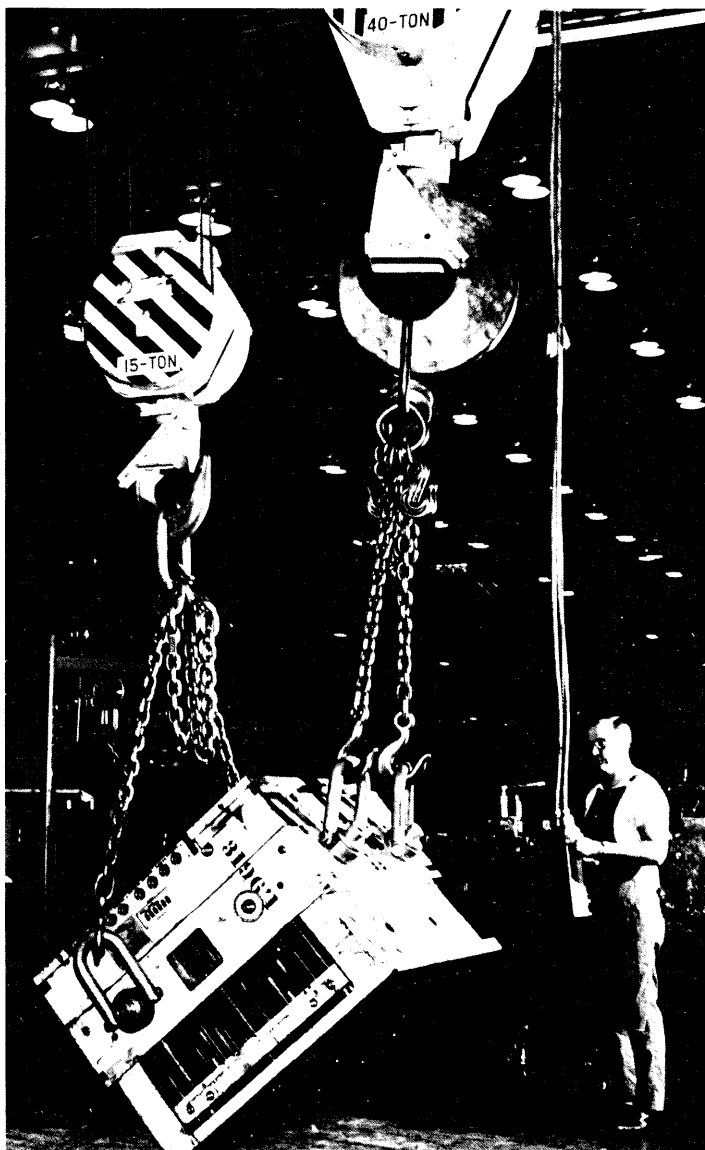
## SAFETY ENGINEERED HOIST RINGS

### INSTALLATION DATA

Tap workpiece for Hoist Ring screw with axis perpendicular to mounting surface. The threaded area should be clean, free of oil, grease and metal chips. The mounting surface must be flat and smooth to provide full 360° flush seating for the bushing flange. For installation in ferrous mating material with minimum tensile strength of 180,000 psi, the screw should be tightened to the full recommended torque (+0, - 20%) and for weaker material see safety note 4. After installation, inspect Hoist Ring to be sure that it pivots and swivels freely in all directions.

### SAFETY NOTES

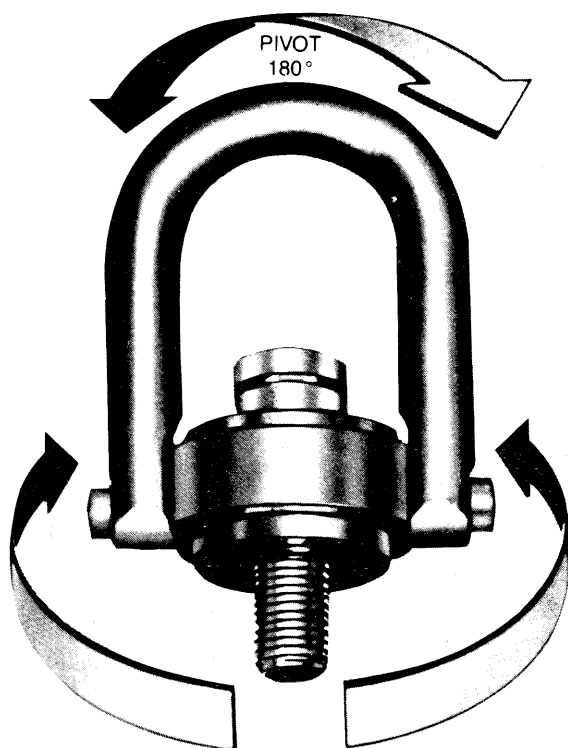
1. Apply lifting force gradually, "Avoid Shock Loads." DO NOT load more than the rated capacity.
2. Some loosening may be developed after prolonged service in permanent installation. It is advisable to inspect periodically and retighten the mounting screw. If it is necessary to maintain the specific torque, medium strength loctite may be used to prevent loosening.
3. In heavy usage applications, periodic proof loading to rated load is desirable. (If shock load or accidental overloading occurs, it is recommended that Hoist Rings be replaced).
4. For maximum safety, the tensile strength of the workpiece must be above 80,000 psi. The use of extra length screw is required, if weaker mating material must be used, use a nut on the open end where possible. Inspect and retighten the screw frequently. Regarding the required strength of the mating material, screw length and torque, consult manufacturer when in doubt.
5. The use of free fit spacers between the bushing flange and the mounting surface is not recommended as this will reduce the safety load rating on angularly applied loads.





**W.J. KEATING LIMITED**

## **SAFETY HOIST RINGS**

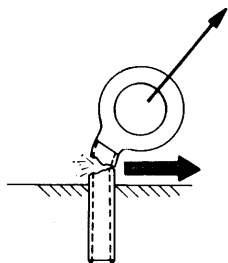


**MEETS OR EXCEEDS  
MIL-STD-1365 (OR-11) & MIL-STD-209C**

*MATERIAL: 4140 Aircraft Quality High Strength Alloy Steel With Minimum Tensile Strength of 180,000 psi. Certified Heat Treatment with 100% Magnaflux inspection. Corrosion Resistant Plating. Maximum Operating Temperature: 400° F. All Hoist Rings Designed at 5:1 Factor of Safety.*

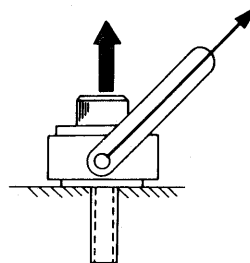
SWIVEL 360°  
U.S. PATENT NO. 3,297,293

See what happens when heavy side loads are applied to a conventional eyebolt.



EXCESSIVE SIDE LOADS CAN CAUSE BOLT FAILURE.

The same load applied to an American Safety Engineered Hoist Ring is translated into a primary tension load at the screw and normal to the screw axis.

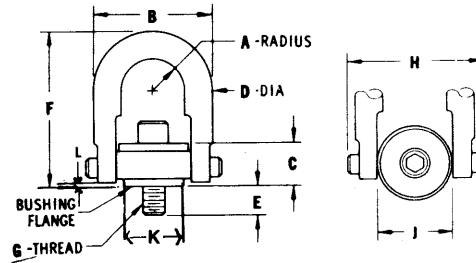


HIGH TENSION LOADS ARE WELL WITHIN THE DESIGNED SAFETY LIMITS OF THE STRESSED HOIST RING

**INSTALLATION DATA** Tap workpiece for hoist ring scrow with axis vertical to mounting surface. Work surface should be flat and smooth to provide full 360° flush seating for the bushing flange. (SAFETY NOTE: Some loosening may develop after prolonged service in a permanent installation. It is advisable to periodically re-tighten the mounting screw to maintain the specified torque value.) The use of free fit spacers between the bushing flange and mounting surface is not recommended as this will reduce the safe load rating on angularly applied loads. Hoist Ring must be free to swivel 360° and pivot 180° at all times.



## HOIST RING DIMENSIONS



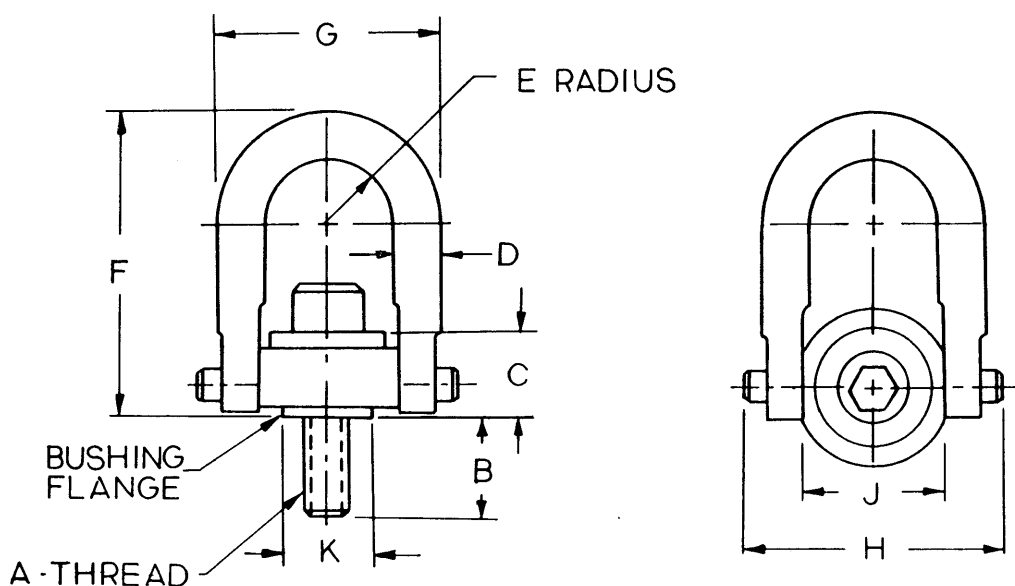
Part No.	Rated Load	A	B	C	D Dia.	Thread Proj.	F	H	G	J	K	L
066-0403	800	7/16	1-5/8	41/64	3/8	5/16	2-5/8	5/16-18	2	1	3/4	3/32
066-0412	800	7/16	1-5/8	41/64	3/8	9/16	2-5/8	5/16-18	2	1	3/4	3/32
066-0421	1,000	7/16	1-5/8	41-64	3/8	9/16	2-5/8	3/8-16	2	1	3/4	3/32
066-0430	2,500	11/16	2-7/16	7/8	1/2	1-1/16	3-3/4	1/2-13	2-9/16	1-1/2	1-3/8	9/64
066-0449	2,500	7/8	3-1/4	1-5/32	3/4	3/4	4-3/4	1/2-13	3-5/8	2	1-1/2	3/32
066-0458	2,500	7/8	3-1/4	1-5/32	3/4	3/4	6-7/8	1/2-13	3-5/8	2	1-1/2	3/32
066-0467	2,500	7/8	3-1/4	1-5/32	3/4	1	4-3/4	1/2-13	3-5/8	2	1-1/2	3/32
066-0476	2,500	7/8	3-1/4	1-5/32	3/4	1	6-7/8	1/2-13	3-5/8	2	1-1/2	3/32
066-0500	2,500	7/8	3-1/4	1-5/32	3/4	1-1/4	4-3/4	1/2-13	3-5/8	2	1-1/2	3/32
066-0519	2,500	7/8	3-1/4	1-5/32	3/4	1-1/4	6-7/8	1/2-13	3-5/8	2	1-1/2	3/32
066-0528	4,000	7/8	3-1/4	1-5/32	3/4	3/4	4-3/4	5/8-11	3-5/8	2	1-1/2	3/32
066-0537	4,000	7/8	3-1/4	1-5/32	3/4	3/4	6-7/8	5/8-11	3-5/8	2	1-1/2	3/32
066-0546	4,000	7/8	3-1/4	1-5/32	3/4	1	4-3/4	5/8-11	3-5/8	2	1-1/2	3/32
066-0555	4,000	7/8	3-1/4	1-5/32	3/4	1	6-7/8	5/8-11	3-5/8	2	1-1/2	3/32
066-1000	4,000	7/8	3-1/4	1-5/32	3/4	1-1/4	4-3/4	5/8-11	3-5/8	2	1-1/2	3/32
066-1019	4,000	7/8	3-1/4	1-5/32	3/4	1-1/4	6-7/8	5/8-11	3-5/8	2	1-1/2	3/32
066-1028	5,000	7/8	3-1/4	1-5/32	3/4	1	4-3/4	3/4-10	3-5/8	2	1-1/2	3/32
066-1037	5,000	7/8	3-1/4	1-5/32	3/4	1	6-7/8	3/4-10	3-5/8	2	1-1/2	3/32
066-1046	5,000	7/8	3-1/4	1-5/32	3/4	1-1/4	4-3/4	3/4-10	3-5/8	2	1-1/2	3/32
066-1055	5,000	7/8	3-1/4	1-5/32	3/4	1-1/4	6-7/8	3/4-10	3-5/8	2	1-1/2	3/32
066-1064	5,000	7/8	3-1/4	1-5/32	3/4	1-1/2	4-3/4	3/4-10	3-5/8	2	1-1/2	3/32
066-1073	5,000	7/8	3-1/4	1-5/32	3/4	1-1/2	6-7/8	3/4-10	3-5/8	2	1-1/2	3/32
066-1108	7,000	1-13/32	4-13/16	1-11/16	1	1	6-1/2	3/4-10	5-1/8	3	2-5/16	17/64
066-1117	7,000	1-13/32	4-13/16	1-11/16	1	1	7-15/16	3/4-10	5-1/8	3	2-5/16	17/64
066-1126	7,000	1-13/32	4-13/16	1-11/16	1	1-1/2	6-1/2	3/4-10	5-1/8	3	2-5/16	17/64
066-1135	7,000	1-13/32	4-13/16	1-11/16	1	1-1/2	7-15/16	3/4-10	5-1/8	3	2-5/16	17/64
066-1144	8,000	1-13/32	4-13/16	1-11/16	1	1	6-1/2	7/8-9	5-1/8	3	2-5/16	17/64
066-1153	8,000	1-13/32	4-13/16	1-11/16	1	1	7-15/16	7/8-9	5-1/8	3	2-5/16	17/64
066-1402	10,000	1-13/32	4-13/16	1-11/16	1	1-1/4	6-1/2	7/8-9	5-1/8	3	2-5/16	17/64
066-1411	10,000	1-13/32	4-13/16	1-11/16	1	1-1/4	7-15/16	7/8-9	5-1/8	3	2-5/16	17/64
066-1420	10,000	1-13/32	4-13/16	1-11/16	1	1-1/2	6-1/2	7/8-9	5-1/8	3	2-5/16	17/64
066-1439	10,000	1-13/32	4-13/16	1-11/16	1	1-1/2	7-15/16	7/8-9	5-1/8	3	2-5/16	17/64
066-1448	10,000	1-13/32	4-13/16	1-11/16	1	2	6-1/2	7/8-9	5-1/8	3	2-5/16	17/64
066-1457	10,000	1-13/32	4-13/16	1-11/16	1	2	7-15/16	7/8-9	5-1/8	3	2-5/16	17/64
066-1466	15,000	1-3/4	6	2-1/8	1-1/4	1-7/8	8-3/4	1-1/4-7	6-1/2	3-3/4	3-1/4	11/32
066-1475	24,000	2-1/4	8	2-3/4	1-3/4	2-3/4	12-3/8	1-1/2-6	8-7/8	4-7/8	4-3/16	3/8
066-1509	30,000	2-1/4	8	2-3/4	1-3/4	3-1/8	12-3/8	2-4-1/2	8-7/8	4-7/8	4-3/16	3/8
066-1518	50,000	3	10-1/2	4-1/16	2-1/4	4-1/8	16-1/2	2-1/2-8	11-5/8	6-1/2	5-3/4	5/8
066-1527	50,000	3	10-1/2	4-1/16	2-1/4	4-1/8	16-1/2	2-1/2-4	11-5/8	6-1/2	5-3/4	5/8
066-1536	75,000	3-3/4	5-1/4	13	2-3/4	5-3/8	19-1/2	3-4	14-1/4	8	7-1/4	1



**W.J. KEATING LIMITED**

# METRIC

## Safety Hoist Rings



PART NO.	RATED LOAD (kg)	THD. DIA. (MM) A	ACTUAL THD. PROJ. B	C	D	E	F	RA-DIUS G	H	J	K
066-7601	360	8	17	18.0	9.5	40.9	67.8	10.9	46.7	25.4	19.1
066-7610	450	10	17	18.0	9.5	40.9	67.8	10.9	46.7	25.4	19.1
066-7629	1000	12	19	31.0	19.1	82.5	121.4	22.4	89.4	50.5	38.0
066-7638	1750	16	24	31.0	19.1	82.5	121.4	22.4	89.4	50.5	38.0
066-7647	2200	20	30	31.0	19.1	82.5	121.4	22.4	89.4	50.5	38.0
066-7656	2700	20	29	43.4	25.4	121.2	165.6	35.6	130.5	76.2	58.7
066-7665	3500	24	34	43.4	25.4	121.2	165.6	35.6	130.5	76.2	58.7
066-7674	4200	30	54	43.4	25.4	121.2	165.6	35.6	130.5	76.2	58.7

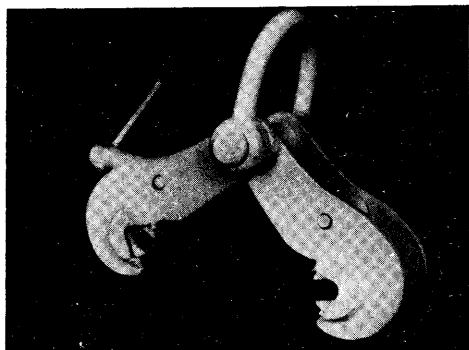


# W.J. KEATING LIMITED

735 AVOCA AVENUE, DORVAL, QUE., CANADA, H9P 1G4 TEL. 514-631-9815 TELEX 05-822633



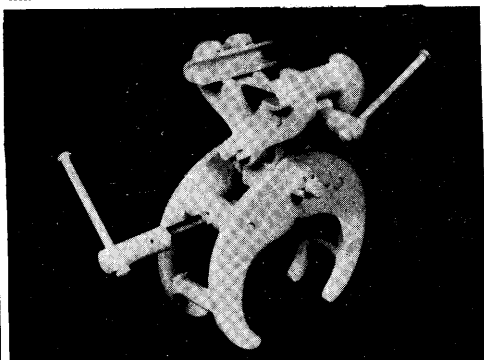
**5 TO 1 SAFETY FACTOR**



**2 MODELS**  
1½ TO 5 TONS  
3" TO 12" CAP.

## SWIVEL JAW GIRDER CLAMP

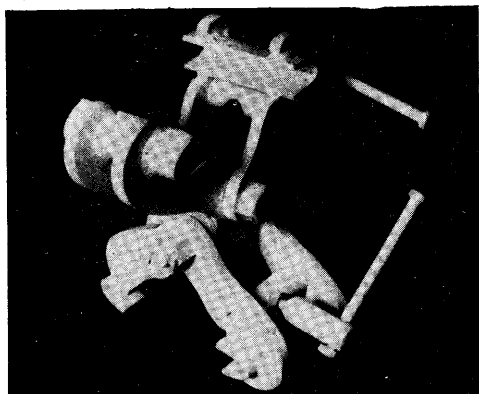
Developed and patented by Riley's Engineers, the swivel jaw action enables this clamp to deal with any size of universal beam, or rolled steel joist, whilst maintaining maximum hold.



**1½ TONS**  
3" TO 6" CAP.

## PIPE SUSPENSION CLAMP

Fit in seconds this double action clamp is attached to existing columns or overhead structures where pipe lines are required supplying a positive hold to the pipe line assembly.

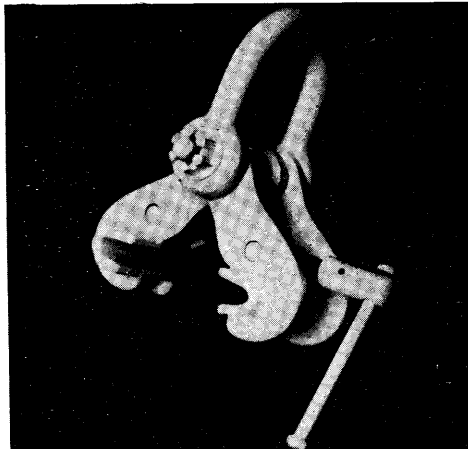


**3 TON CAP.**  
3" TO 6" CAP.

## MONORAIL CLAMP

Offering a quick and safe method of suspending monorail section, this clamp is being extensively used in areas of industry where overhead traverse rails are in operation, and is easily transferable to other sites.

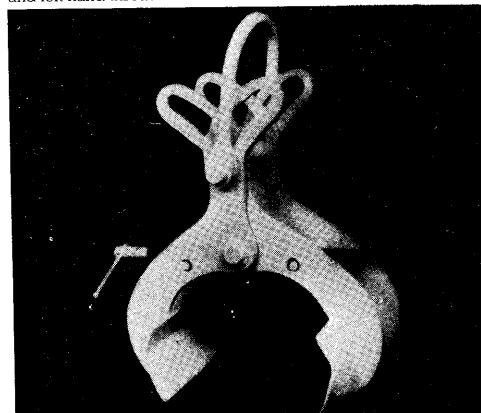
Used in mining, construction, engineering, chemical/oil industries and general maintenance



**3 MODELS**  
1½ - 5 TONS  
3" TO 12" CAP.

## FIXED JAW GIRDER CLAMP

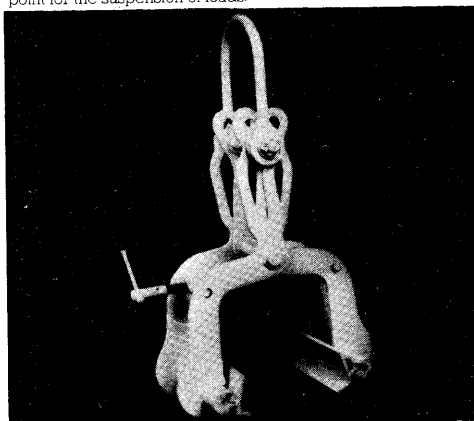
Where loads are to be suspended, the fixed jaw clamp provides an effective anchor point when attached to an arched beam or an overhead girder. Equally the clamp gives a positive hold when lifting individual beams, or fabricated beam sections. The right and left hand threaded tension bar ensures maximum speed in its application.



**4 TON CAP.**  
6" TO 12" CAP.

## PIPE CLAMP

A recent addition to our Superclamp Range. The unique design and efficiency of the Pipe Clamp out-dates present methods of circular section handling. When applied to overhead circular structures the clamp can be used as an anchor point for the suspension of loads.



**4 TONS**  
4" - 10" CAP.

## SQUARE SECTION CLAMP

Designed initially for a customer involved in the lifting of square and rectangular sections, this clamp is now a standard model in our range.

Where loads are to be suspended the clamp provides an anchor point when applied to overhead square and rectangular structures.