



# Anchor Catalogue

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Prices Effective  
1<sup>st</sup> January , 2012

Industrial Engineers & Spring Makers

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Phone: (08) 8346 2276

Fax: (08) 8340 1721

Email: [sales@industrialsprings.com.au](mailto:sales@industrialsprings.com.au)



## We can provide the following products & services~

- Anchors  
(Grapnel, Stockless & Admiralty)
- Anti-roll bars
- Aurora Springs  
(Automotive springs)
- Belleville Disc Springs
- Coil Springs  
(Agricultural, Automotive, Industrial, Mining & Railway)
- Chisels, Crowbars
- Laminated Springs  
(4WD, Trailer, Truck, Repair & Reset)
- Shot Peening
- Slasher Blades
- Spring Washers
- Tailgate Door Springs
- Torsion Bars
- Towing Stabiliser Kits
- Trailer Axle Assemblies / Fittings
- Tynes
- Tyre Levers
- U-Bolts
- Volute Springs
- Wire Springs  
(Clips, Compression, Tension & Torsion)

### WARRANTY

#### 1. COVERAGE

Industrial Engineers and Spring Makers (Sales) Pty Ltd warrants that all materials, components and services supplied shall be free from defects in materials and workmanship under normal use and service.

This warranty applies to the product only and does not cover damage caused by incorrect installation, misuse, lack of maintenance or costs incurred in removing or replacing goods or any losses as a result of product failure.

Freight costs incurred from returning goods are not covered unless prior agreement has been made.

#### 2. COIL SPRINGS

Coil Springs are covered against sagging by more than 8mm or 2% of the specified free length, whichever is greater (excluding products used for racing and competition purposes).

The warranty is limited for a period of twelve (12) months / 20,000 Kms after the date of purchase by the customer for automotive coil springs and six (6) months / 20,000 Kms for all other items.

#### 3. EXTENDED WARRANTY (Automotive coil springs only)

Warranty Terms may be extended to a period of twenty four (24) months / 40,000 Kms after the date of purchase by the customer, by completing and returning the Extended Warranty Information form supplied with coil spring purchase. Extended warranty option only applies to automotive coil springs.

#### 4. LEAF SPRINGS

Leaf Springs are covered against sagging by more than 8mm or 4% of the specified free camber, whichever is greater (excluding products used for racing and competition purposes).

The warranty is limited for a period of six (6) months / 25,000 Kms after the date of purchase by the customer.

#### 5. RETURNS

Where agreed that freight costs will be charged to the receiver, goods shall be returned on a transport company nominated by Industrial Engineers and Spring Makers (Sales) Pty Ltd.

Goods must be returned to Industrial Engineers and Spring Makers (Sales) Pty Ltd Quality Assurance department for analysis prior to any claim being accepted.

Goods shall be returned with proof of purchase or a cartnote/invoice number and information on the reason for return.

#### 6. ACCEPTANCE OF CLAIM

Where a warranty claim has been accepted, Industrial Engineers and Spring Makers (Sales) Pty Ltd will be limited to reimburse the original purchase price, repair or replace the goods or service at the original point of delivery.

#### 7. NOT COVERED

Repaired or reset leaf springs. Reset coil springs. Any product galvanised or subjected to an electroplating process after delivery to the customer.



## **Introduction**

Industrial Engineers & Spring Makers was founded in 1935 and has been operating at its current site for over 60 years.

Industrial Engineers & Spring Makers (I.E.S.) is a family owned and operated company providing springs and light engineering services to Australia, New Zealand and an expanding Asian market.

I.E.S. has obtained a reputation for providing a sound, reliable, high quality product at competitive prices.

A policy of having a number of small flexible manufacturing units within the plant means that we can offer shorter lead times on small production quantities with low tooling costs.

Please find our latest Anchor Catalogue / price list. This price list supersedes all previous lists.

Our experienced sales staff will be more than willing to advise you on all aspects of our anchors and any other queries regarding our entire range of products.

## **Material Specification**

Material specifications on all products are chosen to ensure the quality of the product over its entire life cycle. All our anchors are manufactured from high quality hot forged mild steel providing good strength and reduced chance of breakage.

## **Surface Coatings**

Hot dip galvanised to AS1650-1989 by a quality endorsed company to specifications that will ensure a long, failure free service life of the anchor.

## **Quality Assurance**

Quality Assurance at I.E.S. is a team effort. All employees are responsible for ensuring the quality of the finished product. Our quality system is based on AS/NZS ISO 9002:1994 and meets all requirements from initial inquiry through to after sales service.

The Total Quality Management approach ensures that our goods and services are of an acceptable sound quality.

The design of our anchors is based on AS 2198-1983 with additional design enhancements as a result of extensive in-field testing.



## Ordering & Trading Terms

Following is general information that may be helpful when ordering any of our products.

Orders are to be confirmed by mail or fax before any production will commence.

All prices in this catalogue are subject to GST.

When ordering an anchor quote the weight and the type of anchor (Grapnel, Patent stockless type or Admiralty). If unsure of the required weight of the anchor please supply the size, type (sail or power) and approximate weight of the boat.

Industrial Engineers & Spring Makers provides a general transport service free into store or free on board to the following cities on orders of \$ 400.00 or more.

Brisbane, Melbourne, Perth & Sydney

Customers outside of the metro area must nominate their preferred carrier and meet that cost.

All Adelaide orders will be made available ex works. We can provide delivery in the Adelaide Metro. area. This will be subject to a freight charge.

Trading terms are strictly 30 days from end of month in which goods or services purchased. Failure to maintain these terms will result in despatching delays or a review of your trading terms.

Goods purchased on account are to approved account customers, otherwise it is strictly cash sales.

Any queries please do not hesitate to contact our sales staff.

If you would like further copies of this catalogue posted or emailed please contact our Administration Manager Sylvia Nissirios.

Email: [sylvia@industrialsprings.com.au](mailto:sylvia@industrialsprings.com.au)

Phone: (08) 8346 2276

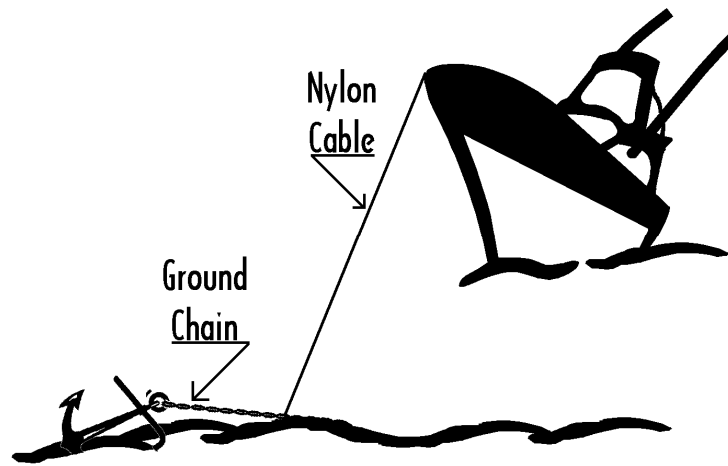
Fax: (08) 8340 1721

## Information

### Ground chain lengths

Anchor Size (Kg's)	Ground Chain		Nylon Cable	
	Size (mm)	Length (m)	Diameter (mm)	Length
3	6	2*	6	Min.
5	6	3*	8	of
7	6	4*	10	four
9	8	5*	10	times
11	8	6*	12	the
13	10	7*	12	water
15	12	8*	14	depth

\* Minimum length, longer the better.



### Required anchor size

Length of boat (m)	Mass (Kg's)		
	Admiralty Type	Stockless Type	Grapnel
3	3	4	3
5	5	8	5
7	8	14	8
9	12	18	12
11	16	22	16
13	22	30	22
15	28	40	28

Conditions where a boat is subjected to windage will require that a larger anchor be used.

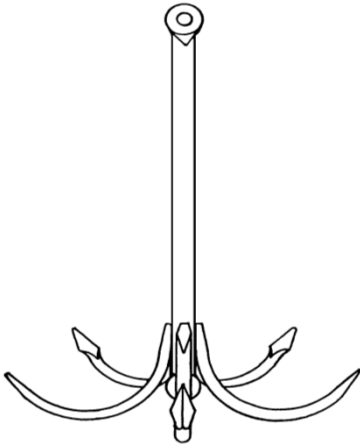
All information from Australian Standard AS 2198-1983

# Anchor Catalogue

## Prices Effective 1st January 2012

Type	Part Number	Weight (Kg's)	Retail Inc GST
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### GRAPNEL TYPE 5 PRONG



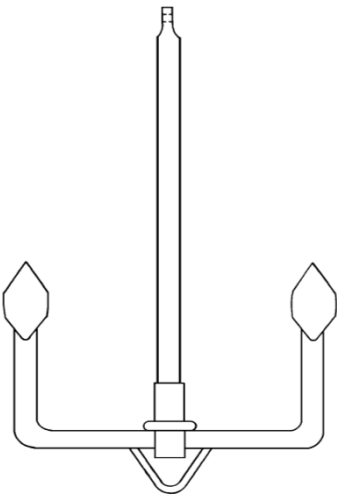
GRAP01	1.0		27.80
GRAP02	2.0		43.30
GRAP03	3.0		53.30
GRAP04	4.0		82.60
GRAP05	5.0		94.80
GRAP06	6.0		114.60
GRAP08	8.0		158.00
GRAP10	10.0		197.40
GRAP13	13.0		257.00

**GRAPNEL ANCHORS NOT LISTED ABOVE (SPECIALS) CAN BE SUPPLIED**

**TYPICAL 15, 18, 20, 24, 26, 40**

**Over 14 Per Kg 17.80**

### MARSH PATENT STOCKLESS TYPE



PATE04	4.0		81.00
PATE06	6.0		118.50
PATE08	8.0		158.00
PATE10	10.0		197.10
PATE13	13.0		256.90
PATE17	17.0		334.70
PATE21	21.0		434.50
PATE24	24.0		474.90
PATE28	28.0		553.90
PATE35	35.0		693.50
PATE42	42.0		829.40
PATE52	52.0		1026.40
PATE54	54.0		1066.00

## RE-WORK TO CUSTOMER'S ANCHOR

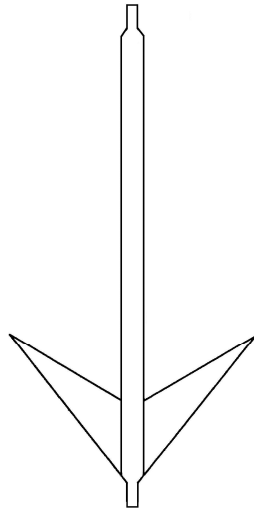
		<b>Price Ex GST</b>
<b>STRAIGHTEN</b> (Labour, may need re-galvanising - customer to pay)		\$80.00 - 160.00
<b>CLEAN</b> (to OHS Regulations) & Re-galvanise	Per Kg	
		\$8.10

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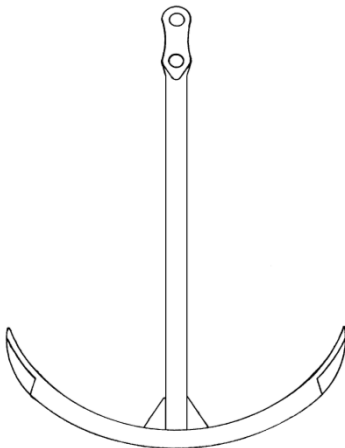
### SPEAR ANCHOR



SPR09	9.0	[REDACTED]	169.10
SPRT13	13.0	[REDACTED]	257.00
SPR32	32.0	[REDACTED]	541.20

\* Part number SPRT13 is the trip type

### ADMIRALTY TYPE



ADMIRALTY / SPECIAL ANCHORS MANUFACTURED ON REQUEST CAN BE SUPPLIED

All Weights	Per Kg	[REDACTED]	21.80
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## RE-WORK TO CUSTOMER'S ANCHOR

	Price Ex GST	Price Ex GST
<b>STRAIGHTEN</b> (Labour, may need re-galvanising - customer to pay)	[REDACTED]	\$80.00 - 160.00
<b>CLEAN</b> (to OHS Regulations) & Re-galvanise	Per Kg	\$8.10



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