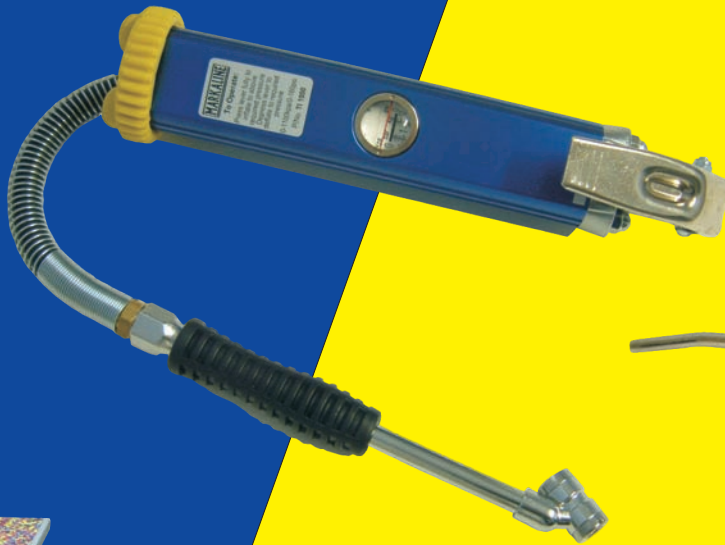
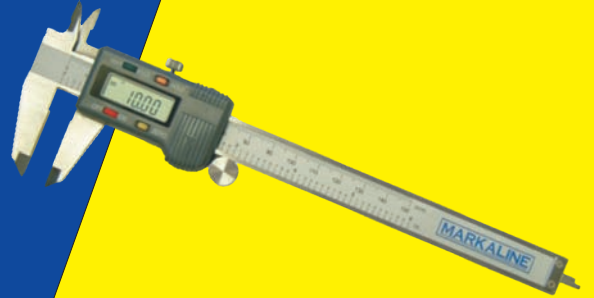


# MARKALINE

Professional Industrial Products





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## Guarantee/Warranty

MARKALINE products contained within and marketed by Active Industrial Agencies Pty Ltd are guaranteed against faulty workmanship and materials. Products are not guaranteed against misuse, abuse or normal wear and tear. These products are designed and manufactured for a specific purpose, and if used for purposes other than their intended use, will not be covered. Before returning items that may be deemed faulty please consider the normal wear and tear factor. Products that are considered faulty due to manufacturing defects of materials and that have been used within their intended limitations may be returned, freight pre-paid. Active Industrial Agencies Pty Ltd will, at their own discretion, repair or replace under warranty and return goods on pre-paid freight.

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Active Industrial Agencies Pty Ltd have taken every reasonable precaution to ensure the accuracy of the information contained in this catalogue, nevertheless Active Industrial Agencies Pty Ltd cannot hold themselves responsible for the consequence of incorrect or misrepresented information, or errors that may have inadvertently arisen during its preparation.

Note: The manufacturer reserves the right to alter without notice design, specifications, packaging etc.

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**Conversion Tables****PRESSURE**

PSI	KPA	BAR	MPA	KPA	PSI	BAR
1	6.90	0.07	0.01	1	0.145	0.01
2	13.79	0.14	0.01	10	1.45	0.1
3	20.69	0.21	0.02	100	14.5	1
4	27.58	0.28	0.03	500	72.5	5
5	34.48	0.34	0.03	1000	145	10
10	68.95	0.69	0.07	1100	159.5	11
15	103.43	1.03	0.10	1200	174	12
20	137.90	1.38	0.14	1300	188.5	13
30	206.85	2.07	0.21	1400	203	14
50	344.75	3.45	0.34	1500	217.5	15
60	413.70	4.13	0.41	1600	232	16
70	482.65	4.82	0.48	1700	246.5	17
80	551.60	5.51	0.55	1800	261	18
90	620.55	6.20	0.62	1900	275.5	19
100	689.50	6.89	0.69	2000	290	20
115	792.93	7.92	0.79	2500	362.5	25
125	861.88	8.61	0.86	2600	377	26
130	896.35	8.96	0.90	3000	435	30
145	999.78	9.99	1.00	3500	507.5	35
150	1034.25	10.34	1.03	4000	580	40
160	1103.20	11.02	1.10	4500	652.5	45
190	1310.05	13.09	1.31	5000	13.09	50
200	1379.00	13.78	1.38	10000	1450	100
210	1447.95	14.47	1.45	20000	2900	200
220	1516.90	15.16	1.52	50000	7250	500
230	1585.85	15.85	1.59	100000	14500	1000
250	1723.75	17.23	1.72	150000	21750	1500
500	3447.50	34.45	3.45	200000	29000	2000
1000	6895.00	68.90	6.90	250000	36250	2500
5000	34475.50	344.50	34.48	300000	43500	3000
10000	68950.00	689.00	68.95			

**VOLUME**

CONVERT FROM	CONVERT TO	MULTIPLY BY
CFM	L/MIN	28.32
L/MIN	CFM	0.0353
KW	HP	1.34

CFM	L/MIN
1	28.32
2.5	70.8
5	141.6
6	169.92
8	226.56
10	283.2
15	424.8
30	849.6
35	991.2
40	1132.8
50	1416
60	1699.2
70	1982.4
80	2265.6
90	2548.8
100	2832
150	4248
200	5664
250	7080
300	8496
350	9912
400	11328
450	12744

**MEASUREMENT**

TO CONVERT FROM	TO CONVERT TO	MULTIPLY BY
PSI (Pound per square inch)	KPA (Kilopascal)	0.6895
PSI (Pound per square inch)	BAR	0.0689
PSI (Pound per square inch)	MPA (Megapascal)	0.006895
KPA (Kilopascal)	PSI (Pound per square inch)	0.1453
KPA (Kilopascal)	BAR	0.01
BAR	PSI (Pound per square inch)	14.7
BAR	KPA (Kilopascal)	100
KGF/CM2 (Kilogram square centimetre)	PSI (Pound per square inch)	14.23
KGF/CM2 (Kilogram square centimetre)	BAR	0.981

FRACTION INCH	DECIMAL INCH	MILLIMETRES
1/64	0.0156	0.3969
1/32	0.0312	0.7938
1/16	0.0625	1.5875
1/8	0.1250	3.1750
3/16	0.1875	4.7625
1/4	0.2500	6.3500
5/16	0.3125	7.9375
3/8	0.3750	9.5250
1/2	0.5000	12.7000
5/8	0.6250	15.8750
3/4	0.7500	19.0500
1	1.0000	25.4000
1-1/4	1.2500	31.7500
1-1/2	1.5000	38.1000
2	2.0000	50.8000
3	3.0000	76.2000
4	4.0000	106.6000

**To obtain the reverse of these tables simply divide.**

**For example Divide PSI by 14.7 to obtain BAR. Divide KPA by 100 to obtain BAR.**

**Approximate outside dimensions of BSP threads:**

**1/8 BSP = 9.5mm**

**1/4 BSP = 12.8mm**

**3/8 BSP = 16.3mm**

**1/2 BSP = 20.4mm**

**3/4 BSP = 25.9mm**

**1 BSP = 32.6mm**

# MARKALINE

## **MARKALINE** Precision Measuring Instrument Care & Maintenance

Sudden shock (dropping) can cause instrument to malfunction and will void warranty.

Keep measuring faces clean and dry during use.

Coat measuring faces with rust preventing oil after use and return to protective case.

Electronics on electronic measuring instruments should not come in contact with fluids (oil, water etc.) warranty void.

Do not use other electronic devices on or near electronic precision instruments. This will damage the chip and void warranty.

Magnetic fields, Electronic fields or excessive humid conditions will cause malfunction and unexpected errors. This will void warranty.

Batteries should be removed when instrument is not in use for long periods. This will eliminate battery corrosion causing instrument to malfunction and void warranty.

Do not store electronic instruments exposed to direct sunlight, high temperatures, excessive moisture or volatile gasses. This will void warranty.

Flashing LCD visible = Replace with new battery.

No display on LCD = Replace battery or send to instrument specialist for servicing.

LCD doesn't change when moving slider = Remove battery clean and replace after 24 hours.

Inconsistent accuracy = Dirt in sensor = Send to instrument cleaning specialist and have instrument cleaned/serviced.

Always clean the battery with a soft cotton cloth when replacing and avoid any contact with fingers etc. which will leave a moist residue on the battery causing poor contact.

Only use silver oxide batteries SR44 (1.5V) on **MARKALINE** electronic precision instruments.

Working temperature = 5 to 40 degree Celsius.

Storage temperature = -20 degree Celsius to 40 degrees Celsius.

Humidity influence = relative humidity < 80% without influence.

Maximum measuring speed on electronic instruments = 1.5me/sec, 60in/sec.

Keep slides and measuring scales clean and dry using cotton fabric gently. Do not use volatile liquids such as petrol, acetone, and other organic solutions. This will void warranty.

Avoid taking measurements with tips of jaws. This will cause inaccurate readings and void warranty.

**Warranty is void if care and maintenance procedure is not adhered to or used other than the specific purpose that the instrument is designed for. Please keep in mind the normal wear and tear factor.**



**Vernier Calipers**

Part No.	Range	Graduation	
CSVC15	150mm/6"	.02mm/.001"	
CSVC20	200mm/8"	.02mm/.001"	
CSVC30	300mm/12"	.02mm/.001"	
CSVC60	600mm	.02mm	90mm jaws
CSVC100	1000mm	.02mm	115mm jaws



**Electronic Calipers**

Part No.	Range	Graduation	
EC15	150mm/6"	.01mm/.0005"	
EC20	200mm/8"	.01mm/.0005"	
EC30	300mm/12"	.01mm/.0005"	
EC60	600mm/24"	.01mm/.0005"	90mm jaws
EC100	1000mm/40"	.01mm/.0005"	115mm jaws



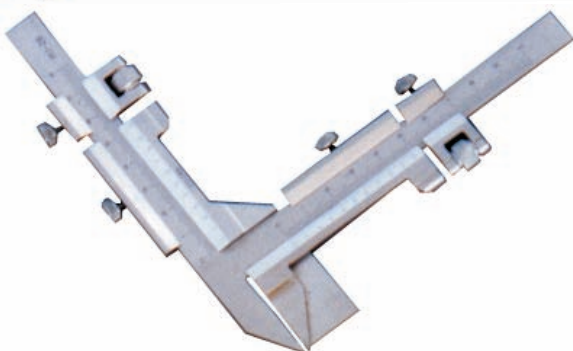
**Electronic Brake Caliper**

Part No.	Range	Graduation	
EBC10	100mm/4"	.01mm/.0005"	70mm Jaw Depth



**Dial Calipers**

Part No.	Range	Graduation
DC15	150mm	.02mm
DC20	200mm	.02mm
DC30	300mm	.02mm
DC6	6"	.001"
DC8	8"	.001"
DC12	12"	.001"



**Gear Tooth Vernier Caliper**

Part No.	Range	Graduation
GTVC26	1-26 Module	.02mm



### Vernier Depth Gauge

Part No.	Range	Graduation
VDG20	200mm	.02mm
VDG30	300mm	.02mm

### Electronic Depth Gauge

Part number	Range	Graduation
EDG15	150mm/6"	.01mm/.0005"
EDG20	200mm/8"	.01mm/.0005"
EDG30	300mm/12"	.01mm/.0005"



### Vernier Height Gauge

Part No.	Range	Graduation
VHG20	200mm	.02mm
VHG30	300mm	.02mm
VHG50	500mm	.02mm



### Electronic Height Gauge

Part No.	Range	Graduation
EHG30	300mm/12"	.01mm/.0005"
EHG50	500mm/20"	.01mm/.0005"



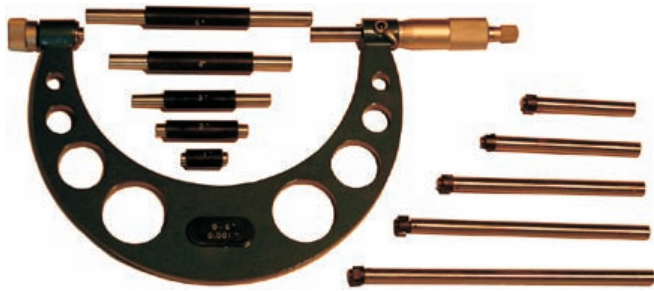
### Depth Micrometers

Part No.	Range	Graduation
DM6	0-6"	.001"
DM15	0-150mm	.01mm



### Interchangeable Inside Micrometers

Part No.	Range	Graduation
IIM6	2-6"	.001"
IIM12	2-12"	.001"
IIM24	2-24"	.001"
IIM15	50-150mm	.01mm
IIM30	50-300mm	.01mm
IIM60	50-600mm	.01mm



**Interchangeable Outside Micrometers**

Part No.	Range	Graduation
IOM6	0-6"	.001"
IOM12	6-12"	.001"
IOM15	0-150mm	.01 mm
IOM30	150-300mm	.01 mm
IOM40	300-400mm	.01 mm
IOM50	400-500mm	.01 mm
IOM60	500-600mm	.01 mm
IOM70	600-700mm	.01 mm
IOM80	700-800mm	.01 mm
IOM90	800-900mm	.01 mm
IOM100	900-1000mm	.01 mm



**Outside Micrometers**

Part No.	Range	Graduation
OM1	0-1"	.001"
OM2	1-2"	.001"
OM3	2-3"	.001"
OM4	3-4"	.001"
OM5	4-5"	.001"
OM6	5-6"	.001"
OM7	6-7"	.001"
OM8	7-8"	.001"
OM9	8-9"	.001"
OM10	9-10"	.001"
OM11	10-11"	.001"
OM12	11-12"	.001"
OM25	0-25mm	.01 mm
OM50	25-50mm	.01 mm
OM75	50-75mm	.01 mm
OM100	75-100mm	.01 mm
OM125	100-125mm	.01 mm
OM150	125-150mm	.01 mm
OM175	150-175mm	.01 mm
OM200	175-200mm	.01 mm
OM225	200-225mm	.01 mm
OM250	225-250mm	.01 mm
OM275	250-275mm	.01 mm
OM300	275-300mm	.01 mm



**Outside Micrometer Sets**

Part No.	Range	Graduation
OMS6	0-6"	.001"
OMS150	0-150mm	.01 mm

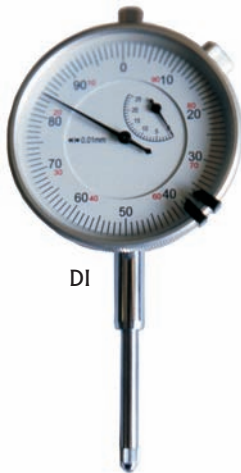
**Point Micrometer (Brake)**

Part No.	Range	Graduation
PM33	7.6-33mm	.01 mm



**Electronic Outside Micrometers**

Part No.	Range	Graduation
EOM25	0-1"/0-25mm	.0001"/.001mm



DI



BG



MBB



EI



LTI



DTG1



TG15

**Bore Gauges**

Part No.	Range	Graduation
BG15	50-150mm	.01 mm
BG6	2-6"	.001"

**Dial Indicators to suit Bore Gauges - without Back lug**

Part No.	Range	Graduation
DI3	3mm	.01 mm
DI14	.25"	.001"

**Dial Indicators with Back Lug**

Part No.	Range	Graduation
DI10	10mm	.01 mm
DI25	25mm	.01 mm

DI5	1/2"	.001"
DI1	1"	.001"

**Electronic Indicator**

Part number	Range	Graduation
EI10	10mm/3/8"	.01 mm/.0005"
EI25	25mm /1"	.01 mm/.0005"

**Magnetic Bases**

Part number	Fixed arms - 80Kg Holding Power
MBB80	

**Dial Test Indicators - 30mm Face**

Part No.	Range	Graduation
LT18	.8mm	.01 mm

**Dial Thickness Gauges**

Part No.	Range	30mm Throat	Graduation
DTG1	1mm		.001 mm

**Telescopic Gauges 6 pieces**

Part No.	Range
TG15	8-150mm

**Inside Dial Caliper Gauge**

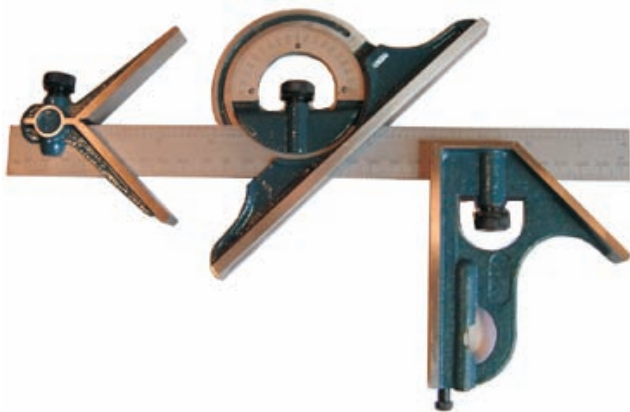
Part No.	Range	Graduation
IDCG35	15-35mm	.01 mm 0-100-0
IDCG55	35-55mm	.01 mm 0-100-0
IDCG75	55-75mm	.01 mm 0-100-0
IDCG95	75-95mm	.01 mm 0-100-0

**Outside Dial Caliper Gauge**

Part No.	Range	Graduation
ODCG20	0-20mm	.01 mm 0-100-0
ODCG40	20-40mm	.01 mm 0-100-0
ODCG60	40-60mm	.01 mm 0-100-0
ODCG80	60-80mm	.01 mm 0-100-0
ODCG100	80-100mm	.01 mm 0-100-0

**Engineers Square**

Part No.	Range
ES75	75mm
ES100	100mm
ES150	150mm
ES200	200mm
ES250	250mm
ES300	300mm

**Combination Square Set**

Part No.	Range
CS12	12" Blade
CS30	300mm Blade
CSSH	Square Head only
CSCH	Centre Head only
CSP	Protractor only
CS30R	300mm Ruler only
CS12R	12" Ruler only

**Universal Bevel Protractor**

Part No.	Range
UBP15	150mm Blade 0-320 degrees Outer angles 0-180 degrees inner angles .02mm Graduations.



**Spring Dividers**

Part No.	Range
SD15	150mm
SD20	200mm
SD25	250mm
SD30	300mm
SD60	600mm

**Inside Spring Calipers**

Part No.	Range
ISC15	150mm
ISC20	200mm
ISC25	250mm
ISC30	300mm
ISC60	600mm

**Outside Spring Calipers**

Part No.	Range
OSC15	150mm
OSC20	200mm
OSC25	250mm
OSC30	300mm
OSC60	600mm



**Screw Pitch Gauge**

Part No.	Range
SPGM	Metric 60° .25-6
SPGUN	Unified 60° 4-42TPI
SPGW	Whitworth 55° 4-60TPI



**Hand Held Tally Counter**

Part No.	Range
SJ504	9999



MBBHUC



DIE20



DICP



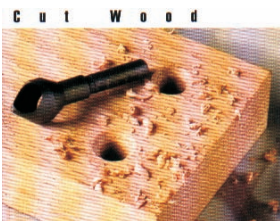
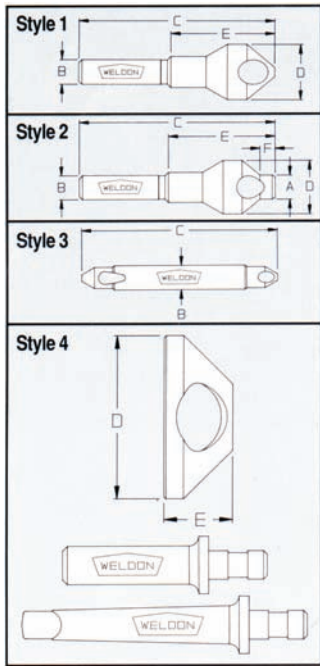
EBCB

**Accessories**

Part No.	Description
EDCB	Battery suit most electronic measuring instruments
DICP	Dial Indicator contact point
DIE20	Dial indicator 20mm extension
DIE40	Dial indicator 40mm extension
DIE60	Dial indicator 60mm extension
DIE80	Dial indicator 80mm extension
DIFL	Dial Indicator face lens 53mm
MBBHUC	Horizontal universal clamp suit MBB80
MBBVUC	Vertical universal clamp suit MBB80



Made in U.S.A.



**High speed steel Countersinks/Deburring tools**

Part No.	Style	Diam. of Cut		Shank Dia.	Degree
		Min.	Max.		
WELDC6	3	3/32	11/64	3/16	60°
WELDC8	3	1/8	15/64	1/4	60°
WELDC14	1	3/16	13/32	1/4	60°
WELDC18	1	5/16	17/32	1/4	60°
WELDC26	1	7/16	25/32	1/2	60°
WELDC36	1	1 1/16	1-3/32	1/2	60°
WELCS12-1	2	3/8	3/8	1/2	82°
WELCS14-1	2	7/16	7/16	1/2	82°
		Screw Diam/ Pilot Diam.			
WELCS3S	3	.073	15/64	1/4	82°
WELCS18	1	3/16	17/32	1/4	82°
WELCS26	1	.307	25/32	1/2	82°
WELCS36	1	.431	7/8	1/2	82°
WELCS48	1	1/2	1-15/32	1/2	82°
WELCS5S	1	NO. 4 & 5 screw		1/4	82°
WELCS6S	1	NO. 6 screw		1/4	82°
WELCS8S	1	No. 8 screw		1/4	82°
WELCS10S	1	No. 10 screw		1/4	82°
WELDB4	3	1/64	11/64	3/16	90°
WELDB6	3	1/16	11/64	3/16	90°
WELDB8	3	1/8	15/64	1/4	90°
WELDB14	1	5/32	13/32	1/4	90°
WELDB18	1	3/16	17/32	1/4	90°
WELDB26	1	5/16	25/32	1/2	90°
WELDB36	1	9/16	1-3/32	1/2	90°
WELDB48	1	1/2	1-15/32	1/2	90°
WELDB64	4	1-1/16	2	Below	90°
WELDB96	4	2	3	Below	90°
WELCSA8	1	3/32	1/4	1/4	100°
WELCSA14	1	1/8	27/64	1/4	100°
WELCSA18	1	3/16	35/64	1/4	100°

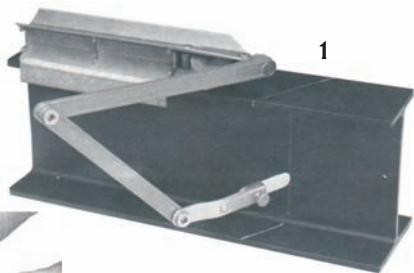
**Shanks for WELDB64 and WELDB96**

WELDS2	1/2" straight shank	Use for WELDB64
WELDS2T	No. 2 MT shank	Use for WELDB64
WELDS3	1/2" straight shank	Use for WELDB96
WELDS3T	No. 2 MT shank	Use for WELDB96

**Sets**

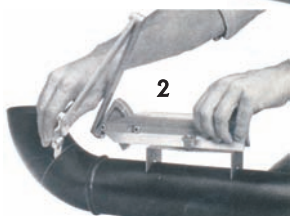
P/No. WEL60DB	60° consisting of WELDC6, WELDC8, WELDC14, WELDC18, WELDC26, WELDC36.
P/No. WEL1C	82° consisting of WELCS5S, WELCS6S, WELCS8S, WELCS10S, WELCS8-1, WELCS10-1, WELCS12-1, WELCS14-1, WELCS16-1.
P/No. WEL90DB	90° consisting of WELDB6, WELDB8, WELDB14, WELDB18, WELDB26, WELDB36.

**Suggested speeds (RPM) should be approximately 2/3 of those recommended for drilling.**



**Contour Marker**

P/No. 1 40 - 450mm pipe/structural marker. Standard  
 P/No. 4 200 - 1220mm pipe. Jumbo



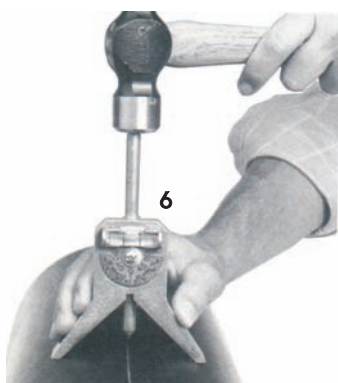
**Combination Adaptor**

P/No. 2 Increases layout capacity of No.1 marker. Standard  
 P/No. 5 Increases layout capacity of No.4 marker. Jumbo



**Leather Carrying Case**

P/No. 3 Suits No. 1 Contour Marker



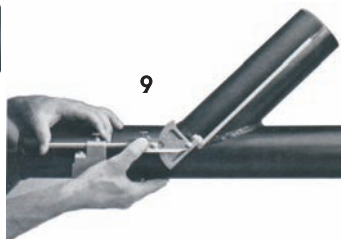
**Centering Head**

P/No. 6 12mm and larger with 100mm Y head. Standard  
 P/No. 7 25mm and larger with 200mm Y head. Jumbo



**Pro-Mag Level**

P/No. 8 225mm magnetic cast aluminium level.



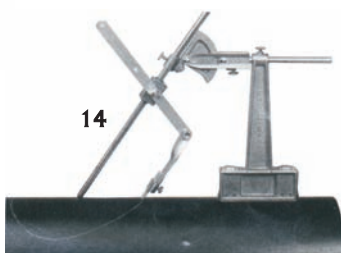
**Fitter Welder Protractor**

P/No. 9 90 degree magnetic protractor.



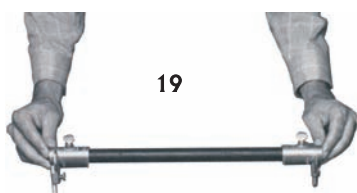
**Pipe Flange Aligner**

P/No. 10 75 - 300mm pipe



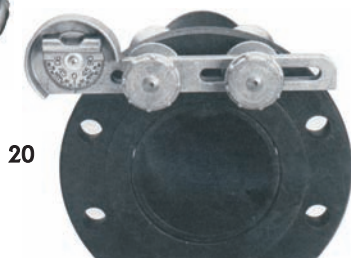
**Circle Ellipse Projector**

P/No. 14 Perfect circles, ellipses or oblong circles



**Multi Trammel Heads**

P/No. 19 38mm - to any diameter depending on pipe length. (1/2" pipe is not supplied)



**Dial Angle Flange Level**

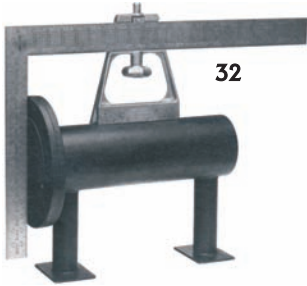
P/No. 20 Bolt hole spacing from 50 - 139mm.



27

### Engineers Chalk Holder

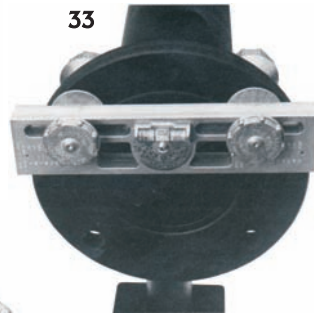
P/No. 27 Suits 13x5mm Engineers chalk P/No.11305.



32

### Flange Aligner Base

P/No. 32 Pipe 25mm and larger. (Square not included)



33

### Universal Level

P/No. 33 Flange level, angles of laterials, trueing vertical runs.



1220

### Radius Marker

P/No.1220 Radius up to 500mm  
 P/No.1224 Radius up to 610mm  
 P/No.1340 Radius up to 1000mm



176B

### Wrap-A-Round

P/No.150B	25 - 75mm pipe diameter.	49mm wide.
P/No.152B	25 - 75mm pipe diameter.	63mm wide.
P/No.164B	75 - 150mm pipe diameter.	98mm wide.
P/No.176B	75 - 250mm pipe diameter.	98mm wide.
P/No.177B	100 - 300mm pipe diameter.	125mm wide.
P/No.179B	150 - 225mm pipe diameter.	125mm wide.
P/No.185B12	200 - 530mm pipe diameter.	125mm wide.
P/No.185B14	350 - 620mm pipe diameter.	125mm wide.

### Parts

P/No. DSL Dial set level  
 P/No. CBS Centering bush set suit No. 20 & 33  
 P/No. 6CP Centering pin suit No. 6



### Engineers Chalk - French Chalk Pencils

P/No. 11010	10x10x80mm	50pcs/pkt	20pkts/ctn
P/No. 11005	10x5x80mm	100pcs/pkt	20pkts/ctn
P/No. 11305	13x5x125mm	150pcs/pkt	6pkts/ctn
P/No. 16010	60x10x80mm	8pcs/pkt	20pkts/ctn



### Talc Powder - French Chalk Powder

P/No. 12545 25kg bag  
 P/No. 10145 1kg container 12 bottles per carton  
 P/No. 10745 Shaker pack 12 bottles per carton

# **MARKALINE** Carbide Burrs

**There are two primary reasons why tools are usually damaged.**

1. A brand new Carbide Burr is taken out of the package, put in a grinder and then a lot of down pressure is used on the work surface.  
The flutes of a brand new Burr are very sharp, and the initial contact with the work surface should be **light** to allow the tool to "break in".
2. A dull tool is used past it's useful life, and the excessive down pressure results in fractured carbide or a broken shank.

## **Carbide Burr Technical Information**

### **Operating Data**

Carbide burrs are chucked into die grinders and used in hand operations. Therefore, feed rates and pressure depend upon the working conditions and experience of the operator.

Experienced operators adjust feed and pressure to achieve desired results. However, there are a few guide- lines to remember.

Avoid using so much pressure that grinder speed is reduced. This will cause the burr to overheat and prematurely dull.

Maximise the area of contact with the work-piece, the finish improves when more length of the cutting edge engages the work.

Avoid contacting the work piece with the shank of a burr, as this can cause the tool to overheat and weaken or even destroy the brazed joint.

**Dull burrs** should be replaced with a new or resharpened tool before it becomes damaged.

Dull burrs cut slowly, requiring the operator to apply more pressure to the grinder. This can cause damage to the burr and/or grinder that can be far more costly than the cost to resharpen or new burr.

**Lubricants** can be used with carbide burrs to improve lubricity and prevent chip loading.

A liquid wax or synthetic lubricant is most effective. A common method is to periodically dip the burr in the wax or lubricant.

### **Speed and Die Grinders**

High speeds are essential for efficient and economical use of a carbide burr.

At high speeds there will be less tendency for chips to build up in the flute. Also, the burr will cut more freely in corners or pockets, and reduce the chances of jamming or wedging.

These last two factors are the biggest reason for shank breakage. Carbide burrs should operate between 1,500 and 3,000 **surface feet per minute**. Using these guidelines, a grinder can be selected that will efficiently work with a fairly broad range of burr sizes.

For example, a 30,000-RPM grinder can be used with a 3/16" to a 3/8" diameter burr.

A 22,000-RPM grinder will be satisfactory for burrs ranging from 1/4" to 1/2". However, for most efficient operations, the grinder should be specified with consideration given to the diameter that will be most often used.

Also, proper maintenance of air and grinding systems is vital. If a 22,000 RPM grinder bogs down too often, your useable RPM is actually much less. Therefore, we recommend checking air pressure often, as well as the seals in the die grinder.

Correct speeds are important to achieving desired removal rates and work-piece finish. Increased speeds will improve finishes and tool life.

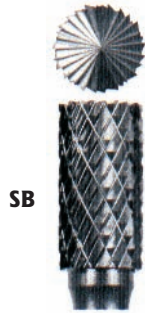
Lower speeds may remove material more rapidly, but may also cause overheating, bouncing, and premature failure. Different cuts are also available to slow or increase speed removal rates.

**Standard "Double Cut" Carbide Burrs**

Made in U.S.A.



SA



SB



SC



SD

**Cylindrical**

Part Number	Head Diameter	Flute Length	Shank Diameter
SA41	1/16	1/4	1/8
SA42	3/32	7/1	1/8
SA43	1/8	9/16	1/8
SA52	5/32	1/2	1/8
SA53	3/16	1/2	1/8
SA51	1/4	1/2	1/8
SA11	1/8	1/2	1/4
SA13	5/32	5/8	1/4
SA14	3/16	5/8	1/4
SA1	1/4	5/8	1/4
SA2	5/16	3/4	1/4
SA3	3/8	3/4	1/4
SA4	7/16	1	1/4
SA5	1/2	1	1/4
SA6	5/8	1	1/4
SA7	3/4	1	1/4
SA8	7/8	1	1/4
SA9	1	1	1/4

**Cylindrical End Cut**

SB51	1/4	3/16	1/8
SB11	1/8	1/2	1/4
SB13	5/32	5/8	1/4
SB14	3/16	5/8	1/4
SB1	1/4	5/8	1/4
SB2	5/16	3/4	1/4
SB3	3/8	3/4	1/4
SB4	7/16	1	1/4
SB5	1/2	1	1/4
SB6	5/8	1	1/4
SB7	3/4	1	1/4

**Cylindrical Radius End**

SC41	3/32	7/16	1/8
SC42	1/8	9/16	1/8
SC52	5/32	1/2	1/8
SC53	3/16	1/2	1/8
SC51	1/4	1/2	1/8
SC11	1/8	1/2	1/4
SC13	5/32	5/8	1/4
SC14	3/16	5/8	1/4
SC1	1/4	5/8	1/4
SC2	5/16	3/4	1/4
SC3	3/8	3/4	1/4
SC4	7/16	1	1/4
SC5	1/2	1	1/4
SC6	5/8	1	1/4
SC7	3/4	1	1/4
SC8	7/8	1	1/4
SC9	1	1	1/4

**Ball**

SD41	3/32		1/8
SD42	1/8		1/8
SD53	3/16		1/8
SD51	1/4		1/8
SD11	1/8		1/4
SD14	3/16		1/4
SD1	1/4		1/4
SD2	5/16		1/4
SD3	3/8		1/4
SD4	7/16		1/4
SD5	1/2		1/4
SD6	5/8		1/4
SD7	3/4		1/4
SD9	1		1/4

**Standard "Double Cut" Carbide Burrs**

Made in U.S.A.



SE



SF



SG



SH



SJ



SK

**Oval**

Part Number	Head Diameter	Flute Length	Shank Diameter
SE41	1/8	7/32	1/8
SE53	3/16	9/32	1/8
SE51	1/4	3/8	1/8
SE11	3/16	5/16	1/4
SE1	1/4	3/8	1/4
SE3	3/8	5/8	1/4
SE5	1/2	7/8	1/4
SE6	5/8	1	1/4
SE7	3/4	1	1/4

**Tree Radius Nose**

SF41	1/8	1/4	1/8
SF42	1/8	1/2	1/8
SF53	3/16	1/2	1/8
SF51	1/4	1/2	1/8
SF11	1/8	1/2	1/4
SF1	1/4	5/8	1/4
SF3	3/8	3/4	1/4
SF4	7/16	1	1/4
SF5	1/2	1	1/4
SF6	5/8	1	1/4
SF7	3/4	1	1/4

**Tree Pointed Nose**

SG41	1/8	1/4	1/8
SG42	1/8	5/16	1/8
SG43	1/8	3/8	1/8
SG44	1/8	1/2	1/8
SG53	3/16	1/2	1/8
SG51	1/4	1/2	1/8
SG1	1/4	5/8	1/4
SG2	5/16	3/4	1/4
SG3	3/8	3/4	1/4
SG5	1/2	1	1/4
SG6	5/8	1	1/4
SG7	3/4	1	1/4

**Flame**

SH41	1/8	1/4	1/8
SH53	3/16	3/8	1/8
SH1	1/4	5/8	1/4
SH2	5/16	3/4	1/4
SH5	1/2	1-1/4	1/4
SH6	5/8	1-7/16	1/4
SH7	3/4	1-5/8	1/4

**Cone 60 degree**

SJ1	1/4	3/16	1/4
SJ3	3/8	5/16	1/4
SJ5	1/2	7/16	1/4
SJ6	5/8	9/16	1/4
SJ7	3/4	11/16	1/4
SJ9	1	15/16	1/4

**Cone 90 degree**

SK1	1/4	1/8	1/4
SK3	3/8	3/16	1/4
SK5	1/2	1/4	1/4
SK6	5/8	5/16	1/4
SK7	3/4	3/8	1/4
SK9	1	1/2	1/4

## Standard "Double Cut" Carbide Burrs

Made in U.S.A.



### Tapered Cone Radius End

Part Number	Head Diameter	Flute Length	Shank Diameter	Angle
SL41	1/8	3/8	1/8	8 deg.
SL42	1/8	1/2	1/8	8 deg.
SL53	3/16	1/2	1/8	14 deg.
SL1	1/4	5/8	1/4	14 deg.
SL2	5/16	7/8	1/4	14 deg.
SL3	3/8	1-1/16	1/4	14 deg.
SL4	1/2	1-1/8	1/4	14 deg.
SL6	5/8	1-5/16	1/4	14 deg.
SL7	3/4	1-1/2	1/4	14 deg.



### Cone

SM41	1/8	3/8	1/8	12 deg.
SM42	1/8	7/16	1/8	14 deg.
SM43	1/8	5/8	1/8	7 deg.
SM53	3/16	1/2	1/8	16 deg.
SM51	1/4	1/2	1/8	22 deg.
SM1	1/4	5/8	1/4	22 deg.
SM2	1/4	3/4	1/4	14 deg.
SM3	1/4	1	1/4	10 deg.
SM4	3/8	5/8	1/4	28 deg.
SM5	1/2	7/8	1/4	28 deg.
SM6	5/8	1	1/4	28 deg.



### Inverted Cone

SN41	3/32	3/16	1/8	10 deg.
SN42	1/8	3/16	1/8	10 deg.
SN53	3/16	1/4	1/8	10 deg.
SN51	1/4	1/4	1/8	10 deg.
SN1	1/4	5/16	1/4	10 deg.
SN2	3/8	3/8	1/4	13 deg.
SN3	1/2	1/2	1/4	16 deg.
SN4	1/2	1/2	1/4	28 deg.
SN6	5/8	3/4	1/4	18 deg.
SN7	3/4	5/8	1/4	30 deg.

**6" Shank "Standard Double Cut" Carbide Burrs**



**6" Extended Shank**

**Cylindrical**

SA1L6	1/4	5/8	1/4
SA3L6	3/8	3/4	1/4
SA5L6	1/2	1	1/4

**Cylindrical Radius End**

SC1L6	1/4	5/8	1/4
SC3L6	3/8	3/4	1/4
SC5L6	1/2	1	1/4

**Ball**

SD1L6	1/4		1/4
SD3L6	3/8		1/4
SD5L6	1/2		1/4

**Tree Radius Nose**

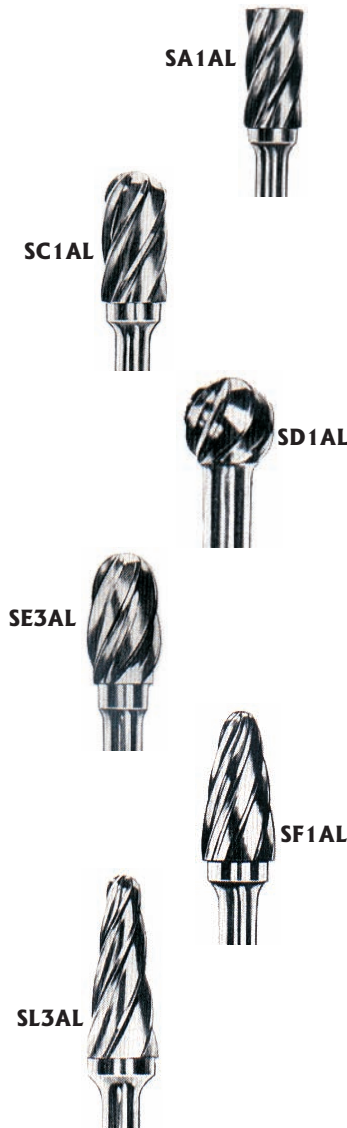
SF1L6	1/4	5/8	1/4
SF3L6	3/8	3/4	1/4
SF5L6	1/2	1	1/4

**Tapered Cone Radius End**

SL1L6	1/4	5/8	1/4	14 deg.
SL3L6	3/8	1-1/16	1/4	14 deg.
SL4L6	1/2	1-1/8	1/4	14 deg.

M  
a  
d  
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i  
n  
  
U  
S  
A

**"Aluminium Cut" Carbide Burrs**



**Aluminium Cut**

**Cylindrical**

SA1AL	1/4	3/4	1/4
SA3AL	3/8	3/4	1/4
SA5AL	1/2	1	1/4
SA6AL	5/8	1	1/4
SA7AL	3/4	1	1/4

**Cylindrical Radius End**

SC1AL	1/4	3/4	1/4
SC3AL	3/8	3/4	1/4
SC5AL	1/2	1	1/4
SC6AL	5/8	1	1/4
SC7AL	3/4	1	1/4

**Ball**

SD1AL	1/4		1/4
SD3AL	3/8		1/4
SD5AL	1/2		1/4
SD6AL	5/8		1/4
SD7AL	3/4		1/4

**Oval**

SE3AL	3/8	5/8	1/4
SE5AL	1/2	7/8	1/4
SE6AL	5/8	1	1/4
SE7AL	3/4	1	1/4

**Tree Radius Nose**

SF1AL	1/4	3/4	1/4
SF3AL	3/8	3/4	1/4
SF5AL	1/2	1	1/4
SF6AL	5/8	1	1/4
SF14AL	3/4	1-1/4	1/4

**Tapered Cone Radius End**

SL3AL	3/8	1-1/16	1/4
SL4AL	1/2	1-1/8	1/4
SL6AL	5/8	1-5/16	1/4
SL7AL	3/4	1-1/2	1/4

**“Standard Cut” Carbide Burrs**

Made in U.S.A.



CR



T



TP



TR

Part Number	Head Diameter	Flute Length	Shank Diameter
<b>Cylindrical Radius End</b>			
CR4	1/4	5/8	1/4
CR5	5/16	3/4	1/4
CR6	3/8	3/4	1/4
CR8	1/2	1	1/4

**Tapered Cone Radius End**

T6	3/8	1-1/16	1/4	14 deg.
T8	1/2	1-1/8	1/4	14 deg.

**Tree Pointed Nose**

TP6	3/8	3/4	1/4
-----	-----	-----	-----

**Tree Round Nose**

TR6	3/8	3/4	1/4
TR8	1/2	1	1/4

**Standard “Coarse Cut” Carbide Burrs**

Made in U.S.A.



BURRSTAND16



TR6AC

**Standard Coarse Cut / Aluminium Cut**

**Tree Round Nose**

TR6AC	3/8	3/4	1/4
TR8AC	1/2	1	1/4

**Carbide Burr Stands.**

**BURRSTAND16**

Consisting of the following Carbide Burrs in a tiered counter display.  
SA1, SA3, SA5, SC1, SC3, SC5, SF1, SF3, SF5, SG3, SM4, SE3, SL3, SL4, SD3, SF3AL.



BS11SC

**BS11SC**

Consisting of the following Carbide Burrs in a flat counter display.  
CR4, CR5, CR6, CR8, T6, T8, TP6, TR6, TR8, TR6AC, TR8AC.

1. Standard Double Cut = Rapid stock removal in harder materials.
2. Standard Cut = General purpose. Cast iron, steel copper & brass.
3. Aluminium Cut = Rapid stock removal for non ferrous materials.
4. Standard Coarse Cut = Copper, brass, aluminium, plastics, & rubber.
5. Other cuts, shank lengths & diameters including metric available on request.



CJ200

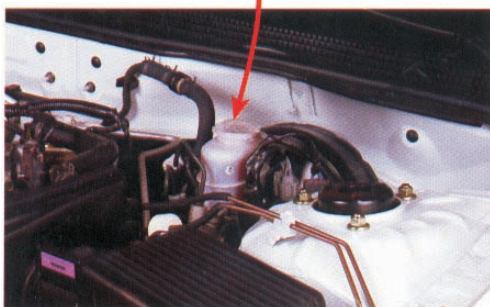


**Ref-Tech pocket reference**

20 Books per counter display

RT1

47 pages of useful information for the Field, Workshop, Office & Home. Includes abbreviations, symbols, conversions, drill sizes, tapping charts and lots more



**Brake Fluid Tester**

CJ200

Battery operated audible & visible instrument suitable for checking whether moisture content is excessive & unsafe.



CJ-169S



CR-157



HA-168

**Oil/Fluid Extractor**

CJ169S

6.5 Litre **Manual** vacuum operation.

Suitable for extracting automatic gear box oil, power steering fluid, differential oil etc.

HA168

6 Litre Dual **Manual/Pneumatic** vacuum

operation. Same use as CJ169S.

CA157

5 Litre **Pneumatic** vacuum operation only.

Same use as CJ169S.



CJ-236



CA127

**Brake Fluid Changer**

CJ236

4 Litre **Manual** vacuum operation.

Complete with hose, tap, nipple attachment and master cylinder refill bottle.

CA127

2 Litre **Pneumatic** vacuum operation

- Similar to CJ236 features but smaller.



**Air Compressor Kit - Starter kit**

Part No.

5PAK Consists of HP Spray gun, Engine cleaner, Blow gun, Tyre inflator, Air hose.



**High Pressure Spray Guns & Pots - Suction Feed**

S990 High pressure spray gun & 1Lt pot 40-70psi 1.5 set up  
S990PL Pot & Lid to suit HPSG1 & S990

S770 High pressure spray gun & 1Lt pot 40-70psi 1.7 set up  
S770PL Pot & Lid to suit S770.

W77 High pressure spray gun & 1Lt pot 40-70psi 2.0 set up  
W77PL Pot & Lid to suit W77.

**High Pressure Spray Gun & Pot - Gravity feed**

S770G High pressure spray gun & 400ml pot 2mm set up.

No.1 Choice



**Engine Cleaning Gun & Pot**

ECG1 High pressure Engine cleaning gun & 1Lt metal pot



**Metal Blow/Duster Guns**

BGM Pistol grip with short nozzle



MBG Pistol grip with short nozzle

MBG10 Lever type with short nozzle

MBG20 lever type with 200mm nozzle

MBG30 Lever type with 300mm nozzle

MBG50 Lever type with 500mm nozzle

MBG90 Lever type with 900mm nozzle

MBGSN Lever type with syphon nozzle



**Plastic Blow/Duster Guns**

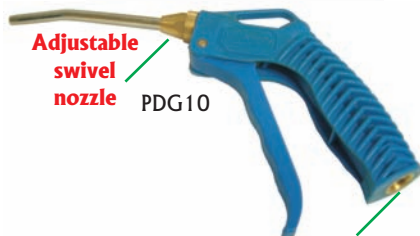
PDG10 Pistol grip with 100mm nozzle

PDG20 Pistol grip with 150mm nozzle

PDG30 Pistol grip with 215mm nozzle

PDG50 Pistol grip with 500mm nozzle

PDG90 Pistol grip with 900mm nozzle



Brass Air Inlet Insert



**Blow/Vacuum Gun**

AVBGK Kit complete with gun, hose, bag & 4 nozzles.

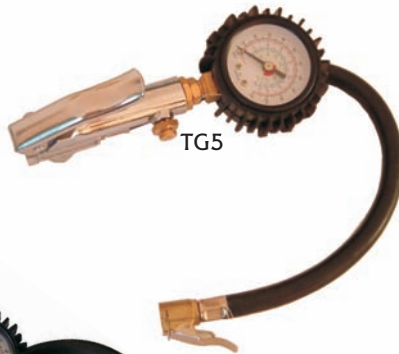
AVBG Gun only

**Tyre Inflators with non sealing chucks**

Part No.

G52

Dial type 10-150psi with clip on chuck & 62mm gauge. Plastic body.



TG5

Dial type 10-150psi with clip on chuck & 52mm gauge.

TG5DC

Dial type 10-150psi with **dual hold on chuck** & 52mm gauge.



TG6

Bar type 10-140psi with dual hold on chuck



T1220

Dial type 10-220psi with clip on chuck

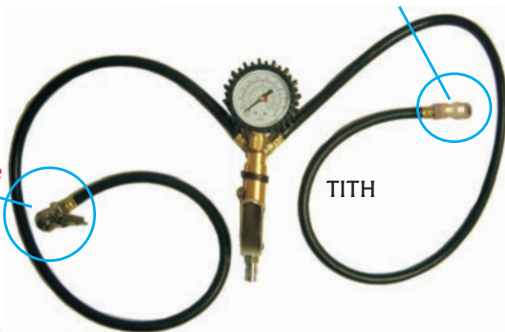


Large Bore

TITH

Dial type 10-220psi with dual hose. Clip on angled **standard** valve chuck & Clip on straight **large bore** valve (**Earthmover**) chuck.

Standard Bore



T11000

Service Station Style Tyre Inflator 1 100kpa/160psi with dual hold on chuck.

**"Australia's most popular tyre inflator"**



**Custom Made Tyre Inflators & Tyre Pressure Gauges Also Available.**

**Chucks - Non Sealing/Open - Suitable for Tyre Inflators**

Part No.

**Hold on style**

TB1 ANS

Single angled chuck with 1/4BSP female thread

TB2NS

Dual chuck 150mm long x 1/4 BSP female thread

TB2RNS

Dual chuck with black rubber grip. 150mm long x 1/4BSP female thread

1864

Dual Small & **Large** bore (Earthmover) Chuck suit 1930 gauge with **Schrader male thread.**

HOC14B

Single straight chuck with 1/4" hose barb

**Clip on style**

TB4NS

Straight chuck with 1/4 hose barb

COC14FNS

Straight chuck with 1/4 BSP female thread

LBTCNS

Straight **large** bore chuck with 5/16" hose barb

LBTC

Straight **large** bore chuck with 1/4 BSP female thread

**Chucks Sealing/Closed - Not suitable for Tyre Inflators**

**Hold on style**

TB1 A

Single angled chuck with 1/4 BSP female thread

TB2R

Dual chuck with red rubber grip. 150mm long x 1/4 BSP female thread

**Clip on style**

TB1

Single angled chuck with 1/4 BSP female thread

COC14FS

Straight chuck with 1/4 BSP female thread

COCDs

Dual chuck 150mm long x 1/4BSP female thread

LBTCS

Straight **large** bore chuck with 1/4 BSP female thread

TB1ANS



TB2NS



TB2RNS



Large & Small Bore

1864



HOC14B



TB4NS



COC14FNS



LBTCNS



LBTC



TB1 A



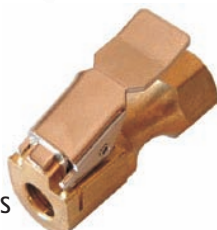
TB2R



TB1



COC14FS



COCDs



LBTCS



**Tyre Pressure Gauges - Dial Type**

Part No.

TGC60 50mm car type 60psi with straight hold on chuck & relief valve

TGC60A 50mm car type 60psi with angled hold on chuck & relief valve

TGC60R 50mm car type 60psi with straight hold on chuck, rubber gauge protector & relief valve

TGC60AR 50mm car type 60psi with angled hold on chuck, rubber gauge protector & relief valve

TGT160 50mm truck type 160psi with 200mm dual hold on chuck, relief valve & rubber gauge protector.

TGT160A 45mm truck type 140psi with 150mm dual hold on chuck & relief valve. Without rubber gauge protector.

TG8 50mm 140psi with 350mm hose & dual hold on chuck. Without relief valve

1930 62mm 170psi with 500mm hose, dual **large & small** bore chuck. Without relief valve.

TG7 62mm 220psi with 350mm hose & single straight hold on chuck. Without relief valve

TGDC60 50mm 60psi with 350mm hose, dual hold on chuck & relief valve

TGDC140 50mm 140psi with 350mm hose, dual hold on chuck & relief valve

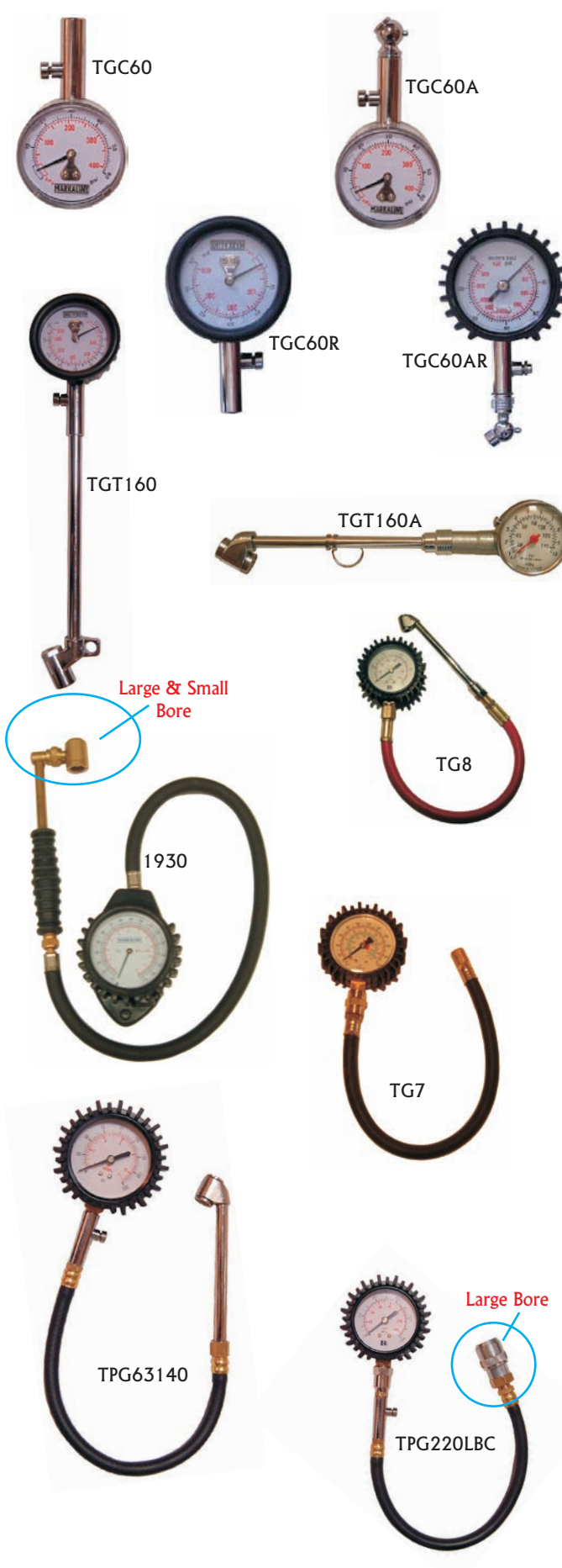
TPG6315 62mm **15psi** with 350mm hose, angled hold on chuck & relief valve.

TPG6335 62mm **35psi** with 350mm hose, dual hold on chuck & relief valve

TPG6360 62mm **60psi** with 350mm hose, dual hold on chuck & relief valve

TPG63140 62mm **140psi** with 350mm hose, dual hold on chuck & relief valve

TPG220LBC 62mm 140psi with 350mm hose, **large bore**, earthmover straight clip on chuck & relief valve



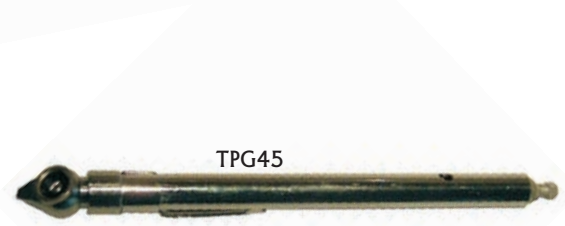
**Tyre Pressure Gauges - Pencil Type**

Part No.

- TG3A      Pocket clip car type 50psi angled chuck
- TG3        Pocket clip car type 120psi angled chuck



- TPG50      Pocket clip car type 50psi straight chuck



- TPG45      Pocket clip tractor air/ water type 45psi with angled chuck



- TPG120     Pocket clip truck dual chuck type 120psi



- TPG130     Long reach truck dual chuck type 130psi with ring clip.



**Tyre Tread Depth Gauge**

TTDG



**Tyre Valve Repair Tools**

- TVRT        4 way core remover & thread repairer



- TVT2        Tyre valve small & large core remover tool



**Door Handle Removal Tool**

DHRT Suits most vehicles on Australian roads



**When ordering pressure gauges always order a reading approximately 50% higher than the expected maximum operating pressure. If operating at around 100psi always select a gauge that reads at 150psi or higher. If gauges are dropped or air pressure exceeds the recommended pressure they will register inaccurate readings**

**Filter Regulator**

Part No.  
 FR802 1/4 Female thread with pressure gauge and bracket  
 FR804 1/2 Female thread with pressure gauge and bracket  
 Maximum pressure = 140psi. Maximum temperature = 5-60°C. 5 micron filter. Polycarbonate bowl. Recommended for use with compressors up to 25cfm.

**Filter Regulator - Compact - 110PSI maximum pressure**

AFR80A 1/4 Female thread with pressure gauge.

**Filter Regulator Lubricator - 140PSI maximum pressure**

AFRL802 1/4 Female thread three in one  
 AFRL804 1/2 Female thread three in one

**Filter - 140PSI maximum pressure**

AF802 1/4 Female thread  
 AF804 1/2 Female thread

**Lubricator - 140PSI maximum pressure**

AL802 1/4 Female thread  
 AL804 1/2 Female thread  
 MO04 1/4 Male/Female Mini oiler

**Regulator & Gauge - Compact - 110PSI maximum pressure**

AR80A 1/4 Female thread

**Pressure Gauges with Bottom Entry**

PG5036SS 50mm 36PSI 1/4BSP - **Stainless Steel**  
 PG5060SS 50mm 60PSI 1/4BSP - **Stainless Steel**  
 PG50145B 50mm 160PSI 1/4BSP  
 PG50220B 50mm 220PSI 1/4BSP  
 PG52 52mm 220PSI to suit TG5 Inflator  
 PG6315B 63mm 15PSI 1/8BSP  
 PG6335B 63mm 35PSI 1/8BSP  
 PG6360B 63mm 60PSI 1/8BSP  
 PG63150B 63mm 150PSI 1/4BSP  
 PG63160B 63mm 160PSI 1/8BSP  
 PG63220B 63mm 220PSI 1/4BSP

**Pressure Gauges with Rear Entry**

PG40140R 40mm 140PSI 1/8BSP  
 PG50145R 50mm 145PSI 1/4BSP

**Rubber Pressure Gauge Protectors**

PGP50 Suits 50mm Gauges.  
 PGP62 Suits 62mm Gauges.

**Hose Clamps - Worm Drive**

HC000 9.5-12mm  
 HCM00 11-16mm  
 HC00 13-20mm  
 HCO 16-22mm

**OTK Clamps - 2 Ear**

OTK911 9-11mm 7/16" nominal  
 OTK1113 11-13mm 1/2" nominal  
 OTK1315 13-15mm 9/16" nominal  
 OTK1518 15-18mm 5/8" nominal  
 OTK1720 17-20mm 3/4" nominal  
 OTK2023 20-23mm 7/8" nominal  
 OTK2225 22-25mm 15/16" nominal



**Nylon self storage hose is measured in a straight length & then coiled.**

**To order the correct length calculate the working length & then double it. e.g. 5 metre working length then order 10 metre length of hose.**



**When ordering Poly Urethane hose always order approximately 25% more than working length to arrive at correct hose length. e.g. 8 metres working length then order 10 metre length of hose.**



#### **Air Hose - Nylon Self Storage with Fittings**

Part No.	
SSH0608	1/4" Bore x 7.5 metres long x 1/4 thread
SSH0615	1/4" Bore x 15 metres long x 1/4 thread
SSH1008	3/8" Bore x 7.5 metres long x 1/4 thread
SSH1015	3/8" Bore x 15 metres long x 1/4 thread
SSH1315	1/2" Bore x 15 metres long x 1/2 thread

#### **Air Hose - Nylon Self Storage - Bulk**

SSH0630B	1/4" Bore x 30 metres
SSH1030B	3/8" Bore x 30 metres
SSH1330B	1/2" Bore x 30 metres

#### **Air Hose - Blue PVC**

AIR620	6mm Bore x 20 metres
AIR820	8mm Bore x 20 metres
AIR1010	10mm Bore x 10 metres
AIR1020	10mm Bore x 20 metres
AIR1030	10mm Bore x 30 metres
AIR1050	10mm Bore x 50 metres
AIR10100	10mm Bore x 100 metres
AIR1220	12.5mm Bore x 20 metres
AIR12100	12.5mm Bore x 100 metre

#### **Air Hose - Blue PVC Fitted with Nitto Style Connectors**

AIR1010FN	10mm Bore x 10 metres
AIR1020FN	10mm Bore x 20 metres
AIR1030FN	10mm Bore x 30 metres

#### **Air Hose - Clear Multi Purpose - Petrol Resistant & Food Grade**

AIR605C	6mm Bore x 5 metres
AIR610C	6mm Bore x 10 metres
AIR620C	6mm Bore x 20 metres
AIR805C	8mm Bore x 5 metres
AIR810C	8mm Bore x 10 metres
AIR815C	8mm Bore x 15 metres
AIR820C	8mm Bore x 20 metres
AIR1005C	10mm Bore x 5 metres
AIR1010C	10mm Bore x 10 metres
AIR1015C	10mm Bore x 15 metres
AIR1020C	10mm Bore x 20 metres
AIR1205C	12mm Bore x 5 metres
AIR1210C	12mm Bore x 10 metres
AIR1215C	12mm Bore x 15 metres
AIR1220C	12mm Bore x 20 metres
AIR20100C	20mm Bore x 100 metres
AIR25100C	25mm Bore x 100 metres
AIR3220C	32mm Bore x 20 metres
AIR4020C	40mm Bore x 20 metres

#### **Air Hose - PVC Yellow**

AIR12100Y	12mm Bore x 100 metres
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#### **Poly Urethane Self Store Hose with Fittings**

PSSH1010	6.5/10mm x 10 metre
PSSH1208	8/12mm x 7.5 metre
PSSH1210	8/12mm x 10 metre



**Retractable Hose Reels**

Part No.	
AIR10	10mm x 15 metres air
AIR12	12.5mm x 15 metres air
W12	12.5mm x 15 metres Cold water
HW12	12.5mm x 15 metres Hot water
OA5	5mm x 12 metres Oxy/Acet
G12	12.5mm x 15 metres Garden

AM3  
Couplings  
not Included



**Manifold**

AM3	3 way manifold 1/4 Female thread. <b>Couplings not included.</b>
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**Regulator**

FR2	1/4 Male/Female thread
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**Swivel Connector**

SC04	1/4 Male/Female thread
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**Lever Handle Ball Valves - Female to Female thread**

**Nickel Plated Brass**

LBV04	1/4
LBV06	3/8
LBV08	1/2
LBV12	3/4
LBV16	1

**Mini Ball Valves - Nickel Plated Brass**

MBV02	1/8 Female thread
MBV04	1/4 Female thread
MBV06	3/8 Female thread
MBV08	1/2 Female thread
MBV04MF	1/4 Male/Female thread

**Gate Valves - 120psi - Brass Female to Female thread**

GV08	1/2
GV12	3/4
GV16	1
GV20	1-1/4
GV24	1-1/2
GV32	2

**Drain Cocks**

DC04	1/4
DC06	3/8
DC08	1/2

**Pressure Relief Valve 150PSI. 30cfm @ 25degree celcius.**

PRV04	1/4 male thread
PRV08	1/2 male thread

**Tank Valve**

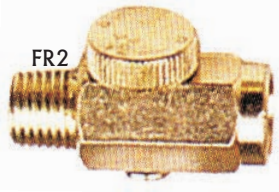
TV18	1/8 BSP with cap
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**Check Valve**

CV06	3/8
CV08	1/2
CV12	3/4

**Teflon Tape**

PTFE10	Thread Seal Tape .075 x 12mm x 10 metre long.
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**No. 1 Choice  
European Style  
100CFM**



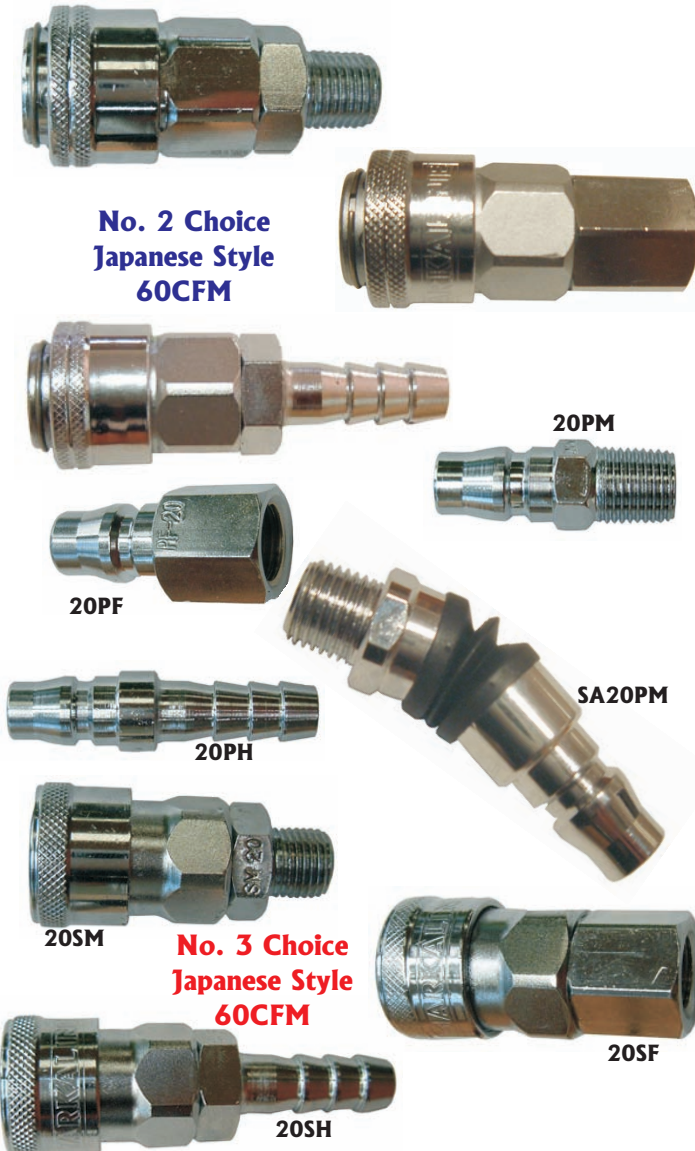
**“Auto” European Extra High Volume /Cejn320/Ryco500 Style Couplings**

525M4	1/4 Male Thread
525M6	3/8 Male Thread
525M8	1/2 Male Thread
525F4	1/4 Female Thread
525F6	3/8 Female Thread
525F8	1/2 Female Thread
525T4	1/4 Hose Tail/Barb
525T5	5/16 Hose Tail/Barb
525T6	3/8 Hose Tail/Barb
525T8	1/2 Hose Tail/Barb

**European/Cejn Style Adaptors/Plugs**

50M2	1/8 Male Thread
50M4	1/4 Male Thread
50M6	3/8 Male Thread
50M8	1/2 Male Thread
50F2	1/8 Female Thread
50F4	1/4 Female Thread
50F6	3/8 Female Thread
50F8	1/2 Female Thread
50T4	1/4 Hose Tail/Barb
50T5	5/16 Hose Tail/Barb
50T6	3/8 Hose Tail/Barb
50T8	1/2 Hose Tail/Barb

**No. 2 Choice  
Japanese Style  
60CFM**



**“Auto” High Volume Couplings - interchangeable with Nitto equivalent**

A20SM	1/4 Male thread
A30SM	3/8 Male thread
A40SM	1/2 Male thread
A20SF	1/4 Female thread
A30SF	3/8 Female thread
A40SF	1/2 Female thread
A20SH	1/4 Hose tail/barb
A25SH	5/16 Hose tail/barb
A30SH	3/8 Hose tail/barb
A40SH	1/2 Hose tail/barb

**High Volume Adaptors/Plugs - interchangeable with Nitto equivalent**

20PM	1/4 Male thread
30PM	3/8 Male thread
40PM	1/2 Male thread
20PF	1/4 Female thread
30PF	3/8 Female thread
40PF	1/2 Female thread
40SFL	Schrader Female thread
20PH	1/4 Hose tail/barb
25PH	5/16 Hose tail/barb
30PH	3/8 Hose tail/barb
40PH	1/2 Hose tail/barb
SA20PM	1/4 Male thread <b>swivel adaptor</b>

**High Volume Couplings - interchangeable with Nitto equivalent**

20SM	1/4 Male thread
30SM	3/8 Male thread
40SM	1/2 Male thread
20SF	1/4 Female thread
30SF	3/8 Female thread
40SF	1/2 Female thread
20SH	1/4 Hose tail/barb
30SH	3/8 Hose tail/barb
40SH	1/2 Hose tail/barb



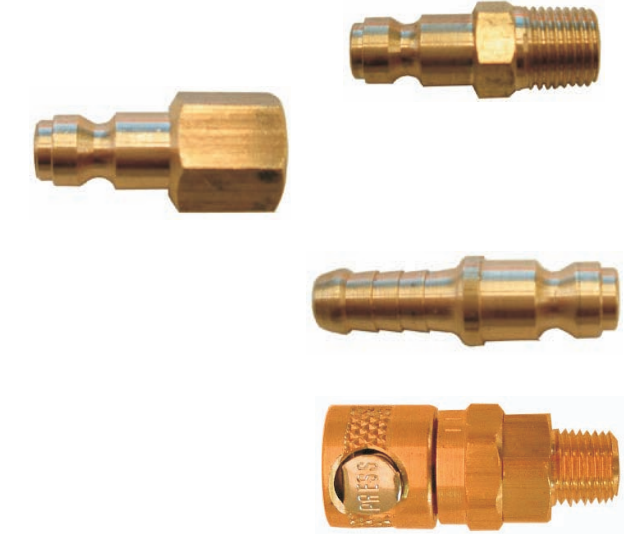
**No. 4 Choice**  
Stainless balls & spring  
35CFM

**Ryco 200/Jp 900 Interchangeable Style Couplings**

201	1/4 Male Thread
244	3/8 Male Thread
200	1/4 Female Thread
243	3/8 Female Thread
245	1/4 Hose Tail/Barb
240	5/16 Hose Tail/Barb
241	3/8 Hose Tail/Barb

**Ryco 200/Jp 900 Interchangeable Style Adaptors/Plugs**

202S	1/4 Male Steel thread
202	1/4 Male Brass Thread
251S	3/8 Male Steel Thread
252S	1/2 Male Thread
203S	1/4 Female Steel Thread
203	1/4 Female Brass Thread
205	1/4 Hose Tail/Barb
206	5/16 Hose Tail/Barb
206AS	3/8 Hose Tail/Barb
254S	1/2 Hose Tail/Barb



**Australian Style Couplings - Interchangeable with 310 series**

310M4	1/4 Male thread
310M6	3/8 Male thread
310M8	1/2 Male thread
310F4	1/4 Female thread
310F6	3/8 Female thread
310F8	1/2 Female thread
310TWT	Twin coupling 1/4 Female thread
310T4	1/4 Hose tail/barb
310T5	5/16 Hose tail/barb
310T6	3/8 Hose tail/barb
310T8	1/2 Hose tail/ barb

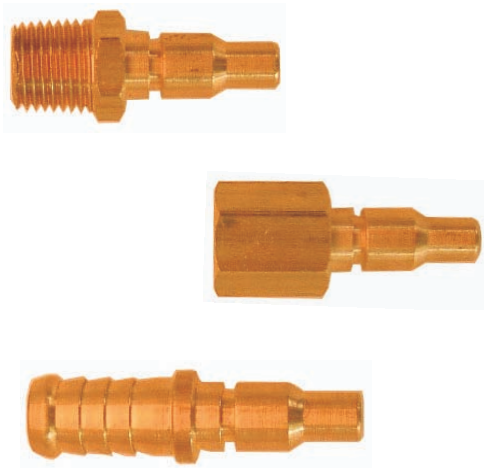


Suitable to maintain  
old airlines only.  
Not recommended for  
new airlines.

The 310/320 series have extremely  
low air flow rate at around 25CFM.

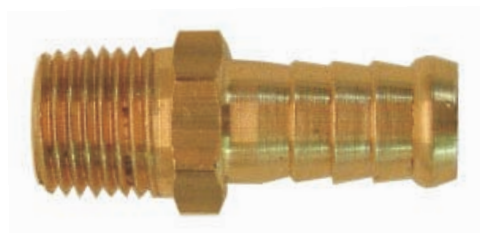
**Australian Style Adaptors - Interchangeable with 310 series**

31M2	1/8 Male thread
31M2S	1/8 Male thread - Steel
31M4	1/4 Male Thread
31M4S	1/4 Male thread - Steel
31M6	3/8 Male thread
31F2	1/8 Female thread
31F4	1/4 Female thread
31F4S	1/4 Female thread - Steel
31F6	3/8 Female thread
31T3	3/16 Hose tail/barb
31T4	1/4 Hose tail/barb
31T5	5/16 Hose tail/barb
31T6	3/8 Hose tail/barb
31T8	1/2 Hose tail/barb

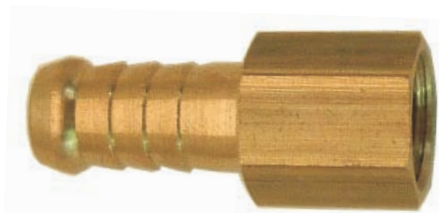


**Double Ended Tails - Hose Joiners**

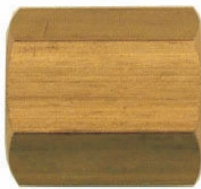
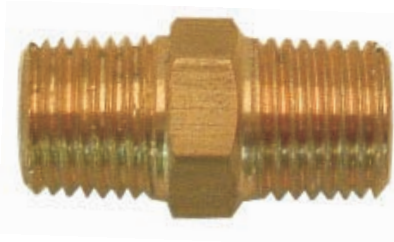
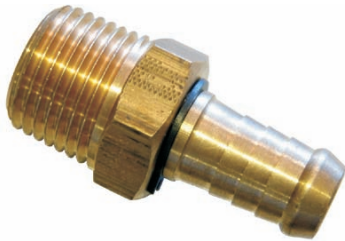
Part No.	
3DET	3/16 Hose
4DET	1/4 Hose
5DET	5/16 Hose
6DET	3/8 Hose
8DET	1/2 Hose
10DET	5/8 Hose
12DET	3/4 Hose
16DET	1 Hose

**Male Tailpieces**

3TM2	3/16 Hose to 1/8 Male
3TM4	3/16 Hose to 1/4 Male
4TM2	1/4 Hose to 1/8 Male
4TM4	1/4 Hose to 1/4 Male
4TM6	1/4 Hose to 3/8 Male
4TM8	1/4 hose to 1/2 Male
5TM2	5/16 hose to 1/8 Male
5TM4	5/16 Hose to 1/4 Male
5TM6	5/16 Hose to 3/8 Male
5TM8	5/16 Hose to 1/2 Male
6TM2	3/8 Hose to 1/8 Male
6TM4	3/8 Hose to 1/4 Male
6TM6	3/8 Hose to 3/8 Male
6TM8	3/8 Hose to 1/2 Male
8TM2	1/2 Hose to 1/8 Male
8TM4	1/2 Hose to 1/4 Male
8TM6	1/2 Hose to 3/8 Male
8TM8	1/2 Hose to 1/2 Male
8TM12	1/2 Hose to 3/4 Male
10TM6	5/8 Hose to 3/8 Male
10TM8	5/8 Hose to 1/2 Male
12TM6	3/4 Hose to 3/8 Male
12TM8	3/4 Hose to 1/2 Male
12TM12	3/4 Hose to 3/4 Male
12TM16	3/4 Hose to 1 Male
16TM12	1 Hose to 3/4 Male
16TM16	1 Hose to 1 Male

**Female Tailpieces**

3TF2	3/16 Hose to 1/8 Female
3TF4	3/16 Hose to 1/4 Female
4TF2	1/4 Hose to 1/8 Female
4TF4	1/4 Hose to 1/4 Female
4TF6	1/4 Hose to 3/8 Female
4TF8	1/4 Hose to 1/2 Female
5TF2	5/16 Hose to 1/8 Female
5TF4	5/16 Hose to 1/4 Female
5TF6	5/16 Hose to 3/8 Female
5TF8	5/16 hose to 1/2 Female
6TF2	3/8 Hose to 1/8 Female
6TF4	3/8 Hose to 1/4 Female
6TF6	3/8 Hose to 3/8 Female
6TF8	3/8 Hose to 1/2 Female
8TF4	1/2 Hose to 1/4 Female
8TF6	1/2 Hose to 3/8 Female
8TF8	1/2 Hose to 1/2 Female

**Female Nut and Tails****Part No.**

3TN2	3/16 hose to 1/8 Female
3TN4	3/16 Hose to 1/4 Female
4TN4	1/4 Hose to 1/4 Female
4TN6	1/4 Hose to 3/8 Female
5TN4	5/16 Hose to 1/4 Female
5TN6	5/16 hose to 3/8 Female
6TN4	3/8 Hose to 1/4 Female
6TN6	3/8 Hose to 3/8 Female
6TN8	3/8 Hose to 1/2 Female
8TN6	1/2 Hose to 3/8 Female
8TN8	1/2 Hose to 1/2 Female
12TN12	3/4 Hose to 3/4 Female
16TN16	1 Hose to 1 Female

**Swivel Male Tailpieces**

S4TM4	1/4 Hose to 1/4 Male
S6TM4	3/8 Hose to 1/4 Male
S8TM8	1/2 Hose to 1/2 Male

**Hexagon Male Nipples**

HN2	1/8 x 1/8
HN4	1/4 x 1/4
HN6	3/8 x 3/8
HN8	1/2 x 1/2
HN12	3/4 x 3/4
HN16	1 x 1
HN4X2	1/4 x 1/8
HN6X4	3/8 x 1/4
HN8X4	1/2 x 1/4
HN8X6	1/2 x 3/8
HN12X8	3/4 x 1/2

**Sleeves/Sockets**

31202	1/8 Female
31204	1/4 Female
31206	3/8 Female
31208	1/2 Female
RS4X2	1/4 x 1/8 Female
RS6X2	3/8 x 1/8 Female
RS6X4	3/8 x 1/4 Female
RS8X2	1/2 x 1/8 Female
RS8X4	1/2 x 1/4 Female
RS8X6	1/2 x 3/8 Female

**Plugs**

HP2	1/8 Male
HP4	1/4 Male
HP6	3/8 Male
HP8	1/2 Male
HP12	3/4 Male



### Reducing Bushes

RB4X2	1/4 Male x 1/8 Female
RB6X2	3/8 Male x 1/8 Female
RB6X4	3/8 Male x 1/4 Female
RB8X2	1/2 Male x 1/8 Female
RB8X4	1/2 Male x 1/4 Female
RB8X6	1/2 Male x 3/8 Female
RB12X4	3/4 Male x 1/4 Female
RB12X6	3/4 Male x 3/8 Female
RB12X8	3/4 Male x 1/2 Female

### Female/Male Adaptor

FM4X2	1/4 Female to 1/8 Male
FM6X4	3/8 Female to 1/4 Male
FM8X6	1/2 Female to 3/8 Male

### Tees - 1 Male Thread to 2 Hose Tail

T4TM4	1/4 Male x 1/4 Hose
T5TM4	1/4 Male x 5/16 Hose
T6TM4	1/4 Male x 3/8 Hose
T6TM6	3/8 male x 3/8 Hose
T8TM4	1/4 Male x 3/8 Hose
T8TM6	3/8 Male x 1/2 Hose
T6TM8	1/2 Male x 3/8 Hose
T8TM8	1/2 Male x 1/2 Hose

### Tees - 3 way Hose Tail

BT4	1/4 Hose
BT5	5/16 Hose
BT6	3/8 Hose
BT8	1/2 Hose

### Tees - 1 Male to 2 Female Threads

MFT4X4	1/4 Thread
MFT8X8	1/2 Thread

### Elbow - 1 Male Thread to 1 Hose Tail

E4TM4	1/4 Male x 1/4 Hose
E5TM4	1/4 Male x 5/16 Hose
E6TM4	1/4 Male x 3/8 Hose
E6TM6	3/8 Male x 3/8 Hose
E8TM4	1/4 Male x 1/2 Hose
E8TM6	3/8 Male x 1/2 hose
E6TM8	1/2 Male x 3/8 Hose
E8TM8	1/2 Male x 1/2 Hose

### Elbows - Male/Female Threaded

MFE4X4	1/4 Thread
MFE8X8	1/2 Thread

### Y Piece

Y2	1/8 Female 3 way
Y4	1/4 Female 3 way

### Self Store Hose Fittings

SS4M4	1/4 Hose x 1/4 Male thread
SS6M4	3/8 Hose x 1/4 Male thread
SS6M6	3/8 Hose x 3/8 Male thread
SS8M8	1/2 Hose x 1/2 Male thread
SS12M12	3/4 Hose x 3/4 Male thread

# MARKALINE

## Air Tool Tips

1. Lubricate tools daily with a suitable **MARKALINE** lubricant. (Use Air tool oil for air tools, Nail gun oil for nail guns and Compressor oil for compressors)
2. Drain moisture from filters, airlines and compressors daily.
3. At the completion of daily use put 2 to 3 drops of tool oil into tool inlet and run tool briefly. This will protect against rust whilst sitting idle for long periods.
4. Check tools, air hoses and connections for dirt and leaks before operation. Dust in the air and moisture in airlines when mixed together will create a grinding compound type of effect and cause internal motor damage to tools.
5. Install an in line filter and lubricator of a suitable size that will avoid a volume flow drop. We recommend a 1/2 BSP thread size.
6. Maintain maximum recommended air pressure while running tool. In most cases 90 psi is the recommended air pressure with the exception to Spray guns which will vary considerably. This recommended air pressure must be measured at the tool inlet and it must be remembered that there will be air pressure drop between the tool and compressor. If tools are operated at higher than recommended air pressure the life of the tool will be shortened. This will be most evident with impact wrenches where the hammer mechanism is hitting substantially harder.
7. Use a minimum of 10mm I.D. air hose.
8. Use **MARKALINE** 525 series high volume couplings and adaptors for optimum results. (100 CFM @ 90 PSI) Many other brands only deliver around 25 CFM @ 90 PSI.
9. Low volume and low air pressure will cause tools to operate well below requirements and can also cause tools and compressors to choke and cause unnecessary damage which will not be covered by warranties.
10. Service tools regular and replace parts to extend the life of the tool.
11. Store in a clean dry environment.
12. To extend the life of tools and connectors fit a leader hose to the tool inlet between tool and coupling. This is most important with reciprocating or hammer action type tools. (e.g. Impact wrenches, nail guns, saws, riveters, chisel and needle guns). This prevents couplings to be blown apart in a very short period.
13. When using accessories make sure rated speed for accessories is equal or greater than the tools speed. (e.g. Sanding pads, sockets, grinding discs, carbide burrs etc.)
14. Impact wrench advertised torque specifications are not necessarily the same as what you would read by carrying out a comparison using a calibrated torque wrench. There are many variables that effect the performance of an air impact wrench. Some of the reasons for torque drop off follows. The actual compressor CFM, air hose size, type of connectors used, length of piping between compressor and tool inlet, age and condition of compressor and tool, just to mention a few areas to consider.
15. Safety: Always wear safety glasses, suitable clothing, ear protection, respirators.  
Always turn off air supply before breaking connections and carrying out maintenance on the airline.

### Warranty

MARKALINE Air Tool products are warranted for 3 months from date of sale. The warranty covers faulty workmanship and materials only. **This warranty does not include wearing parts or accessories such as chisels, chucks & keys, collets, retaining springs, blades, pads, sockets, air couplings & adaptors etc.**

Products which are being claimed for warranty are to be returned to Active Industrial Agencies Pty Ltd freight prepaid with adequate proof of purchase and details relating to the relevant problem being experienced. Warranty does not apply to products that have been abused, misused or modified. Active Industrial Agencies Pty Ltd sole liability under this warranty is limited to the repair or replacement of the defective product. The decision to repair or replace remains solely at the discretion of Active Industrial Agencies Pty Ltd only. The repairs or replacements are warranted as above for the remainder of the original warranty.

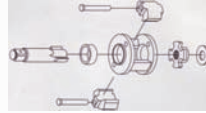
Please refer to the above Air Tool Tips before returning any product for a claim.



**Impact Wrenches**

Part No.	Drive	Torque Ft/Lb	Average Air Consumption	Weight
IW38B	3/8"	75	2-1/2cfm	2-1/8lbs

Butterfly palm impact wrench with single hammer.



IW38P	3/8"	125	4cfm	3lbs
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Pistol grip impact wrench with double hammer.

IW12PLD	1/2"	250	4cfm	5lbs
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Pistol grip **light duty workshop** impact wrench with pin clutch. Same wrench as supplied in IW12PK kit.



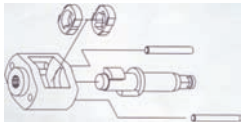
IW12PGP	1/2"	350	4cfm	5-1/2lbs
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Standard length anvil pistol grip general purpose workshop impact wrench with pin clutch.



IW12PGP2	1/2"	350	4cfm	5-1/2lbs
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With 2" anvil.



**The Tyre Fitters Choice**

IW12PHD	1/2"	400	4cfm	5-3/4lbs
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Standard length anvil pistol grip heavy duty impact wrench with twin hammer.

IW12PHD2	1/2"	400	4cfm	5-3/4lbs
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With 2" anvil.



**Wheel Nut Torque Bars - Used with IW12PHD Impact Wrench**

TB65G	1/2" drive Male/Female x 65Ft/Lb	Green
TB80Y	1/2" drive Male/Female x 80Ft/Lb	Yellow
TB100B	1/2" drive Male/Female x 100Ft/Lb	Blue

Minimum 10mm air hose recommended for 1/2" drive and smaller Impact wrenches and all other small air tools. P/No. WH600 - 600mm Whip/leader hose is recommended on all Impact wrenches to be placed between air tool inlet and end of airline to minimize coupling damage.



IW12PK	1/2"	16 piece kit comprises:		
		10 - 1/2 drive impact sockets 9-27mm		
		1 - 5" extension		
		1 - mini oiler		
		1 - oil pot		
		1 - adaptor		
		1 - blow moulded case		
		1 - IW12PLD 1/2" Impact wrench		

1/2" Air Hose recommended for 3/4" drive and larger impact Wrenches.

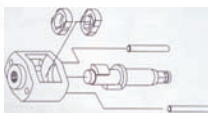


**Impact Wrenches**

Part No.	Drive	Torque Ft/Lb	Average Air Consumption	Weight
IW34PGP	3/4"	500	7cfm	11lbs

Pistol grip general purpose workshop wrench with single hammer.

**High Torque Range.  
Suitable for Trucks & General Mining Use**



IW34PHD	3/4"	1000	7cfm	11lbs
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Pistol grip heavy duty wrench with standard length anvil & twin hammer.

IW34PHD8	3/4"	1000	7cfm	13lbs
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Pistol grip heavy duty wrench with long anvil & twin hammer.

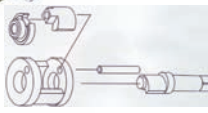


IW1P	1"	1900	12cfm	23lbs
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Pistol grip heavy duty wrench with standard length anvil & pin clutch.

IW1P8	1"	1900	12cfm	25lbs
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Pistol grip heavy duty wrench with long anvil & pin clutch.

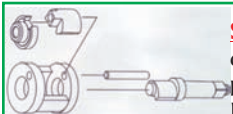


IW1BH	1"	2400	12cfm	35-3/4lbs
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Back handle heavy duty wrench with standard length anvil & single hammer.

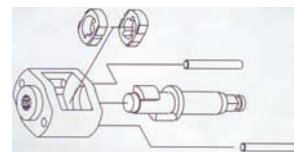
IW1BH8	1"	2400	12cfm	35-3/4lbs
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Back handle heavy duty wrench with long anvil & single hammer.

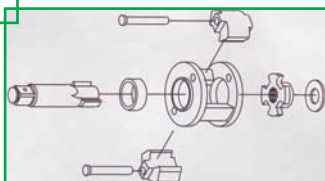
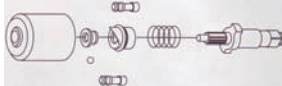


**Single Hammer:** This hammer mechanism provides one blow per revolution. This means greater hitting power, longer life and easy maintenance. Recommended for medium use.

**Twin Hammer:** This hammer mechanism has 2 identical hammers that deliver an instantaneous balanced blow, reducing vibration and transferring more torque to drive the end of the anvil than any other mechanism. The most durable of hammer designs and excellent in heavy duty use.



**Pin Clutch:** This hammer mechanism has a rotating action in which the round hammer pins move up & down, engaging the anvil & producing a powerful impact. It produces higher torque with minimum vibration. Recommended for light use.



**Double Hammer:** This is similar to the single hammer except it has 2 counter balanced hammers which hit twice per revolution resulting in less vibration and less operator fatigue.

**Ratchet Wrenches**

Part No.	Drive	Torque	Average Air Consumption	Weight
RW14S	1/4"	18Ft/Lb	3cfm	1-1/8Lb
Stubby 7" long wrench				
RW38S	3/8"	18Ft/Lb	3cfm	1-1/8Lb
Stubby 7" long wrench				



RW38	3/8"	65Ft/Lb	4cfm	2-5/8Lb
RW12	1/2"	65Ft/Lb	4cfm	2-5/8Lb

Heavy duty 10-1/2" long wrenches with an extremely strong planetary gear box.



**Screwdriver**

SD14P	1/4"	45-115in/lb	10cfm	2-1/2Lb
Pistol grip 1800 rpm 8-1/2" long.				

TB14



**Tyre Buffer**

TB14	2200 rpm	6" long	5 cfm	1-3/8Lb
TB14S	4000 rpm	6" long	4 cfm	1-7/8Lb

TB14S



DG14K



DG14



**Die Grinders - with rear exhaust**

	Collet size	RPM		
DG14	1/4"	22000	4cfm	1Lb
DG14K	1/4"	22000	4cfm	1Lb
Kit comprises: 1/4" Die grinder Grinding stones Air adaptor Blow moulded case.				

**Die Grinders - with rear exhaust**

Part No.	Collet Size	RPM	Average Air Consumption	Weight
DG14AH	1/4"	22000	3 cfm	1-1/8Lb

90° Angle head 5-3/4" long.



DG14ES	1/4"	25000	3 cfm	1-1/2 Lb
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5" extended shaft industrial mini die grinder with rear exhaust.



DG18M	1/8"	56000	2 cfm	3/4 Lb
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Micro industrial 7-1/2" die grinder with muffler tube.



**Angle Grinders**

**To be used with depressed centre grinding discs & wire wheels only.**

AG4	4"	11000	6cfm	4-1/2Lbs
-----	----	-------	------	----------

Industrial 9" long grinder with lever throttle & M10x1.5 thread.



AG5	5"	11000	6cfm	4-1/2Lbs
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Industrial 9" long grinder with lever throttle & M10x1.5 thread.

AG7	7"	4500	12cfm	6-1/2Lbs
-----	----	------	-------	----------

Industrial 16" long grinder with lever throttle & M14x2 thread





### Sander

Part No.	Size	RPM	Average Air Consumption	Weight
S6DA	6"	10000	6 cfm	4 Lbs

Dual action 8-3/4" long sander complete with 5/16-24 male threaded pad.



S7RA	7"	5000	10 cfm	5-1/2
------	----	------	--------	-------

Right angle heavy duty sander 13" long with M14x2 female threaded backing pad.



### Drills

D38R	3/8"	1800	4 cfm	2-1/2 Lbs
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Heavy duty 7-7/8" long pistol drill with reverse & extremely strong planetary gear box. Male shaft thread 3/8-24.



D12R	1/2"	450	4 cfm	3 Lbs
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Heavy duty 8-3/4" long pistol drill with side handle, reverse & extremely strong planetary gear box. Male shaft thread 3/8-24.



### Riveter

R316	3/16"	4.5 cfm	3-1/2Lbs
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Hydraulic air riveter suitable for steel rivets up to 3/16"



### Saw

S116	1.6mm	4 cfm	1-1/4Lbs
------	-------	-------	----------

10000 bpm 10" long saw with a 10mm stroke.



### Chisel Gun

Part No.	Size	Average Air Consumption	Weight
CGK	10mm shank	10 cfm	3-1/2 Lbs

Kit comprises:  
 Chisel gun 190mm long 3800 bpm  
 Chisel retaining spring  
 4 Chisels



### Needle Gun

#### Straight

NGS12B 4 cfm 3 Lbs  
 supplied with 12 x 3mm needles. **Light use.**

NGS23 5 cfm 5 Lbs  
 supplied with 19 x 3mm needles. **Light use.**

#### Pistol Grip

NGPG23B 5 cfm 5-1/2 Lbs  
 Supplied with 19 x 3mm needles. **Light use.**



NGPG34B 6 cfm 7-1/2 Lbs  
 Supplied with 28 x 3mm needles. **Medium use.**

NGPG45B 10 cfm 10 Lbs  
 Supplied with 49 x 3mm needles. **Heavy use.**



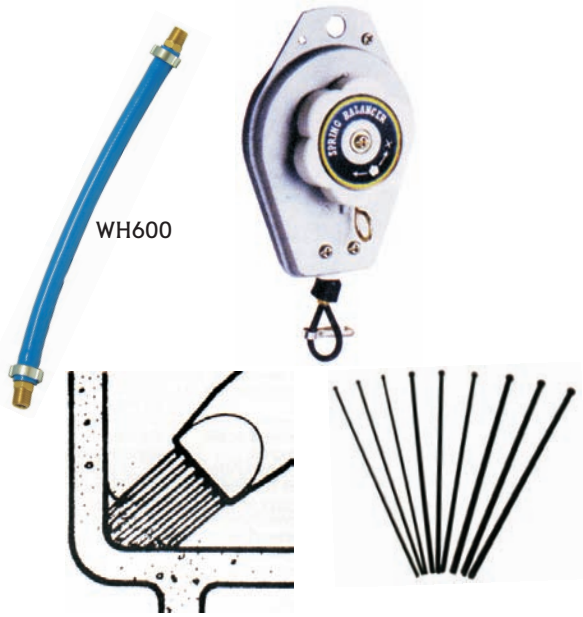
### Needle Gun Kit

Made in Switzerland

AT2K 5 cfm 5-1/2 Lbs

Extra heavy duty needle and chisel gun.  
 Suitable for derusting, descaling, weld slag removal, stress relieving, paint stripping etc.

Kit comprises:  
 Safety lever throttle needle gun with 3mm needles  
 Chisel attachment  
 2mm & 4mm needles  
 2mm & 4mm needle holder  
 3 Chisels  
 Oil bottle  
 Strong plastic case



**Spring Balancer**

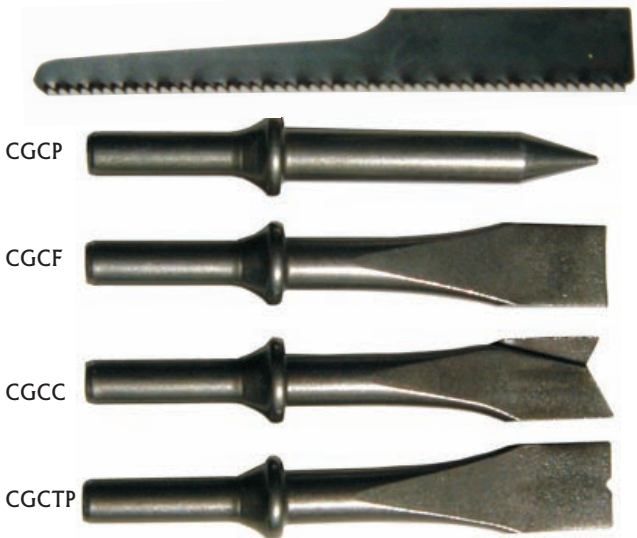
Part No. SB 1.2 to 2Kg capacity with 1.5me cable.

**Whip Hose**

WH600 600mm whip hose with 1/4BSP male threads. Essential for use with Impact Wrenches, Needle & Chisel guns and Saws.

**Descaling Needles**

C2 2mm suits most brands 180mm long flat point.  
 C3C 3mm suits most brands 180mm long chisel point.  
 C4C 4mm suits most brands 180mm long chisel point.



**Air Saw Blades**

SB10 Saw Blade 10 TPI suit wood/urethane.  
 SB24 Saw blade 24 TPI suit Aluminium.  
 SB32 Saw Blade 32 TPI suit Steel.

**Chisel Gun Accessories - 10mm diameter shank**

CGCTP Tail pipe cutting chisel 19mm  
 CGCC Cutting chisel 19mm  
 CGCF Flat Chisel 19mm  
 CGCP Pointed punch chisel.  
 CGRS Retaining spring to suit chisels.



**Collets and Jaws**

R31604 Jaws to suit R316 Riveter.  
 DGC18 1/8" Collet to suit DG14 Die Grinder.  
 DGC14 1/4" Collet to suit DG14 Die Grinder.  
 DGC3 3mm Collet to suit DG14 Die Grinder.  
 DGC6 6mm Collet to suit DG14 Die Grinder.

**Sander Pads**

DASP6 150mm stick on type to suit S6DA sander. 5/16-24 male thread.  
 RASP7 178mm to suit S7RA sander. M14x2 female thread.  
 RASP758 178mm black backing pad with 5/8-11 female thread.





**Drill Chucks - Keyed**

**Light Duty - Recommended for Cordless tools**

- C1024LD 10mm capacity 3/8x24 female thread.
- C1020LD 10mm capacity 1/2x20 female thread.
- C1324LD 13mm capacity 3/8x24 female thread.
- C1320LD 13mm capacity 1/2x20 female thread.

**Heavy Duty**

- C1024HD 10mm capacity 3/8x24 female thread.
- C1020HD 10mm capacity 1/2x20 female thread.
- C1324HD 13mm capacity 3/8x24 female thread.
- C1320HD 13mm capacity 1/2x20 female thread.

**Drill Chucks - Keyless**

- C1024KL 10mm capacity 3/8x24 female thread.
- C1020KL 10mm capacity 1/2x20 female thread.
- C1324KL 13mm capacity 3/8x24 female thread.
- C1320KL 13mm capacity 1/2x20 female thread.

**Torque Meter**

P/No. TM1000

Ideal for checking torque for Impact wrenches & torque wrenches up to 1000ft/lb.

38mm hex drive hydraulic machine with liquid filled 3500 PSI 250 KG/CM<sup>2</sup> pressure gauge.

**Recommended Air Tool Connection - Compressor Hook Up**

**“Always use a good quality thread sealant on all threads”**





Compressor Oil

**Air Compressor Oil - 68 Viscosity**

Part No.

ACO250	250ml Bottle	10bts/ctn
ACO500	500ml Bottle	10bts/ctn
ACO1	1 Litre Bottle	5bts/ctn
ACO4	4 Litre Bottle	5bts/ctn
ACO20	20 Litre Drum	

**Air Tool Oil - 32 Viscosity**



Air Tool Oil

ATO250	250ml Bottle	10bts/ctn
ATO500	500ml Bottle	10bts/ctn
ATO1	1 Litre Bottle	5bts/ctn
ATO4	4 Litre Bottle	5bts/ctn
ATO20	20 Litre Drum	

**Jack Oil - 32 Viscosity**



Jack Oil

JO250	250ml Bottle	10bts/ctn
JO500	500ml Bottle	10bts/ctn
JO1	1 Litre Bottle	5bts/ctn
JO4	4 Litre Bottle	5bts/ctn
JO20	20 Litre Drum	

**Soluble Cutting Oil**



Soluble Cutting Oil

SCO250	250ml Bottle	10bts/ctn
SCO500	500ml Bottle	10bts/ctn
SCO1	1 Litre Bottle	5bts/ctn
SCO4	4 Litre Bottle	5bts/ctn
SCO20	20 Litre Drum	

**Nail Gun Oil - 100 Viscosity**



Nailer Oil

NGO250	250ml Bottles	10bts/ctn
NGO500	500ml Bottles	10bts/ctn
NGO1	1 Litre Bottles	5bts/ctn
NGO4	4 Litre Bottles	5bts/ctn
NGO20	20 Litre Drum	



## Wire Brush Tips

- 1 All **MARKALINE** brushes should be inspected before being used. Do not use brushes that are rusted or damaged.
- 2 **MARKALINE** brushes should not be exposed to heat, excessive humidity, fumes, acids or liquids that can result in the deterioration of wire filaments and lead to failure of the wire.
- 3 Maximum safe free speeds is the maximum RPM at which a wire brush should be operated at before applying work.
- 4 A **MARKALINE** wire brush is at its best when operated as near to the maximum operating speed with light pressure so that the tips of the bristles are making contact with the work. Excessive pressure will cause the bristles to bend and result in a wiping action rather than a cutting action. It also causes excess flexing which in turn causes wire breakage and will shorten the life of the brush.
- 5 Occasionally a **MARKALINE** wire brush will need conditioning. Periodically reversing the direction of brush rotation will maintain brush efficiency by a self sharpening action and increase brush life.
- 6 Check machine condition occasionally. It is essential that spindle speeds are maintained and the motor is not losing power while in operation.
- 7 **MARKALINE** Crimped wire brushes are made from hard drawn, high carbon steel. Used for light surface treatment and deburring operations.
- 8 **MARKALINE** Twist knot wire brushes are made from oil hardened and tempered high carbon steel. Used for extremely demanding applications. These are extremely aggressive and normally used for cleaning weld seams.
- 9 Always wear protective equipment when using **MARKALINE** wire brushes. Provide sufficient ventilation and extractors in dry dusty and toxic operations.
- 10 **MARKALINE** wire brushes are cutting tools. Always use with extreme care.
- 11 Follow the manufacturers safety precautions when operating machinery.



### Crimped Wire Wheel

Part Number	Diameter	Width	Mount	Wire Size	Wire Type	Max RPM
4152	150 <sub>mm</sub>	20 <sub>mm</sub>	Multi	.4mm	Steel	6000
4153	150	27	Multi	.4mm	Steel	6000
4202	200	18	Multi	.4mm	Steel	4500
4203	200	23	Multi	.4mm	Steel	4500
6203	200	30	Multi	.4mm	Steel	4500

### Stainless 316

4152SS	150	20	Multi	.4mm	Stainless 316	6000
4153SS	150	27	Multi	.4mm	Stainless 316	6000
4203SS	200	23	Multi	.4mm	Stainless 316	4500
6203SS	200	30	Multi	.4mm	Stainless 316	4500



### Crimped Wire Cup Brush with fixed thread

T8003	75	14x2	.3mm	Steel	11000
T100	100	14x2	.3mm	Steel	8500

### Stainless 316

CCB75SS	75	14x2	.3mm	Stainless 316	11000
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### Crimped Bevel Brush with fixed thread

CBB95	95	14x2	.3mm	Steel	12500
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### Twist Knot Wire Wheel 30 Knot

15780	125	1 row	7/8"	.5mm	Steel	12000
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### Stainless 316

15782	125	1 row	7/8"	.5mm	Stainless 316	12000
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### Twist Knot Wire Cup Brush with fixed thread

TU7101	75	10x1.25	.4mm	Steel	11000
TU7102	75	10x1.5	.4mm	Steel	11000
TU7103	75	14x2.0	.4mm	Steel	11000
TU101	100	14x2.0	.5mm	Steel	8500
TU131	125	14x2.0	.5mm	Steel	6500

### Stainless 316

TCB75SS	75	14x2.0	.5mm	Stainless 316	11000
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### Twist Knot Bevel Brush with fixed thread

TBB95	95	14x2.0	.5mm	Steel	7000
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### Crimped Wire Cup Brush Mounted Shaft

Part No.	Diameter	Mount	Wire Size	Wire Type	Max RPM
BT50	50	1/4"	.3mm	Steel	7500
BT60	60	1/4"	.3mm	Steel	6000
BT75	75	1/4"	.3mm	Steel	4500



### Crimped Wire Wheel Mounted Shaft

BG30	30	1/4"	.3mm	Steel	20000
BG50	50	1/4"	.3mm	Steel	15000
BG75	75	1/4"	.3mm	Steel	15000
BG100	100	1/4"	.3mm	Steel	4500



### Twist Knot Wire Wheel Mounted Shaft

TW70	70	1/4"	.5mm	Steel	20000
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### Crimped Wire End Brush Mounted Shaft

EB13	13	1/4"	.3mm	Steel	20000
EB20	20	1/4"	.3mm	Steel	20000
EB25	25	1/4"	.3mm	Steel	20000



### Twist Knot End Brush Mounted Shaft - Stainless 316

TEB20	20mm	1/4"	stainless 316	20000
TEB30	30mm	1/4"	stainless 316	20000

The TEB series are only made against firm orders for large manufacturing runs.



### Mounted Brush set on stand

WBS6 Consists of EB13, EB20, EB25, BT50, BG50, TW70



### Plastic Wheel Reducing Bushes

PRB134	1 to 3/4"
PRB3458	3/4 to 5/8"
PRB5812	5/8 to 1/2"



### Handbrush-Timber Long Handled

**Timber handles won't melt and burn your hands.**

Part No.		
13190	Steel 3 Row	.35mm wire
14190	Steel 4 Row	.35mm wire
15190	Steel 5 Row	.35mm wire

13192	316 Stainless 3 Row	.35mm wire
14192	316 Stainless 4 Row	.35mm wire

13195	Brass 3 Row	.30mm wire
14195	Brass 4 Row	.30mm wire

### Handbrush-Timber Sword Handled

13150	Steel 3 Row	.35mm wire
14150	Steel 4 Row	.35mm wire
15150	Steel 5 Row	.35mm wire

### Handbrush-Timber Shoe Handled

13160	Steel 3 Row	.35mm wire
14160	Steel 4 Row	.35mm wire

### Handbrush - Universal - Plastic Handled

10010	Steel	.27mm wire
10012	Stainless Steel	.27mm wire
10015	Brass	.27mm wire

All Wire Handbrushes  
are sold in pack quantities  
of 12 pieces per pack

### File Card

**The only way to clean those dirty files and rasps.**

10065	100x50mm bristle	230mm overall
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### Disposable Paint Brush with Plain Wooden Handle - Pure Bristle Suitable for Fibreglass resins etc.

DPB13	13mm
DPB25	25mm
DPB40	40mm
DPB50	50mm
DPB75	75mm
DPB100	100mm

All Disposable Paint Brushes  
are sold in pack quantities of  
12 pieces per pack

**No further need to step down backwards again with this compact to store folding staircase.**



**Jumbo Safety Steps - Anodised Aluminium**

Meets (ILMAC) International Ladder Manufacturers Convention Standards & AS/NZS 1892.1

**Without Safety Rail**

Part No.	Steps	Top Step Height	Weight
STEP2	2	470mm	4.5kg
STEP3	3	700mm	6.5kg
STEP4	4	930mm	8.0kg
STEP5	5	1160mm	10.0kg

**The safety rail adds security to prevent stepping off the top step.**



**Jumbo Safety Steps - Anodised Aluminium**

**With Safety Rail**

STEP3R	3	700mm	8.0kg
STEP4R	4	930mm	10.0kg

The MARKALINE Jumbo Step with staircase similarities makes those hard to reach places so much easier & safer to get to. Complete with 235mm x 360mm easy to clean grease, fat & UV resistant (PET) foamed polyethylene closed cell no slip treads ideal for use with all styles of shoe soles and meeting international standards. All steps are supplied with non marking safety feet/shoes. All components can be recycled and each product is supplied with a Safety Manual.



**Jumbo Safety Steps - Fibreglass**

**Without Safety Rail**

STEP2F	2	470mm	4.5kg
STEP3F	3	700mm	6.5kg
STEP4F	4	930mm	8.0kg
STEP5F	5	1160mm	10.0kg

**The MARKALINE Fibreglass Safety Step is the ideal choice for the electrical contractor. Meets (ILMAC) & AS/NZS 1892.3**

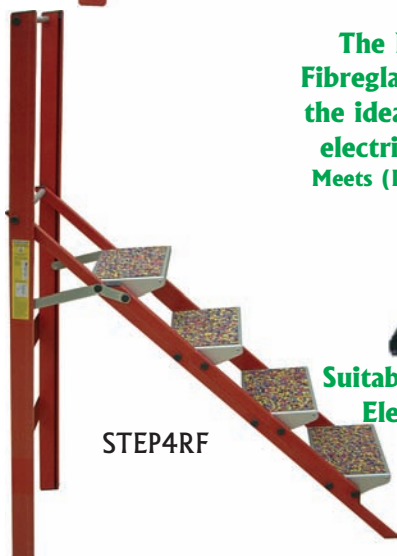
**Jumbo Safety Steps - Fibreglass**

**With Safety Rail**

STEP3RF	3	700mm	8.0kg
STEP4RF	4	930mm	10.0kg



**Suitable For General Electrical Use.**



**Places of use:**

**Aircraft Industry, Caravans, Chemical, Communication Installers, Electricians, Electronics IT), Gas, Home, Hospitals, Inspectors, Laboratories, Libraries, Maintenance, Military, Pharmaceuticals, Offices, Painters, Plumbers, Silos, Supermarkets, Tradesmen, Warehouses, Workshops.**

Double sided step can be adjusted to desired working height rung by rung. Ideal for working on staircases.



TL14

**Telescopic Jumbo Steps - Aluminium**

Part No.	Rungs	Maximum Step Height	Maximum Telescopic Height	Weight
TL14	16	200cm	420cm	12kg
TL18	20	255cm	530cm	15kg
TL22	24	310cm	640cm	19kg

One ladder substitutes a range of ladders of different working heights. Unlike multifunctional ladders The MARKALINE All Purpose Telescopic Jumbo Step has a hinge locking system to prevent closing when in use. The PVC non marking & non slip feet/shoes prevent the ladder from moving when ascending or descending.

The MARKALINE Aluminium Telescopic All Purpose Step/Extension Ladder meets (ILMAC) & AS/NZS 1892.1 and is supplied with a safety manual.

Places of use:

Airconditioning Installers, Aerial & Communication Fixers, Hospitals, Home, Inspectors, Maintenance Personnel, Painters, Plumbers, Signwriters, Tradesmen.

**Available early 2007**

**“Electrical Safe”**

**Insulated Telescopic Ladder suitable for the Electrical Contractor.**

**The fibreglass & wood alternative.**

**The fibreglass & wood alternative.**



Extension ladder adjustable to almost 4 times it's original transportable size.



TL14

By removing the inner legs & reversing the outer legs then hinging them together provides a pair of trestles with rungs at the same height.



350PP

**Yard - Council Brooms**

Part No.

350PP Polypropylene - 350mm

**Ideal for rough surfaces with wood back and reversible 1" handle fitting.**



355M

**Platform Brooms - Polypropylene**

**Strong light weight polypropylene back with soft, medium or hard filling and 1" handle fitting. Ideal for wet areas.**

**This broom will not rot or split and is resistant to oil, solvents & chemicals. Suitable for hygiene essential areas.**

		Soft	Medium	Hard
35cm	P/No. 350S		P/No. 355M	P/No. 350H
45cm	P/No. 450S		P/No. 455M	P/No. 450H
60cm	P/No. 600S		P/No. 610M	P/No. 600H



355PHC

**"The All Purpose Broom"**

**Platform Brooms - Polypropylene - Hard Centre**

**Strong light weight polypropylene back with durable stiff polypropylene centre with a soft polypropylene skirt & 1" handle fitting.**

**The best "all round" broom for smooth or rough concrete & outdoor wet areas. This broom will not rot or split and is resistant to oil, solvents & Chemicals. Suitable for hygiene essential areas.**

355PHC	355mm
455PHC	455mm
610PHC	610mm
900PHC	900mm - Wood back only



355B

White plastic end caps not included

**Platform Brooms - Bassine**

**Stiff filling for rough concrete, clay, asphalt & brick paver surfaces. With wood back & 1" reversible handle fitting.**

355B	355mm
455B	455mm
610B	610mm
900B	900mm



355HM

**Platform Brooms - Fibre Mix**

**A blend of soft fibres fitted with a wood back & 1" reversible handle fitting.**

**Ideal for smooth dusty surfaces.**

355HM	355mm
455HM	455mm
610HM	610mm
900HM	900mm

**Household Brooms**

**Ideal kitchen or smooth surfaces broom.**



Part No.  
2413

Vinyl 280mm - 22mm handle fitting



2415

Hair 300mm - 22mm handle fitting



3142

Garden Outdoor 280mm Polypropylene  
- 22mm handle fitting



**Cobweb Broom**

3200

Cobweb Broom



**Boot and Shoe Cleaner**

17337

Industrial Shoe & Boot Scrubber.  
Ideal for outside site offices, sports ground  
change rooms, golf clubs and at home.  
Safety Yellow Polypropylene Replaceable  
Bristles fitted to a Blue Frame.



**Cotton Mops**

Pure absorbent 100% cotton strands with 1" heavy duty steel handle fitting.

Part No.

CM600      600gram No.30



145105

**Timber Handles**

25 Handles per pack

22135      22 x 1350mm

25135      25 x 1350mm

25180      25 x 1800mm



145160

**Dustpans And Bannister Brushes**

223537      Plastic Dustpan & Brush set

145105      Vinyl Bannister Brush

145160      Plastic Dustpan Only



4454

4454      Coco Bannister Brush-Timber Handle



MDP

MDP      Metal Dustpan With D Handle



3011

**Scrubs**

3011      S Shape PVC Scrub with timber handle.

3322      Single Wing PVC Scrub with timber handle.

3323      Marine 250mm PVC Scrub with timber back.

4044      Deck Scrub 250mm Poly.

4490      Handled PVC Scrub.



3322



4044



4490



4461



3323

**Toilet Brush and Tidy Sets**

4461      Brush & Tidy Set

4460      Brush only

4500

4500      Brush & Tidy Set

4501      Brush only





WS450



MS600

**Floor Squeegee - Wooden**

WS450 450mm  
WS600 600mm

Use 1" diameter handle.

**Floor Squeegee - Aluminium**

MS600 600mm  
MS900 900mm

Use 1" diameter handle.



GMB



PMB

**Galvanised Mop Bucket With Metal Rollers & Castors**

GMB 16 Litre

**Stainless Mop Bucket**

SSMB 16 Litre

**Plastic Mop Bucket With Metal Rollers & Castors**

PMB 16 Litre



PB10



GB10

**Plastic Bucket With Metal Handle, Pourer & Graduations.**

PB10 10 Litre

**Galvanised Bucket**

GB10 10Litre



MAXI500

**Trigger Sprayer - Suitable For Lubricating Fluids**

MAXI500 500ml



JAR1

**Plastic Containers & Lids**

JAR1 1kg Container with screw on lid

BOTTLE250 250ml Bottle with witches hat cap  
BOTTLE500 500ml Bottle with witches hat cap



JERRY1

JERRY1 1 Litre Jerry with cap  
JERRY4 4 Litre Jerry with cap



DRUM20

DRUM20 20 Litre Drum with cap



DRUMTAP Drum tap to suit 20 Litre Drum

**Expandet Plastic Wall Plugs**

Part No.	Length	Drill size	Screw size	Pack Qty.
BLUE25	25mm	8mm	14, 1/4	500
BLUE35	35mm	8mm	14, 1/4	500
BLUE50	50mm	8mm	14, 1/4	250
GREEN25	25mm	7mm	10,12	500
GREEN30	30mm	7mm	10,12	500
GREEN35	35mm	7mm	10,12	500
GREEN50	50mm	7mm	10,12	250
GREY50	50mm	11mm	20,23,3/8	100
GREY75	75mm	11mm	20,23,3/8	100
ORANGE35	35mm	10mm	16,18,5/16	100
ORANGE50	50mm	10mm	16,18,5/16	100
ORANGE60	60mm	10mm	16,18,5/16	100
RED25	25mm	6mm	7,9	500
RED35	35mm	6mm	7,9	500
WHITE25	25mm	5mm	4,6	500
WHITE35	35mm	5mm	4,6	500
YELLOW25	25mm	4mm	1,3	500



**Advertising products**

606 MARKALINE hard copy catalogue.

PRICELIST MARKALINE MAY 2005 price list.

SCRIBBLEPAD MARKALINE A5 scribble pad.

**Promotional products available for sale**

GOLFBALL MARKALINE branded golf ball.

PEN MARKALINE branded Push button ball point pen.

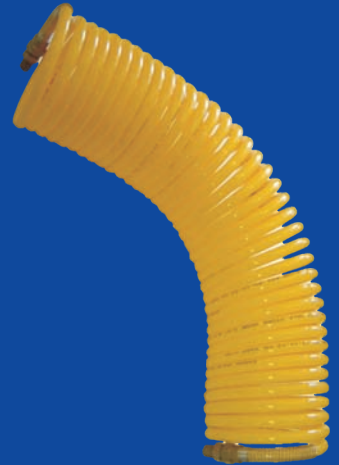
POLOSHIRT MARKALINE branded polo shirt - available in sizes M, L, XL & XXL.

CAP MARKALINE branded cap



# MARKALINE

## Professional Industrial Products



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