

DAWN TOOLS & VICES

A Division of Siddons Pty. Ltd.

1 NORRIS STREET, NORTH COBURG, VICTORIA 3058 AUSTRALIA

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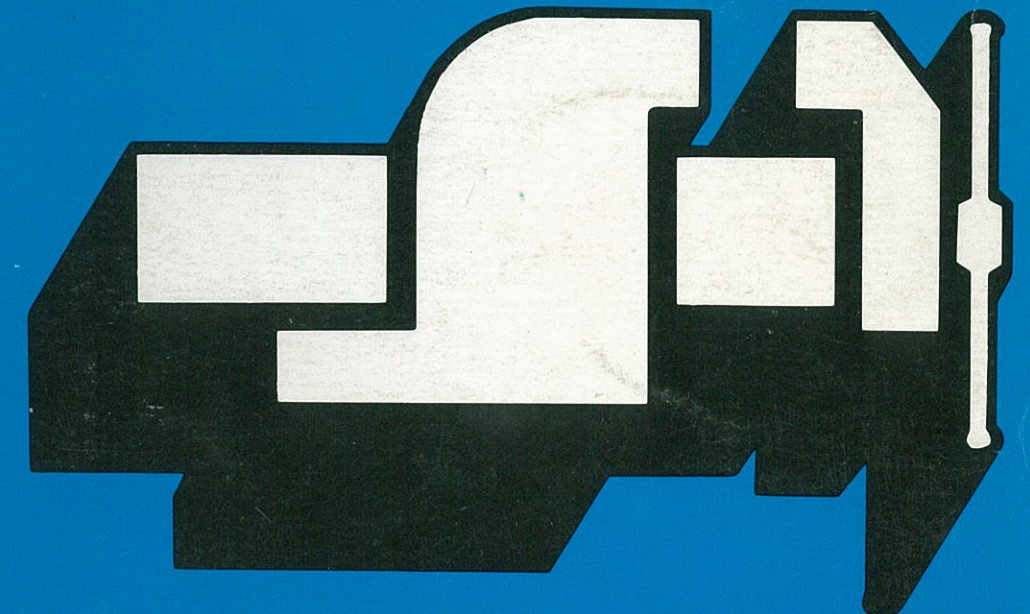
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Dawnvices, Melbourne
Telephone: 350 3811 (6 lines)

TOOLS AND VICES CATALOGUE



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WEST AUSTRALIA	SIDCHROME, 245 CHURCHILL AVENUE, SUBIACO, 6008	PHONE: (09) 381 9419	"SIDCHROME"

DAWN



FACTORY and SALES OFFICE

1 NORRIS STREET, NORTH COBURG, VICTORIA, AUSTRALIA, 3058
Telephone 350 3811 (6 lines)

DAWN

Dawn is a Division of Siddons Pty. Ltd. with a Foundry and Machine Shop situated at North Coburg in Victoria.

Dawn has been manufacturing a top quality range of Vices, Clamps and Cramps for the Engineering, Woodworking and Plumbing Trades as well as a range of Industrial Fans comprising Axial Flow, Mill Exhaust, Pressure Blowers and Propeller Fans, and a range of Hand Winches for over 50 years.

All of these products have maintained a prominent and enviable position in the Hardware and Tool Trade of Australia and New Zealand as well as many Overseas Countries.

QUALITY

The policy adopted by "Dawn" of constant endeavour by test and research to incorporate and maintain the highest standards of strength and durability, gives assurance to Distributors to confidently and conscientiously recommend "Dawn" Tools and Equipment.

All Dawn Products are amply and correctly proportioned and are designed to distribute evenly such factors as stress and leverage etc.

Periodical tests, both analytical and physical, are carried out at various stages of manufacture to ensure that quality standards are maintained at all times.

GUARANTEE

All "Dawn" Products are guaranteed against faulty materials and workmanship.

DISTRIBUTOR TRADING TERMS

Orders received from Australian Distributors will be delivered either F.I.S. or transport depot capital cities.

ABBREVIATIONS AND EXPLANATIONS

'CMPS'	CABINETMAKERS PLAIN SCREW	'LT'	LIGHT TEE
'CMQA'	CABINETMAKERS QUICK ACTION	'OS'	OFFSET (Cast)
'HP'	HEAVY PATTERN	'OS FAB'	OFFSET (Fabricated)
'HT'	HEAVY TEE	'QA'	QUICK ACTION (Cast)
'LD'	LIGHT DUTY	'SP'	STANDARD PATTERN (Cast)
'LP'	LIGHT PATTERN	'SP FAB'	STANDARD PATTERN (Fabricated)

SQA

CAST SEMI-STEEL AND PLATE STEEL FABRICATED VICES PAINTED RED,
CAST STEEL VICES PAINTED BLUE.

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CLAMPS

MALLEABLE "G"

Dawn "G" Clamps are of a deep throated heavy section design for strength and rigidity. Machine cut screw with swivel button. Attractively finished for display purposes in bright "Dawn" red.

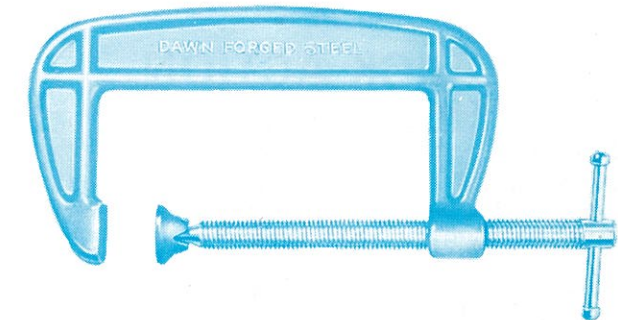
CAT. No.	JAW OPENING mm	THROAT DEPTH mm	WEIGHT kg.
121662	65	45	.3
121689	75	45	.6
121697	100	50	.6
121718	125	65	1.1
121726	150	70	1.6
121734	200	85	2.0
121742	250	95	2.9
121769	300	100	4.1



FORGED STEEL "G"

A steel clamp made by a forging process to give added strength. For severe engineering applications. Machine cut screw with swivel button. Attractive Dawn gloss blue finish.

CAT. No.	JAW OPENING mm	THROAT DEPTH mm	WEIGHT kg.
128418	75	50	0.5
128426	100	60	0.9
128434	150	75	1.7
128442	200	85	3.1



DEEP THROAT

Specially designed for boat building, boiler making, truck body building, etc., where a deep throated clamp is required. High strength casting of heavy section and machine cut screw with swivel button. Attractive "Dawn" gloss blue finish.

CAT. No.	JAW OPENING mm	THROAT DEPTH mm	WEIGHT kg.
121793	100	160	2.6



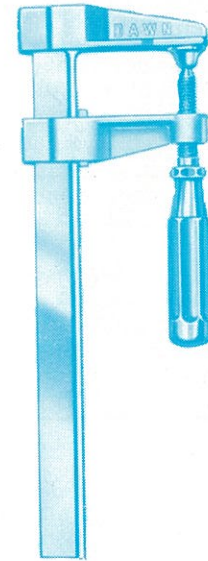


CLAMPS

QUICK ACTION LIGHT DUTY

Unique "T" section slide bar gives greater strength. Patented gripping device makes it virtually impossible to slip. Ideally suited to the handyman, cabinet maker, furniture manufacturer, boat builder, joiner, or light industry. Attractively carded for pegboard display. Packaged in cartons of 10 units.

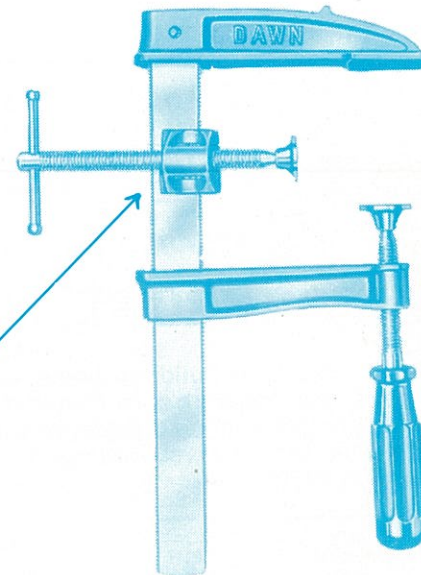
CAT. No.	JAW OPENING mm	THROAT DEPTH mm	WEIGHT kg.
122972	175	50	.4



QUICK ACTION HEAVY DUTY

A very useful clamping medium used by carpenters, cabinetmakers, engineers, welder, boilermakers, etc. A self-locking tool with pressure adjustable, either light or heavy, by unbreakable plastic handle. Instant adjustment to required capacity.

CAT. No.	JAW OPENING mm	THROAT DEPTH mm	WEIGHT kg.
128207	150	80	.8
128215	200	80	.9
128223	250	120	1.7
128231	300	120	1.9
128258	400	120	2.2
128266	500	120	2.3
128274	600	120	2.5
128282	800	120	2.9
128303	1000	120	3.4



122921 E.M. ATTACHMENT (Extension Medium) illustrated, attached to Steel Bar of Clamp for use when pressure is required at right angle to Clamping pressure.

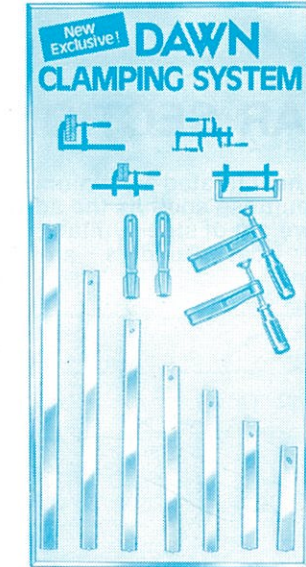


CLAMPS

QUICK ACTION CLAMPING SYSTEM

This totally new and revolutionary clamping system gives the tradesman or handyman more versatility with clamping applications and at less cost than a range of different size clamps doing the same jobs!

CAT. No.	DESCRIPTION
129218	Complete Merchandiser Comprising
129234	4-Fixed Jaw — Double Hole
129242	4-Sliding Jaw Assembly — Double Hole
129269	2-150mm Bars
129277	2-200mm Bars
129285	2-250mm Bars
129293	2-300mm Bars
129306	2-400mm Bars
129314	2-500mm Bars
129322	2-600mm Bars
	Extra Bars
129349	800mm Bars
129357	1000mm Bars

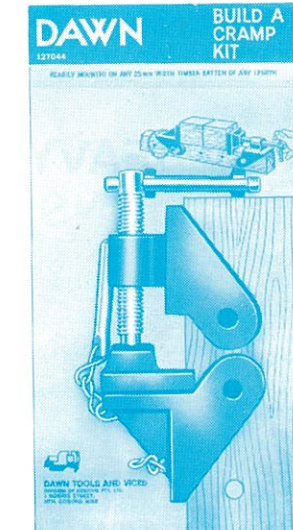


CRAMPS

BUILD A CRAMP KIT

These fittings can be readily mounted by the user on any 25 mm width hardwood batten of any length thereby providing a cramp of whatever capacity is desired. Attractively carded for peg board display.

CAT No.	SIZE OF JAWS mm	WEIGHT kg.
127044	45 x 41	1.4

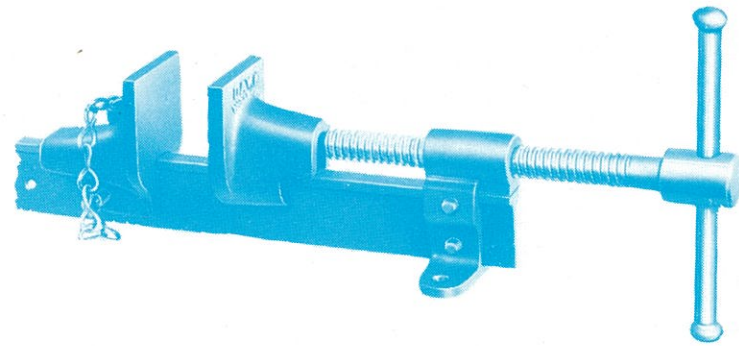


CRAMPS

TEE BAR SECTION

The T Section Bars are heat treated aluminium especially manufactured for the purpose and has the advantage of being one third of the weight of steel. Suitable for use by Joiners, Carpenters, Boat Builders and suitable Engineering applications.

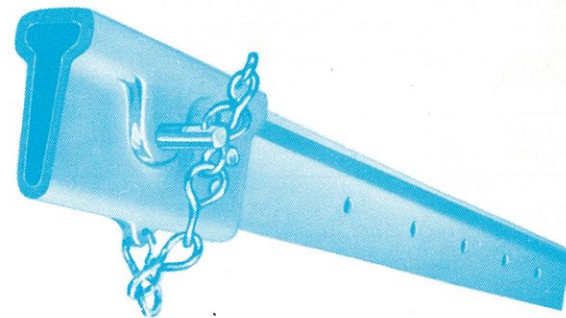
CAT. No.	SIZE mm	WEIGHT kg.
LIGHT TYPE		
127618	500	2.6
127626	750	2.8
127634	1000	3.0
127642	1250	3.2
127669	1500	3.5
127677	1750	3.7
127685	2000	4.0
127693	2250	4.1
127706	2500	4.2
HEAVY TYPE		
127802	500	4.9
127829	750	5.4
127837	1000	5.7
127845	1250	6.3
127853	1500	6.5
127861	1750	7.2
127888	2000	7.7
127896	2250	8.3
127909	2500	8.6
127917	2750	9.2



LIGHT AND HEAVY TEE EXTENSIONS

Simply fit to the end of a standard T Bar Cramp to increase length.

LIGHT TEE			HEAVY TEE		
CAT No.	SIZE mm	WEIGHT kg	CAT No.	SIZE mm	WEIGHT kg
127714	500	0.7	127925	500	2.2
127722	750	1.0	127933	750	2.6
127749	1000	1.3	127941	1000	3.0
127757	1250	1.6	127968	1250	3.4

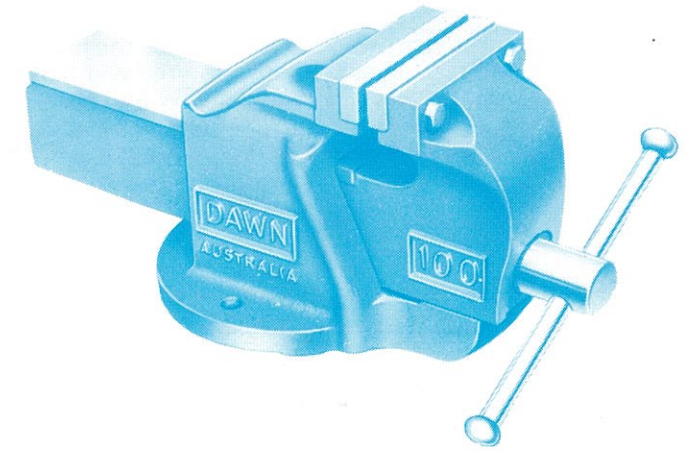


ENGINEERS VICES (Semi-Steel)

STANDARD PATTERN (PLAIN SCREW)

Castings are of high grade semi-steel — hardened replaceable steel jaws — replaceable nut — corrosion resistant screw and handle — Body casting incorporates a gutter to divert swarf from the machined slide surfaces.

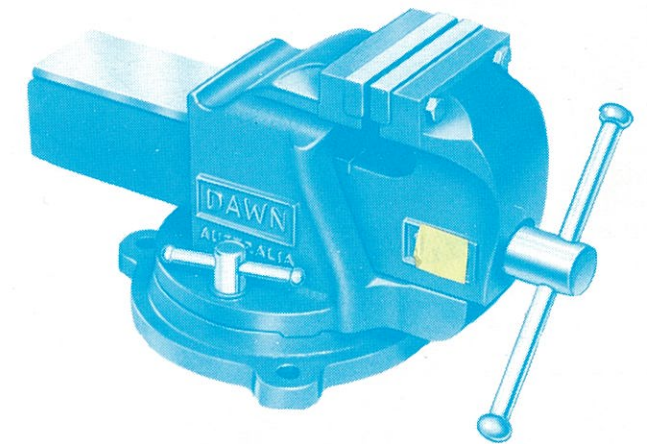
CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120037	75	SP	85	5.7
120045	90	SP	95	9.7
120053	100	LP	115	10.1
120061	100	SP	115	16.2
120088	115	Garage Special	125	23.6
120096	115	SP	125	19.1
12010	125	LP	145	19.4
120117	125	SP	145	23.9
120125	150	SP	175	36.0
120133	200	HP	225	59.4



SWIVEL (PLAIN SCREW)

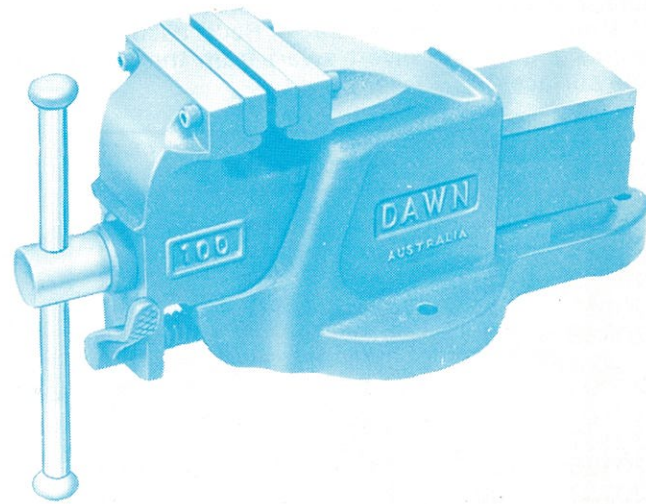
The sturdily constructed swivel base enables the operator to swing the vice to any desired lateral position where it can be readily locked with the two holding down screws.

CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120184	75	SP	85	7.0
120192	90	SP	95	11.0
120205	100	LP	115	12.3
120213	100	SP	115	18.9
120221	115	SP	125	23.6
120248	125	SP	145	30.4
120256	150	SP	175	37.2
120264	200	HP	225	76.1



QUICK ACTION

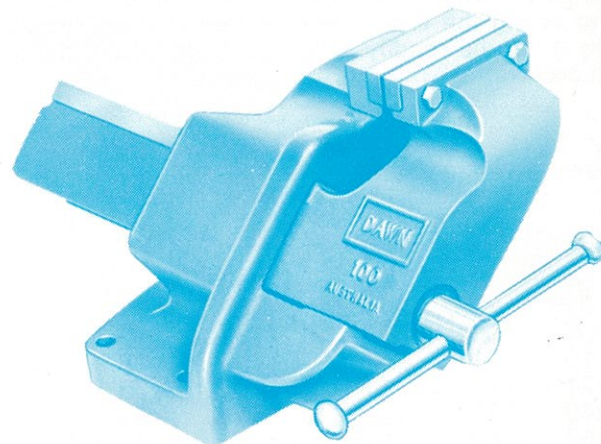
The simple, quick-action mechanism enables the jaws to be instantaneously set to take any required width of job. The undercut buttress threaded screw and Gun-metal nut are a snugly machined fit to ensure positive gripping action. High-grade Semi-steel castings.



CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120301	100	SQA	115	16.2
120328	115	SQA	125	28.8
120336	125	SQA	145	34.7
120344	150	SQA	175	46.8

**OFF-SET
(PLAIN SCREW)**

This design has become very popular, because of the facility it provides for holding long vertical work with the full width of the jaws. The body and slide castings are of 'DAWN' Semi-steel and the nut is replaceable.

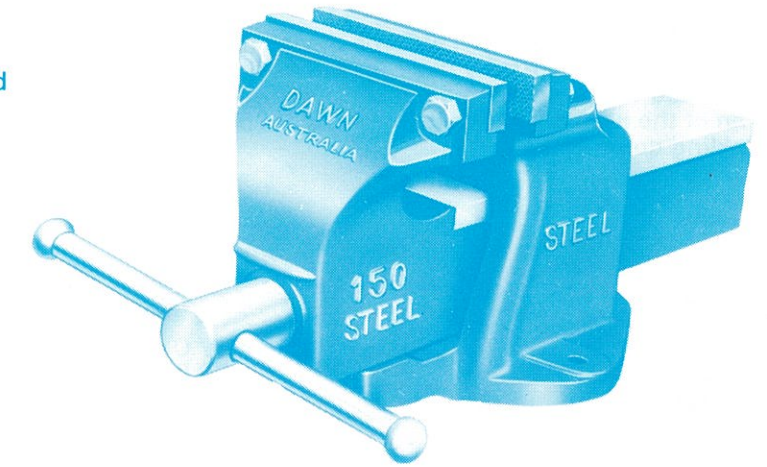


CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120395	75	OS	85	11.0
120416	100	OS	115	26.1
120424	115	OS	125	32.9
120432	125	OS	145	39.2
120440	150	OS	175	54.0

**STANDARD PATTERN
(PLAIN SCREW)**

These vices are recommended for particularly hard usage. They are made of electric steel castings.

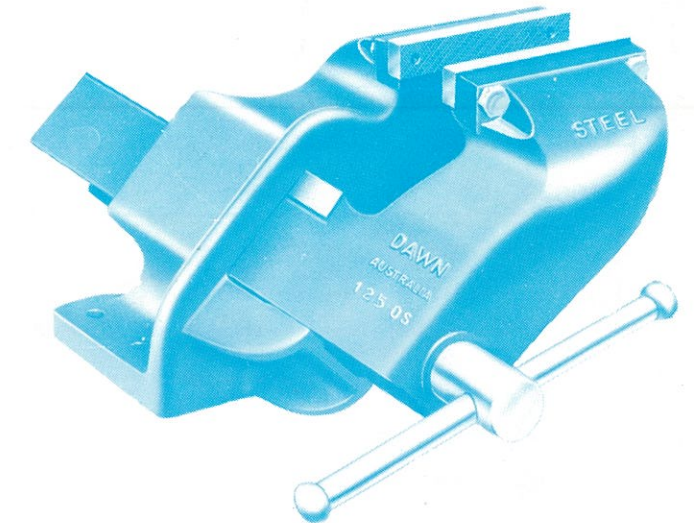
CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120483	100	SP STEEL	115	14.6
120491	115	SP STEEL	125	15.6
120504	125	SP STEEL	145	19.8
120512	150	SP STEEL	175	23.0



**OFF-SET
(PLAIN SCREW)**

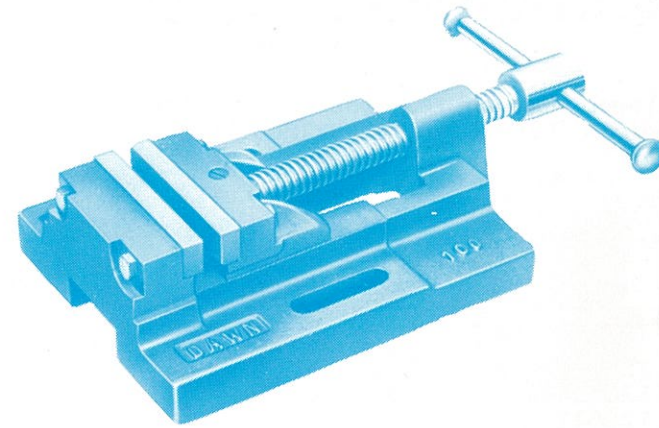
A popular vice for use in industry because of the facility provided for holding long vertical work with the full width of jaws. The solid electric steel castings give positive grip without springing.

CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120539	100	OS STEEL	115	22.2
210547	115	OS STEEL	125	29.5
120555	125	OS STEEL	145	32.5
120563	150	OS STEEL	175	43.9



MACHINE VICES

Fitted with plain screw. This type of vice for machine shop use has accurately machined slide faces, and is equipped with hardened steel parallel jaws. The bottom of the base is machined and slots are provided for holding down bolts.

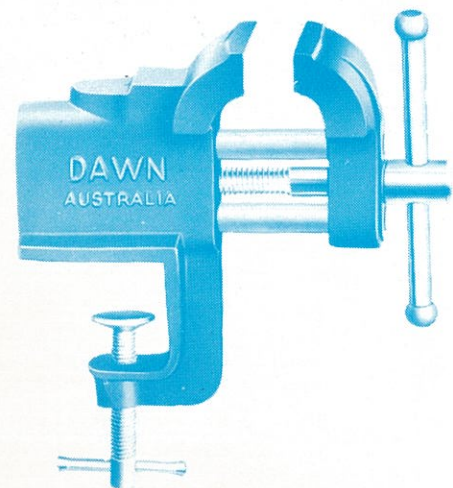


CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.	
120619	75	Machine	60	27	27.0
120627	100	Machine	120	37	36.5
120635	125	Machine	250	45	44.5

TABLE VICES

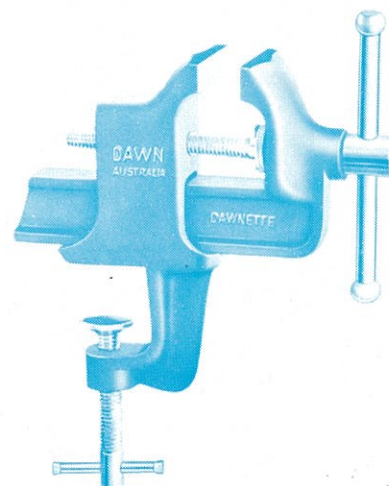
STEEL GUIDE

CAT. No.	JAW WIDTH mm	MAX. OPEN mm	WEIGHT kg.
120678	50	50	1.4



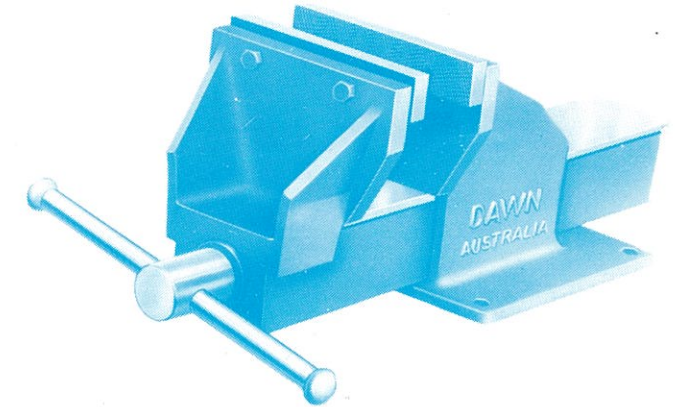
DAWNETTE

CAT. No.	JAW WIDTH mm	MAX. OPEN mm	WEIGHT kg.
120686	50	50	1.1



STANDARD PATTERN
(PLAIN SCREW)

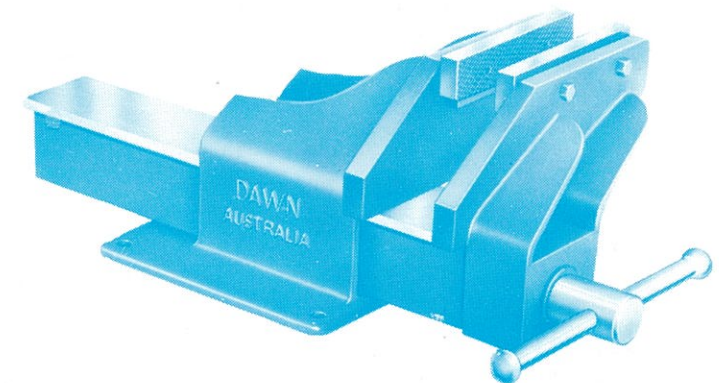
These steel vices are especially designed for all heavy duty work and are manufactured from heavy steel plate to maximise strength — hardened replaceable steel jaws — replaceable nut — corrosion resistant screw and handle — precision machined bearing surfaces.



CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
121136	100	SP FAB	115	11.4
121144	125	SP FAB	145	17.6
121152	150	SP FAB	175	23.2
121179	200	SP FAB	225	36.9

OFF-SET
(PLAIN SCREW)

These vices are of the same rugged construction as the plain screw fabricated vices, but are extremely useful where long vertical work needs to be held, such as is found with large earthmoving equipment, etc, — hardened replaceable steel jaws — replaceable nut — corrosion resistant screw and handle — precision machined bearing surfaces.



CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
121232	100	OS FAB	115	12.7
121259	125	OS FAB	145	19.1
121267	150	OS FAB	175	26.1
121275	200	OS FAB	225	59.9

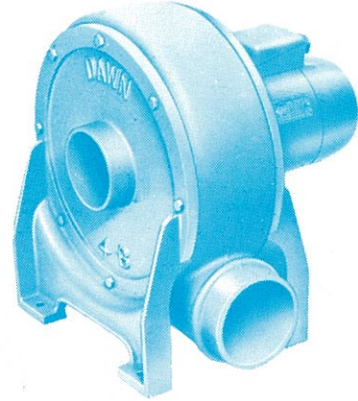
INDUSTRIAL FANS

AXIAL FLOW FANS



Axial-Flow Fans.....2 Dia.
375 mm and 450 mm

CAST IRON EXHAUST FANS



65 mm to 150 mm

CAST IRON PRESSURE BLOWERS

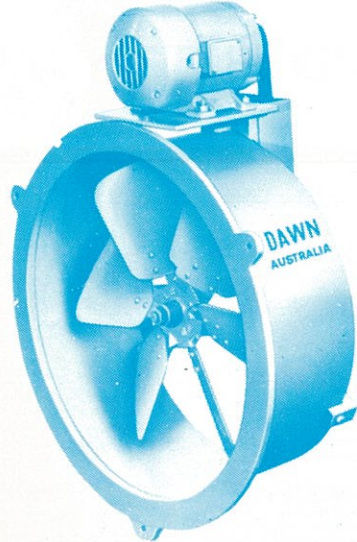


Cast Iron Pressure Blowers.....2 sizes
1F and 2F

A DAWN FAN FOR EVERY PURPOSE

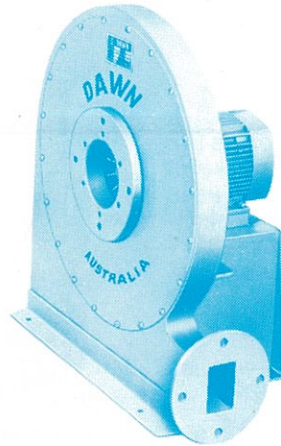
Ventilation — Dust and Fume Control-Conveying — Combustion

ENCLOSED PROPELLER FANS



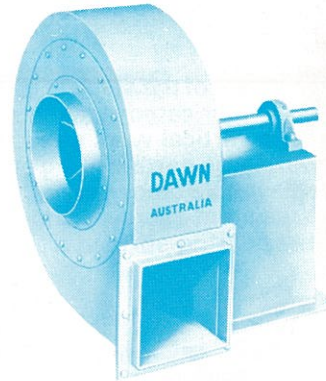
Enclosed Propellers...5 sizes
450 mm to 1200 mm
Open Propellers.....5 sizes
450 mm to 1200 mm
Split-Hub Propellers..6 sizes
450 mm to 1200 mm

FABRICATED PRESSURE BLOWERS



Fabricated pressure Blowers.....7 sizes
3FS to 9FS
High Pressure Blowers
unlimited range up to
5000 CFM at 5 PSI.

MILL EXHAUST FANS



Mill Exhausts.....8 sizes
225 mm to 600 mm

We welcome the opportunity to quote for the Manufacture of Fans for any industrial application which may not be satisfied by a standard fan.

MISCELLANEOUS

JACKS

NARROW BASE — HIGH LIFT

CAT. No.	CAPACITY TONNES	MIN HGHT. mm	MAX HGHT. mm	DIAM. OF BASE mm	WEIGHT kg.
126922	1	215	315	115	4.0
126949	3	370	600	175	13.5
126957	5	450	725	175	14.4
126965	10	600	900	175	27.0



NARROW BASE — LOW LIFT

CAT. No.	CAPACITY TONNES	MIN HGHT. mm	MAX HGHT. mm	DIAM. OF BASE mm	WEIGHT kg.
126973	3	165	225	115	36.0



BROAD BASE — LOW LIFT

CAT. No.	CAPACITY TONNES	MIN HGHT. mm	MAX HGHT. mm	DIAM. OF BASE mm	WEIGHT kg.
126981	3	250	350	175	9.0
127001	6	250	315	215	11.7

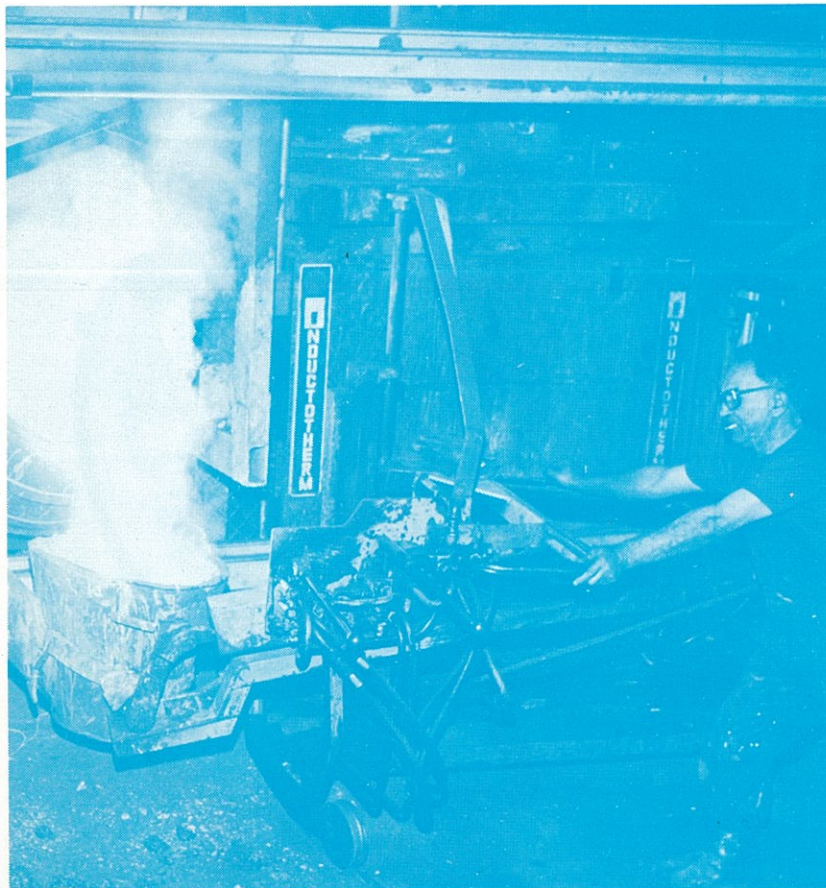


CAR STAND

No welds to crack — Heavy Duty cast base — Acme screw for quick adjustment (4 t.p.i.) — Guaranteed against faulty workmanship and material — 5 Tonne rating (Tested to 3.5 times this capacity).

CAT. No.	MIN. HEIGHT mm	MAX. HEIGHT mm	WEIGHT kg.
127028	280	450	7.0

MISCELLANEOUS



Pouring Molten Metal in the Dawn Foundry



MISCELLANEOUS

FOLDING VICE STAND

Saves operator's time and effort. Sets up, takes down easily...quickly. Extremely rigid and durable, yet weighs only 14kg. All one unit. No loose parts. Has large size base for easy mounting of all DAWN Pipe vices or Engineers vices up to 100 mm.

CAT. No.	TYPE	DESCRIPTION	WEIGHT kg.
126252	No. 54	Vice Stand only	14.0



EMERY DRESSER

These patterns of emery dressers are recommended for general purpose wheel dressing, where it is essential to keep the wheel face open. Red gloss finish. Spare wheels readily available.

CAT. No.	TYPE	WEIGHT kg.
127108	No. 0	.8
127116	No. 1	1.2
127124	No. 2	2.7



WIRE STRAINER

A steel pin to suit is supplied with strainer.

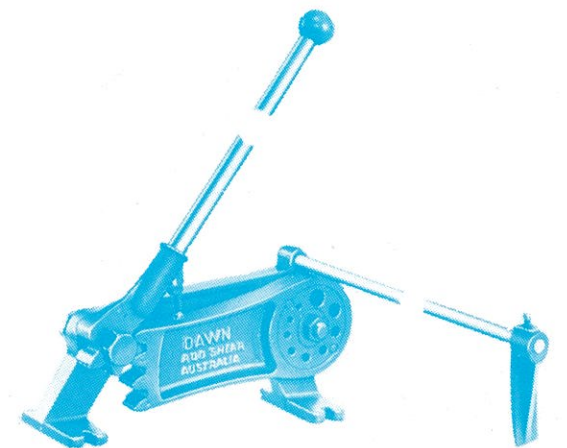
CAT. No.	WEIGHT kg.
12715-9	4



ROD CUTTER

FEATURES

- Minimum deformation of bar.
- No burr left on either cut portion.
- High cutting speed.
- Exceptional ease of operation.
- 8 Holes cuts from 3 mm to 14 mm.
- Cat. No. 127167



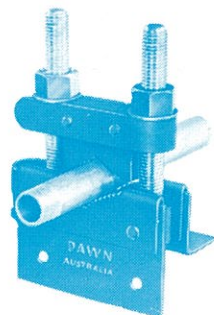


PIPE VICES

POST TYPE

Particularly suitable for inclusion in the plumber's tool kit, this design is made of pressed steel hardened steel jaws — light, compact and strong. Made in two sizes.

CAT. No.	TYPE	TAKES PIPE TO DIAM. mm.	WEIGHT kg.
121443	P.1	40	1.8
121451	P.2	50	2.7



CHAIN TYPE BOTTOM SCREW

This sturdy compact design is a very popular plumber's tool. Cast steel, machine cut hardened jaws. Grips firmly and is speedily operated. Made in three sizes.

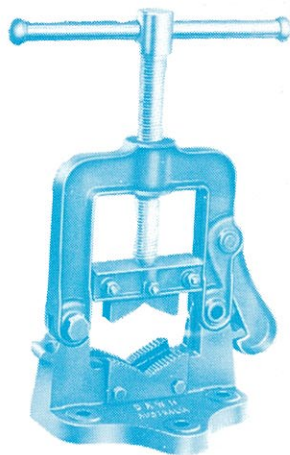
CAT. No.	TYPE	TAKES PIPE TO DIAM. mm.	WEIGHT kg.
121486	C.2	50	1.8
121494	C.4	100	4.5
121507	C.6	150	7.9



HINGE TYPE

Malleable castings, self-locking frame and hardened steel jaws. Made in three sizes.

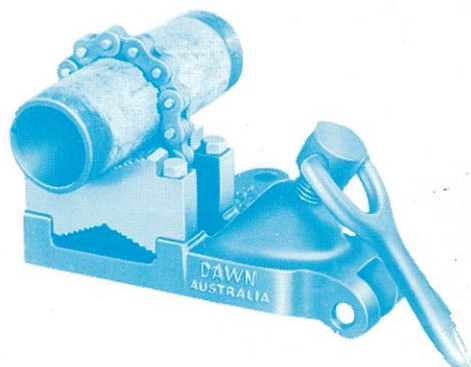
CAT. No.	TYPE	TAKES PIPE TO DIAM. mm.	WEIGHT kg.
121523	H.2	50	3.9
121531	H.2½	65	5.1
121558	H.4½	115	11.5



CHAIN TYPE (TOP SCREW)

The Chain Vice with clamp handle above the bench for quicker, easier operation. Screw exerts maximum pressure on the pivoted lever, transferring tremendous pressure on the pipe by medium of the chain. The only pipe vice fitted with fully machined reversible and replaceable treated jaws.

CAT. No.	TYPE	TAKES PIPE TO DIAM. mm.	WEIGHT kg.
121574	No. 31	50	3.6
121582	No. 32	100	6.5

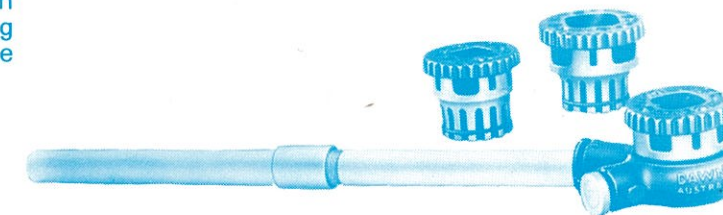


PLUMBERS TOOLS

RATCHET SCREWING SETS

Ideal for close corners...will cut really smooth, clean threads quickly and accurately even with swinging space reduced to 30°. Engineered chaser dies make for cleaner threads with half the effort.

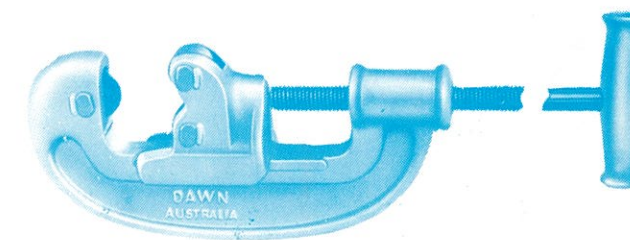
CAT. No.	TYPE	SIZE	WEIGHT kg.
126199	No. 26	½ - ¾" BSP	4.0
126201	No. 27	½ - ¾" 1" BSP	4.9



PIPE CUTTER

Designed and built to withstand continuous, gruelling hard work. Extra strong aluminium alloy construction and steel thread insert make light work of heavy cutting.

CAT. No.	TYPE	CAPACITY mm	WEIGHT kg.
26228	No. 28	12 to 50 mm	1.6



STRAP WRENCH

With aluminium alloy handle and woven strap to obviate marking chrome-plated fittings. Ideal for P.V.C. fittings.

Attractively carded for pegboard display. Packaged in cartons of 5 units.

CAT. No.	TYPE	CAPACITY	WEIGHT kg.
126236	No. 50	10 to 50	0.200



PLUMBERS TOOLS

LINK TYPE CAST IRON PIPE CUTTER

The lightest, fastest and most compact C.I. pipe cutter on the market. By adding links and wheel units, cutting capacity may be increased to handle pipes up to 300 mm diameter.

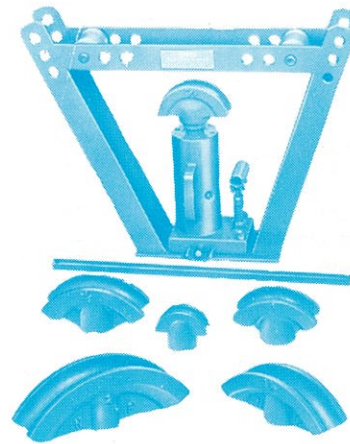
CAT. No.	TYPE	CAPACITY mm	WEIGHT kg.
126244	No. 51	50 to 150	2.9



PIPE BENDERS

Pipes can be bent at the exact spot required, and big savings can be made by eliminating costly fittings. The pipe bender reduces costs in any of these important jobs: water services, hand rails, gates, fences, framework for buildings, and almost any job where pipe is used or bars are to be bent. Complete with formers.

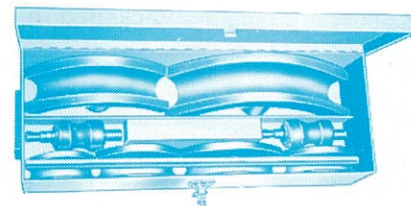
CAT. No.	CAPACITY	WEIGHT kg.
128602	For gas, water or steam pipes (1/2" to 1 1/4")	41.0
128637	For gas, water or steam pipes (1/2" to 2")	60.0



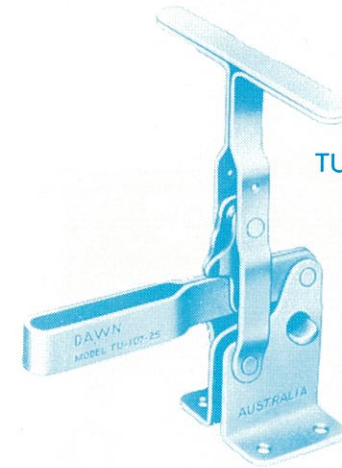
PIPE BENDER ACCESSORY BOX

- Heavy Duty — Welded steel construction.
- Sturdy end carrying handles.
- Lockable latch.
- Easy access to all accessories.
- Converts to useful Tool Box.
- Keeps all accessories readily stored in one place.
- Available either with Pipe Bender or separately.

Cat. No. 128856



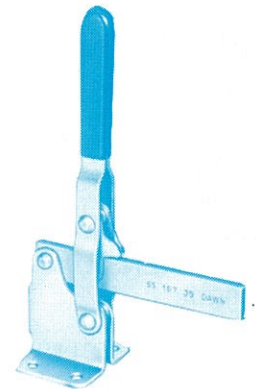
TOGGLE CLAMPS



TU 107 SERIES
3 SIZES



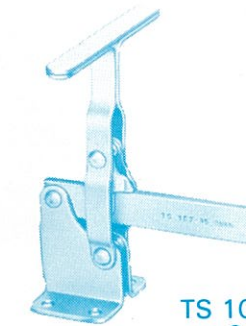
SS 114 SERIES
3 SIZES



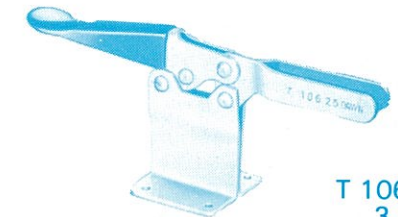
SS 107 SERIES
3 SIZES



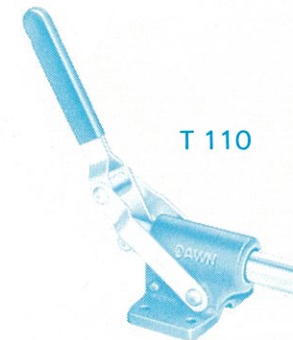
PLIER TYPE
2 SIZES



TS 107 SERIES
3 SIZES



T 106 SERIES
3 SIZES



T 110



T 109



SU 107 SERIES
3 SIZES

A separate catalogue of the full range of these clamps is available on application.



WINCHES HAND

No. 1 WINCH

***SAFE WORKING LOAD 0.5 Tonnes**

ROPE
 Nominal Size 8 mm
 Grade B 1770
 Construction 6/25 WRC RHOL
 Max. Length 24 metres
 Breaking Strength 40.2 kn

DRUM DIMENSIONS
 Length 150 mm
 Diameter 90 mm

DIMENSION EXCLUDING HANDLE
 300 mm x 225 mm x 225 mm

RATIO 4.1 to 1
BEARINGS White Metal
 D.L.I. Approval Pending

No. 2 WINCH

***SAFE WORKING LOAD 1.25 Tonnes**

ROPE
 Nominal Size 10 mm
 Grade B 1770
 Construction 6/25 WRC RHOL
 Max. Length 40 metres
 Breaking Strength 63.1 kn

DRUM DIMENSIONS
 Length 200 mm
 Diameter 100 mm

DIMENSION EXCLUDING HANDLE
 375 mm x 325 mm x 275 mm

RATIO
 High 4 to 1
 Low 22 to 1
 Effort required on handle to raise full load ... 16.6 kg

BEARINGS Replaceable Bronze Brushes

No. 5 WINCH

***SAFE WORKING LOAD 2.75 Tonnes**

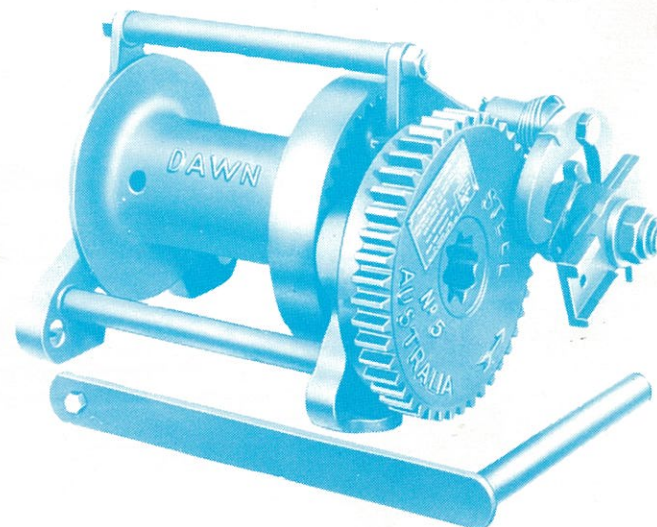
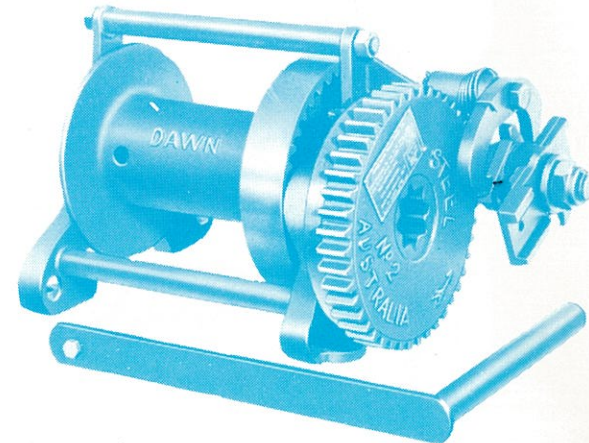
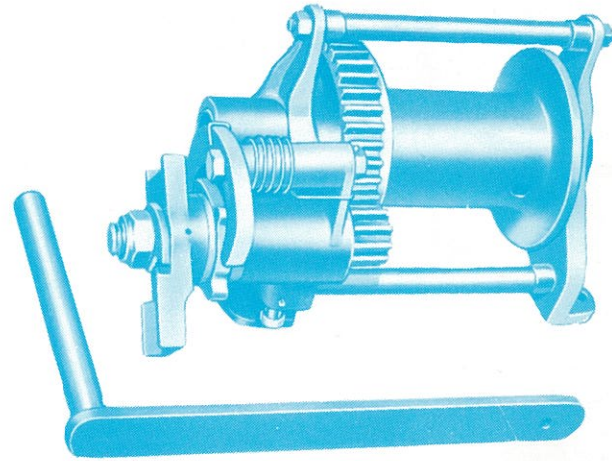
ROPE
 Nominal Size 14 mm
 Grade B 1770
 Construction 6/25 WRC RHOL
 Max. Length 50 metres
 Breaking Strength 124 kn

DRUM DIMENSIONS
 Length 250 mm
 Diameter 145 mm

DIMENSIONS EXCLUDING HANDLE
 500 mm x 425 mm x 375 mm

RATIO
 High 4.3 to 1
 Low 24 to 1
 Effort required on handle to raise full load ... 17.5 kg

BEARINGS White Metal



WINCHES HAND

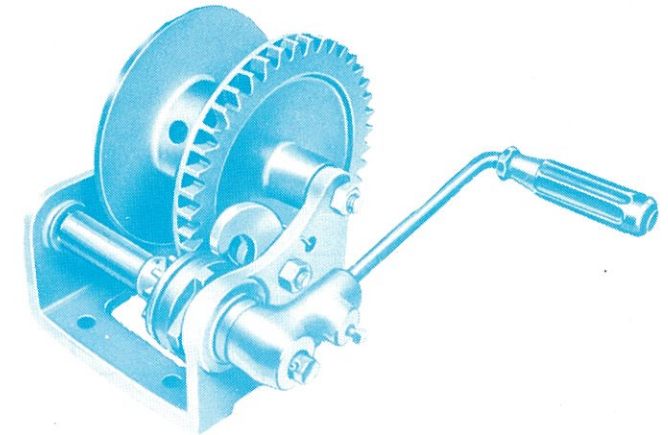
150 WINCH

***SAFE WORKING LOAD 150 kg**

ROPE
 Nominal Size 4 mm
 Grade G 1570
 Construction 6/19 FC RHOL
 Max. Length 30 metres
 Breaking Strength 7.7 kn

DRUM DIMENSIONS
 Length 54 mm
 Diameter 50 mm

RATIO 4.1 to 1
DIMENSION EXCLUDING HANDLE
 150 mm x 160 mm x 170 mm



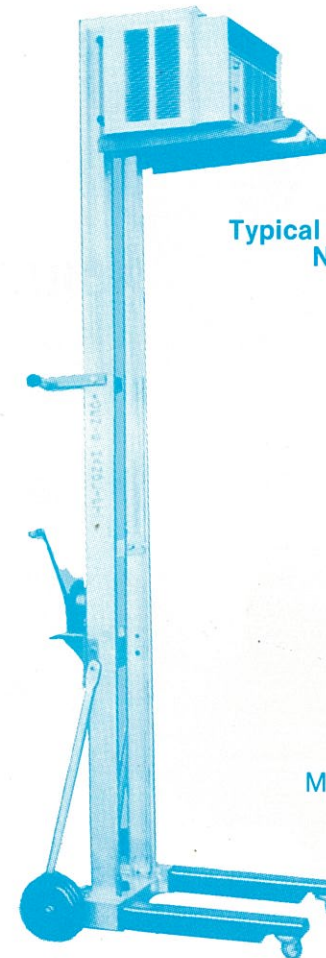
*Above capacity is governed by a single fall of rope, however, safe working load can be increased by different pulley block arrangements.

Manufactured to and Approved by Lifts and Cranes Regulations and in accordance with Australian Standard 1418 Part 2 — 1980 SAA Crane Code Part 2 Serial Hoists.

For Tow Trucks, Carriers, Builders, Structural and Industrial Engineers, Factories, Warehouses, Store Yards etc.

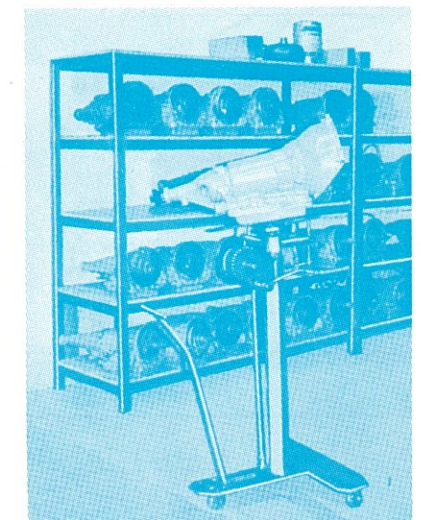
Fully approved for mounting on vehicles.
 Constructed throughout of high grade materials.
 Designed without keys or set screws to shear or strip.
 Capable of free run-out of cable (Except No. 150).
 Equipped with Automatic Weston Screw Braking System. Double acting pawl gives added safety feature.
 Simple to operate. Raising or lowering achieved by turning handle in required direction. No pawl to be released.

Typical applications for Dawn No. 150 Winches



Transmission Hoist

Miniature Mechanical Fork Lift



Technical leaflets available on all Dawn Winches.

SAW VICE

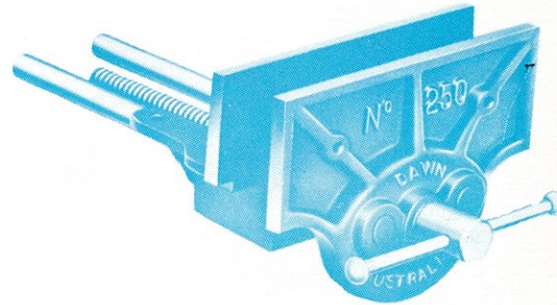
Makes saw sharpening easy. Ball joint allows operator to adjust position to suit his requirements. Full instructions for use and how to perform setting and sharpening operations accompanying each vice.



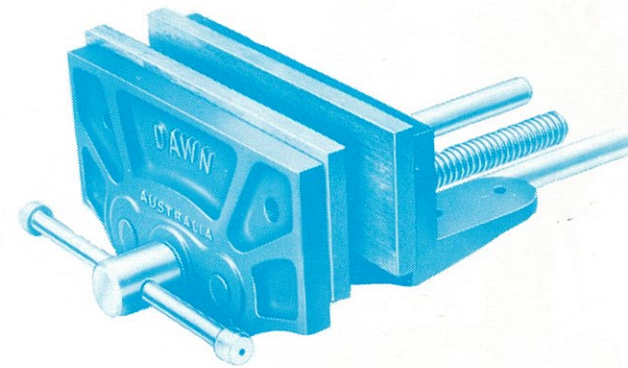
CAT. No.	JAW WIDTH mm	WEIGHT kg.
120707	275	5.0

PLAIN SCREW

These vices are designed with generous jaw area and are the approved standard for woodworker's use. The slide bars are of amply proportioned bright steel, running in accurately machined guide holes.



CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120889	125	J.W.W.	175	4.3
120897	175	CMPS	225	7.1
120918	200	CMPS	225	7.7
120926	225	CMPS	300	12.0
120934	250	CMPS	300	12.2



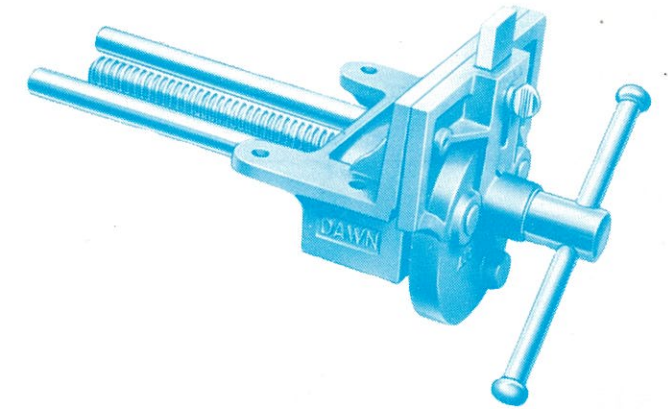
HOME CARPENTERS VICE KIT

Plated slide bars and screw. Four screw holes for mounting under bench. Two wooden jaw liners supplied with eight countersunk screws.

CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120942	150	H.C.	150	2.8

PEG VICE

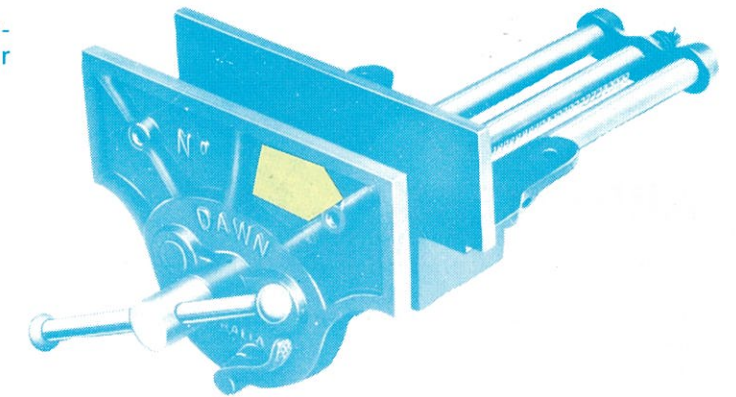
This vice incorporates an adjustable steel peg built in to the front of the vice which when extended protrudes above the top of the bench. This allows long pieces of timber to be held against a stop on the bench top whilst planing, chiselling and sawing etc.



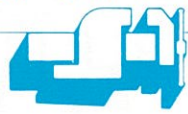
CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120977	175	CMPS	225	7.1

QUICK ACTION

The quick action type of vice provides for speedy operation on work of varying dimensions. It is made in four sizes.

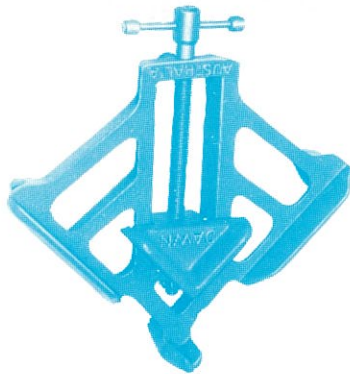


CAT. No.	JAW WIDTH mm	TYPE	MAX. OPEN mm	WEIGHT kg.
120985	175	CMQA	225	8.6
120993	200	CMQA	225	9.0
121005	225	CMQA	300	10.4
121013	250	CMQA	300	13.6



MITRE CLAMP

A very useful clamp for making such things as fly screen doors or windows/frames, for cupboard doors, etc., table top frames — in fact anything requiring a right angle joint.



CAT. No.	MAX. OPEN mm	WEIGHT kg.
121814	100	2.0

CARPENTERS BENCH SCREWS

The screw and handle are of best mild steel, with particularly sturdy fittings. Attention is drawn to the strong full circle thrust flange on the nut.

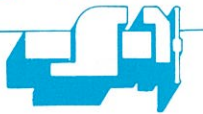
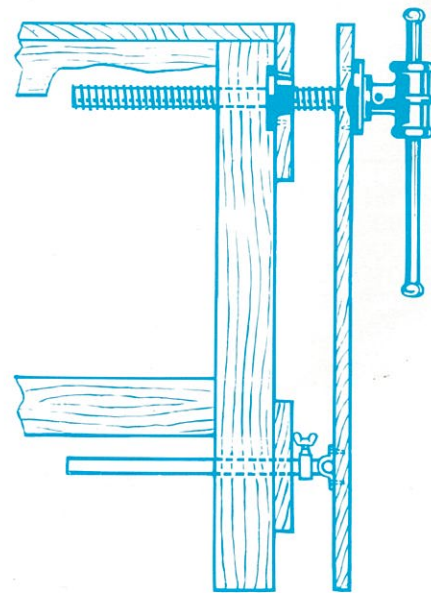


CAT. No.	DIA. OF SCREW	TYPE	LENGTH OF SCREW	WEIGHT kg.
126869	1"	ACME	450	3.2
126877	1 1/8"	ACME	450	3.3

CARPENTERS VICE KIT

Build it yourself. Face board and all parts supplied. Opens to 375 mm (15") allows work to be held from floor to bench top. Simple assembly instructions included.

CAT. No.	DIA. OF SCREW	WEIGHT kg.
126885	1"	400



SPARE PARTS

Spare parts for all DAWN Products are readily available. NOTE! Current model Engineer's Vices are fitted with bolt-on type jaws. Old model vice jaws held by countersunk screws are still available.

PLAIN SCREW — 'DAWN' SEMI-STEEL

No.	DESCRIPTION
1	SLIDE
2	BODY
3	SCREW HANDLE & NUT
4	NUT
5	WASHER PIN & SPRING
6	JAWS & BOLTS

PLAIN SCREW OFFSET — 'DAWN' SEMI-STEEL

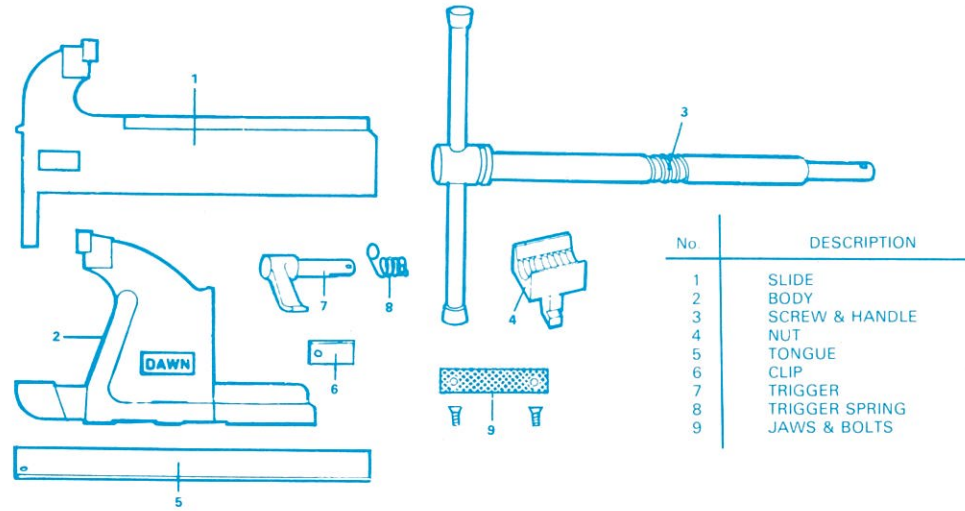
No.	DESCRIPTION
1	SLIDE
2	BODY
3	SCREW HANDLE & NUT
4	NUT
5	WASHER PIN & SPRING
6	JAWS & BOLTS

**PLAIN SCREW — 'DAWN' CAST STEEL
'DAWN' FABRICATED ALL STEEL**

No.	DESCRIPTION
1	SCREW HANDLE & NUT
2	NUT
3	WASHER PIN & SPRING
4	JAWS & BOLTS

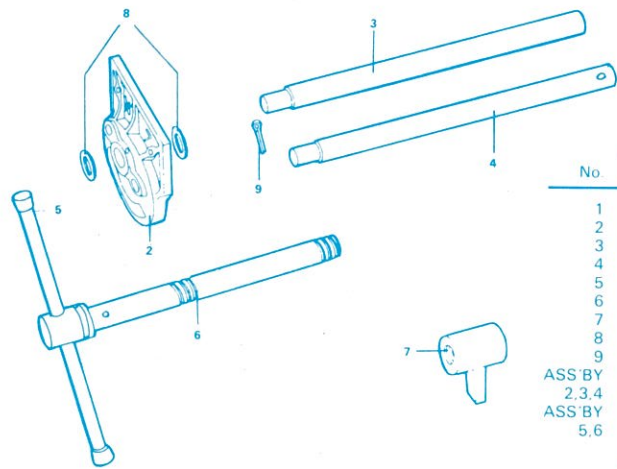


QUICK-ACTION — 'DAWN' SEMI-STEEL



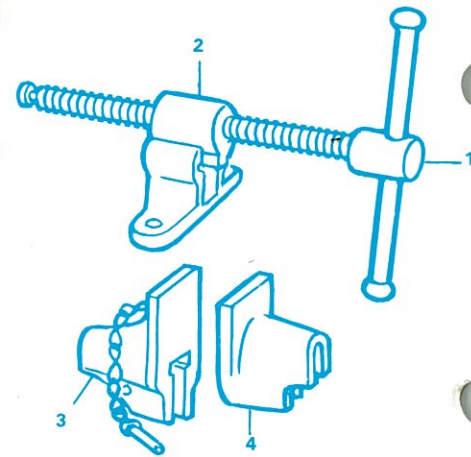
No.	DESCRIPTION
1	SLIDE
2	BODY
3	SCREW & HANDLE
4	NUT
5	TONGUE
6	CLIP
7	TRIGGER
8	TRIGGER SPRING
9	JAWS & BOLTS

PLAIN SCREW — 'DAWN'



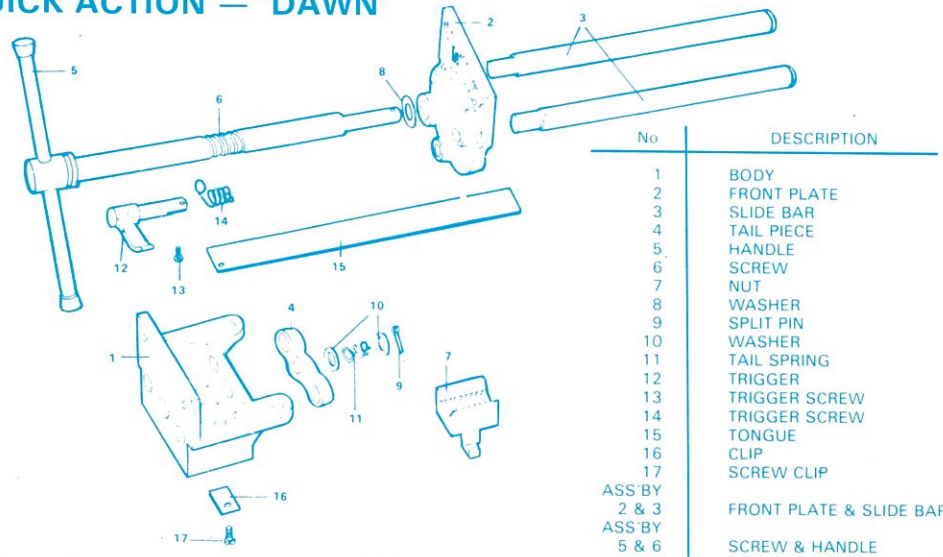
No.	DESCRIPTION
1	BODY
2	FRONT PLATE
3	SLIDE BAR
4	SLIDE BAR
5	HANDLE
6	SCREW
7	NUT
8	WASHER
9	SPLIT PIN
ASS'BY 2,3,4	
FRONT PLATE & SLIDE BARS	
ASS'BY 5,6	
SCREW & HANDLE	

CRAMPS — 'DAWN'



No.	DESCRIPTION
1	SCREW & HANDLE
2	NUT
3	BACK JAW
4	FRONT JAW

QUICK ACTION — 'DAWN'



No.	DESCRIPTION
1	BODY
2	FRONT PLATE
3	SLIDE BAR
4	TAIL PIECE
5	HANDLE
6	SCREW
7	NUT
8	WASHER
9	SPLIT PIN
10	WASHER
11	TAIL SPRING
12	TRIGGER
13	TRIGGER SCREW
14	TRIGGER SCREW
15	TONGUE
16	CLIP
17	SCREW CLIP
ASS'BY 2 & 3	
FRONT PLATE & SLIDE BARS	
ASS'BY 5 & 6	
SCREW & HANDLE	

MATERIAL SPECIFICATIONS

EXPLANATION OF CAST MATERIALS

Dawn castings are cast from one or other of the three following materials:

- (a) Cast Iron, also known as Semi Steel.
- (b) Cast Steel.
- (c) Spheroidal Graphite (S.G. Iron) Iron, also known as Ductile Iron.

Each one selected for a specific application and manufactured under close metallurgical control.

"CAST IRON", ALSO KNOWN AS "SEMI STEEL"

"Cast Iron" is an alloy of iron carbon and silicon containing 3-4% carbon and 1.0-3.0% Silicon and in general terms their properties are a function of the proportion of carbon and silicon present. Manganese, Sulphur and Phosphorus are always present and exert lesser effects on the properties of the iron. Other alloying elements may be added to impart special mechanical or chemical properties.

Due to the high carbon content, cast iron possesses a relatively low melting point in comparison to steel and this allows it to be cast into complex shapes. A large part of this carbon separates out of the liquid iron on solidification as flakes of graphite (Figure 1) which cause a multitude of surface discontinuities. As a result it is a relatively brittle material, one that can be applied only under circumstances where there are no important shock loads. Cast Iron does not deform appreciably prior to fracture and a sharp hammer blow will easily break thin sections.

It is the least expensive of all cast materials.

"Semi Steel" is actually only Cast Iron in the manufacture of which some proportion of steel has been used and its quality may be good, indifferent or poor, according to the success of the technique employed. The term is a misleading one and is now generally not used.

"CAST STEEL"

"Cast Steel" is an iron carbon alloy containing relatively small amounts of carbon (e.g. less than half of one percent). Manganese, Silicon Sulphur and Phosphorus are always present and other alloying elements may be added to impart special mechanical or chemical properties. Any steel poured into a mould to form an object is termed "Cast Steel" and its properties in the cast form are similar to those of steel in the wrought form. Their grain structures are well knit with no major surfaces of discontinuity and they are strong. More particularly they are tough, they resist heavy impact loads and they bend and generally deform plastically to a considerable degree when overloaded, before fracture takes place. Because of their low carbon content they have a high melting point relative to Cast Iron and are therefore difficult to melt and to cast into complex shapes.

S.G. IRON OR SPHEROIDAL GRAPHITE IRON OR DUCTILE IRON

This alloy was discovered as late as 1948. Its basic composition is similar to that of Cast Iron in that it is an alloy of iron carbon and silicon (Carbon 3.0-4.0%, Silicon 1.0-3.0%). Manganese, Sulphur and Phosphorus are always present, together with a small percentage of Magnesium. Like cast iron it has a relatively low melting point due to the high carbon content and therefore can be cast easily into complex shapes. The addition of Magnesium causes the carbon to separate out of the liquid iron on solidification as spheroids or nodules (see Figure 2) rather than as graphite flakes as in cast iron. The discontinuities which graphite flakes create in Cast Iron are thus eliminated and the resultant material has greatly improved properties including a high degree of toughness. Thus this material offers an iron which can be melted as easily and cast into shapes as intricate as those used for cast iron, and yet which possesses the toughness and ductility of cast steel i.e. it will resist impact loads and generally deforms plastically to a considerable degree before fracture takes place. It also has the added advantage that it is cheaper to produce than cast steel.

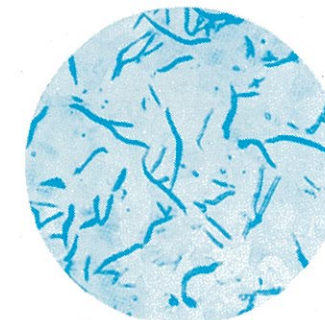


Figure 1

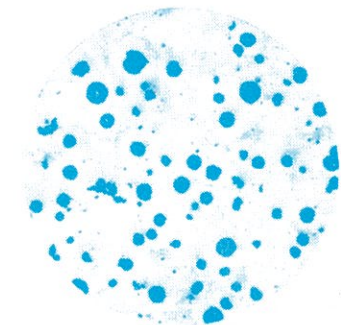


Figure 2