

The pump with a

SOUTHERN **CROSS POWER PUMPS**

Choosing a pump must be a well-considered proposition. Much power can be wasted by an inefficient pump - water production can be disappointing when the pump is not designed for the job it is called upon to do. Whenever you decide a pump is needed, it is wise to consider the advantages of a Southern Cross Power Pump — because of its high efficiency, its versatility and its capacity to deliver a constant supply against widely varying heads.

Generally, a Power Pump is used to pump from surface supplies such as creeks, dams, earth tanks, etc., and can be used as a primary unit or as an auxilliary to your Southern Cross Windmill Plant, during periods when there is no wind. It is particularly suitable for pumping over long distances.

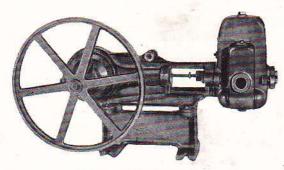
Thousands of Southern Cross Power Pumps are in service all over Australia — pumping water for stock, pumping water for irrigation, pumping water for domestic supplies. In addition to being ideally suited for driving by Southern Cross Engines, the Geared Self Oiling Power Pumps and the $1\frac{1}{2}$ in. x $1\frac{3}{4}$ in. stroke Power Pump can be supplied with an Electric Motor Mounting to form a very neat and compact Electric Motor Driven Unit.

Check the following pages for specifications and pumping capacities of the various Southern Cross Power Pumps available.

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SOUTHERN CROSS 12" BORE x 13" STROKE DOUBLE ACTING POWER PUMP—

This pump was specially developed to provide an economical home water supply from creeks, wells, spearpoints, etc., and is ideal for fighting fires, watering gardens, tennis courts and lawns and filling quickly overhead tanks.



13" Bore x 13" Stroke Power Pump

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TYPE: Single cylinder, double acting, pumping on both the forward and backward strokes.

CAPACITY: The maximum capacity of the pump is 260 gallons per hour against 150 ft, head at a pulley speed of 200 r.p.m.

PIPE CONNECTIONS: The suction pipe connection is 1 inch and the discharge pipe connection is ⅓ inch.

LUBRICATION: Lubrication of the drive mechanism is automatic, provided the oil level is kept up to the bottom of the oil filler plug.

ROTATION: The pump may be run in either direction.

PACKING GLAND: Adjustable screwed brass type using graphited packing.

Weight: 73 lbs.

VALVES: Special quality rubber, spring loaded, with brass seats. Easily accessible through covers.

PUMP BARREL: Drawn brass tube.

PULLEY: Flat belt pulley 14 inches diameter x 1 inch face is supplied and included in the price of the pump.

ELECTRIC MOTOR MOUNTING BRACKET: If required, an electric motor mounting bracket for fitting on the pump can be supplied at a small extra charge.

PRICE £20

F.O.R. Toowoomba, Brisbane, Rockhampton, Townsville, Sydney, Melbourne, Adelaide, Perth or delivered Fremantle.

SOUTHERN CROSS GEARED DOUBLE ACTING POWER PUMPS, "X" PATTERN

This pump with 3 inch bore and at 50 strokes per minute has a capacity of 700 gallons per hour; with a 4 inch bore 1220 gallons; with 5 inch bore 1920 gallons. Power required for maximum head is only 2 h.p. (See table below). It is designed for pumping from surface supplies such as creeks, dams and shallow wells and is particularly suited for drive by Southern Cross Diesel Engines and Electric Motors, forming compact and sturdy pumping units.

SPECIFICATION:

TYPE: Single cylinder, double acting, pumping on both the forward and backward strokes.

GEAR DRIVE: Machine cut gears on steel shafts

GEAR RATIO: 4.667 to 1.

RECIPROCATING MECHANISM: The drive is transferred from crankpins on the drive gear shaft through two steel connecting rods, fitted with replaceable white-metal bearings, to a crosshead to which a corrosion resisting brass plunger rod is attached.

PLUNGER ASSEMBLY: Fitted with two opposed leather buckets and removable through Pump End Plate.

PUMP BARREL: Replaceable heavy drawn brass tubing.

VALVES: Special quality rubber, spring loaded, with gunmetal seats. Easily accessible through port covers.

PACKING GLAND: Adjustable screwed brass type, using graphited rubber packing.

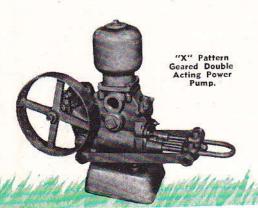
AIR CHAMBER: An air chamber is fitted as standard.

Mark	PUMP		Screw	ed For	Pump	Pulley Speed r.p.m.	Capacity	Maximum	Power	WEI	T	
	Bore	Stroke	Suction	Discharge	Strokes Per Minute		per hour	head in feet	redd. for Max. head	Nett	Packed	PRICE
XA	3 in.	5 in.	12"	11"	50	233	700 Gls.	230	2 h.p.	2 cwt.	3 cwt.	£39 10
XB	4 in.	5 in.	2"	1.1"	50	233	1220 Gls.	140	2 h.p.	24 cwt.	3½ cwt.	£44 10
xc	5 in.	5 in.	21"	2"	50	233	1920 Gls.	95	2 h.p.	21 cwt.	34 cwt.	£50 10

The following Flat Belt and Vee Belt Pulleys can be supplied, if required, at prices shown:—

FLAT BELT PULLEY 15 in. Diameter x 3 in. Face VEE BELT PULLEY 15 in. P.C.D. 4 "A" Groove

Prices are F.O.R. Toowoomba, Brisbane, Rockhampton, Townsville, Sydney, Melbourne, Adelaide, Perth, or delivered Fremantle



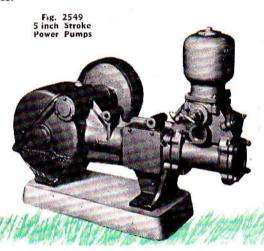


SOUTHERN CROSS GEARED SELF-OILING HIGH HEAD POWER

These are double acting Power Pumps assembled to a totally-enclosed self-oiling drive gear. Southern Cross manufactures two modelsone of five inch stroke (illustrated as Fig. 2549) and one of six inch stroke (illustrated on next page as Fig. 2550).

They are high efficiency pumps meant for the bigger jobs and are particularly suited for pumping comparatively large quantities of water against high heads, and for pumping over long distances.

All the working parts of Southern Cross Geared Self Oiling Power Pumps are fully enclosed for protection against weather and dirt; lubrication to all working parts is automatic, so the pumps can be run for long periods and can be depended on to give years of troublefree service.



WATER BY-PASS

A water by-pass is fitted to "X" Pattern Pumps and the Geared Self Oiling Power Pumps—Figs. 2549 and 2550. A Water By-pass is fitted to enable the engine to be relieved of most of the load when starting. This by-pass is opened before the unit is started so that some of the water is by-passed from the discharge back into the

Then, when the engine has attained its correct speed, the by-pass is closed and all the water is pumped along the discharge line.

AIR CHAMBER

On the Geared Self Oiling Power Pumps, Fig. 2549 and Fig. 2550, and the "X" Pattern Geared Power Pumps, an Air Chamber is fitted as standard. The purpose of an Air Chamber on the discharge side of the pump is to even out the flow of water through the pipe lines and prevent shock loads which could cause damage, particularly when pumping through long discharge pipes. The action of the Air Chamber in maintaining an even flow of water through the discharge line is as follows:-

During the discharge stroke, some of the water being pumped is forced into an Air Chamber thus compressing the air in the chamber. When the pump plunger reaches the end of the discharge stroke, the compressed air in the Air Chamber expands, forcing water through the discharge pipe. This expansion of air keeps the water in motion until the next discharge stroke of the

pump begins.

ELECTRIC MOTOR MOUNTING

If required, electric motor mounting rails for fitting on the drive

gear, can be supplied at a small extra charge. On the Geared Self Oiling Power Pumps, Fig. 2549 and Fig. 2550, and the $1\frac{1}{2}$ " x $1\frac{3}{4}$ " stroke Power Pump, an Electric Motor Mounting Bracket can be supplied for fitting on top of the Drive Gear. This makes a very compact electric motor driven pumping unit and saves considerably on installation costs.

HOW TO ESTIMATE THE QUANTITY OF WATER REQUIRED DAILY-

To estimate the quantity of water required daily allow: I gal, per day per head of sheep; 10 gals, per day per head of cattle or horses; 20 gals, per day per head of dairy cattle; 50 gals, per day per person for domestic uses: that is—household purposes, septic tank installations, shower baths, etc., in an average home; 3000 gals. per day per acre for garden purposes.

us—if garden is 4 of an acre, approximately 750 gals, per day are required. (This is based on providing the equivalent of 1 inch of rain per week over the garden).

SPECIFICATIONS

SPECIFICATIONS FOR BOTH FIG. 2549 AND FIG. 2550

TYPE: Single cylinder, double acting, pumping on both the forward and backward strokes.

PIPE CONNECTIONS: On 2½ in, and 3 in, Fig. 2549 Pumps, the suction is taken from the Water By-Pass side and the discharge is taken from the opposite side.

On the larger Fig. 2549 Pumps, the discharge is taken from the opposite side to the Water By-Pass and the suction may be taken from either side.

On the Fig. 2550 Pumps, the suction and discharge may be taken from either side of the Pump, or the suction from one side and the discharge from the other.

LUBRICATION: Automatic flood lubrication of all moving parts from channels kept full by rotation of main gear.

GEAR DRIVE: Machine cut gears on steel shafts supported between wide replaceable bearings.

GEAR RATIOS: The gear ratios are—
5.114 to 1 for the 5 in. stroke Pumps.
6.07 to 1 for the 6 in. stroke Pumps.

GEARBOX COVER: A removable top cover is fitted to the gearbox to facilitate inspection.

ROTATION: The pump may be run in either direction and, if necessary for any particular installation, the pulley may be transferred to the opposite side of the pump from that illustrated.

RECIPROCATING MECHANISM: Reciprocating motion by eccentric integral with driven gear operating through connecting rod and cross-head on to corrosion resisting brass plunger rod. Splash guard on plunger rod prevents water getting into pump drive gear.

PLUNGER ASSEMBLY: Fitted with two opposed leather buckets and removable through Pump end plate.

PUMP BARREL: Replaceable heavy drawn brass tubing.

VALVES: Special quality rubber, spring loaded, with gunmetal seats: Easily accessible through port covers.

PACKING GLAND: Adjustable flanged brass type, using graphited rubber packing.

WEIGHTS:

Nett Weight	Packed Weight
4½ cwt.	5+ cwt.
4 cwt.	5} cwt.
43 cwt.	6 cwt.
43 cwt.	6 cwt.
43 cwt.	6 cwt.
8} cwt.	101 cwt.
8½ cwt.	10½ cwt.
8½ cwt.	10½ cwt.
	44 cwt. 44 cwt. 44 cwt. 44 cwt. 85 cwt. 85 cwt.

FREE ADVISORY SERVICE

To obtain the most efficient and economical pump and power unit combination, call in men experienced in water pumping problems. This advisory service of Southern Cross is free and places you under no obligation whatsoever. To obtain the service, simply call



your nearest Southern Office and ask for a Water Technician to call. Your request will receive prompt attention

MPS-

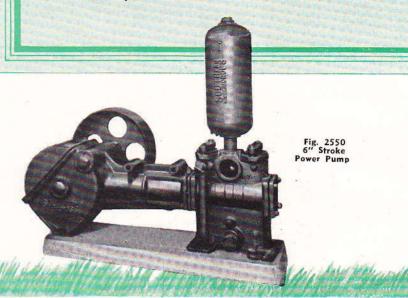
Motor Units.

PRICES OF SOUTHERN CROSS POWER PUMPS — Figs. 2549 and 2550

Mark	Bore	Stroke	Suct.	Disc.	Pric	:e
AN-E	2½in.	5in.	l≟in.	1¼in.	£7	5
AN-F	3 in.	5in.	$1\frac{1}{2}$ in.	14in.	£8	3
AN-G	3½in.	5in.	2 in.	1 <u>1</u> in.	£10	8
AN-H	4 in.	5in.	2 in.	$1\frac{1}{2}$ in.	£11	1
AN-J	5 in.	5in.	2½in.	2 in.	£12	1
AN-I	4 in.	6in.	2½in.	$2\frac{1}{2}$ in.	£19	2
AN-K	5 in.	6in.	3 X in.	3 X in.	£20	3
AN-L	6 in.	6in.	4 in.	4 in.	£218	
23in. dia. x	2549 Pt	ump . ce Flat	 Belt Pi	£5 ulley		
21½in. P.C.E Pulley f	O. 4 ''A' or Fig. 25	Groov 49 Pur	re Vee	Belt £9		
	or Fig. 25	549 Pur	np	£14	10	0
21½in. P.C.I Pulley f	O. 6 "B" or Fig. 25				10	0
28§in. P.C.I Pulley f				Belt £21	10	0
The selection when these p						

* Warranty >

The Company agrees with the original purchaser of each Southern Cross Pump that, at any time within twelve months from the date of despatch of such Pump, the Company will supply new part or parts without charge at the original point of despatch to replace any part or parts which, on return freight prepaid, prove to the satisfaction of the Company to be defective in material and workmanship.



Prices are F.O.R. Toowoomba, Brisbane, Rockhampton, Townsville, Sydney, Melbourne, Aidelaide, Perth or delivered Fremantle

PUMPING TABLE MINIMUM H.P. REQUIRED AT PUMP PULLEY FOR HEADS OF: 150 ft. 225 ft. 300 ft. 400 ft. 500 Gal. per Hour after allowing 10% reduc-tion under pressure Screwed Suction D Stks. Pump Discharge Pulley R.P.M. Mark Bore Stroke per Minute 150 ft. 500 ft. 40 210 2.0 355 1 2 1.6 2.5 AN-E 21in. 5in. 1 1in. 14in. 3.0 50 260 440 1.3 1.8 2.3 3.0 3.7 60 315 530 1.5 2.1 2.8 3.6 4.4 1.3 1.7 AN-F 1 lin. 40 210 520 2.2 2.8 3.4 3 in. 5in. 13in. 650 50 260 1.5 2.1 2.7 3.5 4.3 780 1.8 2.4 60 315 3.0 3.8 4.6 AN-G 3-1 in. 2 in. 1½in. 40 210 720 1.5 2,1 2.7 3.5 4.3 5in. 900 5.1 50 260 1.8 2.5 3.2 4.2 60 315 1080 2.0 2,9 3.8 5.0 6.2 40 210 950 2.2 2.9 4.5 AN-H 4 in. 5in. 2 in. 1 1 in. 3.6 50 260 1185 2.7 3.4 4.2 5.2 60 315 1425 3.0 3.9 4.8 6.0 40 210 1500 2.8 3.6 4.4 5 in. AN-J 2 in. 5in. 2½in. 50 260 1875 3.4 4.4 5.4 60 315 2250 4.0 5.2 6.4 40 245 1125 2.4 3.3 4.1 5.3 6.4 21in. AN-I 4 in. 6in. 2-in. 305 1400 3.8 4.9 7.8 50 2.7 6.4 3.1 4.4 9.2 60 365 1675 5.7 7.4 3 in. 40 245 1775 3.2 4.5 5.8 7.5 AN-K 5 in. 6in. 3 in. 50 305 2225 3.8 5.5 7.2 9.4 6.5 8.5 11.2 60 365 2675 4.5 40 245 2600 4.2 6.2 8.2 AN-L 6 in. 6in. 4 in. 4 in. 50 305 3250 5.2 7.7 10.2 3900 6.2 9,2 12.2 60 365

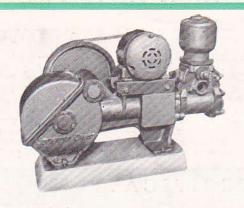
SELECTION TABLE FOR POWER PUMPING UNITS

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Pump Pulley ins.	*** **		4 4A	44 4 4 4A		₹ 4A	4 4V		4 68 4 68								4 68 4 68	68 68 7-7-						
1752	213	213	217 214	213		214	214	217	214							₹12 ₹13	-					Mouni	ngines 4B Gro	
_E E	9 9 P	10	24	ε ₄ 4		00	14	•	200							~ 12.	ecaso.					wheel	M-D E	
Engine or motor R.P.M.	1500	1440	1350	1500	970	1350	970	970	1350							1050	970	1310				for Fly	pulley pulley	uls.
TO Diesel Engine or Electric Motor	Diesel Motor	Motor	Diesel Motor	Diesel Motor	Motor	Diesel	Motor	Motor	Notor	8						BD-C Diesel	BD-C Diesel 10 h.p. Motor	iesel . Motor				Engine Pulleys are for Flywheel Mounting	The pump pulley used with EW-D Engines has Grooves and the engine pulley has 4B Grooves will not the control of	stallatio
Diesel Engi or Electric Motor	EU-C C	h.p.	EW-D [5 h.p.	EU-C E	d.	EW-D 6	я. д.	7. h.p.	EW-D Diesel					3		0 -4 0 -4 0 -4	BD-C Diesel	BD-C Diesel 12½ h.p. Mo				Pulley	the the	ese in
Pump Pulley ins.	4.4 4.4	44 4 5	4 4 4 4	4 4 4	4 4	4 4 4	44 44 ™	4	6B 6B	4		68 68				68	68 68	68	68	88	20 6B 6B	ngine	es an	en t
	217	217	213	217	717	213	217	12	213	121	12	217				12	77	214	213	217	28章			used
F HEAD Engine or motor Pulley ins.	TY-P	44	44	L) C	44	₩4	w at.	۱٥	W.	14	10	N.				12,	Ŋ٢	r-8	S.	ωr-	08		Ĉ	
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TO Diesel Engine or Electric Motor	ш,	EU-C Diesel 5 h.p Moto	EU-C Die 5 h.p. N	L		_	C Diesel	h.p.	h.p. A	h.p.	h.p	EW-D Diesel 7½ h.p. Moto				h.p. Motor	EW-D Diesel 7½ h.p. Motor	BD-C Diesel 10 h.p. Motor	BD-C Diesel 10 h.p. Mo	O. Die	h.p. Me			
	шm	A EU-	2.E.	교	피오	ЩW	EU-C D	'n	₹ **	ın	7			-		7.}		-02 -02	- B	BD-123	123 P	- 12		
Pump Pulley ins.	213 4A 213 4A	213 4A 213 4A	214 4A 214 4A	1101111000	214 4A 214 4A	213 4A 213 4A	213 4A 214 4A	214 4A 214 4A	214 6B 214 4A	213 4A 214 4A	213 6B	21½ 6B 21½ 6B	21. 4A		214 6B 214 6B		213 6B 213 6B	214 6B 214 6B			283 5C 213 6B			28 5 21 214 6B
HEAD Engine or motor Pulley ins.	m m ≓a	44	4.4 -yui4	n m	44	4 4 1,044	u, u, w-jw-jw	44	₩ <u>4</u>	w 4	ļω	20	14	77	NL-	-		98		_	-8		vr :	
1300 FEET HEAC Engine Engine or or motor motor R.P.M. Pulley	500	250	500	500	425	1500	280	004	1350	970	970	1350	970	970	970		300		970		940			970
m	- 1-				7	k	<u>ا</u>			_ io	84.	'n	1	-		1	_	-	5	<u></u>	_		oto -	5
TO Diesel Engine or Electric Motor	Diesel Motor	Diesel . Motor	Diesel Motor	U-C Diesel h.p. Motor	Diesel Motor	Diesel Motor	Diesel Motor	Diesel Motor	Diesel	Diesel	Motor	Diesel	Motor	p Motor	Diesel D. Motor	Mofor	'-D Diesel h.p. Motor	Diesel 5. Motor	. Motor	BD-C Diesel 10 h.p. Motor	Diesel	o. Motor	BD-C Diesel	GE-C Diesel 15 h.p. Motor
Diese	EU-C E	EU-C E	EU-C D	EU-C 3 h.p.	EU-C D	EU-C 6 5 h.p.	EU-C D	EU-C D	EW-D 5 h.p.	EU-C. E	5 h.p.	EW-D D	5 h.p.	7.4 h.p	EW-D DI 7½ h.p.	5 h.p.	EW-D	EW-D D 7.½ h.p.	7.½ h.p.	30-C 10 h.p.	GE-C 10 h.p.	10 h.p.	3D-C	ابد عابد
Pulley Pulley ins.	4.4 4.4	4 4 4 4	4.4 4.4	4 4 4 4	44 44	4.4 4.4	4 4 4 4 4	4 4 4	4.4 4.4	4 4 4 4	4 4 4 4	44 44	4 4 4 4	4	68 68	6B	6B 6B	68 68	6B	6B 6B	88 68	6B 6B	68 68	68 68
•	214 214 214	217	217	213	217	21½ 21½	213	22 44 44	214	217	217	213	214	12	227	213	217	22 444	213	217	2 2 2 4 1 4	213	777	217
T HEAD Engine or motor Pulley ins.	m m	44	44	ww ⊷×->∞	44	17.4 	m m	44	44	w 4	44	₩ <u>4</u>	w 4	10	W.	18	101	νω	5.4	ω Γ	98	7 Y	or 1	000
TO 225 FEET HEAC gine Engine Engine or or c motor motor R.P.M. Pulley	1280	1250	1500	1280	1400	1225	1500	1250	1500	970	1400	1350	1500	970	1350	970	1300	1350	970	970	970	970		970
TO 2.	Diesel Motor	Notor Motor	Diesel Motor	iesel Motor	Motor	Diesel · Motor	Notor Motor	Motor	iesel Motor	Notor Motor	Motor	Diesel Motor	iesel Motor	Motor	esel	Motor	Diesel	Notar Motar	Mator	Motor	sel	Sel	Motor	BD-C Diesel
TO 2 Diesel Engine or Electric Mofor	J-C Die	EU-C Diesel 2 h.p. Moto	EU-C Diesel 3 h.p. Moto	J-C Diesel h.p Mot	C Diesel	J-C Die	C Diese	EU-C Diesel	-C Diesel h.p. Moto	EU-C Diesel 5 h.p. Moto	EU-C Diesel 5 h.p. Moto	V-D Diesel h.p. Moto	Δ.	h.p.			0 0	EW-D Diesel 5 h.p. Moto	h.p.	EW-D Diesel 7½ h.p. Motor	EW-D Diesel 7½ h.p. Motor	BD-C Diesel	6B 10 h.p. Motor	h.p.
	EU-C				EU-C E	шm	EU-C E		S P.O.	25.	50.0	N. N. D. D. O. d.	교	ın	EW-D D		EW-D C	3, c				8D-1	90 6	12½ 12½
Pump Pulley ins.	213 4A 214 4A	213 4A 213 4A	214 4A 214 4A	214 4A 214 4A	213 4A 213 4A	213 4A 213 4A	214 4A 214 4A	213 4A 213 4A	214 4A 214 4A	214 4A 214 4A	214 4A 214 4A	213 4A 213 4A	213 4A 213 4A	213 4A 213 4A	214 6B 214 4A	213 6B	211 6B				214 6B 214 6B		213 66	21½ 68 21½ 68
HEAD Engine or motor Pulley ins.	33.1		74		gy.	80.00	- N-30	44	44	e in	44	44	-×-∞ mm	44	7.4 44	125000	101		-	NL MI			ωr. 1	
TO 150 FEET HEAC gine Engine, Engine or or c motor motor R.P.M. Pulley	1280		1225	-		1225	1280	1250	5 8	500	250			1400	350	970	1300		70000	10.00	970	076	970	970
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TO Diesel Engine or Electric Motor	Diesel	Diesel	Diesel	Diesel	Diesel . Motor	Diesel . Motor	Diesel Motor	Diesel Motor	Diesel . Motor	Diesel	Diesel Motor	Diesel Motor	Diesel .	Diesel	Diesel	Motor	Diesel	Diesel	Moto	Diesel	Diesel	10.7%	Diesel	Diese
Diese Ele Mc	EU-C D	EU-C (EU-C D	EU-C E	EU-C 1	EU-C P.p.	EU-C C	EU-C E	EU-C 3 h.p	EU-C E	EU-C 5 h.p.	EU-C 3 h.p.	EU-C Diesel 5 h.p. Moto	EW-D. Diesel 5 h.p. Motor	8 h.p.	~	EW-D 5 h.p.	5 h.p.		EW-D 5 h.p.	5 h.p.	EW-D D 7⅓ h.p.	EW-D Diesel
ialls, per Ir. after allowing % reduc- ion under Pressure	200									-		-										500		
GT0*	355	440	530.	520	650	780	720	900	1,080	950	1,185	1,425	1,500	1,875	2,250	1,125	1.400	1,675	1,775	2,225	2,675	2,600	3,250	3,900
Pump Mark		AN-E	23"x 5"		A N-N	3"x 5"		D-NA	33"x 5"		ANA	4"x 5"		YN-	2"x 5"		AN-I	4"x 6"	200	AN-K	5"x 6"	1000	AN-L	6"x 6"
	_		10.00	_	-			-	100		650	*				1		4.		7	41		8	100

The Southern Cross EU-C Air Cooled Diesel is 4 h.p.
The Southern Cross EH-D Air Cooled Diesel is 8 h.p.
The Southern Cross BD-C Radiator or Tank Cooled Diesel is 12½ h.p.
The Southern Cross GE-C Radiator Cooled Diesel is 25 h.p.

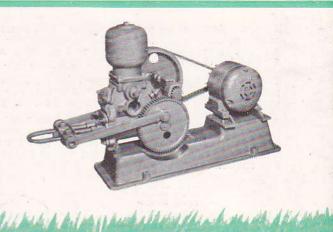
While every care is taken in the preparation of this folder, the Southern Cross policy is one of constant improvement to its products. Therefore, the illustrations, specifications and prices are subject to change without notice.

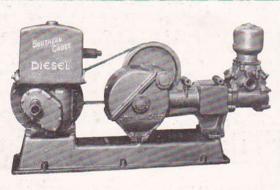
TYPICAL SOUTHERN CROSS POWER PUMPING UNITS



On left is illustrated a Southern Cross 3½" x 5" stroke Geared Self Oiling Power Pump driven by a Southern Cross Electric Motor mounted on angle steel rails, fitted to the drive gear; drive is by four "A" type Brammer V-Belts.

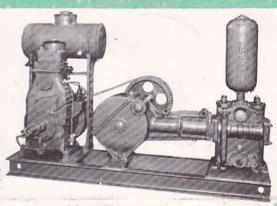
On right is illustrated a Southern Cross "X" Pattern Pump driven by a Southern Cross Electric Motor, driving 4 "A" type Brammer V-Belts, all mounted on a cast-iron





The unit illustrated on left is a Southern Cross Mark EU-C 4 H.P. Air Cooled Diesel Engine driving by 4 "A" type Brammer V-Belts a Mark AN-G 3\\\\" Bore x 5" Stroke Geared Self Oiling Power Pump, mounted on a cast-iron base.

On right is illustrated a Southern Cross 12½ h.p. Mark BD-C Diesel Engine for tank cooling, driving by 6 "B" type Brammer V-Belts, a Mark AN-K 5 in. bore x 6 in. stroke geared self-oiling power Pump, mounted on a channel steel base.



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