



SPECIALISED FORCE
HYDRAULIC TOOLS &
ELECTRICAL CONTRACTORS EQUIPMENT
PTY. LTD.

Winches



www.specialisedforce.com.au

D. WINCHES

118–141

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PORTABLE CAPSTAN WINCHES

Portable Winch Co. offers portable tools for lifting and pulling loads. All of their products are designed to perform complex or strenuous tasks in a simple manner. Their wide product range is used around the world in diverse applications such as farming, forestry, hunting, construction, telecommunication and infrastructure. Portable Winch design winches incorporating exclusive features and technology enabling great autonomy while being inherently safe to use. Therefore they are portable, compact, simple and easy to use.

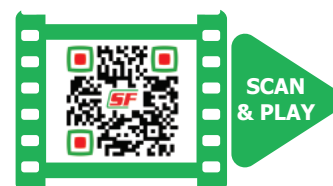


SECTORS AND APPLICATIONS

- Telecommunication infrastructures, towers and antennae
- Power utility infrastructures, pylons, poles and transmission lines
- Lifting transformers and isolators
- Fibre optic installation and cable pulling
- Search and rescue operations
- Agriculture and forestry
- Construction
- Mining, oil & gas
- Railway cable pulling
- Marine applications, such as pulling nets, boats or docks
- Scientific research
- Adventure and exploration

ADVANTAGES

- Light
- Powerful
- Portable
- Reliable
- Durable
- Rugged
- Tireless
- Simple
- Safe
- Compact
- Constant
- Quickly Attach
- Unlimited Length of Rope
- Smart



PORTABLE WINCH UNIQUE FEATURES

LIGHT AND PORTABLE	One can carry it where it is needed
HIGH-PERFORMANCE	Constant pulling power and many variants of power and speeds depending on the engine and drum selected.
AUTONOMOUS	Since the winch is equipped with either petrol-powered engine, or LI-ION Battery, no external energy source is required.
RELIABLE	Reliable Honda petrol or battery operated engine will start, no matter what.
ENDURING	Highest quality components ensure continuous use and long life.
SIMPLE	Once the winch is anchored, you need only to wrap the rope around the drum and pull.
SAFE	The operator is never standing in the pulling axis.
UNLIMITED ROPE LENGTH	Thanks to the capstan principle, the rope does not accumulate on the drum but merely goes through.
SYNTHETIC ROPE	No more wire rope! Polyester ropes have low stretch properties and are very comfortable to work with.
QUICK ANCHORING	Anchor your winch to anything in a few seconds.





PORTABLE WINCH PRODUCT STANDARDS – DECLARATION OF CONFORMITY

WINCHES PCW-3000-LI-AIK, PCW4000, PCW5000, PCW3000, PCT1800, PCH1000, PCH2000

All winches are designed, manufactured and tested according to **European Standard EN 14492-1:2006 Power Driven Winches**. They also comply with **Machinery Directive 2006/42/CE** and associated standards and regulations. They also comply with **Australian Standard AS1418.2-1997: Serial hoists and winches and ISO standard 19472:2006 Forestry Winches**. All winches are designed under the guidelines of **ISO standard 12100:2010 Safety of machinery- General principles for design- Risk assessment and risk reduction**.

All electrical components are **CSA approved**.

Lifting winches **PCH1000** and **PCH2000** are designed, manufactured and tested according to **ASME Standard B30.7-2011 Winches (formerly titled Base-mounted drum hoists)**. Each winch is tested at the factory before shipping and test results are available upon request.

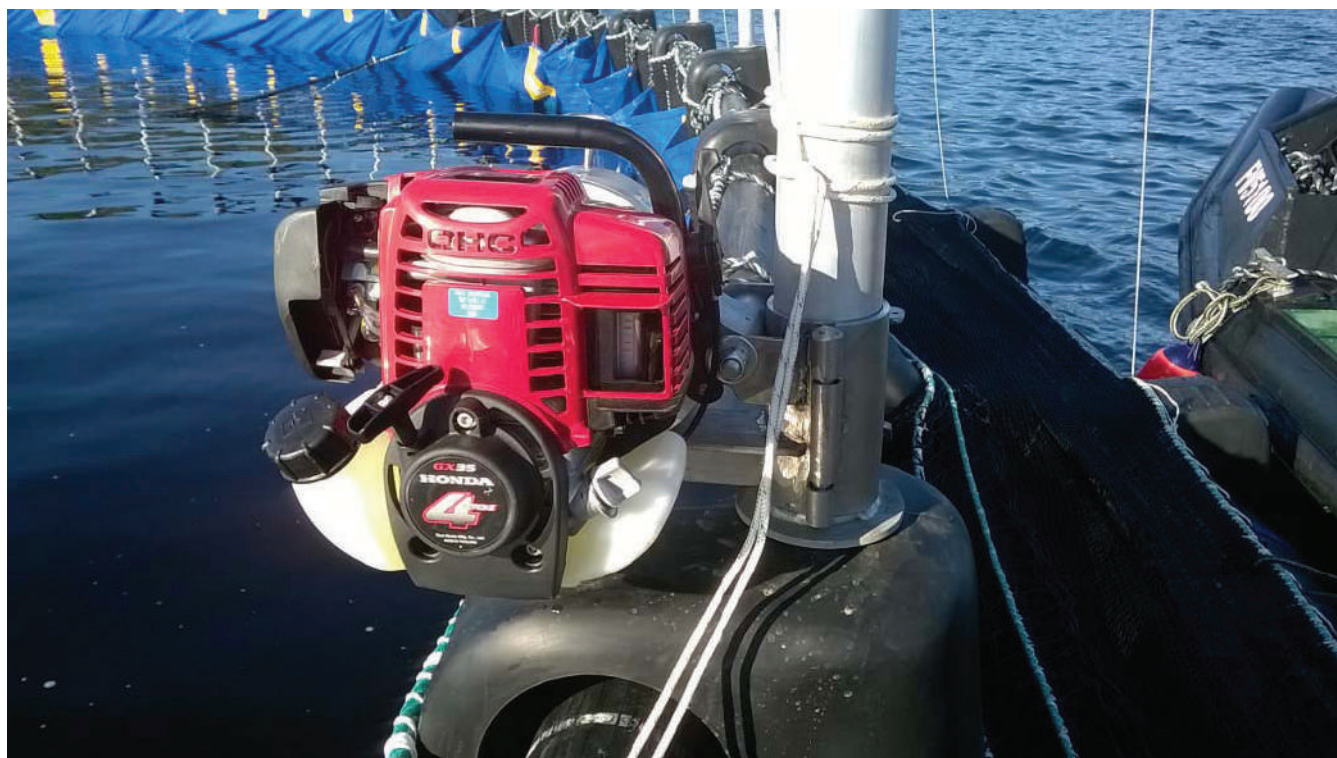
Lifting winches are classified as M3 according to **ISO Standard 4301-1:2016 Crane and lifting appliance classification**.

ROPES

All ropes are manufactured according to **EN ISO 10547:2009 Polyester Fibre Ropes- Double Braid Construction**. Ropes are marked according to **EN ISO 9554:2005 Fibre Ropes- General Specifications** with a printed tape between the core and cover indicating the appropriate ISO standard, material, quality and origin. They are also labelled according to ISO 9554 and include instructions for the proper use and inspection. Additional information, including test certificates from the manufacturer and detailed inspection criteria are available upon request.

PULLEYS

Pulleys **PCA-1271, PCA-1272, PCA-1292** are designed, manufactured and tested according to **EN 12278:2007 Mountaineering Equipment- Pulleys- Safety Requirements and Test Methods**. They meet the requirements of **Personal Protective Equipment Directive 89/686/CE** and are certified by an independent body.





PORTABLE CAPSTAN WINCH PCW4000

Petrol Powered pulling winch with quick release automatic anti roll-back device.

Engine	All Positions, 4-Stroke, Honda GX50
Gearbox	Aluminum alloy gearbox. Heat-treated 3-stage helical and spur gears. Shaft mounted on ball bearings. Oil bath lubrication
Gear Ratio	200:1
Clutch	Type: Centrifugal Operate With: Quick release automatic anti-roll-back device
Brake	Anti-reversing roller clutch bearing
Dimesions (overall)	42 cm x 30 cm x 28.5 cm
Drum	Ø 76 mm
Rope Recommended	Double braided polyester with low stretch PORTABLE WINCH CO. Length: Unlimited Min Diameter: 10 mm Max. Diameter: 12 mm
Included	Polyester sling 2 metres
Weight	12 kg
Power	1.4 kW



POWERED by
HONDA



PERFECT CONTROL WITH THE ANTI ROLLBACK MECHANISM

After nearly two years of work, Portable Winch Co. pulls off another master stroke in offering a winch that, while staying true to its predecessors by its power, its light weight and its reliability, stands out with a new feature that provides perfect control over the movement of a load : the quick release automatic anti rollback mechanism, also know as the ARM.

Also, since the PCW4000 is equipped with the Honda GX50 engine, a centrifugal clutch, a rope retention system and 1,000 kg of power in direct line, it becomes a formidable competitor on the market!



PORTABLE CAPSTAN WINCH - OVERVIEW



Model No.	Specifications	Model No.	Specifications
	Max Pull* (kg): 700 Max. Pulling Speed* (m/min): 10 Weight (kg): 9.5 Petrol Powered		Max Pull* (kg): 775 Rated Lift Capacity* (kg): 250 Max. Pulling Speed* (m/min): 12 Weight (kg): 19 Petrol Powered
PCW3000		PCH1000	
	Max Pull* (kg): 1000 Max. Pulling Speed* (m/min): 1 Speed: 8.1 2 Speed: 10 3 Speed: 11.6 Voltage: Battery: 82V 2AH Weight (kg): 9.5 Battery Powered		Max Pull* (kg): 1150 Rated Lift Capacity* (kg): 450 Max. Pulling Speed* (m/min): 20 Weight (kg): 34.5 Petrol Powered
PCW-3000-Li-AIK**		PCH2000	
	Max Pull* (kg): 1000 Max. Pulling Speed* (m/min): 12 Weight (kg): 16 Petrol Powered		Max Pull* (kg): 1000 Rated Lift Capacity* (kg): 250 Max. Pulling Speed* (m/min): 4.8 Voltage: 230/50 VAC / Hz Weight (kg): 16 Electric Powered
PCW5000		PCT1800-50HZ-P-230V	
	Max Pull* (kg): 500 Max. Pulling Speed* (m/min): 24 Weight (kg): 16 Petrol Powered		Max Pull* (kg): 1000 Max. Pulling Speed* (m/min): 13.4 Weight (kg): 12 Petrol Powered Special Features: - Fitted with 360° tilting engine - Fitted with quick release automatic anti-roll back device
PCW5000-HS		PCW4000	

*Ratings based on use with standard size drum.

**See page 129 for full kit option - PCW-3000-Li-AIK(C)

PORTABLE CAPSTAN WINCH – SPECIFICATIONS



PORTABLE CAPSTAN WINCH – SPECIFICATIONS

* Battery: Briggs & Stratton 82V 2AH (See Page 128 for Battery & Charger)

Register your winch at www.portablewinch.com and get 1 EXTRA YEAR of warranty for FREE



Model No.	PCW4000	PCW3000	PCW-3000-Li-AIK	PCW5000	PCW5000-HS
Designed for Pulling	Yes				
Designed for Lifting	No				
Engine/Motor & Gear Box					
Engine/Motor	All positions, 4-Stroke, Honda GX50	Honda 4-stroke GX-35 cc (All Positions)	1.0kW Electric Engine*	Honda 4-stroke GXH-50 cc	
Gear Box and Gears	Aluminium alloy gear box. Heat treated 3 stag spur gears. Shafts mounted on ball bearings. Oil bath lubrication.				
Gear Ratio	200:1			110:1	53:1
Brake	Anti-reversing roller clutch bearing	Anti-reversing needle bearing			
Clutch	Centrifugal	No clutch – Direct Drive			
Drum turns with Engine Idling	Yes				
Work Cycle	Continuous		Battery Life: 70 min Approx.	Continuous	
Capstan Drums					
Installed	76mm			57mm	85mm
Optional	–			85mm	57mm
Performance					
Max. Pulling Force					
57mm Drum	–		–	1000 kg	500 kg
85mm Drum	–		–	700 kg	350 kg
76mm Drum	700 kg		1000 kg	–	–
Rated Lifting capacity					
57mm Drum	Not designed for lifting				
85mm Drum					
Max. Pulling Speed					
57mm Drum	–		–	12m/min	24m/min
85mm Drum	–		–	18m/min	36m/min
76mm Drum	10m/min		11.6m/min	–	–
Rope					
Rope Grabbing System	Yes	No			
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications				
Recommended Diameter	10mm			12mm	
Minimum Diameter	10mm				
Maximum Diameter	12mm				
Weight & Dimensions					
Weight (Dry)	12 kg	9.5 kg		16 kg	
Length	42	28.9cm	31.8cm	36.2cm	
Width	30	35cm	30.2cm	37.1cm	
Height	28.5	26.1cm	31cm	36.1cm	
Other					
Certification		CE			
Classification (ISO) Lifting	–				
Anchor					
Included	Polyester sling 60mm x 2m (PCA-1260)				
Optional	Full line of accessories				
Warranty					
Private Use	5 years				
Commercial Use	1 year				



PORTABLE CAPSTAN WINCH – SPECIFICATIONS

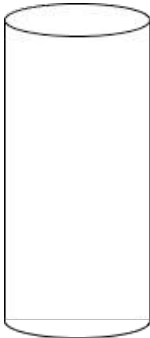



















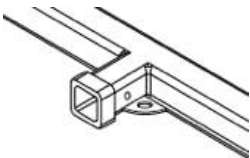







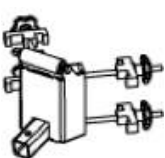









Model No.	PCH1000	PCH2000	PCT1800-50HZ-P-230V
Designed for Pulling	Yes		
Designed for Lifting	Yes		
Engine/Motor & Gear Box			
Engine/Motor	Honda 4-stroke GXH-50 cc	Honda GX-160 cc	AC Electric Baldor TEFC 230 VAC – 1ph – 3/4HP – 50HZ
Gear Box and Gears	Aluminium alloy gear box. Heat treated 3 stag spur gears. Shafts mounted on ball bearings. Oil bath lubrication.		
Gear Ratio	110:1	53:1	110:1
Brake	Anti-reversing needle bearing	Double one way bearing	Anti-reversing needle bearing
Clutch	Centrifugal		No clutch – Direct Drive
Drum turns with Engine Idling	No		No idle on electric motors
Work Cycle	Continuous		25% (15 min/hour to prevent motor overheating)
Capstan Drums			
Installed	57mm	108mm	85mm
Optional	85mm	–	57mm
Performance			
Max. Pulling Force			
57mm Drum	775 kg	Not available – use only with 108mm drum	1000 kg
85mm Drum	540 kg		820 kg
108mm Drum	–	1150kg	–
Rated Lifting Capacity			
57mm Drum	250 kg	Not available – use only with 108mm drum	250 kg
85mm Drum	175 kg		250 kg
108mm Drum	–	450kg	–
Max. Pulling Speed			
57mm Drum	12m/min	Not available – use only with 108mm drum	4.8m/min
85mm Drum	18m/min		7.2m/min
108mm Drum	–	20m/min	
Rope			
Rope Grabbing System	Yes – can be disabled		
Type	Low stretch double braided polyester – unlimited length – Eye splice and thimble mandatory for lifting applications		
Recommended diameter	12mm		
Minimum diameter	12mm		
Maximum diameter	13mm		
Weight & Dimensions			
Weight (dry)	19 kg	34.5 kg	27 kg
Length	50.5cm	45.8cm	55.6cm
Width	37.1cm	56cm	36.6cm
Height	36.1cm	35.6cm	36.6cm
Other			
Certification	CE		
Classification (ISO) Lifting	M3		
Anchor			
Included	Polyester sling 60mm x 2m (PCA-1260)		
Optional	Full line of accessories		
Warranty			
Private use	2 years		
Commercial use	1 year		
Bonus warranty	Register your winch at www.portablewinch.com and get 1 EXTRA YEAR of warranty for FREE		

PORTABLE CAPSTAN WINCH – ACCESSORIES REFERENCE CHART



PORTABLE CAPSTAN WINCH – ACCESSORIES

ANCHORING ACCESSORIES REFERENCE CHART				USE		WINCH MODELS								
ANCHOR POINTS		ANCHOR ACCESSORIES			PULLING	LIFTING	PCW3000 PCW-3000-LI-AIK	PCW5000	PCW5000-HS	PCH1000	PCH2000	PCT1800		
	Cylindrical (tree, pole, post, etc.)	PCA-1258, PCA-1259 or PCA-1260			●		●	●	●	●	●	●		
		PCA-1269			●		●	●	●					
			+ PCA-1268		●		●	●	●					
			+ PCA-2264			●					●			
			+ PCA-1264			●				●		●		
+ PCA-1332 + PCA-2264									●					
	PCA-1263	+ PCA-1332 + PCA-1264		●			●	●	●	●		●		
 Vehicle	With tow ball 	48mm to 59mm diameter 	PCA-1261		●		●	●	●					
		50mm diameter	PCA-1261		●		●	●	●					
				+ PCA-1268		●		●	●	●				
				+ PCA-2264			●						●	
				+ PCA-1264			●				●		●	
	+ PCA-1332 + PCA-2264										●			
		PCA-1266	+ PCA-1332 + PCA-1264		●		●	●	●	●		●		
		Hitch for square tube of 50.8mm (2") opening		+ PCA-1268		●		●	●	●				
				+ PCA-2264			●						●	
				+ PCA-1264			●				●		●	
+ PCA-1332 + PCA-2264												●		
+ PCA-1332 + PCA-1264					●		●	●	●	●			●	
 Pylon (with 90° "V" shaped legs)		+ PCA-1268		●		●	●	●						
		+ PCA-2264			●						●			
		+ PCA-1264			●					●		●		
		+ PCA-1332 + PCA-2264										●		
		+ PCA-1332 + PCA-1264		●		●	●	●	●			●		
 Floor		PCA-1805		●		●	●	●	●			●		



PORTABLE CAPSTAN WINCH – DOUBLE BRAIDED POLYESTER ROPES

PCA-1203M2ESC	PCA-1213M2ESC	PCA-1214M2ESC	PCA-1216M2ESC	PCA-1218M2ESC

Model No.	Rope OD (mm)	Length (m)	Minimum Breaking Strength (UTS) (kg)	Roll Dimensions (L x W x H) (cm)	Weight (kg)
PCA-1203M2ESC	10	100	2200	20 x 20 x 28.5	7
PCA-1213M2ESC	12	100	3300	50 x 50 x 20	11
PCA-1214M2ESC	12	150	3300	50 x 50 x 30	18
PCA-1216M2ESC	12	200	3300	50 x 50 x 35	22
PCA-1218M2ESC	12	300	3300	50 x 50 x 50	33

NOTE: All ropes include soft eye splices on each end. UTS = Ultimate Tensile Strength. Suggested safety factors (check local standards or guidelines): Pulling 3:1 / Lifting 5:1.

CASES AND ROPE BAGS

PCA-0100	PCA-0102	PCA-0104	PCA-1630	PCA-0340	PCA-0350

Model No.	Description	Material	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
PCA-0100	Purpose built transport case with moulded locations for the winch and accessories. Suits Models PCW5000 & PCW5000-HS.	High-Impact Plastic	64	55	38	6.65
PCA-0102	Purpose built transport case with moulded locations for the PCW3000. Fits moulded Backpack PCA-0104.	High-Impact Plastic	47	33	31	3.9
PCA-0104	Moulded Backpack for Transport Case PCA-0102 and Rope Bag PCA-0103 or XXL Extra Large Transport Bag PCA-0105	Polymer	52	46	10	1.4
PCA-1630	Waterproof and airtight case with removable casters and folding top handle for PCT1800 or PCH2000 winches and accessories.	Polymer	79	63	44	15.7
PCA-0340	Waterproof and airtight case with casters and retractable top handle for PCW5000, PCW5000-HS & PCH1000 winches and accessories.	Polymer	58	58	56	14.8
PCA-0350	Waterproof and airtight case with folding side handles ideal for PCT1800-50HZ-P-230V and also suitable for PCW-5000, PCW-5000-HS & PCH-1000 winches and accessories.	Polymer	59	56	44	11.3

PCA-0103	PCA-1255	PCA-1256	PCA-1257XL

Model No.	Feature	Material	Diameter (cm)	Height (cm)	Weight (kg)
PCA-0103	Rope Bag - For Backpack PCA-0104. Will store 50 metres of 10 mm rope.	Resistant Vinyl	N/A	36	0.4
PCA-1255	Rope Bag – Small - Two handles. Will store either 50 metres of 12 mm rope or 100 metres of 10 mm rope.	Durable Nylon	28	36	0.5
PCA-1256	Rope Bag – Medium - Will store either 100 metres of 12 mm rope or 200 metres of 10 mm rope.	Durable Nylon	30	64	0.9
PCA-1257XL	Rope Bag – Extra Large - Will store either 200 metres of 12 mm rope or 400 metres of 10 mm rope.	Durable Nylon with Hard Bottom	37	60	1.1



PORTABLE CAPSTAN WINCH – PULLEYS



PCA-1270
Open face corner
block



PCA-1271
Self-Blocking Pulley



PCA-1272
Double Self-
Blocking Pulley



PCA-1273
Double Swing Side
Pulley



PCA-1274
Single Swing Side
Pulley



PCA-1275
Single Swing Side
Pulley



PCA-1292
Single Swing Side
Pulley

Model No.	Feature	Material	WLL (kg)	Sheave Diam. (mm)	Length (cm)	Width (cm)	Height (cm)	Weight (kg)	Rope (mm) Min / Max	Cert.	Min Break Strength (kg)
PCA-1270	-	Steel	N/A	100	25	10	5.8	2.4	6 / 12	-	N/A
PCA-1271	Brake cam system allows the rope to go through freely in one direction and blocks it in the other direction.	Aluminium	N/A	62	23	10.5	8	0.7	10 / 12	CE	4079
PCA-1272	Two sheaves and a brake cam system - allow the rope to go through freely in one direction and block it in the other direction.		N/A	62	22	8.5	6.5	0.9	10 / 12	CE	4079
PCA-1273	Two lightweight 100 mm diameter deep groove aluminium sheaves.	Sides: Stainless steel.	4486	100	23	10.5	8	1.85	10 / 12	-	13775
PCA-1274	-	Sheave: Aluminium	2243	100	19.6	10.5	5.3	1.1	10 / 12	-	9185
PCA-1275	-	Aluminium	1632	76	15	8	3	0.6	10	-	6125
PCA-1292	-	Aluminium	N/A	63	13	9	4	0.3	6 / 12	CE	6000

SPARE PARTS



PCA-1110
Capstan Drum 57mm



PCA-1100
Capstan Drum 85mm



PCA-1120
Capstan Drum 76mm



PCA-1130
Capstan Drum 108mm



PCA-1151, PCA-1152
Spark Arrestor




10-0044
Reversible Safety Lip

Model No.	Feature	Material	Diam. / Hole Diam. (mm)	Weight (kg)
PCA-1100	C/W rope guide and screws.	Aluminium	85 / 25.4	0.75
PCA-1110			57 / 25.4	0.35
PCA-1120			76 / 24.8	0.55
PCA-1130			108 / 24.8	0.75
PCA-1151	For Honda GXH-50 engine.	Aluminium	22 Ø	0.085
PCA-1152	For Gx160 engine		22 Ø	0.12
10-0044	For 57 mm and 85 mm drums. Prevents rope from jumping out of drum on all lifting winches: PCH1000, PCH2000 & PCT1800.		125	0.180



PORTABLE CAPSTAN WINCH – ACCESSORIES

				
PCA-1258 Multi-Purpose Sling	PCA-1259 Multi-Purpose Sling	PCA-1260 Multi-Purpose Sling	PCA-1261 Winch Anchor Plate	PCA-1263 Winch Anchor System
				
PCA-1264 Winch Support	PCA-1265 Adapter for Heck-Pack Anchoring System	PCA-1266 Heck-Pack Anchoring System	PCA-1267 Square Tube with Bent Hitch Pin	PCA-1268 Winch Support Plate with Bent Hitch Pin
				
PCA-1269 Winch Anchor System	PCA-1332 Pivoting Anchor	PCA-1501 Square Tube with Bent Hitch Pin	PCA-1805 Floor Mount Winch Anchor	PCA-1806 Pylon Mount Winch Anchor

Model No.	Description	Material	Length (cm)	Width (cm)	Weight (kg)	WLL (kg)
PCA-1258	60 mm x 3 metres (2-3/8" x 118-1/8").	Polyester	300	6	1.24	2000
PCA-1259	60 mm x 2.5 metres (2-3/8" x 98-7/16")	Polyester	250	6	1	2000
PCA-1260	60 mm x 2 metres (2-3/8" x 78-3/4")	Polyester	200	6	0.92	2000
PCA-1261	For towing balls up to 58.7 mm (2-5/16") diameter.	Zinc plated steel	20	15	0.7	-
PCA-1263	For trees and poles with 3 m (10') strap. Use with PCA-1264 or PCA-1268.	Powder Coated Steel	37	26	7.2	-
PCA-1264	With adjustable shelf and swivel pulley for vertical or horizontal pulling. Installs on PCA-1263, PCA-1265, PCA-1267, PCA-1501, and PCA-1806. If used for horizontal pulling, the pivoting anchor (PCA-1332) is necessary (sold separately).	Powder Coated Steel	55	41	10.6	-
PCA-1265	Bolts on PCA-1266. Use with PCA-1264 or PCA-1268.	Zinc Plated Steel	14	16	1.45	-
PCA-1266	For 50 mm towing balls.	Powder coated steel	46	16	3.05	-
PCA-1267	-	Zinc plated steel	30.5	5.08	2.1	-
PCA-1268	Installs on PCA-1263, PCA-1265, PCA-1267 or PCA-1501.	Zinc Plated Steel	45	29	4.5	-
PCA-1269	For trees and poles with 3 m (10') strap.	Zinc Plated Steel	26	24	4	-
PCA-1332	For the vertical pull support (PCA-1264). Link between PCA-1264 and PCA-1263 or PCA-1806 or PCA-1265 or PCA-1267 or PCA-1501.	Zinc Plated Steel	24	16	3.3	-
PCA-1501	Square tube 50.8 mm x 45.7 cm with bent hitch pin.	Zinc plated steel	45.7	50.8	3.3	-
PCA-1805	Ideal for pulling wire through conduits.	Zinc Plated Steel	51	26	9.4	-
PCA-1806	For pylons angle iron. Use with Winch support plate PCA-1268 or Winch support for vertical pulling PCA-1264.	Powder Coated Steel	32	28	7.7	-



PORTABLE CAPSTAN WINCH – ACCESSORIES

OTHER ACCESSORIES

						
1760426 Briggs & Stratton 82V 2Ah Li Battery	1760428 Briggs & Stratton 230V Charger	PCA-1290 Skidding Cone for Logs	PCA-1291 Automatic Release for Open Face Corner Blocks	PCA-1295 Choker Chain with C-Hook & Steel Pin	PCA-1310 Pulling Plate for Vehicles	PCA-1372 HPPE Rope Choker with Steel Pin

Model No.	Feature	Material	Length	Diameter	Width	Height	Weight	Minimum Breaking Strength (UTS)
1760426	60min Charge Time	High-resistance polymer plastic	21.5cm	-	12cm	8.5cm	2.6kg	-
1760428	Charges 2Ah Batteries	High-resistance polymer plastic	21cm	-	18.5cm	10.5cm	1.5kg	-
PCA-1290	50cm Opening	High-resistance polymer plastic	62cm	50.8cm	68cm	52cm	6.6	-
PCA-1291	Fits ropes up to 13 mm diameter.	Anodised Steel	17cm	-	11cm	11cm	0.405kg	-
PCA-1295	-	Anodised Steel	27cm	6.35mm	14cm	14cm	2.9kg	-
PCA-1310	Fits towing balls up to 50.8 mm (2") diameter.	Anodised Steel	27cm	4.2cm (Knob)	14cm	14cm	1.7kg	-
PCA-1372	Made of 10 mm diameter HPPE rope	High Performance Polyethylene	2.1m	6mm	-	-	0.55kg	7036kg

					
PCA-1276 Steel Locking Carabiner	PCA-1281 Safety Hook	PCA-1282 Locking Grab Hook	PCA-1299 C-Hook for Chain	PCA-1701 Steel Locking Carabiner	PCA-1702 Steel Locking Carabiner

Model No.	Description	Material	Minimum Breaking Strength (UTS)	Diam.	Length	Width	Height	Weight	Cert.	Gate Opening
PCA-1276	With screw gate lock.	Zinc plated with anodized aluminium	2550kg	10mm	17cm	11cm	-	0.16kg	CE	16mm
PCA-1281	Equipped with a spring-loaded safety gate.	Powder coated steel	5700kg	-	17cm	11cm	11cm	0.33kg	-	-
PCA-1282	With latch and 3 chain links. Will accept either 6 mm (1/4") or 7.9 mm (5/16") chain.	Zinc plated steel	-	6mm	17cm	11cm	11cm	0.63kg	-	7.9mm
PCA-1299	Convert an existing chain to an efficient choker chain with this C-Hook	Powder coated steel	5700kg	-	10cm	7.5cm	1.5cm	0.34kg	-	-
PCA-1701	Multi-purpose high-quality zinc plated with anodized aluminium steel locking carabiner with screw gate lock.	Zinc plated with anodized aluminium	7140kg	12.5mm	17cm	11cm	-	0.35kg	CE	25mm
PCA-1702	Multi-purpose high-quality zinc plated with anodized aluminium steel locking carabiner with screw gate lock.	Zinc plated with anodized aluminium	5100kg	12mm	17cm	11cm	-	0.315kg	CE	19mm



PORTABLE CAPSTAN WINCH – KITS

PCW-3000-LI-AIK(C) BATTERY WINCH KIT



INCLUDES

- 1 x PCW-3000-Li-AIK Portable Winch
- 1 x Briggs & Stratton 82V-2Ah Li Battery & 230V Rapid Charger
- 1 x Carry Bag
- 1 x Stainless Steel Pulley Block
- 2 x Carabiners
- 2 x Slings
- 50m x 10mm Double Braided Rope

Customer can also purchase the following options:

1. PCW-300-Li-AIK(CC): Winch kit with 2 batteries and charger
2. PCW-3000-Li-AIK: Winch kit without batteries and charger

PCW-3000HK PETROL WINCH KIT



INCLUDES

- 1 x PCW3000 Portable Winch
- 1 x Transport Case
- 1 x Backpack
- 1 x 1.8m Sling
- 1 x Snatch Block
- 2 x Oval Carabiners
- 50m x 10mm Double Braided Rope
- Rope Bag



CREATING A MECHANICAL ADVANTAGE

The use of pulleys offers a mechanical advantage by reducing the force required to move a mass. It is therefore possible to double, triple, quadruple or quintuple the capacity of a system by using pulleys. In order to generate a mechanical advantage, at least one pulley must be attached to the load. Here are some examples.

Pulling	Lifting
Without Mechanical Advantage - Direct Line	
Mechanical Advantage x 2	
Mechanical Advantage x 3	
Mechanical Advantage x 4	

In general, each pulley must be fixed to a solid anchoring point using a carabiner and a sling while respecting the appropriate safety factor. Therefore, for each pulley, a carabiner of an appropriate capacity and a sling are required.

PORTABLE WINCH-PETROL/DIESEL

GOODWINCH



PETROL WINCH
Model No. "GOODWINCH"

Also available without rope clutches
Model No. GOODWINCH-1

DIESEL WINCH
MODEL No. "GOODWINCH-DIESEL"

FEATURES

- Safe, infinitely controllable pulling, holding, and lowering with the Goodwinch Portable Petrol or Diesel Twin Capstan Winch.
- Variable speed from hold, through creep to a full speed of approx. 25m/min (petrol) & 21m/min (diesel).
- Ideal for pulling cables through ducts, raising portable buildings, clearing debris from rivers, lakes and canals, forestry work, and general rope rescue work, etc.
- Work from either side or run two ropes together to halve the load.
- Two rope clutches (not shown) are included as standard on both models and are used for load holding during lowering or raising loads on transmission towers and similar structures.
- High quality engineering and design. Reliable, easy to start Honda (4 kW) engine or Yanmar (3.5 kW) diesel engine) with a centrifugal gearbox driving the main capstan gearbox and aluminium bollards through a flexible coupling.
- Aluminium frame, two man lift, removable handles for easy storage.

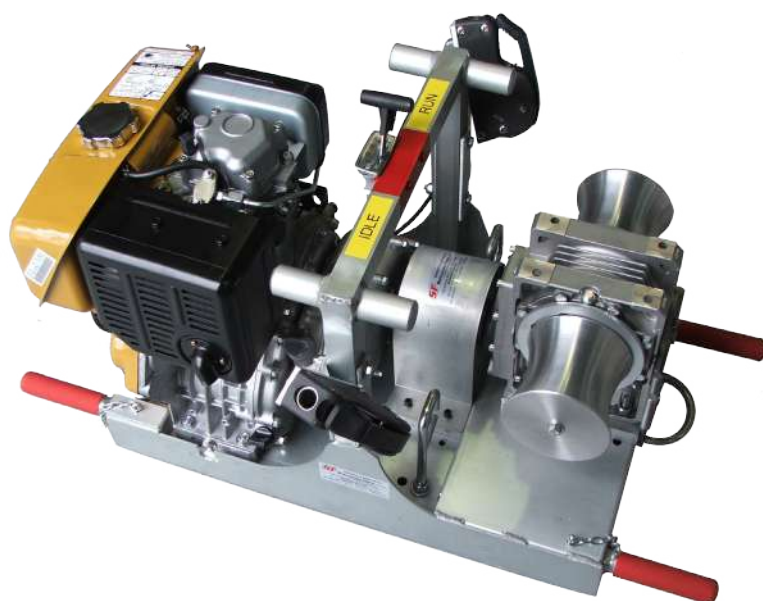


PORTABLE WINCH-PETROL/DIESEL

GOODWINCH

Model No.	GOODWINCH	GOODWINCH-DIESEL
SPECIFICATIONS	Honda Petrol Engine	Yanmar Diesel Engine
Twin Capstans	Aluminium, 100mm Dia	Aluminium, 100mm Dia
Capstan Gearbox	Worm and Wheel, 30:1 ratio	Worm and Wheel, 30:1 ratio
Flexible Coupling	Rubber Anti-Vibration	Rubber Anti-Vibration
Main Engine Gearbox	Centrifugal 2:1 ratio	Centrifugal 2:1 ratio
Engine	4kW 4 stroke	3.5kW Diesel
Base Construction	Anodised Aluminium fabrication	Anodised Aluminium fabrication
Removable Lifting Handles	Bright zinc plated steel, rubber covered	Bright zinc plated steel, rubber covered
Anchor Points	Fitted tested shackles	Fitted tested shackles
Rope Tie Offs	Built in at top of main handle	Built in at top of main handle
PERFORMANCE	Honda Petrol Engine	Yanmar Diesel Engine
Easy start	Manual Choke	Manual Choke
Method of starting	Recoil Starter	Recoil Starter
Emergency Stopping	Top mounted cut off switch	Slide Control on Engine Side
Engine Speed Control	Throttle lever	Throttle lever
Running Time, half throttle	Approximately two hours	Approximately two hours
Load Retrieval Speed	Creep to 25m per minute	Creep to 21m per minute
Pulling Capacity	Maximum 1000 kgs	Maximum 850 kgs
Raising Capacity *	Maximum 300 kgs	Maximum 260 kgs
Recommended Rope Max	14.3mm (9/16") double braided poly.	14.3mm (9/16") double braided poly.
Suitable Rope Length	As required, no maximum	As required, no maximum
DIMENSIONS	Honda Petrol Engine	Yanmar Diesel Engine
With Handles Removed	65cm long x 39cm wide x 42cm high	74cm long x 49cm wide x 47cm high
Approx. Overall Weight	50kgs	53kg

*GOODWINCH supplied with rope clutch, to order without rope clutch use Model No. GOODWINCH-1



ELECTRIC CABLE PULLERS



Model No. 31466
28.9 kN Rated

FEATURES

- Pull heavy loads with minimal operator effort.
- Force Gauge included to constantly monitor the pull.
- Right-angle sheave allows the operator to stand out of the direct line of force.
- Audio alarm high force warning and circuit breaker shut off at maximum force for added safety.
- Tapered capstan and patented rope guidance system for better control of the rope when feeding onto the capstan.
- Runs off 230V/50/1 mains power.
- Patented.
- Direct gear drive with 1.1 KW motor.
- Supplied with clamping chains for pipe as standard.

OPTIONAL EXTRAS

- 35605 (6037) floor mount with 4 anchor's, heavy duty welded construction. Maximum Rated Capacity 28.9 kN, Weight 1.4kg.
- Pelican high force pulling rope recommended dia (19.1mm). Refer page 155 for details.



Model No. 35605 (6037)
Floor Mount

Model No.	Pulling Force	Dimensions (LxWxH)	Weight (kg)
31466	Maximum 28.9 kN Continuous 20.0 kN	527x572x305	49

Pulling Speed

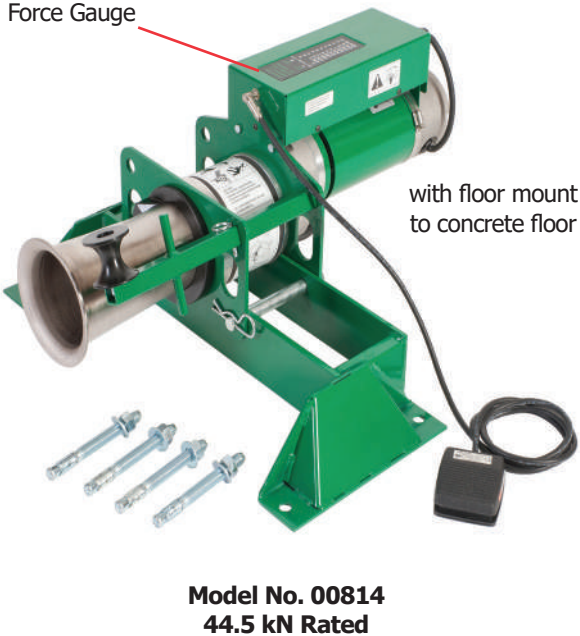
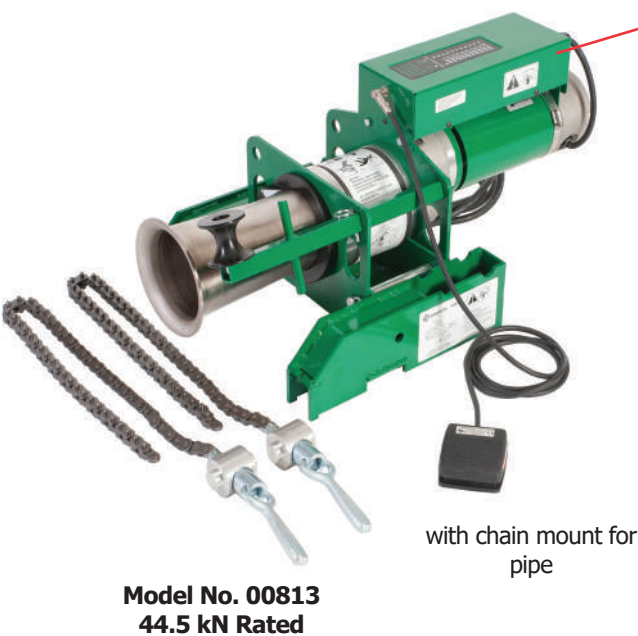
No Load 5 metre/minute

At 8.8 kN 3.4 metre/minute

At 17.9 kN 2.3 metre/minute

At 26.7 kN 1.8 metre/minute

ELECTRIC CABLE PULLERS (CONTINUED)



FEATURES

- 2 speed gear motor enables 20% faster pulling time
- Shifts from high speed/ low load pulling to low-speed/high load pulling with a simple double tap motion on foot pedal.
- Drive motor 1.1 KW 230V/50/1.
- Built in force gauge with overload indicator & shut off.

OPTIONAL EXTRAS

- Pelican high force pulling rope recommended dia (22.2 mm). Refer page 155 for details.

Model No.	Pulling Force	Dimensions (LxWxH)	Weight (kg)
00813 00814	Maximum 44.5 kN Continuous 28.9 kN	660x292x254	42 approx

Pulling Speed
No Load 4.8 metre/minute
At 9.0 kN 4.27 metre/minute
At 18.0 kN 3.66 metre/minute
At 27.0 kN 2.13 metre/minute
At 36.0 kN 1.8 metre/minute

CABLE PUSHER / CABLE FEEDER (MADE IN USA)

The Greenlee Ultra Cable Feeder is intended to pull cable off of reels to assist the Greenlee Capstan puller in feeding the cable into conduit or cable tray. The Ultra Cable Feeder is not intended to pull cable or rope through conduit.



FEATURES

- Feeds cable at variable speeds to match the speed of cable puller
- Accommodates cable ranging in size up to 90mm in diameter
- Now with new tires for improved traction with low friction cables
- Sets up easily and can be operated by just one person
- Dual motors drive each wheel for traction on both sides of the cable
- Comes with pendant and toggle switch. An optional foot switch is available to control feeding
- Two cable loading methods: top-loading and end-loading
- Patented

SPECIFICATIONS

Model No.	12293
Reel Weight Capacity (kg)	11,300
Power Supply (VAC)	230
Size (mm)	1040 x 699 x 953
Weight (kg)	130

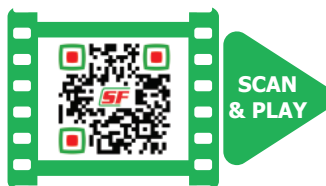
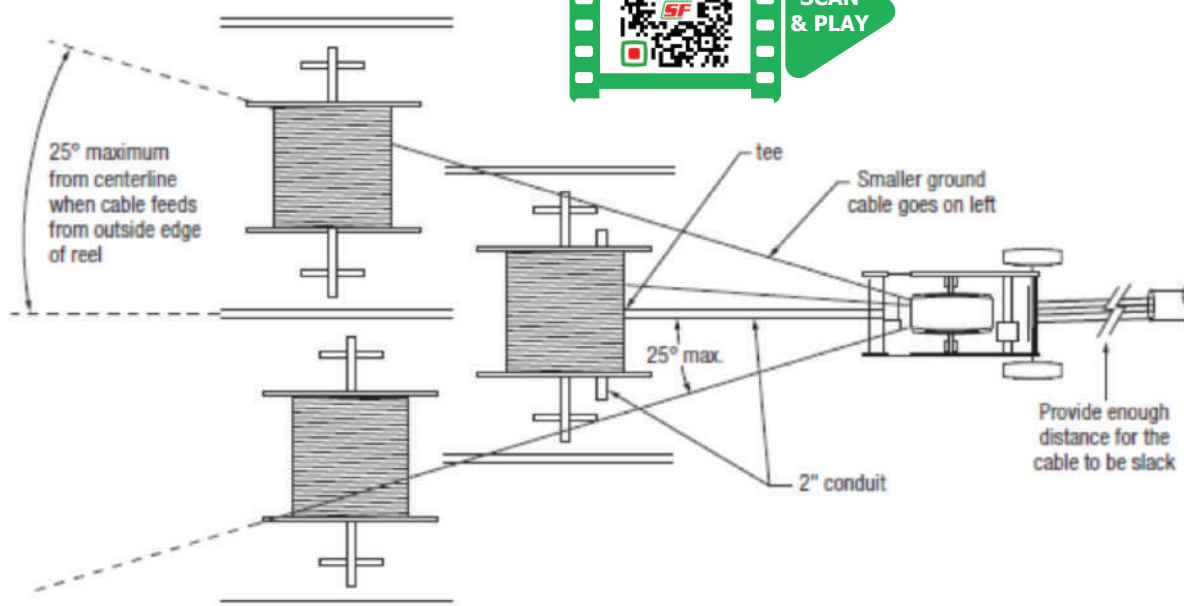
ACCESSORIES

Foot switch available

Model No.	24821
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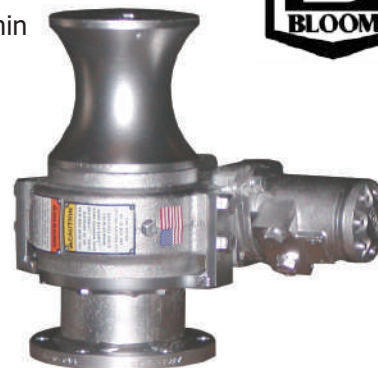
EXAMPLE OF APPLICATION



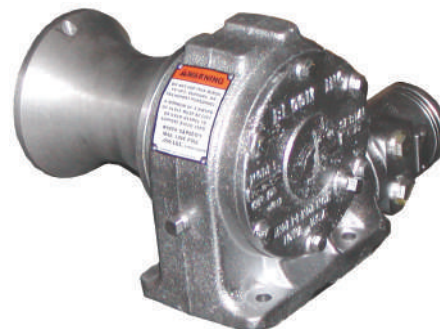
HYDRAULIC WINCHES (MADE IN USA)

SERIES 1000 AND 1100V

682kg Capacity on 10:1 Ratio, 33m/min 1,363kg Capacity on 20:1 Ratio, 17m/min
Operating Pressure 140 Bar, Oil Flow to 60 LPM



Series 1100V Galvanised

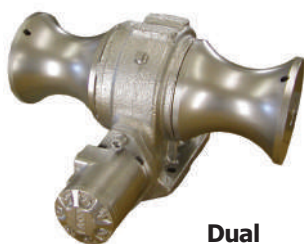


Series 1000 Galvanised

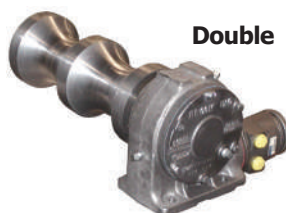
APPLICATIONS

Lifting	Pulling Sliding
Positioning Lights	Underground Cable
Mast Towers Erection	Cable Pulling
Lifting Materials	Unloading Equipment
Overhead Lines	Utility Vehicle Recovery Water
Transformer Replacement	Sewer Pipelines

Optimum performance on 140 Bar Hydraulic System



Dual



Double

Series 1000 Dual Capstan Gal



Series 1000 Painted

STANDARD FEATURES

GEAR CASE	Made of high strength cast iron. Completely sealed for oil enclosed operation and to keep dirt out
WORM SHAFT	One piece alloy steel hardened and ground to insure long service.
WORM GEAR	High tensile aluminium-nickel alloy bronze. Use of optimum lead and pressure angles transmit maximum power to the drum efficiently.
GEAR RATIO	20:1 and 10:1 ratios provide optimum efficiency in power and speed.
BEARINGS	Worm gear and worm shaft run on tapered roller bearings in an oil enclosed gear case.

OUTPUT SHAFT 38mm diameter heat-treated alloy steel minimum tensile strength 10,546kg/Force per sq/metre

CAPSTAN Cast aluminium -keyed to shaft.

MOTOR MOUNT SAE(A) 2-bolt flange. 25.4mm woodruff keyed motor shaft. Motor is directly coupled into worm shaft. No separate coupling required.



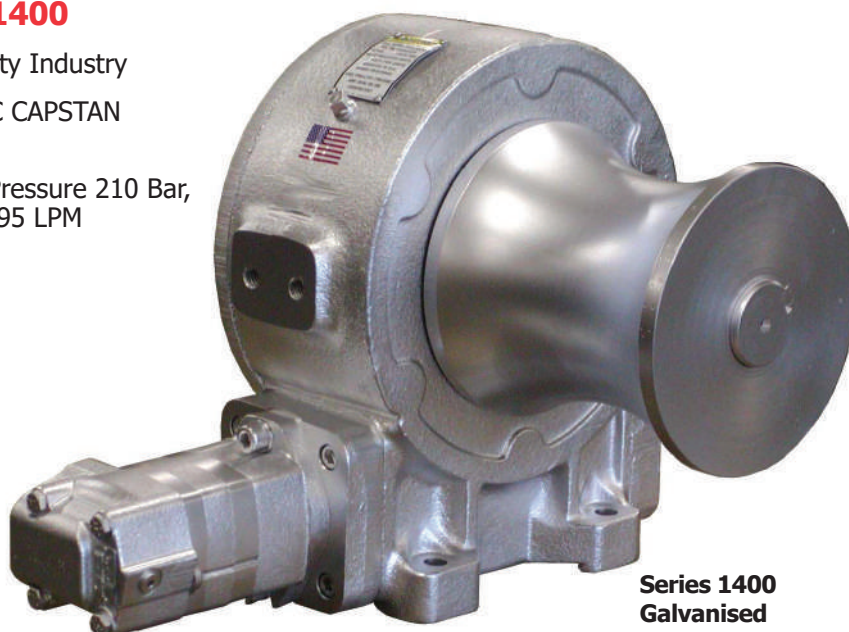
HYDRAULIC WINCHES (MADE IN USA)

SERIES 1400

For the Utility Industry

HYDRAULIC CAPSTAN WINCHES

Operating Pressure 210 Bar,
Oil Flow to 95 LPM



Series 1400
Galvanised

Optimum performance on 207Bar Hydraulic System



FAST DEPENDABLE BLOOM WINCHES

- High strength cast iron gear case, with aluminium capstans keyed to alloy steel hardened shafts
- 25:1 and 12.5:1 gear ratios provide versatility in power and speed
- Speeds of up to 30 MPM and pulls of 3,500KG

CUSTOMISED DESIGNED UTILITY WINCHES AND CAPSTANS



Series 1200C

- Reliable Winches designed for Lifting and Pulling applications..
- Optional Hydraulic Fail-safe and Oil Cooled Disc Brakes available
- Variety of Motors and drums for optimised performance in Utility applications
- Speeds of up to 30 MPM and Line Pulls of 3,500KG pounds



Series 1000KC Painted

WARNING!

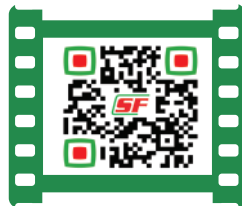
- Goods are not intended for use in the moving or lifting of persons! The winches described herein are neither designed nor intended for use or application to equipment used in the lifting or moving of persons and it is understood that all such use shall be at the sole risk of the user. The cable clamps on winches are not designed to hold rated loads. A minimum of 5 wraps of cable must be left on drum barrel to guarantee holding of rated load.
- Applications of winch where life would be endangered by any event are not recommended

Please contact your local Specialised Force branch for technical specifications

UNDERGROUND PULLING MACHINERY (MADE IN ITALY)



F275.30.P



SCAN
& PLAY

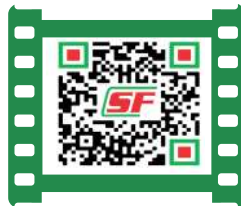


F215.P.30

CATERPILLAR TRACKS FOR PULLERS



F275.30P



SCAN
& PLAY



F280.P.100

DIGITAL BUILT-IN DATA READ-OUT



DEG



SCAN
& PLAY

REMOTE CONTROLS



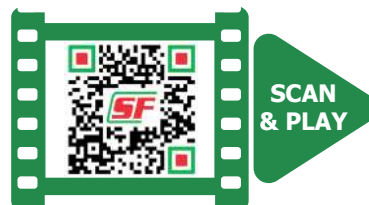
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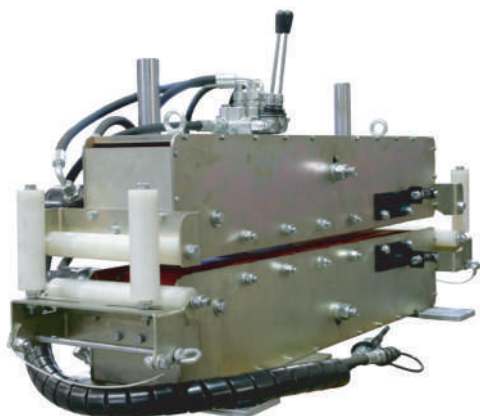
REC.2



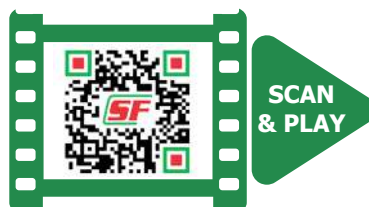
RER.1



CABLE PUSHING MACHINES (MADE IN ITALY)



F224.08



TELESCOPIC RODS FOR PITS



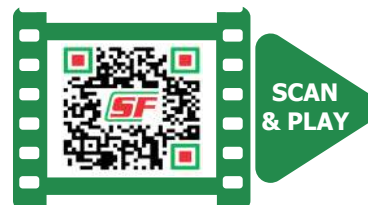
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D WINCHES

www.specialisedforce.com.au

TIRFOR HOISTS (MADE IN FRANCE)



Tirfor® machines are portable manual hoists used with maxiflex wire rope. They can be used to lift, pull and position loads over great distances depending on the wire rope length. They are suitable for use in numerous configurations and are the ideal solution for use in professional applications; they are operated by a simple lever.

The load capacity of the Tirfor® system can be increased by using sheave blocks.

Portable hoist to lift and pull loads, for utilisation in numerous configurations with longer wire rope lengths available upon request.

FEATURES

- Low weight—quick installation
- No limitation in terms of cable length
- Manageable, light-weight, robust, powerful
- Increase load capacity with deflection sheaves
- Overload protection
- Precise load placement within millimetres



T-500 Series



TU Series

WIRE ROPE FOR ALL TIRFORS SOLD SEPARATELY

Model No.	*Lift WLL (kg)	*Pull WLL (kg)	Wt (kg)	Wire Rope Wt @ 20 metre (kg)	**Rope (mm) OD	Wire Rope UTS (kg)	Dimensions (mm) LxWxH	Handle Dimensions (mm) Open/Closed	Replacement Safety Shear Pin	Rope 20 metre & Reeler Model No.
T-508D	800	1,333	6.6	6.1	8.3	4,000	420x250x59	690/400	29506	1959
T-516D	1,600	2,666	13.5	13.1	11.5	8,000	530x315x127	1150/650	29516	2059
T-532D	3,200	5,333	24.0	26.6	16.3	16,000	620x355x130	1150/650	41206	2379
TU-8	800	1,333	8.4	6.1	8.3	4,000	527x265x108	770-510	8836	1959
TU-16	1,600	2,666	20.0	13.1	11.5	8,000	660x330x140	1190-680	8836	2059
TU-32	3,200	5,333	27.0	26.6	16.3	16,000	676x330x156	1190-680	6866	2379

* SAFETY FACTORS: 5:1 LIFTING & 3:1 PULLING unless otherwise nominated or required

** BENDING RADIUS: Wire rope bending radius is to be greater than 12 x the diameter (12 x 11.5mm = greater than 138mm)

NOTE: • Hydraulic operated Tirfor hoists are also available in 1600 and 3200kg capacities, refer next page for more detail.

- Longer length wire rope on reeler or drum available upon request.

TUH SERIES SUPERTIRFOR HYDRAULIC TIRFOR WINCH



The Tractel TUH Series Hydraulic Tirfor® machines are portable motorised hoists used with maxiflex wire rope.



TU 16 H



TU 32 H

FEATURES

- Can be used to lift, pull and position loads over great distances depending on the wire rope length.
- Suitable for use in numerous configurations and are the ideal solution for use in professional applications.
- Operated by a hydraulic cylinder powered by either an electrical power pack or a petrol motor power pack.

NOTE: The load capacity of the Tirfor® system can be increased by using sheave blocks.

- Multiple machines can be operated by a single operator.
- Systems can be operated at a distance.
- No operator fatigue.

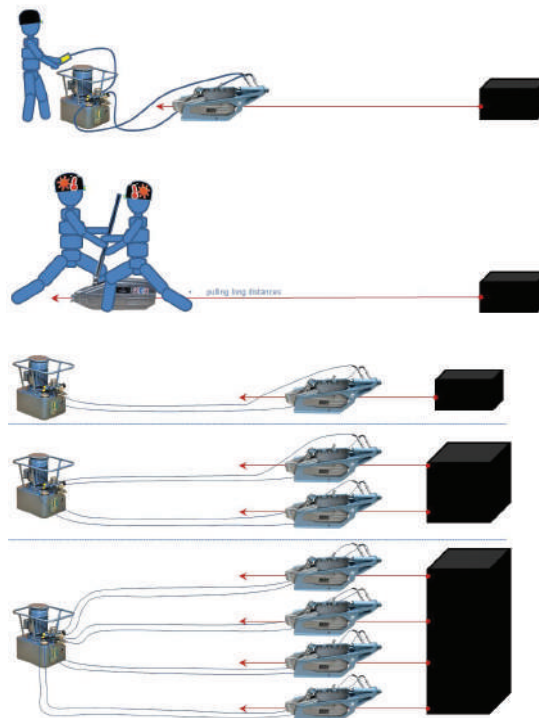
CAPACITY

By using the sheave block technique, the capacity of the Hydraulic Tirfor® can be increased by a factor of 2, 3, 4 or more.

- They can be used to lift, pull and position loads over great distances depending on the wire rope length.
- This special mechanism maintains a constant lifting or pulling capacity.

CONFIGURATIONS

The Hydraulic Tirfor® can be used in various configurations, up to 4 hoists at the same time.



Model No.	Capacity (kg)	Length (mm)	Height (mm)	Thickness (mm)	Rope (mm OD)	Forward Operation (m/min)			Reverse Operation (m/min)			Hydraulic Power Pack			Dimensions of Power Pack (mm)
						Conf1	Conf2	Conf3	Conf1	Conf2	Conf3	1 way(kg)	2 way(kg)	3 way(kg)	
TU 16 H	1600	788	360	185	11.5	2	1.5	0.75	2.3	2	1	43.5	44.1	45.1	460 x 550 x 500
TU 32 H	3200	1070	430	204	16.5	0.7	0.35	0.17	1.6	0.8	0.4	43.5	44.1	45.1	460 x 550 x 500

NOTE: Special Pumps are Required to Operate – Contact Specialised Force for More Information.