



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 a petrol-powered engine, no external energy source is required.
RELIABLE	A Honda 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.

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PORTABLE WINCH PRODUCT STANDARDS – DECLARATION OF CONFORMITY

WINCHES 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 labeled 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 - OVERVIEW



PCW3000



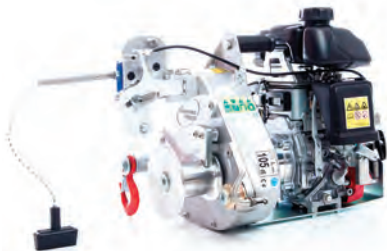
PCW5000



PCW5000-HS



PCW-3000-Li-AIK



PCH1000



PCH2000



PCT1800-50HZ-P-230V

Watch the Portable Winches in Action on our YouTube Channel



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PORTABLE CAPSTAN WINCH - OVERVIEW

Model No.	Max. Pull* (kg)	Rated Lift Capacity* (kg)	Max. Pulling Speed*(m/min)	Voltage	Weight (kg)
 PCW3000	700	-	10	-	9.5
 PCW-3000-Li-AIK**	700	-	SPEED 1: 8.1 SPEED 2: 10 SPEED 3: 11.6	BATTERY: 82V 4AH	9.5
 PCW5000	1000	-	12	-	16
 PCW5000-HS	500	-	24	-	16
 PCH1000	775	250	12	-	19
 PCH2000	1000	450	22	-	34.5
 PCT1800-50HZ-P-230V	1000	250	4.8	230/50 VAC/Hz	27

*Ratings based on use with standard size drum.

**See page 133 for full kit option - PCW-3000-Li-AIK(B)

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PORTABLE CAPSTAN WINCH – SPECIFICATIONS



PORTABLE CAPSTAN WINCH – SPECIFICATIONS



Model No.	PCW3000	PCW-3000-Li-AIK	PCW5000	PCW5000-HS
Designed for Pulling	Yes			
Designed for Lifting	No			
Engine/Motor & Gear Box				
Engine/Motor	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 needle bearing			
Clutch	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	700 kg (Peak 1000 kg)	-	-
Rated Lifting capacity				
57mm Drum	Not designed for lifting			
85mm Drum	Not designed for lifting			
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	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	16mm			
Weight & Dimensions				
Weight (Dry)	9.5 kg		16 kg	
Length	28.9cm	31.8cm	36.2cm	
Width	35cm	30.2cm	37.1cm	
Height	26.1cm	31cm	36.1cm	
Other				
Certification	CE	CE & IPX6	CE	
Classification (ISO) Lifting	-			
Anchor				
Included	Polyester sling 60mm x 2m (PCA-1260)			
Optional	Full line of accessories			
Warranty				
Private Use	2 years		5 years	
Commercial Use	1 year	3 months	1 year	
Bonus Warranty	Register your winch at www.portablewinch.com and get 1 EXTRA YEAR of warranty for FREE			

* Battery: Briggs & Stratton 82V 4AH (See Page 132 for Battery & Charger)

PORTABLE CAPSTAN WINCH – SPECIFICATIONS



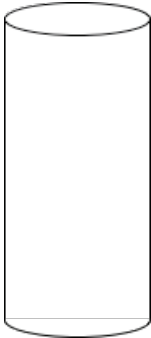


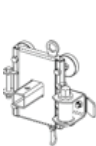


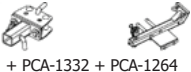








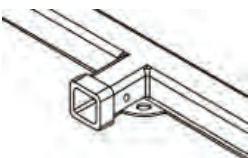



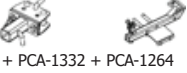

Model No.	PCH1000	PCH2000	PCT1800-50HZ-P-230V
Designed for Pulling		Yes	
Designed for Lifting		Yes	
Engine/Motor & Gear Box			
Engine/Motor	Honda 4-stroke GXH-50 cc	Honda GX-160 cc	AC Electric Baldor TEFC 230 VAC – 1ph – 3/4HP – 50HZ
Gear Box and Gears	Aluminium alloy gear box. Heat treated 3 stag spur 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	–	1000kg	–
Rated Lifting Capacity			
57mm Drum	250 kg	Not available – use only with 108mm drum	250 kg
85mm Drum	175 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	–	22m/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

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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-1263	+ PCA-1268		●		●	●	●			
		+ PCA-1264			●				●	●	●
	+ PCA-1332 + PCA-1264		●		●	●	●	●	●	●	
 Vehicle	48mm to 59mm diameter		●		●	●	●				
	 With tow ball 50mm diameter	PCA-1261		●		●	●				
		PCA-1261		●		●	●	●			
		+ PCA-1268		●		●	●	●			
	+ PCA-1264			●				●	●	●	
	+ PCA-1332 + PCA-1264		●		●	●	●	●	●	●	
 Hitch for square tube of 50.8mm (2") opening	PCA-1267 or PCA-1501	+PCA-1268	●		●	●	●				
		+ PCA-1264			●				●	●	●
		+ PCA-1332 + PCA-1264		●		●	●	●	●	●	●
Pylon (with 90° "V" shaped legs)	PCA-1806	+ PCA-1268	●		●	●	●				
		+ PCA-1264			●				●	●	●
		+ PCA-1332 + PCA-1264		●		●	●	●	●	●	●
Floor	PCA-1805		●		●	●	●				



PORTABLE CAPSTAN WINCH – DOUBLE BRAIDED POLYESTER ROPES



Model No.	Rope OD (mm)	Length (m)	Minimum Breaking Strength (UTS) (kg)	Roll Dimensions (L x OD)	Weight (kg)
PCA-1203M2ESC	10	100	2200	100m x 10mm	8.3
PCA-1213M2ESC	12	100	3300	100m x 12mm	14
PCA-1214M2ESC	12	150	3300	150m x 12mm	20.4
PCA-1216M2ESC	12	200	3300	200m x 12mm	25.5
PCA-1218M2ESC	12	300	3300	300m x 12mm	36.6

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



Model No.	Description	Material	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
PCA-0100	Purpose built transport case with moulded locations for models PCW5000 or PCW5000-HS and many accessories.	High-Impact Plastic	66	58	41	8
PCA-0102	Purpose built transport case with moulded locations for the PCW3000. Fits moulded Backpack PCA-0104.	High-Impact Plastic	47	44	33	4.8
PCA-0104	Moulded Backpack for Transport Case PCA-0102 and Rope Bag PCA-0103 or XXL Extra Large Transport Bag PCA-0105	Polymer	40	18	54	1.8
PCA-0105	XXL Extra Large transport bag (50 litres). Fits moulded backpack PCA-0104.	Resistant Vinyl	26	24	17	1
PCA-1630	Waterproof and airtight case with removable casters and folding top handle for PCT1800 or PCH2000 winches and accessories.	Polymer	79.5	61.5	44.4	15.1
PCA-0340	Waterproof and airtight case with casters and retractable top handle for winches and accessories.	Polymer	58	58	56	14.8
PCA-0350	Waterproof and airtight case with folding side handles for winches and accessories.	Polymer	57	57	53	13.9



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	30	38	0.6
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	26	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	26	61	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	59	2.06



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	2039	100	27	14	14	2.56	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	22	8	3.5	0.82	6 / 13	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	6	1.1	6 / 13	CE	4079
PCA-1273	Two lightweight 100 mm diameter deep groove aluminium sheaves.	Sides: Stainless steel. Sheave: Aluminium	4486	100	27	14	14	2.03	6 / 12	-	N/A
PCA-1274	-	Aluminium	2243	100	27	14	14	1.24	6 / 12	-	N/A
PCA-1275	-	Aluminium	1632	76	17	11	11	0.69	6 / 10	-	N/A
PCA-1292	-	Aluminium	N/A	63	17	11	11	0.40	6 / 13	CE	6000

SPARE PARTS



Model No.	Feature	Material	Diam. / Hole Diam. (mm)	Weight (kg)
PCA-1100	C/W rope guide and screws.	Aluminium	85 / 25.4	0.95
PCA-1110			57 / 25.4	0.95
PCA-1120			76 / 24.8	0.715
PCA-1130			108 / 24.8	0.715
PCA-1151	For Honda GXH-50 engine.		20	0.085
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

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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	27	14	0.91	-
PCA-1263	For trees and poles with 3 m (10') strap. Use with PCA-1264 or PCA-1268.	Powder Coated Steel	32	27	8.2	-
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	61	26	9.2	-
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	2.2	-
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	-

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PORTABLE CAPSTAN WINCH – ACCESSORIES

OTHER ACCESSORIES

						
1760427 Briggs & Stratton 82V 4Ah Li Battery	1760428 Briggs & Stratton 82V 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)
1760427	60min Charge Time	High-resistance polymer plastic	21.5cm	-	12cm	8.5cm	2.6kg	-
1760428	Charges 2Ah & 4Ah 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	WLL: 744kg	-	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	WLL: 2039kg	-	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

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PORTABLE CAPSTAN WINCH – KITS

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



INCLUDES

- 1 x PCW-3000-Li-AIK Portable Winch
- 1 x Briggs & Stratton 82V-42Ah Li Battery & Rapid Charger
- 1 x Carry Bag
- 1 x Stainless Steel Pulley Block
- 2 x Carabiners
- 2 x Slings
- 50m x 10mm Double Braided Rope

PCW-3000HK PETROL WINCH KIT



INCLUDES

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

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