

Cable Reel Model SAAS CR 10-10



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General Features of Cable Reel Model IPS CR 10-10

Main design features	<ul style="list-style-type: none"> Specially designed for 400 Hz cable extensions. Lightweight and ergonomically design drum reel for simple winding and unwinding operations. Lockable front castors and safety markings throughout. Build in a gear-driven train that provides braking action to limit the rotational speed of the drum reel. The drum reel is locked in position using a 10 mm diameter lock pin. This ensures the drum reel is stationary during transit or in operation. Overall simple in design to reduce maintenance costs and ease of operation.
Capacity	<ul style="list-style-type: none"> Standard is to 22 meters Option for a maximum 50 meters (based on 7x35 cable size)
Overall Dimensions	1200 L x 800 W x 1330 H mm
Travel speed	No to be towed. Manual handling is required to protect the cable reel & installations.
Finished	2 Part powdered coat in safety orange colour
Options	<ul style="list-style-type: none"> Installation LPA D410/6 Socket and flange plug 18-2 Plug Cable – Amokabel SXI 7x35mm +18X1 up to 50 meters Hand wheel control Hydraulic brake to slow the rotation of the drum Cable drum size up from 1.1 M to 1.4 diameters for 50 M cable length

Material List

Base frame	Aluminium 6016	1200 x 800 x 3.2 mm
H frame base	RHS	75 x 40 x 5 mm
H frame verticals	C sections	75 x 40 x 5 mm
Drum reel outer diameter	25 mm D Tube section	1060 mm outer D
Drum reel inner diameter		450 mm D
Drum reel hub		450 mm D x 80 with 26 D shaft
Castors	2 x swivel and 2 x fixed	100 mm D x 40 mm
Reel lock pin and holder		9 mm D solid steel with 9 detent positions
Hand reel (Optional)		400 mm D, 35 mm D solid rod, 3 spokes.

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PRODUCT DESCRIPTION

This cable reel provides an efficient means for operators to stow and extend an aircraft power harness. Its lightweight and compact design allows for safe and easy one-person operation.

The base of the reel assembly is constructed from 3.2 mm thick 6016 aluminium to reduce weight. It is supported by two lockable swivel castors and two fixed castors for stable mobility.

Two vertical 'H'-frame support columns are mounted on either side of the base. These columns support the cable drum and associated components.

The cable drum is made of tubular steel, allowing for easy handling and smooth rotation. Its circular inner surfaces ensure only point contact between the cables and drum rims, reducing the risk of cable damage.

The drum features a two-piece construction, secured with four bolts. It is mounted onto the 'H'-frame columns via a shaft and bearing blocks, allowing free rotation.

An optional manual handwheel may be included to assist in rotating the drum, providing better control over its speed. However, the tubular design also allows the operator to manually rotate the drum by gripping its outer rim for cable extension and retraction.

The integration of gearwheels in the drive chain provides effective braking, preventing the drum from rotating freely.

The standard model has a cable capacity of up to 22 meters. An extended capacity version, capable of storing up to 50 meters of cable, is equipped with a hydraulic reverse brake system to prevent uncontrolled rotation.

A spring-loaded retention lock assembly is mounted on the right-hand side of the reel. Locking is achieved via a collar mounted directly on the reel shaft, which offers nine detent positions. To engage the lock, lift the handle and rotate it 90 degrees to activate the spring mechanism.

In the standard configuration, the cable is stored inside the drum with a maximum length of 22 meters. When fully stowed, a designated holder is provided on the base for the LPA connector.

The maximum storage capacity is 50 meters. Caution is advised, as a fully loaded reel may generate significant momentum during operation. In such cases, a hydraulic brake should be installed to safely arrest the motion.

Cable ends are typically configured with an LPA D410 socket and an LPA 18 plug mounted on one side of the drum.