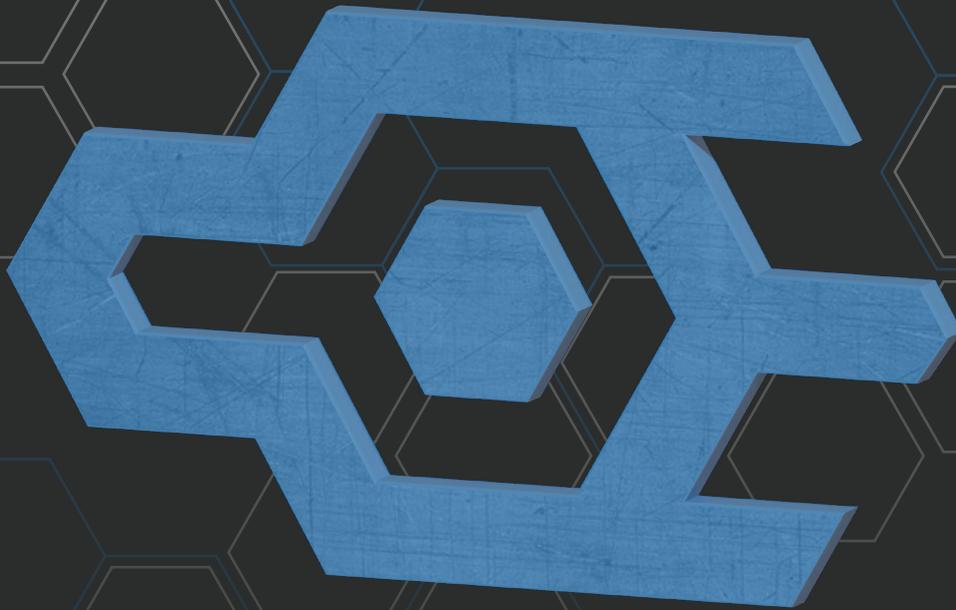




**PROTOS**



**VOYAGER**  
ELECTRICAL CHAIN HOISTS

2024

# VOYAGER ELECTRICAL CHAIN HOISTS

Electrical chain hoists have a leading role in the modern entertainment and exhibition industry and hold a predominant position in current and future rigging.

Following the AEGIS Load Measuring Systems and ADJUTOR Rigging Gear, PROTOS introduces the VOYAGER electrical chain hoist family. A versatile, state of the art hoist range based on the market's rigging needs.

Ranging from the 250 kg S model to the 2500 kg XXL model, single fall and various speeds and voltages are available as standard features. All models are rated at IP65 ensuring worry free outdoor use.

VOYAGER hoists can be controlled by any universal controllers with either direct, (DC) or low voltage (LV) control. Innovative design, small dimensions and unique low self-weight for easy handling, this is what our hoists are known for.

The Voyager hoist range is available in D8, D8+ or BGV-C1 composition and can be fitted with limit switches, load measuring capabilities and encoders. All models come with a 3 year warranty period.

The entire PROTOS VOYAGER hoist range has its slip clutch installed in front of the braking system and is therefore positioned outside the "drive train". This protects the chain hoist from overloading.

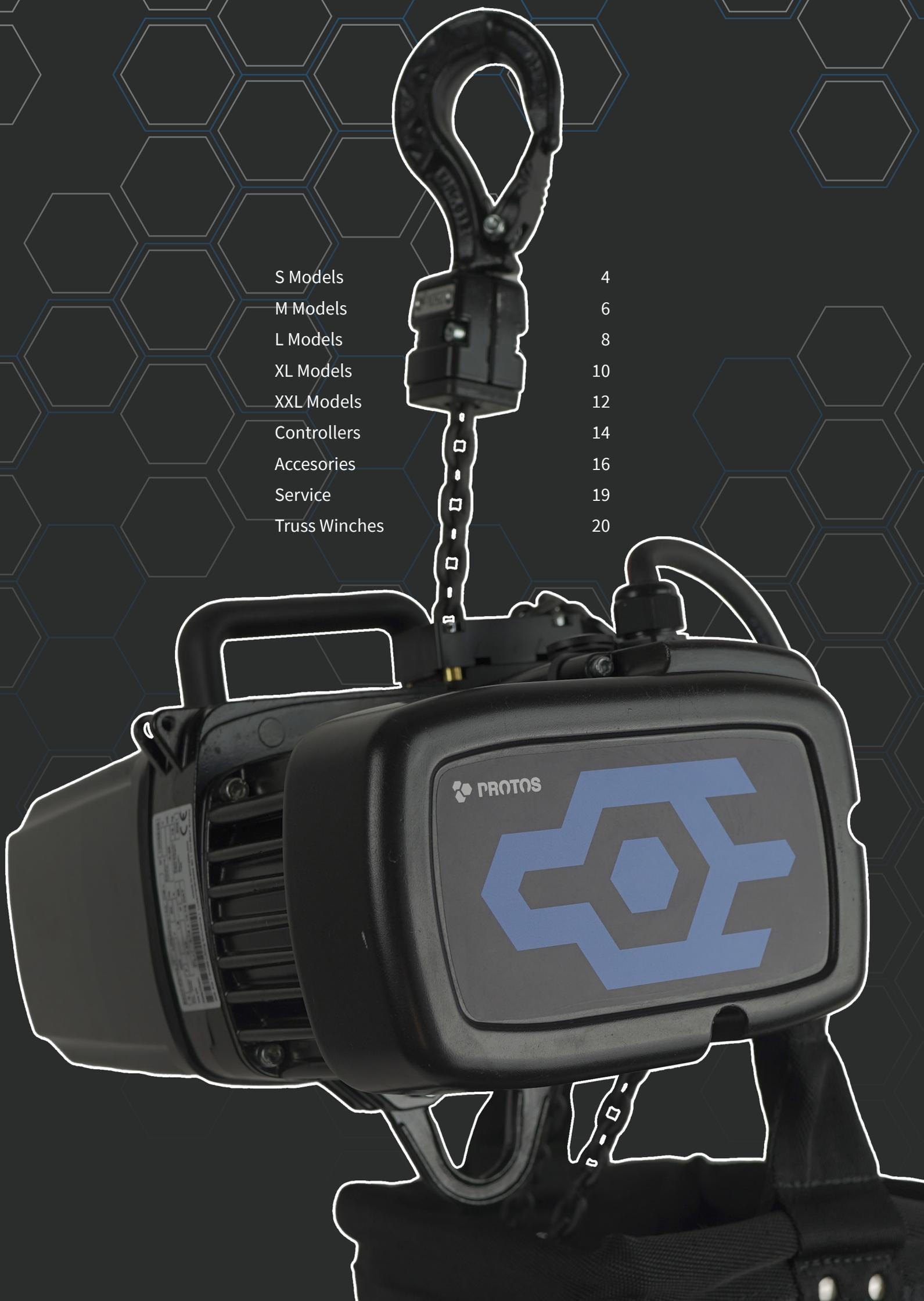
## PROTOS VOYAGER

*Safe and uncompromised lifting made in Europe and prepared for the future*



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## VOYAGER MODEL S

The model S is the smallest hoist in the VOYAGER range. Weighing only 12 kg, this little powerhouse lifts up to 400 kg in D8 and 250 kg in D8+ configuration. VOYAGER hoists feature a modular design and, even with a second brake, remain compact. The small size of this hoist makes it ideal for transportation, saving space and costs.

The model S is equipped with a 3-stage self-contained gear, while the helical gearing with geometric optimisation and the 5-pocket load wheel ensure silent running. The case hardened and manganese phosphate profile steel chain provides about 15% more capacity at an identical nominal diameter when compared to the traditional round steel chain. This increases the life span due to better protection against corrosion and decreasing wear when running dry. The larger cross-sectional area reduces wear and increases the lifetime of the chain.

All S models are single fall. The load hook with its stable, guided hook latch and safety rubber buffer provides maximum safety. The hoist body and components are treated with KTL dip paint coating for protection against environmental influences and abuse. Textile chain bags for various lifting heights available. A unique feature of the hoist is the IP65 protection class making it dust and water proof. The Voyager S is perfectly suitable for outdoor use, even under the most difficult and rainy conditions.

**Model S**                      **D8**

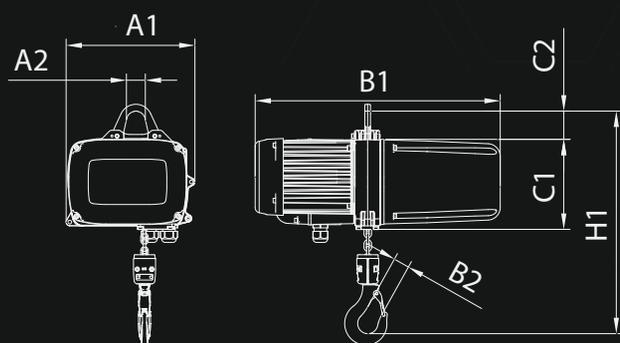
<b>Lifting Capacity</b>	400 kg
<b>Chain Safety Factor</b>	5:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz
<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,25kW
<b>Current At Full Load</b>	1,8A
<b>Classification DIN EN 14492 (FEM)</b>	A3(M3)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	65dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	3.75mm x 10.75mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	0.34 kg
<b>Self Weight Hoist Body</b>	12 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch*
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Optional

\*Only available for LV hoists

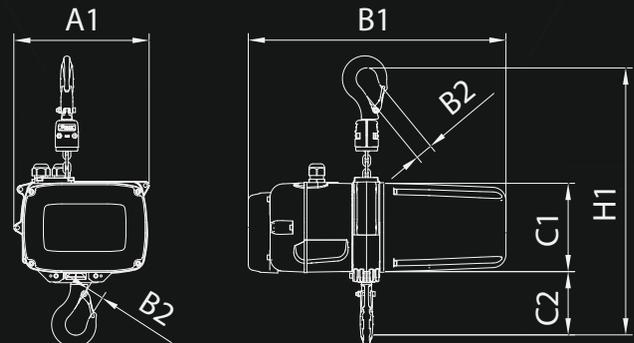
**Model S+**                      **D8+**

<b>Lifting Capacity</b>	250 kg
<b>Chain Safety Factor</b>	8:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz
<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,25kW
<b>Current At Full Load</b>	1,8A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	65dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	3.75mm x 10.75mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	0.34 kg
<b>Self Weight Hoist Body</b>	12 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch*
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

Suspension	Falls	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	H1 mm
Eyebolt	1	206	30	368	20	134	39	346
Hook	1	206	30	368	20	134	90	397



**Eyebolt Suspension**



**Rotatable Hook Suspension**



## VOYAGER MODEL **m**

The model M is available in 2 body sizes, the D8 version has a lifting capacity of 500 kg and weighs a mere 12 kg, making it the lightest weighing hoist in this range. The D8+ and C1 versions have a larger body and a self weight of 23 kg. Lifting capacity at D8+ level is 500 kg and 400 kg in C1 configuration.

The entire Voyager range comes equipped with self contained helical gears and 5 pocket load wheels, ensuring silent running. All configurations of in the model M range are rated with the unique IP65 protection class. The case hardened and manganese phosphate treatment of the chain increases the hoists lifespan due to better protection against corrosion and decreases wear when running dry.

In its D8 configurations the model M is available with 4m/min lifting speed, while the D8+ and C1 variants are available as both 4 and 8m/min speeds and can be ordered with either direct or low voltage control. All model M hoists are single fall. The hoist body and components are treated with KTL dip paint coating for protection against environmental influences and abuse. PROTOS offers Textile chain bags for various lifting heights for this hoist.

The Voyager M is perfectly suitable for outside use, even under the most difficult and rainy conditions.

**Model M D8**

<b>Lifting Capacity</b>	500 kg
<b>Chain Safety Factor</b>	5:1
<b>Lifting Speed</b>	4 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,38kW
<b>Current At Full Load</b>	2,4A
<b>Classification DIN EN 14492 (FEM)</b>	A3(M3)
<b>Duty Factor</b>	25%
<b>Noise Level</b>	65dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	4.1mm x 11.5mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	0.43 kg
<b>Self Weight Hoist Body</b>	12 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch*
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Optional

**Model M+ D8+**

<b>Lifting Capacity</b>	500 kg
<b>Chain Safety Factor</b>	8:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,55kW
<b>Current At Full Load</b>	1,8A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	60dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	5.25mm x 15mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	0.69 kg
<b>Self Weight Hoist Body</b>	23 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch*
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

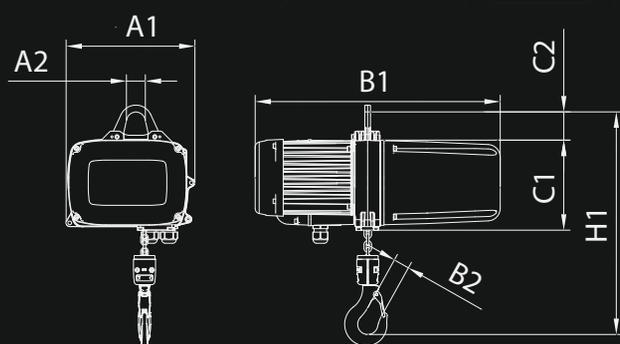
**Model MC1 C1**

<b>Lifting Capacity</b>	400 kg
<b>Chain Safety Factor</b>	10:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

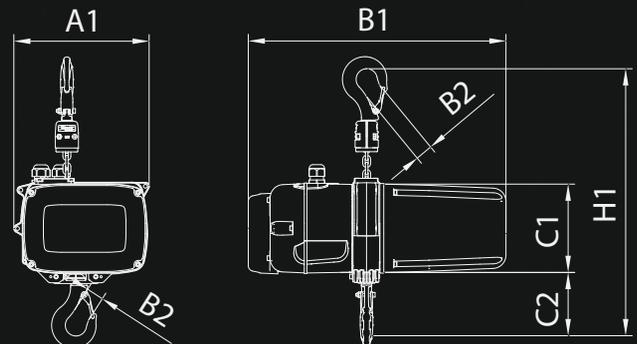
<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,55kW
<b>Current At Full Load</b>	1,8A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	60dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	5.25mm x 15mm
<b>Number of Chain Falls</b>	2
<b>Chain Weight Per Meter</b>	0.69 kg
<b>Self Weight Hoist Body</b>	24 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch*
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

\*Only available for LV hoists

	Suspension	Falls	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	H1 mm
D8	Eyebolt	1	206	30	368	20	134	39	346
D8	Hook	1	206	30	368	20	134	90	397
D8+	Eyebolt	1	272	40	414	24	162	49	447
D8+	Hook	1	272	40	414	24	162	127	525
C1	Eyebolt	1	272	40	414	24	162	100	498
C1	Hook	1	272	40	414	24	162	180	578



Eyebolt Suspension



Rotatable Hook Suspension



## VOYAGER MODEL L

The VOYAGER model L, similar to the S, and M comes in 2 different body sizes. The D8 version, weighing in at merely 23 kg combined with its 1000 kg lifting capacity makes this model one of the most versatile hoists currently on the market. The model L also boasts a 1 ton lifting capacity in its D8+ configuration, while as a C1 hoist it still manages a respectable 800 kg. Both the D8+ and C1 variants clock in at 47 kg self weight due to the safety factors of respectively 8:1 for D8+ and 10:1 for C1.

All models are rated at an IP65 protection class making them ideal for in and outdoor use in both temporarily or fixed installations. The case hardened and manganese phosphate treatment of the chain increases the hoist's life span due to better protection against corrosion while decreasing wear when running dry.

In its D8 configurations the model L is available with 4m/min lifting speed, while the D8+ and C1 variants are available as both 4 and 8m/min speeds and can be ordered with either direct or low voltage control. All model L hoists are single fall. The hoist body and components are treated with KTL dip paint coating for protection against environmental influences and abuse. PROTOS offers textile chain bags for various lifting heights for this hoist.

The Voyager L is perfectly suitable for outside use, even under the most difficult and rainy conditions.

The Voyager "L" is undeniably the ultimate workhorse in many rental fleets due to its unique features such as the IP65 rating, low self weight versus high lifting capacity while remaining single fall even in C1 configuration.

**Model L D8**

<b>Lifting Capacity</b>	1000 kg
<b>Chain Safety Factor</b>	5:1
<b>Lifting Speed</b>	4 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	0,76kW
<b>Current At Full Load</b>	2,6A
<b>Classification DIN EN 14492 (FEM)</b>	A3(M3)
<b>Duty Factor</b>	25%
<b>Noise Level</b>	60dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	5.7mm x 16mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	0.84 kg
<b>Self Weight Hoist Body</b>	23 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Optional

**Model L+ D8+**

<b>Lifting Capacity</b>	1000 kg
<b>Chain Safety Factor</b>	8:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

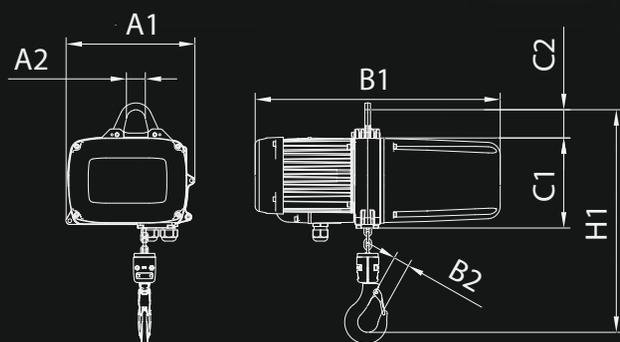
<b>Protection Class</b>	IP65
<b>Motor Power</b>	1,5kW
<b>Current At Full Load</b>	3,6A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	7.45mm x 23mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	1.37 kg
<b>Self Weight Hoist Body</b>	47 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

**Model LC1 C1**

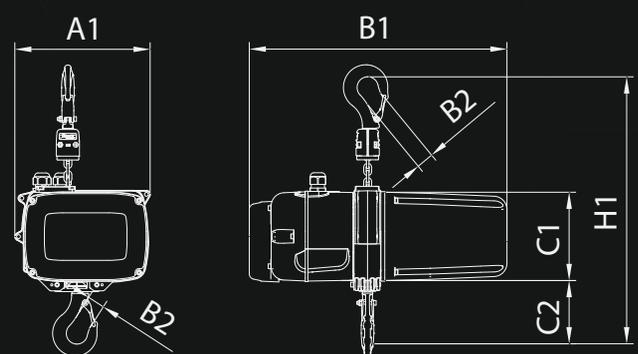
<b>Lifting Capacity</b>	800 kg
<b>Chain Safety Factor</b>	10:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	1,5kW
<b>Current At Full Load</b>	3,6A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	7.45mm x 23mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	1.37 kg
<b>Self Weight Hoist Body</b>	48 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

	Suspension	Falls	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	H1 mm
D8	Eyebolt	1	272	40	414	24	162	49	447
D8	Hook	1	272	40	414	24	162	127	525
D8+	Eyebolt	1	337	52	514	24	212	58	558
D8+	Hook	1	337	52	514	24	212	123	623
C1	Eyebolt	1	337	52	514	24	212	120	621
C1	Hook	1	337	52	514	24	212	192	693



**Eyebolt Suspension**



**Rotatable Hook Suspension**



## VOYAGER MODEL XL

The VOYAGER model XL comes in one body size. The D8 version, weighing in at 46 kg with a significant lifting capacity of 2000 kg.

Similar to the rest of the VOYAGER range, the model XL operates using a single fall lifting chain which makes this hoist unique within this lifting class due to half the chain length dramatically decreasing self weight. Single fall also reduces the risk of tangled lifting chain, a problem usually associated with hoists within this category.

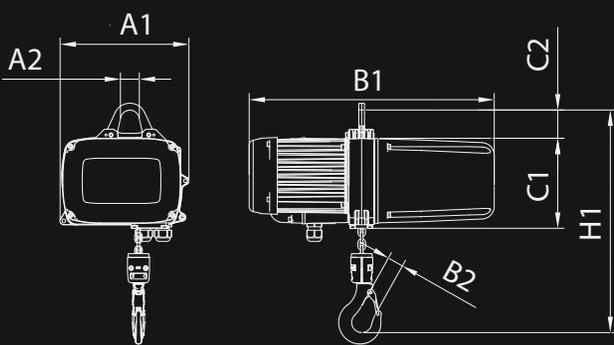
The model XL is available with 4m/min lifting speed and can be ordered with direct or low voltage control (42V standard). The helical gearing with geometric optimisation and the 5 pocket load wheel ensure quiet operation. The case hardened and manganese phosphate treatment of the chain increases life span due to better protection against corrosion while decreasing wear when running dry. Textile chain bags for various lifting heights are available.

**Model XL**

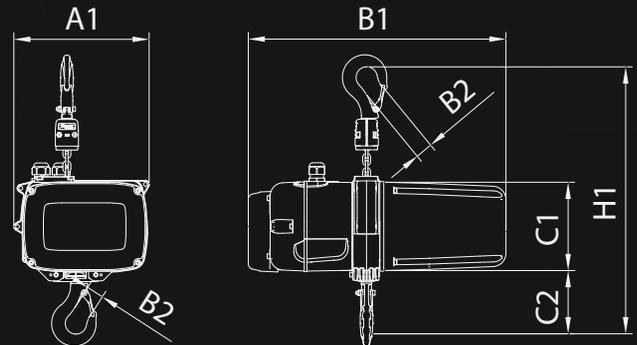
**D8**

<b>Lifting Capacity</b>	2000kg
<b>Chain Safety Factor</b>	5:1
<b>Lifting Speed</b>	4 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 3Ph-200V-50Hz 3Ph-200V-60Hz
<b>Protection Class</b>	IP65
<b>Motor Power</b>	1.5kW
<b>Current At Full Load</b>	4.4A
<b>Classification DIN EN 14492 (FEM)</b>	A3(M3)
<b>Duty Factor</b>	25%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	9.4mm x 27.4mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	1.64 kg
<b>Self Weight Hoist Body</b>	46 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double brake</b>	Optional

	Suspension	Falls	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	H1 mm
D8	Eyebolt	1	272	40	414	24	162	49	447
D8	Hook	1	272	40	414	24	162	127	525



**Eyebolt Suspension**



**Rotatable Hook Suspension**



## VOYAGER MODEL **XXL**

The VOYAGER model XXL, similar to the S, M and L comes in 2 different body sizes. The D8 version, weighing in at 72 kg with an impressive lifting capacity of 2500 kg. The model XXL also boasts a 2.5 ton lifting capacity in its D8+ configuration, while as a C1 hoist it still manages an incredible 2000 kg. Both the D8+ and C1 variants clock in at 74 kg self weight due to the safety factors of respectively 8:1 for D8+ and 10:1 for C1.

Similar as the rest of the VOYAGER range, the model XXL operates using a single fall lifting chain which making this hoist unique within this lifting class due to half the chain length dramatically decreasing self weight. Single fall also reduces the risk of tangled lifting chain, a problem usually associated with hoists within this category.

All 3 variants of the model XXL are available with 4 and 8m/min lifting speed and can be ordered with direct or low voltage control (42V standard). The helical gearing with geometric optimisation and the 5 pocket load wheel ensure quiet operation. The case hardened and manganese phosphate treatment of the chain increases life span due to better protection against corrosion while decreasing wear when running dry. Textile chain bags for various lifting heights are available.

The Voyager XXL is the ultimate heavy weight lifting champion and offers unmatched advantages over any other chain hoist available.

**Model XXL D8**

<b>Lifting Capacity</b>	2500 kg
<b>Chain Safety Factor</b>	5:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	2,2kW
<b>Current At Full Load</b>	6,1A
<b>Classification DIN EN 14492 (FEM)</b>	A3(M3)
<b>Duty Factor</b>	25%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	9.4mm x 27.4mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	2.22 kg
<b>Self Weight Hoist Body</b>	72 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Optional

**Model XXL+ D8+**

<b>Lifting Capacity</b>	2500 kg
<b>Chain Safety Factor</b>	8:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

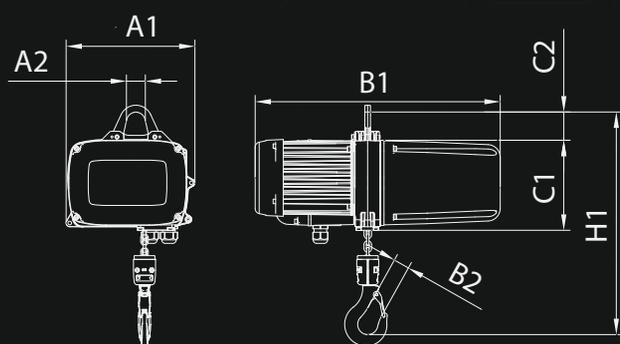
<b>Protection Class</b>	IP65
<b>Motor Power</b>	2,2kW
<b>Current At Full Load</b>	6,1A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	11.75mm x 32.9mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	3.53 kg
<b>Self Weight Hoist Body</b>	72 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

**Model XXL C1**

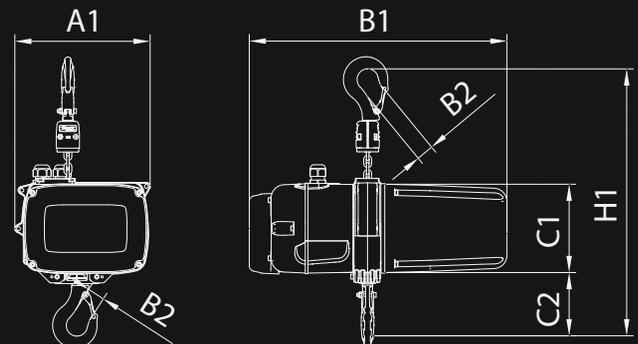
<b>Lifting Capacity</b>	2000 kg
<b>Chain Safety Factor</b>	10:1
<b>Lifting Speed</b>	4/8 m/min
<b>Operating Voltages</b>	3Ph-400V-50Hz 3Ph-230V-50Hz 1Ph-230V-50Hz 1Ph-115V-50Hz 3Ph-200v-50Hz 3Ph-200v-60Hz

<b>Protection Class</b>	IP65
<b>Motor Power</b>	2,2kW
<b>Current At Full Load</b>	6,1A
<b>Classification DIN EN 14492 (FEM)</b>	A5(M5)
<b>Duty Factor</b>	40%
<b>Noise Level</b>	75dBA
<b>Load Wheel</b>	5 Pocket Wheel
<b>Load Chain acc. EN 818-7</b>	11.75mm x 32.9mm
<b>Number of Chain Falls</b>	1
<b>Chain Weight Per Meter</b>	3.53 kg
<b>Self Weight Hoist Body</b>	75 kg
<b>Hoist Control Type</b>	DC/LV
<b>Limit Switch Types</b>	Rotary/External Switch
<b>Power Connector Type</b>	CEE Red 16A 4P
<b>Control Connector Type</b>	CEE Yellow 16A 4P
<b>Low Voltage Control Voltage</b>	24V/42V
<b>Double Brake</b>	Standard

Suspension	Falls	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	H1 mm
D8 Eyebolt	1	382	75	614	35	237	118	698
D8 Hook	1	382	75	614	35	237	147	727
D8+ Eyebolt	1	382	62	614	41	237	111	732
D8+ Hook	1	382	62	614	41	237	204	825
C1 Eyebolt	1	382	70	614	41	237	221	842
C1 Hook	1	382	70	614	41	237	310	931



Eyebolt Suspension



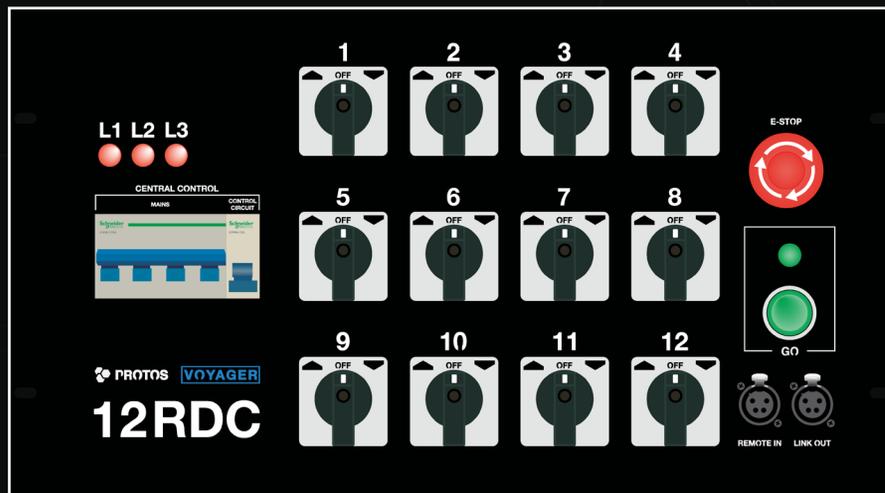
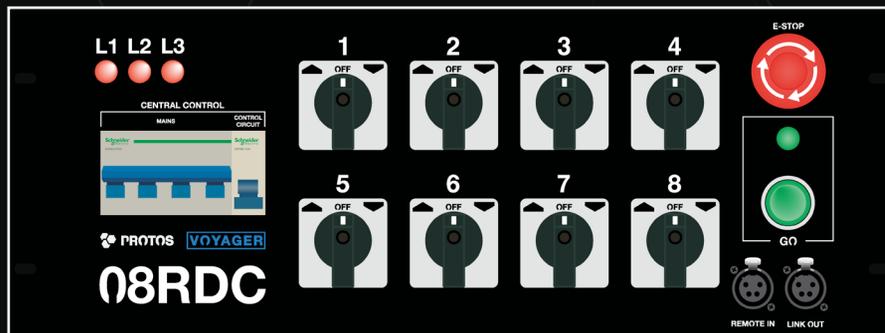
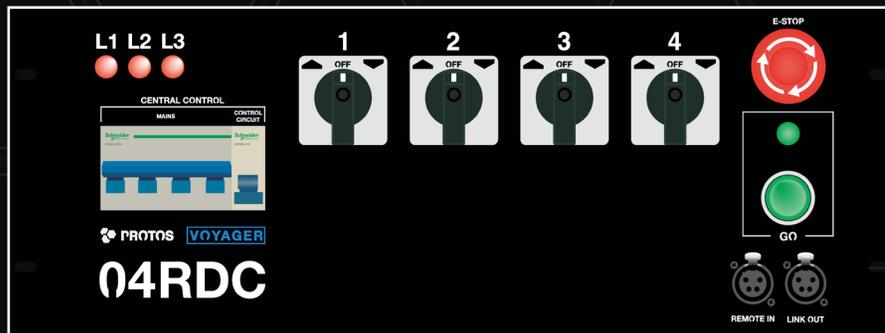
Rotatable Hook Suspension

# VOYAGER CONTROLLERS

## PVC-04/08/12RDC

19" rackmount controllers, 4, 8 & 12 channel versions, Direct Control

- Individual channel selections.
- E-stop.
- Run button.
- Linkable.
- Optional remote control.
- Electric circuit control.
- Operating voltage; 3Ph-400V-50Hz, 10A/Ph.
- Max current per switch; 1kW/1.5A at 400V.
- Max current all channels; 6.9kW/10A at 400V.
- Protection class; IP20
- Power connector type; CEE-32A-5P.
- Control connection type; CEE-16A-4P/16P Harting/Socapex.
- Phase indication.
- Max ambient temp; 40° C.
- Dimensions 04; 482x178x255mm
- Dimensions 08; 482x178x255
- Dimensions 12; 482x266x255mm
- Weight; 9.7Kg (04) 10.7Kg (08) 12.5Kg (12)



# PVC-01/02HDC

Hand held controller 1 & 2 channel versions, Direct Control

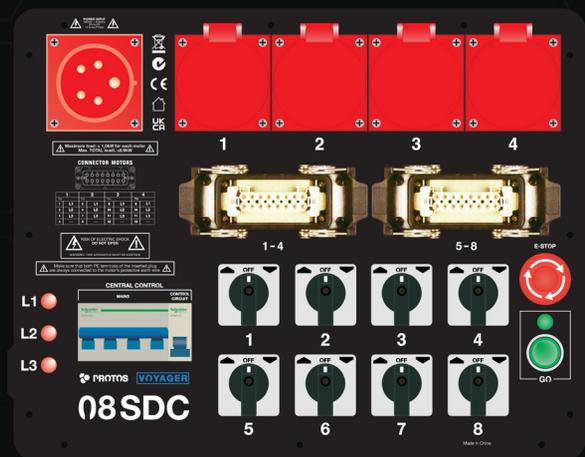
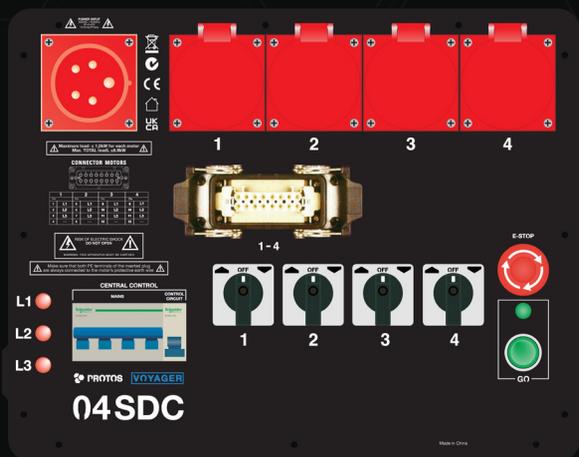
- Run button(s) up/down
- E-stop
- Operating voltage; 3Ph-400V-50/60Hz, 10A/Ph
- Max current;  $\leq 1\text{kW}$
- Protection class; IP20
- Power connector type; CEE 16A-5P male
- control connection type; CEE 16A-4P female



# PVC-04/08SDC

Suitcase controller, 4 & 8 channel versions, Direct Control

- Individual channel selections
- E-stop
- Run button
- Remote control and link options available
- Electric circuit control
- Operating voltage; 3Ph-400V-50Hz, 10A/Ph
- Max current per switch; 1kW/1.5A at 400V
- Protection class; IP20
- Max current all channels; 6.9kW/10A at 400V
- Power connector type; CEE-16A-5P Harting
- Control connection type; CEE-16A-4P/16P
- Phase indication
- Max ambient temp; 40° C
- Dimensions; 524x423x203mm
- Weight; 12/13.5Kg.



# STANDARD FEATURES

Each of our hoists is shipped with the following features.



## Design

- Compact and light
- Robust aluminium casing and cover for mobile and outdoor use
- Powerful built-in motor
- Drain holes

## Brake

- Reliable spring loaded DV-brake -
- Safe braking of the load -
- Optionally independent second brake on existing shaft (no cover extension required) -



## Transmission

- Smooth running (65 dB)
- 3-step drive with helical gearing
- Permanent lubrication
- Self-contained gearbox

## Hooks

- Skeleton load and suspension hooks -
- Hook safety latch fastened into position when closed -
- Dampening system -



## Polygonal connections

- All shaft-hub connections are built in a self-centering polygonal design
- Optimal power transmission
- Quick assembly and disassembly

## Easy maintenance

- Easy to maintain -
- Good accessibility of wearing parts -
- Quick and simple replacement -
- No special tools required -
- Two part chain guiding plate -

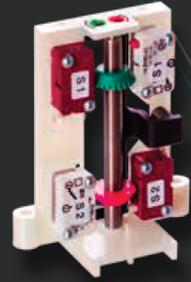


# OPTIONAL UPGRADES

Aside from the range of features each VOYAGER hoists comes with. PROTOS also offers many optional features.

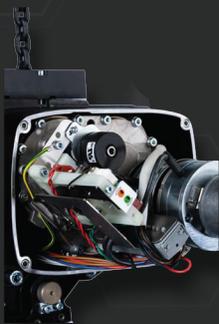
## Geared limit switch

- The upper and lower end position of the load hook can be set easily and precisely -
- Optional 2 additional emergency stop contacts available -
- Optional external limit switch -



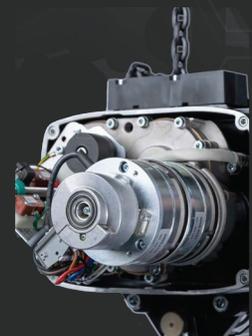
## Load Measurement

- Load sensor integrated in suspension -
- Simple installation in special eyebolt or hook suspension -
- Optional mechanical protection -
- Output signal hook load sensor 0-10 or V 4 - 20 mA -



## Positioning

- Absolute or incremental encoder -
- Encoder on chain wheel (no housing extension required) -
- Optional encoder on drive shaft (housing extension required) -



# OPTIONAL ACCESORIES

A comprehensive range of accessories enables users to accommodate hoists for any fixed or mobile job imaginable. Availability of accessories are dependent on the model.



## Flight case

- Available for the entire VOYAGER range
- Heavy duty design

## Cabling

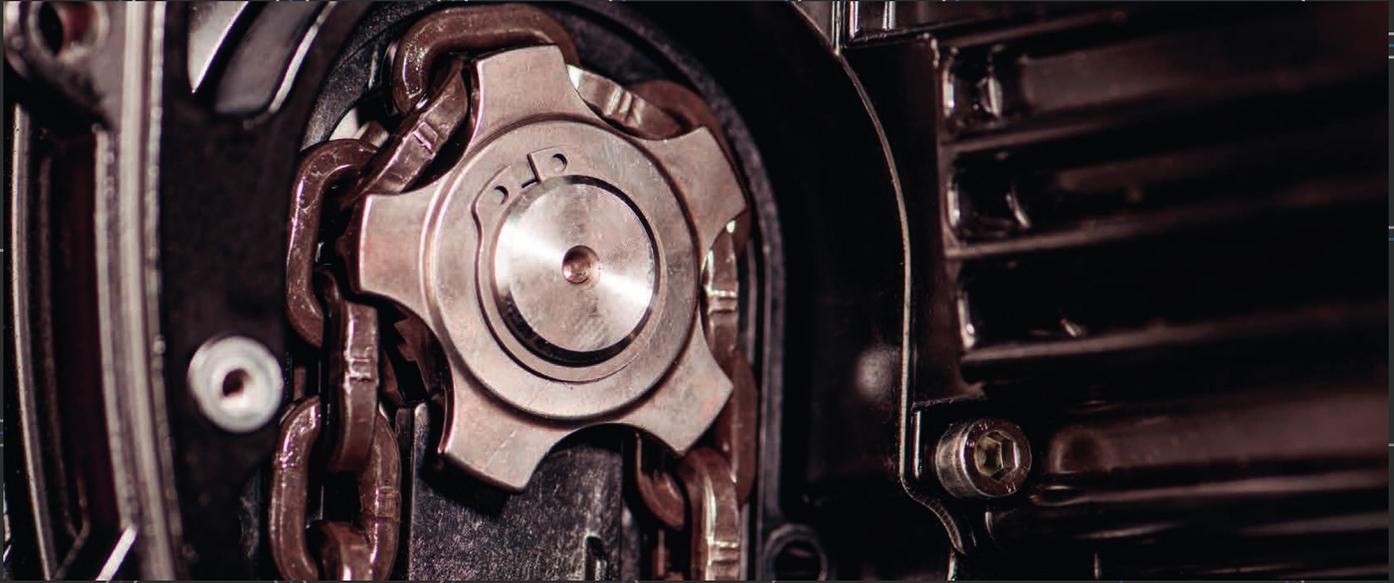
Various lengths and types available such as power, motor and control cabling. Equipped with CEE connectors. Harting and Socapex are available for multicables, break-in and break-out adapters.



## Beam trolleys

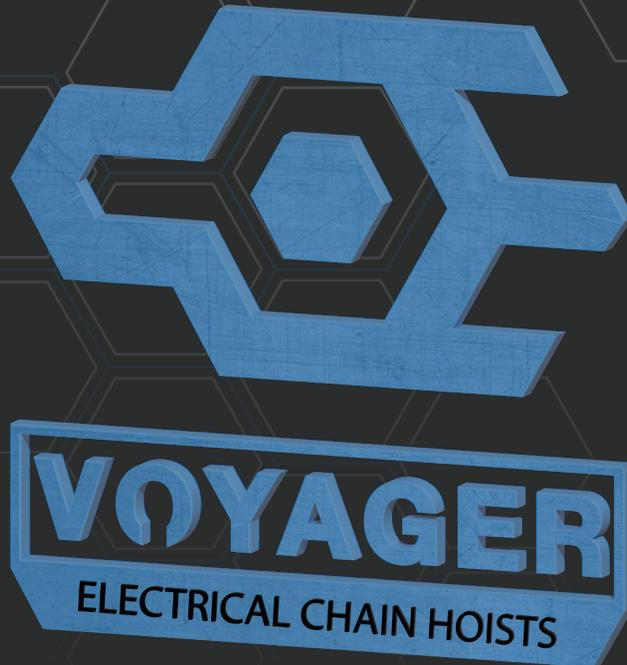
- Manual trolley for steel profiles
- For moving electrical and manual chain hoist manually
- Load wheels made of cast iron with ball bearings
- Side plates made of cast iron with fall and climbing protection
- Flange width infinitely variable





## VOYAGER SERVICE

Due to PROTOS's global sales and service network we can provide service to fit or refit your hoist with lengths of lifting chain tailored to meet your exact lifting height requirements. PROTOS is able to equip or upgrade your hoist with double brakes, limit switches and encoders, among other things, locally. Our network offers unique service for inspection, repairs and certification in your country or region guaranteeing fast handling and economic rates. Find your local dealer on [protos-one.com](http://protos-one.com).





## VOYAGER TW

The single span PROTOS VOYAGER Truss Winch is the perfect example of Dutch lifting engineering ingenuity. The winch systems in the TW range are integrated in a standard 30/40cm truss box frame of 1/1.3m (3/3.9ft) length that can be connected to standard SIXTY82, TPM 29S, 39S truss or equivalent.

The uniquely designed universal pulley plates can be mounted at any position along the truss span, guiding the 4/6 steel wire ropes.

The standard TW single truss span range consists of 250, 400, 600, and 800Kg WLL models. The maximum standard lifting height is 10m (30ft) and is capable of connecting truss spans ranging from 3 to 24m (10/72ft).

The TW is equipped with double limit switches as well as over and under load detection. The TW is available at a fixed speed of 5m/min (15ft/min) or with variable speeds ranging from 0 - 8 m/min (0 - 24ft/min). It is rated IP54, has a phase monitoring system and offers an economic power consumption of 0.85Kw at 400V/50Hz while complying with EN-17206 and CE.



The fixed speed TW model is controlled via the PVC-TW04R 4 channel or the PVC-TW 01R 1 channel controllers. These controller has up/down switches for each channel and an E-stop switch. Controllers can be linked with up to a maximum of 24 units (96 channels) and are equipped with Harting and CEE 16A connectors. They can also be equipped with a DMX 512 show control card.



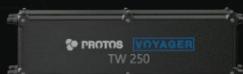
Optionally a remote control is available in either handheld or wall mounted iterations and comes with a standard 20m cable. The variable speed TW is controlled through the PVC-TW01RVS a single channel, 19 inch rack mount which features speed control and an E-switch. It can be programmed with the use of a PC or tablet which can be connected with a TJ 45 LAN or DMX connection to the controller.

The PROTOS VOYAGER TW range offers a unique system which transforms a single truss span into a self-powered truss fly bar with integrated winch, providing a simple yet versatile, safe and quiet lifting solution. Minimal trim height requirements for multiple usage for limited budgets.... It's as simple as that! Besides the standard range, the TW range offers limitless possibilities tailored to your needs.



PROTOS VOYAGER  
TW 250

	TW250-8	TW250-16	TW250-24	TW400	TW600	TW800
WLL	250 kg	250 kg	250 kg	400 kg	600 kg	800 kg
Safety Factor	10:1	10:1	10:1	10:1	10:1	10:1
Maximum Travel Range	10 m	12/14 m				
Lifting Speed Fixed	5 m/min	5 m/min				
Lifting Speed Variable	0-8 m/min	0-8 m/min				
Operating Voltage*	3Ph-400V-50Hz	3Ph-400V-50Hz	3Ph-400V-50Hz	3Ph-400V-50Hz	3Ph-400V-50Hz	3Ph-400V-50Hz
Control Voltage**	24V	24V	24V	24V	24V	24V
Connector type	Harting Eco B	Harting Eco B				
Protection Class	IP54	IP54	IP54	IP54	IP54	IP54
Motor Power	0.75kW	0.8kW	1.1kW	1.1kW	1.1kW	1.3kW
Current At Full Load	4.1A	4.4A	7.2A	7.2A	8.1A	11.2A
Classification - European Standard	EN-17206	EN-17206	EN-17206	EN-17206	EN-17206	EN-17206
Switches On Up	16	16	16	16	14	12
Noise Level at 1 meter	55 - 74dB	55 - 74dB				
Steel Cables and Pulley Plates	4x 5mm	4x 5mm	4x 6mm	4x 6mm	4x 8mm	4x 8mm
Steel Cables Weight Per Meter	0,104 kg	0,104 kg	0,108 kg	0,108 kg	0,245 kg	0,245 kg
Self Weight	72 kg	74 kg	80 kg	88 kg	98 kg	108 kg
Locking Torque	1100Nm	1100Nm	1100Nm	1100Nm	2800Nm	2800Nm
Compatible Trusses Type***	TPM29S	TPM29S	TPM29S	TPM29S	TPM29S/39S	TPM 29S/39S
Dimensions	1x0.293x0,293 m	1x0.293x0,293 m	1x0.293x0,293 m	1x0.293x0,293 m	1,3x0,393x0,393 m	1,3x0,393x0,393 m
Maximum Length of Truss span	8 m	16 m	24 m	24 m	24 m	24 m



SCAN FOR DEMONSTRATION



## VOYAGER TWG

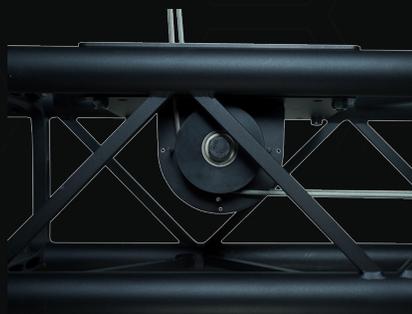
Based on the same principal of integrating a winch into a truss fly-bar, we offer the TWG grid winch. Similar to the TW, the TWG is a single winch, integrated into a standard 30/40cm box frame truss which can be connected to standard SIXTY82, TPM 29S or 39S truss or equivalent. The pulley plates can be mounted on each required position of the structure, guiding the 4/6 steel wire ropes throughout the grid.

The standard TWG truss grid range is available as a 300, 500 and 750 kg WLL model. The maximum standard lifting height is 10/14m (30/42ft). Standard available grid sizes range from 2x2m (6x6ft) to 8x8m (24x24ft) depending on the model. The TWG is equipped with double limit switches, over and under load detection and is available as a fixed speed of 5m/min (15ft/min) or variable speed of 0 - 8 m/min (0 - 24ft/min) model. All winchies in the TW range are rated IP54, include a phase monitoring system and offer an economic power consumption of 0.85Kw at 400V/50Hz, all while complying with EN-17206 and CE.

The fixed speed TWG model is controlled via the PVC-TW04R 4 channel or the PVC-TW 01R 1 channel controllers. The controller has up/down switches for each channel and an E-stop switch. The controllers can be linked with up to a maximum of 24 units (96 channels) and are equipped with Harting and CEE 16A connectors. The controller can also be equipped with a DMX 512 show control card. Optionally one can opt for the hand held or wall mounted remote, which comes with 20m of cable.

The variable speed TWG is controlled by the TW 01RVS single channel, 19 inch rack mounted controller, which features speed control, an E-switch and the ability to be programmed by means of a laptop/desktop or tablet.

The PROTOS VOYAGER TWG range offers a unique truss grid lifting system powered by just one integrated winch. Allowing for savings on budget, space, cable and suspension equipment while being versatile and safe. Besides the standard range, the TWG range offers limitless custom options tailored to your needs.





	TWG300	TWG500	TWG750
WLL	300 kg	500 kg	750 kg
Safety Factor	10:1	10:1	10:1
Maximum Travel Range	10 m	12/14 m	12/14 m
Lifting Speed Fixed	5 m/min	5 m/min	5 m/min
Lifting Speed Variable	0-8 m/min	0-8 m/min	0-8 m/min
Operating Voltage*	3Ph-400V-50Hz	3Ph-400V-50Hz	3Ph-400V-50Hz
Control Voltage**	24V	24V	24V
Connector type	Harting Eco B	Harting Eco B	Harting Eco B
Protection Class	IP54	IP54	IP54
Motor Power	0.75kW	1.1kW	1.3kW
Current At Full Load	7.2A	8.1A	11.3A
Classification - European Standard	EN-17206	EN-17206	EN-17206
Switches On Up	16	14	20
Noise Level at 1 meter	55 - 74dB	55 - 74dB	55 - 74dB
Steel Cables and Pulley Plates	4xØ6mm	4/6xØ8mm	4/6xØ8mm
Steel Cables Weight Per Meter	0,198 kg	0,245 kg	1,245 kg
Self Weight	88 kg	98 kg	108 kg
Locking Torque	1100Nm	1100Nm	1100Nm
Compatible Trusses Type***	TPM29S	TPM29S/39S	TPM 29S/39S
Dimensions	1x0,293x0,293 m	1,3x0,393x0,393 m	1,3x0,393x0,393 m
Maximum truss grid size	6x6 m	8x8 m	8x8 m



SCAN FOR DEMONSTRATION



<b>Document Title</b>	<b>PROTOS VOYAGER Electrical Chain Hoists</b>
<b>Applies To</b>	<b>PROTOS VOYAGER Electrical Chain Hoists</b>
<b>Part Number</b>	<b>2024-002</b>
<b>Issue Number</b>	<b>03.09</b>
<b>Dated</b>	<b>09.03.24</b>

In the interest of continued product development, PROTOS reserves the right to alter product specification without prior notice.

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