

TECHNICAL DOCUMENT



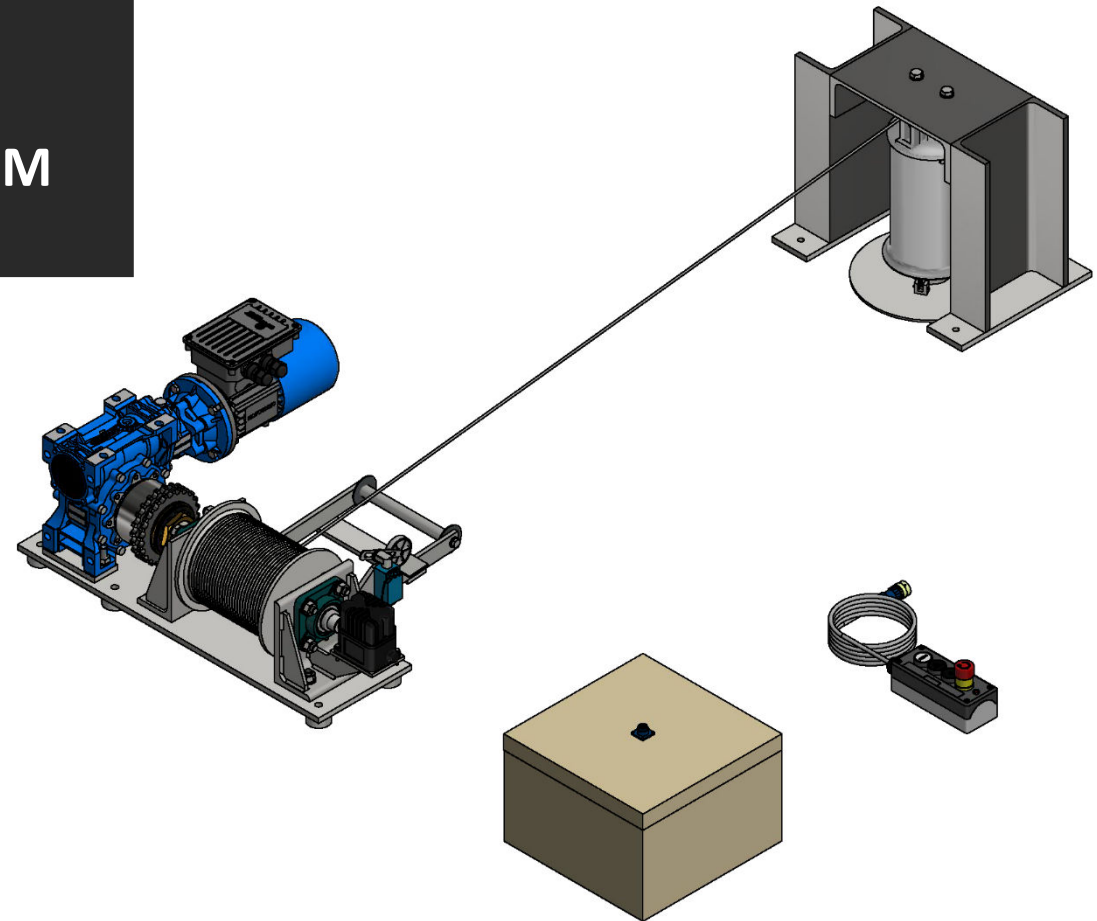
RLS-100

SINGLE ROPE ELECTRIC WINCH SYSTEM

MAX LOAD: 100 kg (220 lbs)

MAX LOWERING DISTANCE: 10 m (32.8')

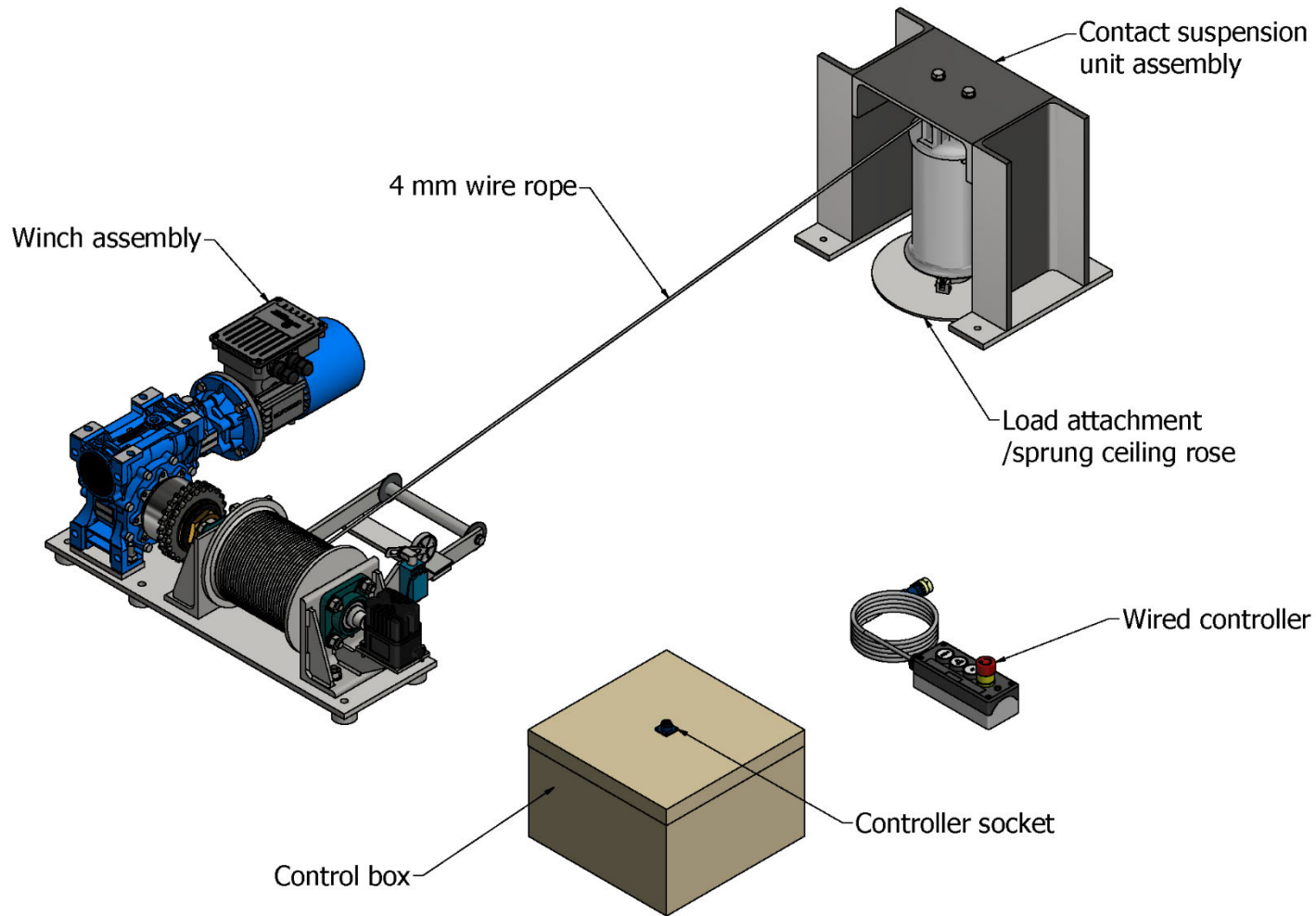
SKU: 872-000078



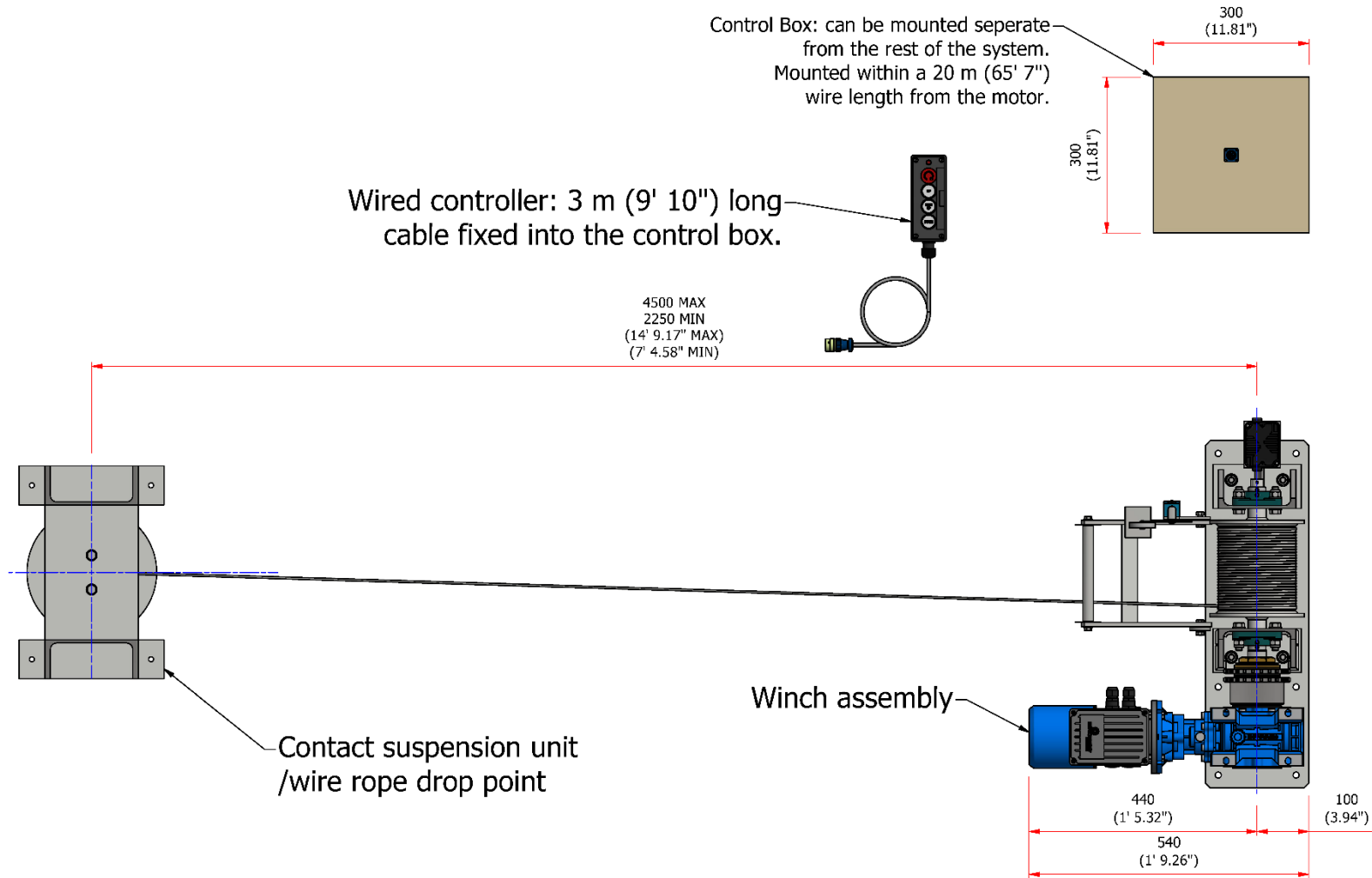
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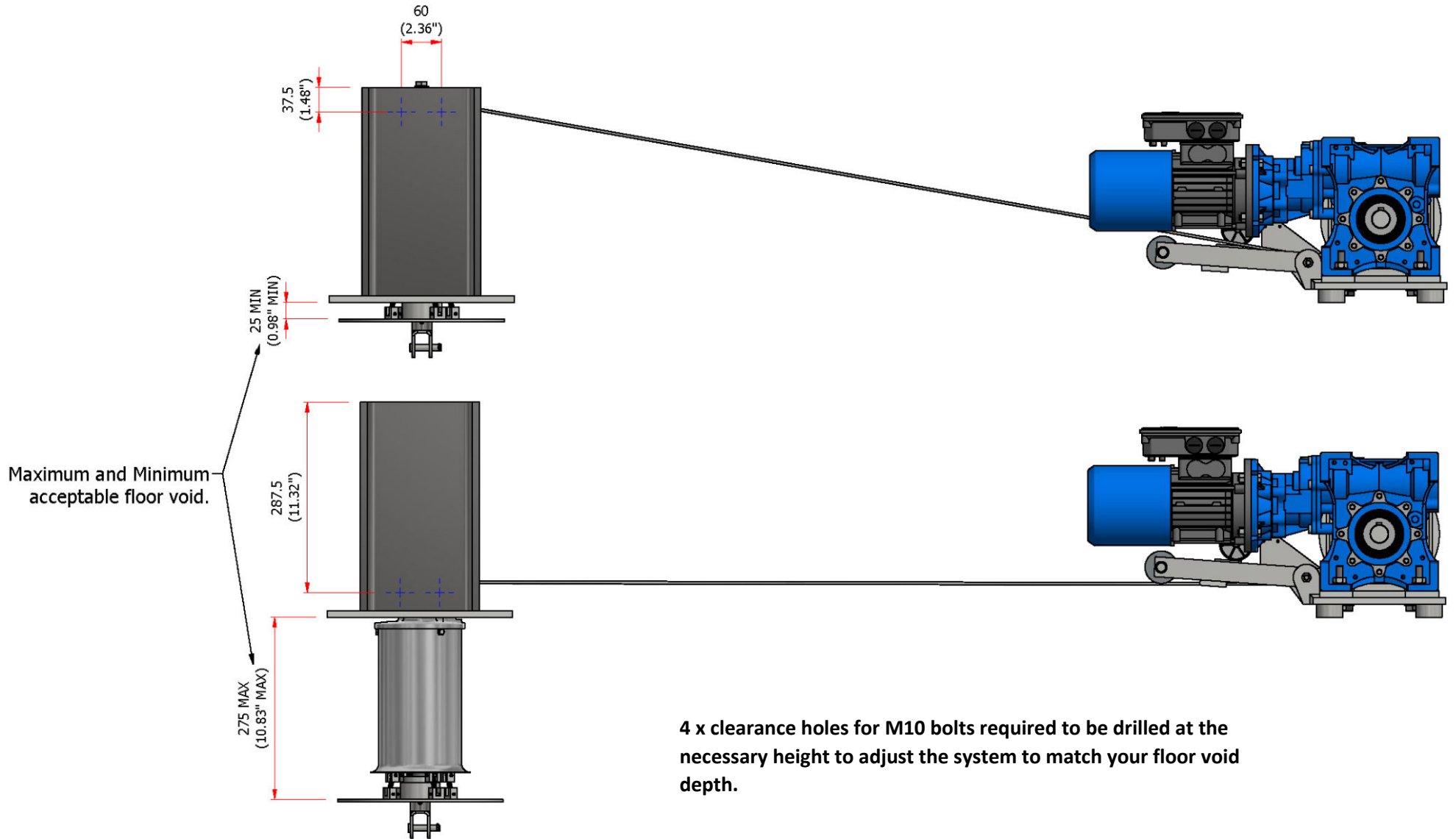
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System overview



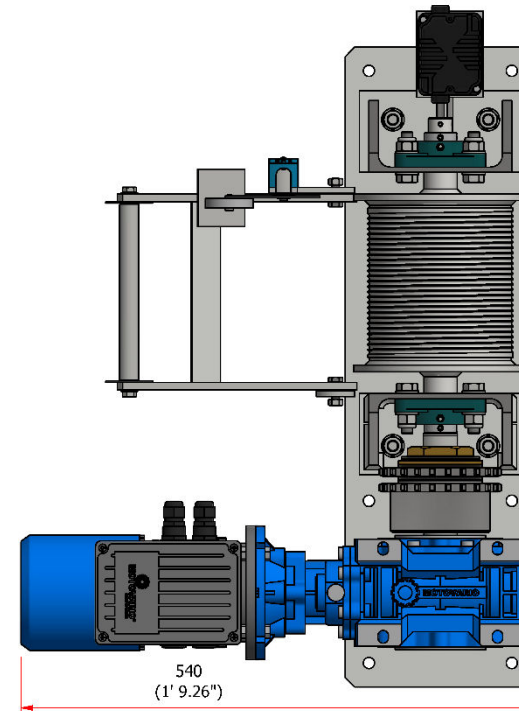
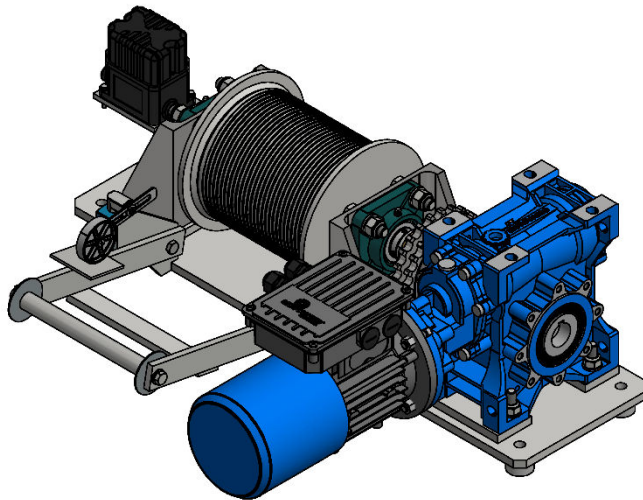
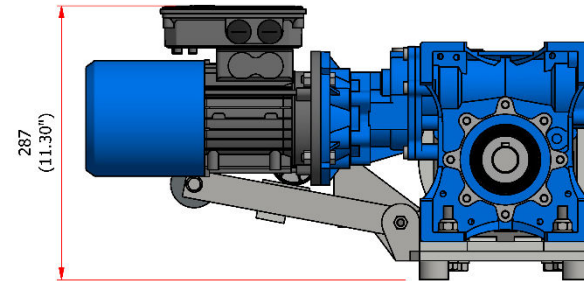
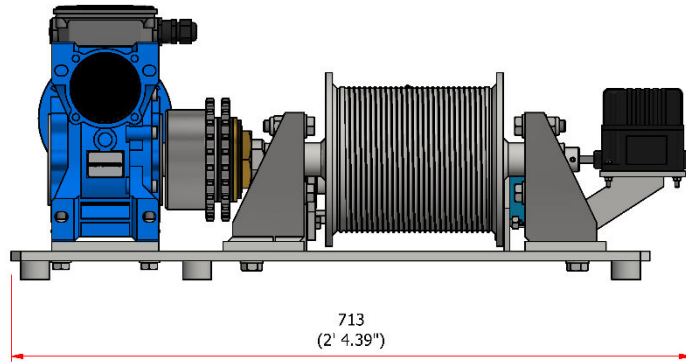
Min/max layout distances





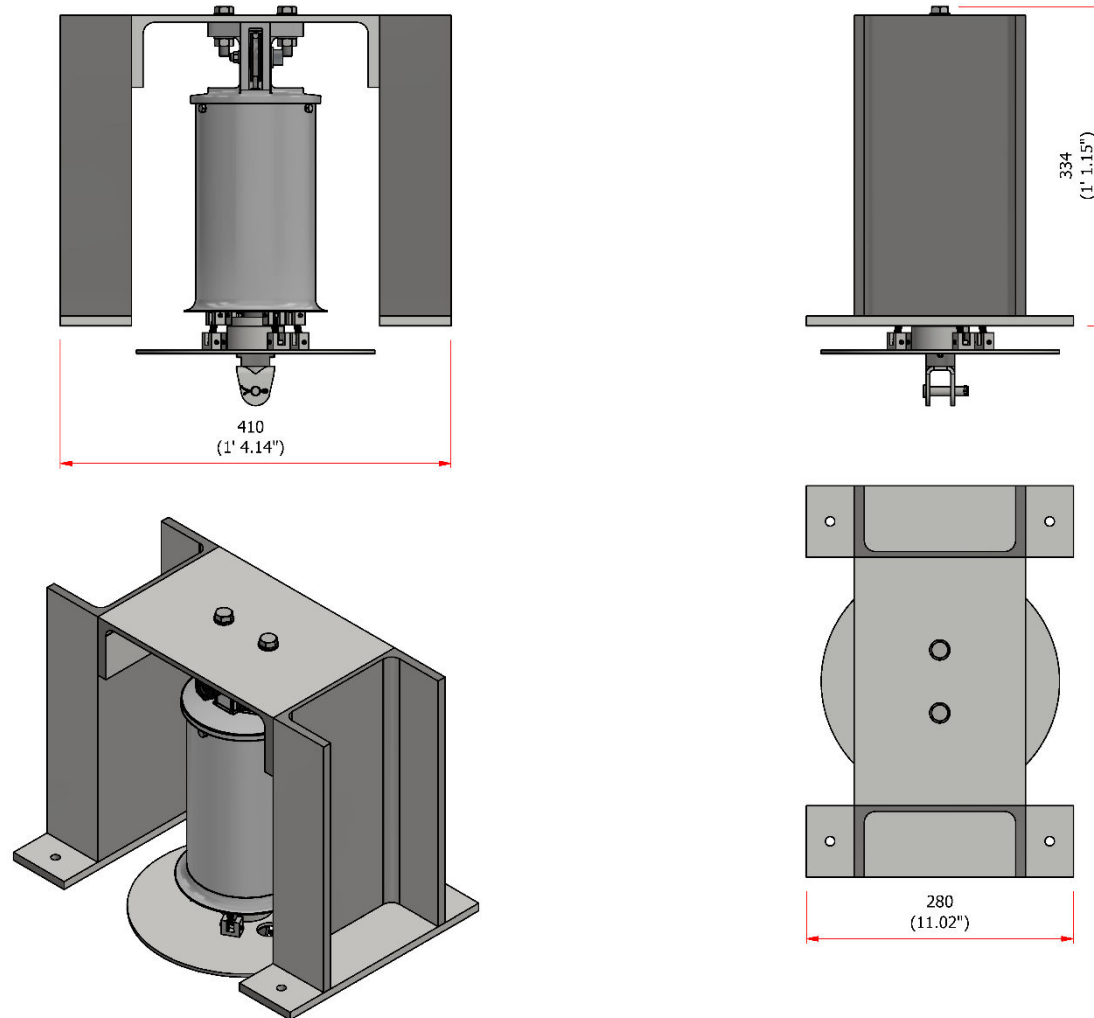
Electric winch dimensions

Mass: 57 kg (126 lbs)

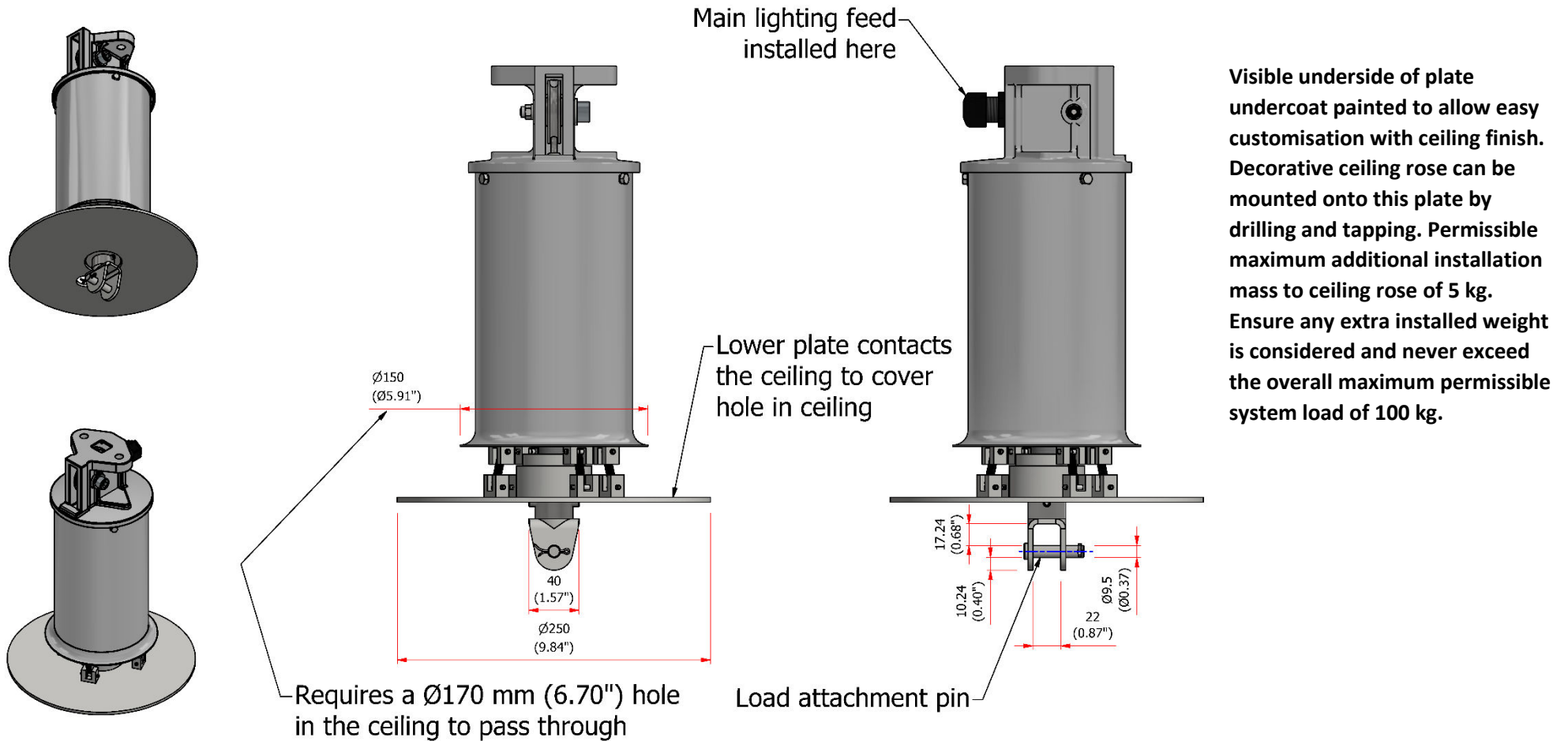


Drop point assembly dimensions

Mass: 27 kg (60 lbs)

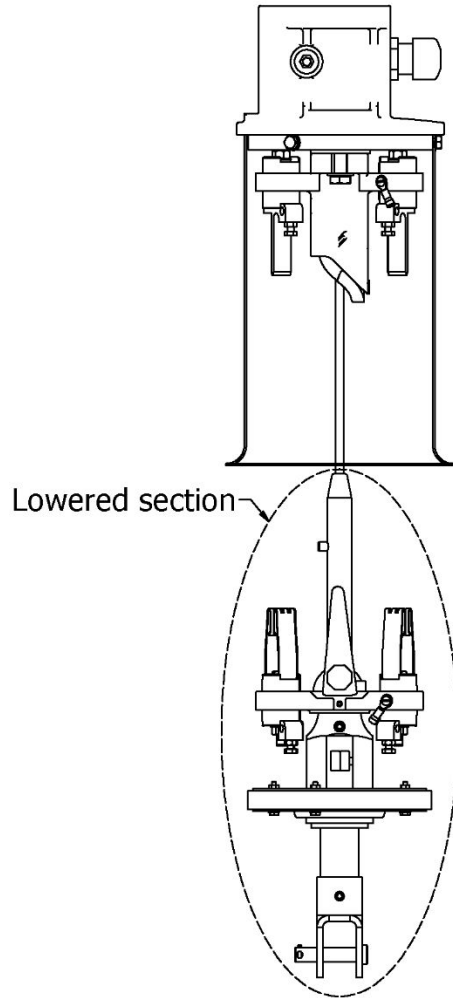


Load attachment/sprung ceiling plate detail

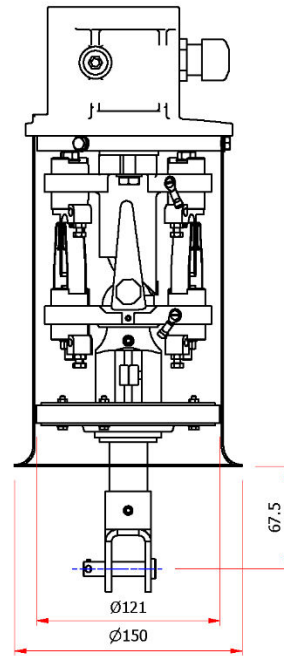


Contact Suspension Unit docking positions/dimensions

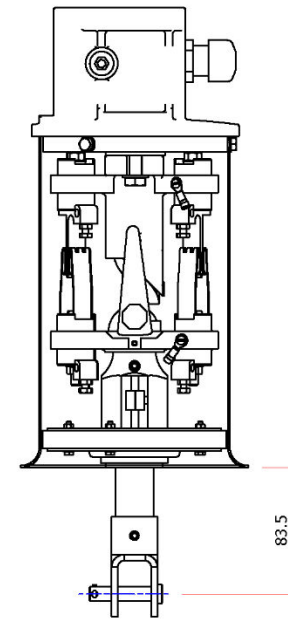
Lowered position



Raised during docking process



Docked position

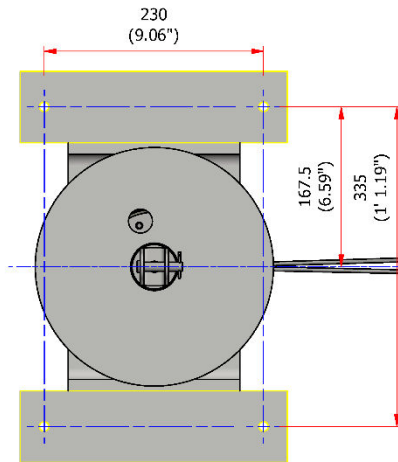


Mounting dimensions

Pulley Assembly Mounting

4 x M10 fasteners

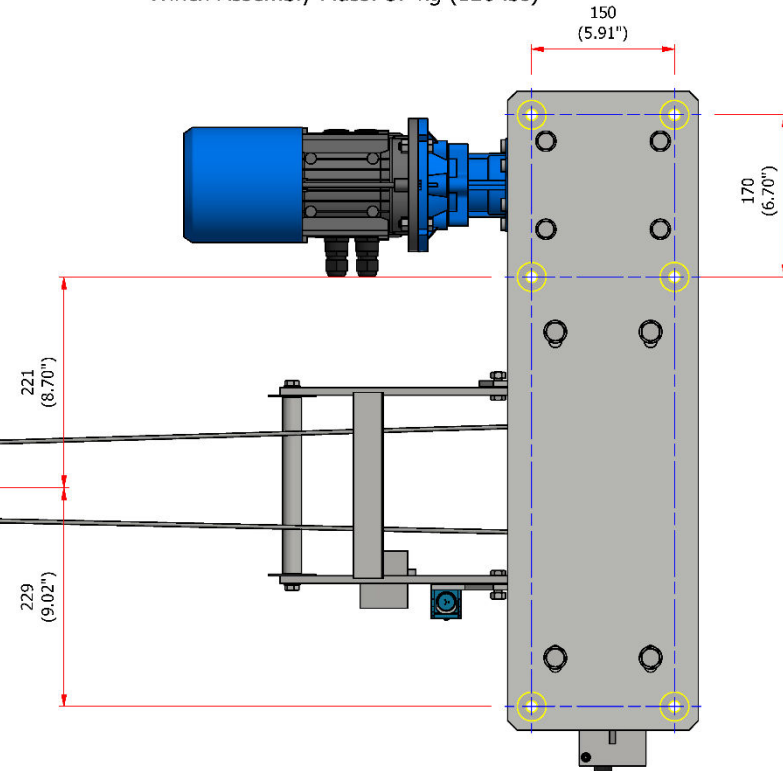
Pulley Assembly Mass: 27 kg (60 lbs)



Winch Assembly Mounting

6 x M12 fasteners

Winch Assembly Mass: 57 kg (126 lbs)

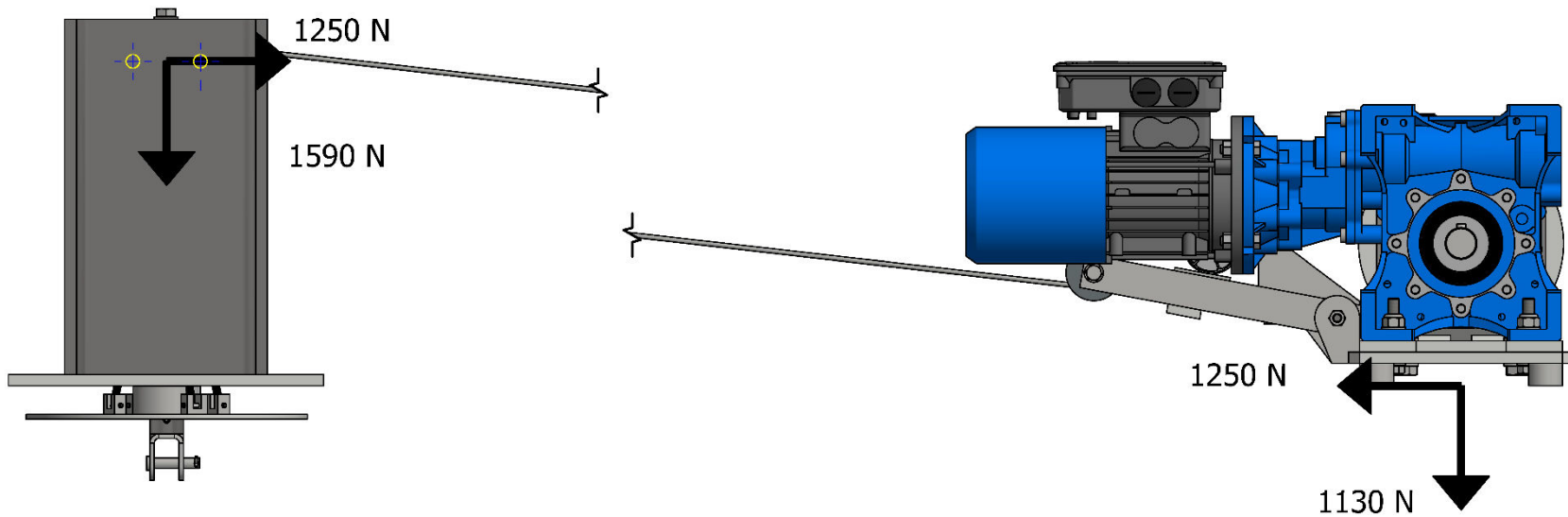


System loadings

Maximum Loading Produced

Includes: proof operation loading of 25% over SWL and self weight

Moment at contact suspension unit base changes depending on the unique mounting position on the channels.



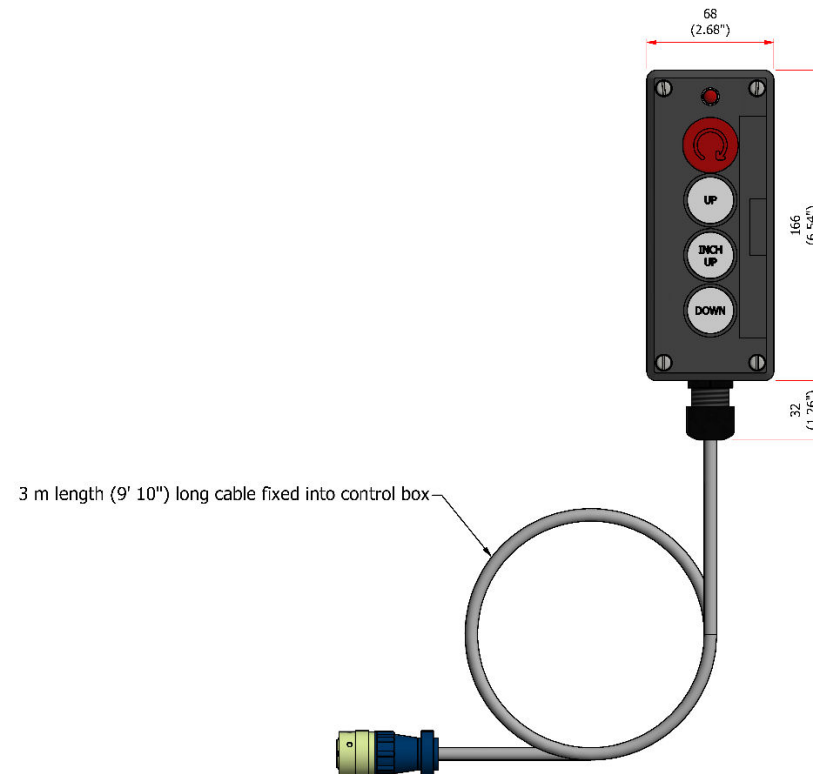
Winch system technical specifications

Contact Penny Hydraulics if a different system specification is required.

SKU	872-000078
Maximum load	100 kg (220 lbs)
Maximum lowering distance	10 m (32' 8")
Power feed to load	3 contacts, 30 A per contact
Winch system power requirements	13 A 240 V single phase, 50 Hz (USA – 13 A, 120 V single phase, 60 Hz)
Shipping dimensions	900 x 750 x 350 mm (35.4" x 29.5" x 13.7")
Shipping weight	90 kg (198 lbs)
No of automatic stop positions	2
Raising/lowering speed	1.2 m/min (3.3 ft/min)
Running noise	Lift operating when loaded below 46 dB(A)
Running mode	Soft start/stop
Installation environment	Internal use only
Control type	Wired remote control (standard), radio wireless system (optional)
Conformity	The Supply of Machinery (Safety) Regulations 1998 BS 7906-1 Category B BS EN ISO 12100:2010 Safety of Machinery – General principles for design – Risk assessment and risk reduction 2014/30/EU Electromagnetic Compatibility Directive 2014/35/EU Low Voltage Directive Lifting Operations and Lifting Equipment Regulations 1998

Wired remote control technical specifications

Cable length	3 m (9' 10")
Protection class	IP65
Housing material	Polycarbonate
Functions	3 – Hold to run + E-Stop
Dimensions	166 x 68 x 53 mm (6.5" x 2.7" x 2.1")
Mass	0.4 kg (0.9 lbs)

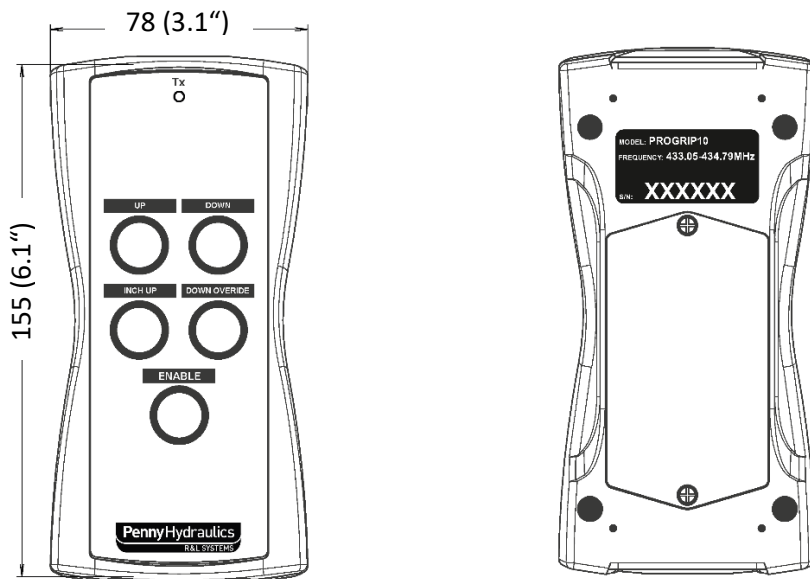


Wireless radio remote system technical specifications

(must be specified as optional extra)

Progrip handset

Power supply	4.5 V (3x AA Batteries)
Frequency	433.05-434.79 MHz
Antenna	Internal
Range	Up to 100 m (328')
Protection class	IP65
Housing material	ABS
Functions	4 – Hold to run (with Enable)
Dimensions	160 x 78 x 35 mm (6.2" x 3" x 1.4")
Mass	240 g (8.5 oz)



Ultrabeam DC4 receiver

Power supply	12-28 VDC
Frequency	433.05-434.79 MHz
Antenna	External
Protection class	IP65
Housing material	ABS (UL94-HB)
Dimensions	145 x 91 x 55 mm (5.7" x 3.5" x 2.2")
Mounting	4x clearance holes for M4 bolts/4mm screws
Rated load	10 A at 24 VDC / 250 VAC

