

LTM

LIFT | TURN | MOVE | LTD

ENTERTAINMENT PRODUCTS
HOISTS / TRACK / CONTROL – ALL IN ONE PLACE



VERSION
2018



LTM - LIFT TURN MOVE LTD



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LTM (Lift Turn Move Ltd) supplies hoisting, traversing & control equipment/ components for entertainment lifting and moving applications. Established in 2004 and based in Bromborough, Wirral, we are an independent company owned and operated by the people who run the business day by day, this ensures decisions are made swiftly and customer service is top priority.

WHY USE LTM

Extensive range of equipment and solutions for use in entertainment applications including Production, Venues and Theatres.

We offer only the highest quality products - if we won't stand under it we won't sell it.

Fast response and delivery.

Our staff have lifting equipment and application experience and hold qualifications relating to the products and services we supply.

Stocks of hoists/spare parts at our premises, we offer the support that you need.

Standard hoist controllers for production use or specially built for venue installations.

Customer service is a priority not an afterthought - when we deal with suppliers we expect fast response, in-depth product knowledge and exceptional service- so we offer nothing less to our clients.

We are an equipment supplier, we do not carry out project installation or compete with you in lighting, sound, staging or stage engineering.

When you deal with LTM, you get experience, problem solving and most of all flexibility - free of charge.

OUR VISION

To be the leading supplier of electric chain hoists, trolleys and hoist control systems.

MARKETS AND PRODUCTS

LTM supply equipment to assist with the lifting, handling, supporting or moving of loads, products with a reputation for value, performance and quality engineering.

We offer GIS and LoadGuard electric chain hoists and trolleys, Guardian and G- Pro hoist controllers, motion control systems, manual lifting equipment and light crane & monorail track systems.

Standard and high integrity chain hoists and control systems are our speciality.

TECHNICAL COMPETENCE & QUALITY POLICY STATEMENT

LTM are full members of LEEA (Lifting Equipment Engineers Association), sales, technical and workshop staff hold LEEA qualifications and LEEA Team Cards and have on-going product training. Our processes are audited and checked by LEEA, we are certified to carry out Test and Examine, Service/ Repair of:

Lifting Equipment General

Lifting Machines Manual

Lifting Machines Power

We provide total technical back up for our equipment. We inspect every item and proof load test every hand and electric hoist that we supply.

All products are supplied with comprehensive operating instructions, an EC Declaration of Conformity or Incorporation and where applicable a Certificate of Thorough Examination.

We have websites, product documentation and support for your marketing & promotion.

For further information about LTM and its products, people and services, please visit www.liftturnmove.co.uk

PRODUCT TRAINING, INSPECTION & MAINTENANCE

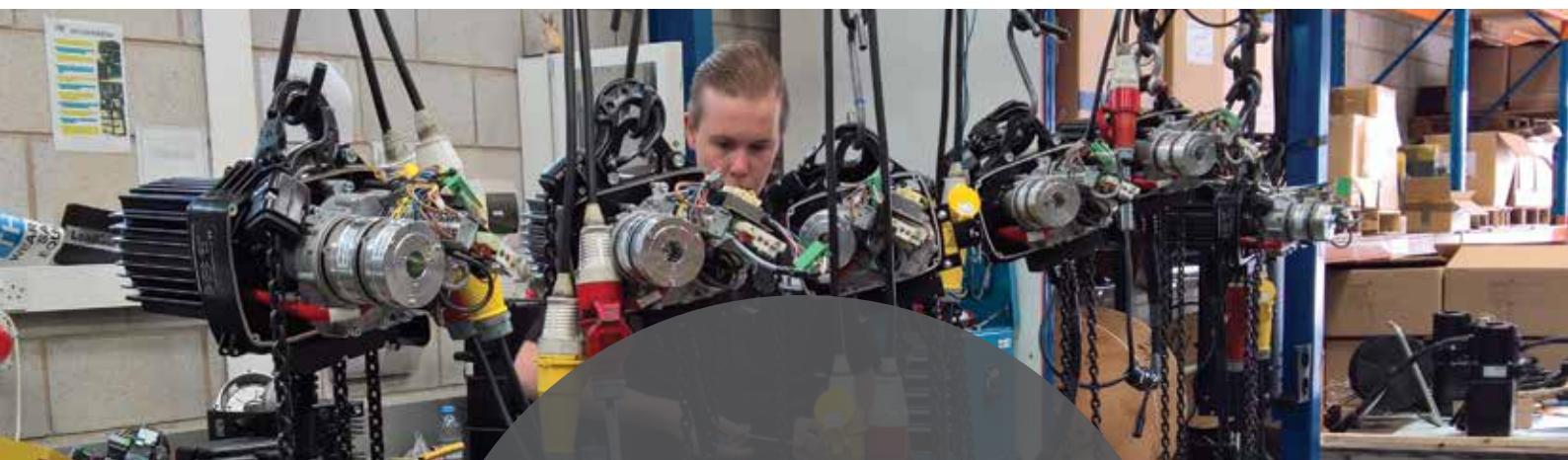
We have a new lifting equipment training centre. The school provides a variety of courses to help employers and users sell, operate, maintain and service the equipment that we offer.

LTM training staff with experience of use and maintenance of lifting equipment ensure practical and thorough training in line with current legislation.

Please contact us if you would like to attend any of the courses that we run.

We work with and train many of the lifting equipment service organisations who undertake installation, inspection, servicing and repairs.

Our sales and workshop staff are available to help on technical issues.



COMPANY CONTACT DETAILS

LTM - Lift Turn Move Ltd
Unit 2 Stadium Court
Wirral International Business Park
Plantation Road
Bromborough
Wirral
UK CH62 3QG

SALES AND GENERAL CONTACTS

Tel: +44 (0)151 649 0467
Fax: +44 (0)151 649 0099
Email: sales@LiftTurnMove.co.uk
Email: accounts@LiftTurnMove.co.uk
Website: www.liftturnmove.co.uk

OPENING HOURS

Mon-Thur: 8:30 - 5:00
Friday: 8:30 - 2:30

The office is often open outside these times.

DELIVERIES

We use various methods of delivery and can deliver more or less whenever you need.

To stay up to date with the latest events at LTM please follow us on Facebook, Twitter and LinkedIn



liftturnmove

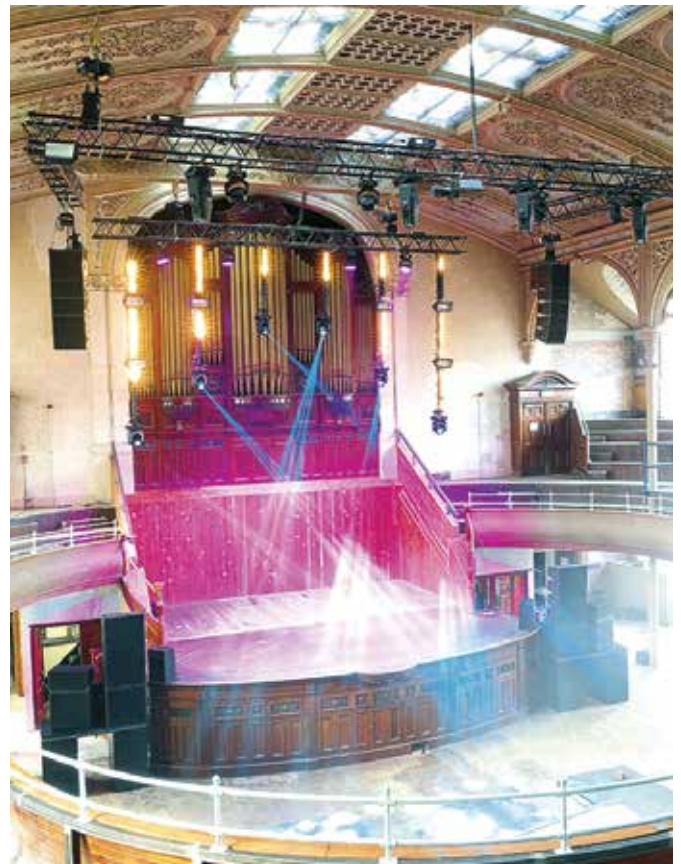


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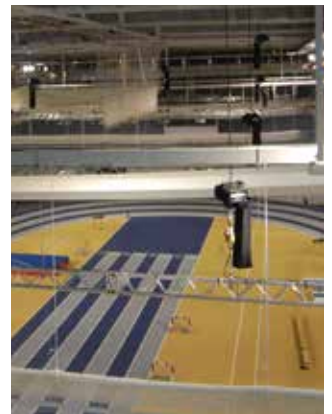
LTM PRODUCT APPLICATIONS



GEARED FOR YOUR PERFORMANCE

TV STUDIOS | MUSIC & SPORTS ARENAS | HOUSES OF WORSHIP | PRODUCTION RIGGING | MULTIPURPOSE VENUES | THEATRES

LTM PRODUCT APPLICATIONS



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GIS ELECTRIC CHAIN HOIST TYPE LP/LPM

SECOND BRAKE

Advanced brake design, virtually maintenance free, each hoist can be equipped with a second independent brake that fits inside the existing cover- easily adaptable to BGV D8+

In a few simple steps, it is mounted on the existing drive shaft just after the first brake



NOISE LEVELS

LP electric chain hoists are equipped with a 3-stage self-contained gearbox. The helical gearing with geometric optimisation ensures extremely quiet running.

Thanks to the protection provided by the cover and housing the sound pressure level is only 65 dB. This makes it one of the quietest motors available.

WEATHER RESISTANT

The hoist has protection class IP65. It is dust proof and protected against water jets, weather resistant.

Controls are in an enclosed aluminium panel.



LIFTING CHAIN

Case hardened with manganese phosphate protected profile (square) steel chain provides up to 15 % more lifting capacity compared to round steel chain

The higher cross-sectional area reduces wear and increases the life of the chain

Manganese phosphating improves corrosion resistance and has better dry running properties

SERVICE & MAINTENANCE

The LP range is simple in construction and has low weight and a higher lifting capacity. It is designed to be low wear with a long service life. Repair and maintenance can be done quickly and efficiently. The easy accessibility of parts make this hoist economical to maintain

The LP has a modular structure, the hoist can be quickly stripped and reassembled thanks to the polygonal connections. This saves time and cost which both technicians and customers appreciate

LOADGUARD ELECTRIC CHAIN HOIST TYPE LG

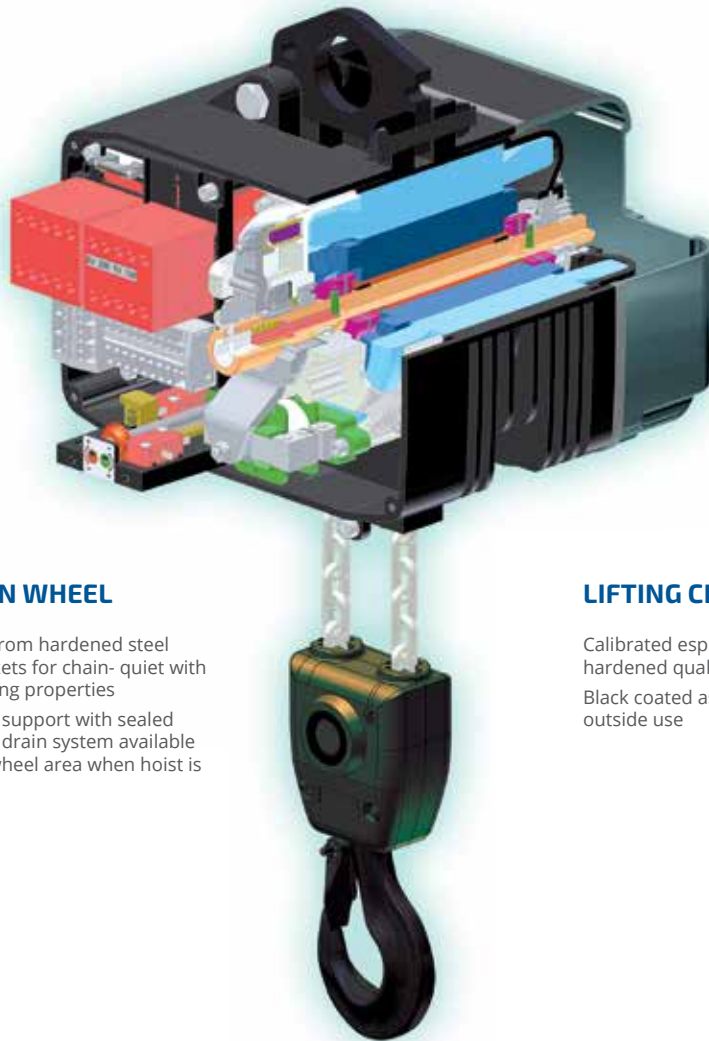
BRAKE

Advanced brake design, virtually maintenance free
Maximum safety - the brake is mounted after the slipping clutch; clutch wear will not affect the integrity of the load
Double brake assembly available which can be independently checked for correct operation - hoist is easily adaptable to BGV D8+



CONTROL SYSTEM

Simple technology (no electronics)
Reliable construction using proven components
Low voltage 42V control system
(110V or 24V available on request)



LOAD CHAIN WHEEL

Manufactured from hardened steel with 5 or 6 pockets for chain- quiet with improved running properties
Double bearing support with sealed bearings, water drain system available for load chain wheel area when hoist is inverted



LIFTING CHAIN

Calibrated especially for the hoist, surface case hardened quality class DAT (8SS) to FEM 9.671
Black coated as standard or zinc plated for outside use



HOUSING

Latest aluminium casting technology, manufactured by an automotive industry supplier, maximum solidity
Extreme working conditions- the body has cast cooling fins to dissipate heat
Easy change from 1-fall to 2-fall operation - no need to dismantle the hoist
Aluminium end covers- with seals to prevent water penetration
Options for better sealing for extreme conditions



SLIPPING CLUTCH

Prevents overloading, simple and precise adjustment at workshop level; no exterior adjustment possible
Clutch is located in the rotor shaft- outside the drive chain; clutch wear will not affect the integrity of the load
Maintenance free and highly resistant to wear, easy servicing thanks to comfortable access
Clutch parts available- no need to buy complete assemblies



LP D8 ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8 GUIDELINES – LIFTING CAPACITY 125KG – 2500KG



THE REGULATIONS

Standard hoists that meet current accepted standards and codes of practice for rigging hoists to D8 DGUV54

GENERAL FEATURES

- » Modern, quiet, reliable and proven design, manufacture and assembly mean long life and competitive pricing
- » Lightweight
- » Lifting capacities from 125kg to 2500kg
- » Direct control or low voltage control
- » Upper/lower geared electrical limit switches
- » Contactor control - (no electronics)
- » Clutch overload device mounted outside the drive train; In the event of clutch problems, the load is not compromised
- » Can be used upright- motor up or climbing - motor down
- » Opening eye body suspension, hook suspension and locking chain hooks on request
- » Available for 400V, 3Ph, or 220V, 1Ph power, others on request

FEATURES - NEW LP/LPM HOIST

- » A new hoist from LTM
- » Designed for a longer life with heavier duty operation, this can give either a higher lifting capacity (LP500= 800kg) or a normal lifting capacity (LP500= 500kg) for higher duty and longer lifetime hours
- » NEW Profile (square) steel lifting chain carries heavier loads with lower wear, black phosphate protection with high corrosion resistance and increased service life
- » IP65 protection class- ideal for outside use, the moisture sensitive components are housed separately
- » Polygon connections on shafts and hubs - easier maintenance
- » 5 pocket load chain wheel gives smooth running and quieter operation
- » Aluminium body - the body is black electrophoretic coated
- » Simple, reliable, easy to use and maintain
- » Lightweight hoists with the smallest model weighing only 12kg

OPTIONS

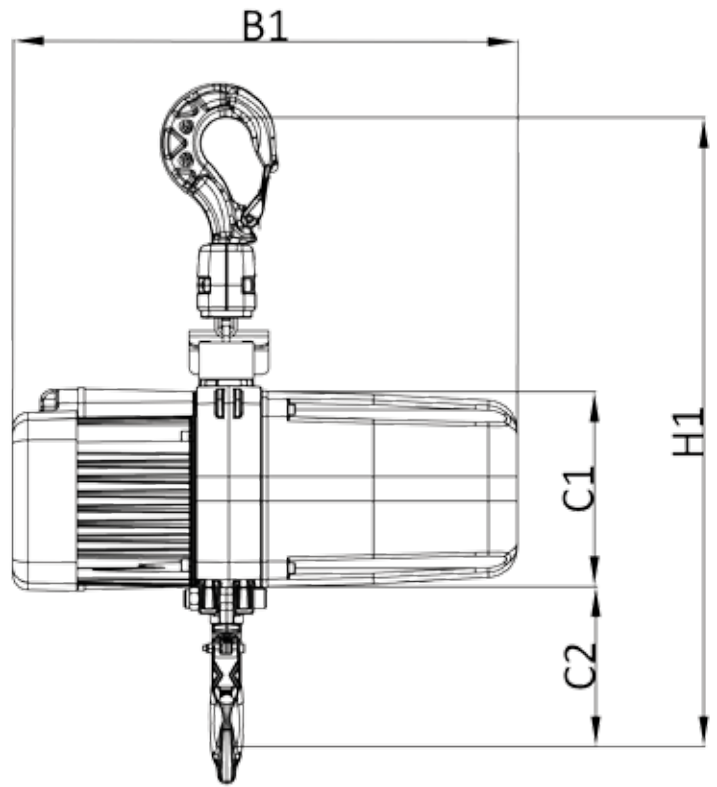
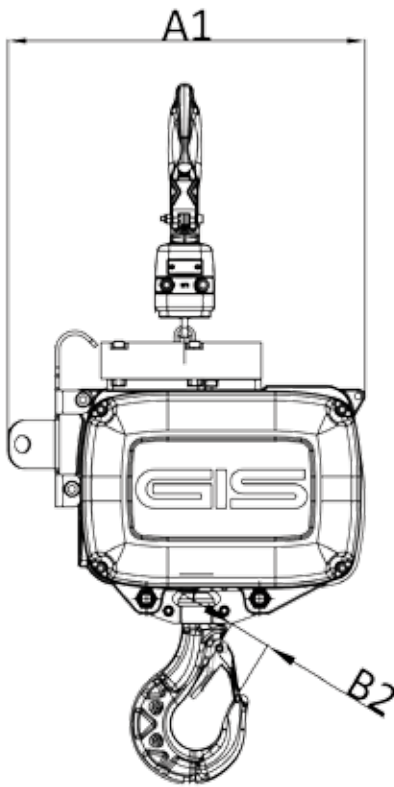
- » Extra features allow the hoist to conform to higher safety standards when ordered or later modified
- » These options include second brake, standard and ultimate limit switches, load sensing suspensions and encoders for positional feedback
- » Hoists for single phase power
- » Locking hooks
- » Flight cases
- » Other features on request, ask our sales team for details
- » Custom cable tails to meet most control systems

**FOR WHEN YOU NEED TO
LIFT, LOWER, POSITION
OR SUSPEND A LOAD IN
ENTERTAINMENT RIGGING
APPLICATIONS**

LP D8 ENTERTAINMENT CHAIN HOISTS FOR GENERAL RIGGING PURPOSES TO D8 GUIDELINES – LIFTING CAPACITY 125KG – 2500KG

SPECIFICATIONS

Hoist type	Maximum lifting capacity	Nominal lifting speed	No. of chain falls	Motor power	Power Consumption loaded	Chain dimensions	Sound pressure level in hall at 1m distance	Chain safety factor	Protection class	Weight hoist only	Weight per metre lift
	(kg)	(m/min)		(kW)	(A)	(mm)	dB			(kg)	(kg)
LPM250/1NL. D8	320	4	1	0.25	1.8	3.75 x 10.75	65	6.4	IP65	12	0.34
LPM250/1SL. D8	125	8	1	0.25	1.8	3.75 x 10.75	65	16.1	IP65	12	0.34
LP500/1NL. D8	800	4	1	0.55	1.8	5.25 x 15	65	5.1	IP65	22	0.69
LP500/1N. D8	800	8	1	0.72	2.8	5.25 x 15	65	5.1	IP65	22	0.69
LP500/1NF. D8	800	8/ 2	1	0.72/ 0.18	2.8/ 1.7	5.25 x 15	65	5.1	IP65	22	0.69
LP500/2N. D8	1250	4	2	0.55	1.8	5.25 x 15	65	5.1	IP65	22	1.38
LP500/1NF. D8	1250	8/ 2	2	0.72/ 0.18	2.8/ 1.7	5.25 x 15	65	5.1	IP65	22	1.38
LP1000/1NL.D8	1600	4	1	1.5	3.6	7.45 x 23	75	5.1	IP65	45	1.37
LP1000/1N.D8	1600	8	1	2.3	6.5	7.45 x 23	75	5.1	IP65	49	1.37
LP1000/1NF.D8	1600	8/2	1	2.30/0.68	5.7/4.1	7.45 x 23	75	5.1	IP65	49	1.37



DIMENSIONS

Type	Number of falls	A1	B1	B2	C1	C2	H1
LPM250 / D8	1	205	389	20	133	96	394
LP500 / D8	1	293	414	24	160	132	516
LP1000 / D8	1	374	514	28	212	133	619

Dimensions of 2 fall hoists on demand
Drawings available on request

LG D8 ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8 GUIDELINES – LIFTING CAPACITY 1600KG – 5000KG



THE REGULATIONS

Standard hoists that meet current accepted standards and codes of practice for rigging hoists to D8 DGUV54.

GENERAL FEATURES

- » Modern, quiet, reliable and proven design, manufacture and assembly mean long life and competitive pricing
- » Lifting capacities from 1600kg to 5000kg
- » Direct control or low voltage control
- » Contactor control - (no electronics)
- » Clutch overload device mounted outside the drive train; In the event of clutch problems, the load is not compromised
- » Can be used upright- motor up or climbing - motor down
- » Aluminium body - black electrophoretic coated with galvanised or black chain
- » Eye body suspension, hook suspension and locking hooks on request
- » Available for 400V, 3Ph power, others on request
- » Upper and lower geared limit switches

OPTIONS

- » Extra features allow the hoist to conform to higher safety standards when ordered or later modified
- » These options include second brake, standard and ultimate limit switches, load sensing suspensions and encoders for positional feedback
- » Locking hooks
- » Special paint finishes
- » Flight cases



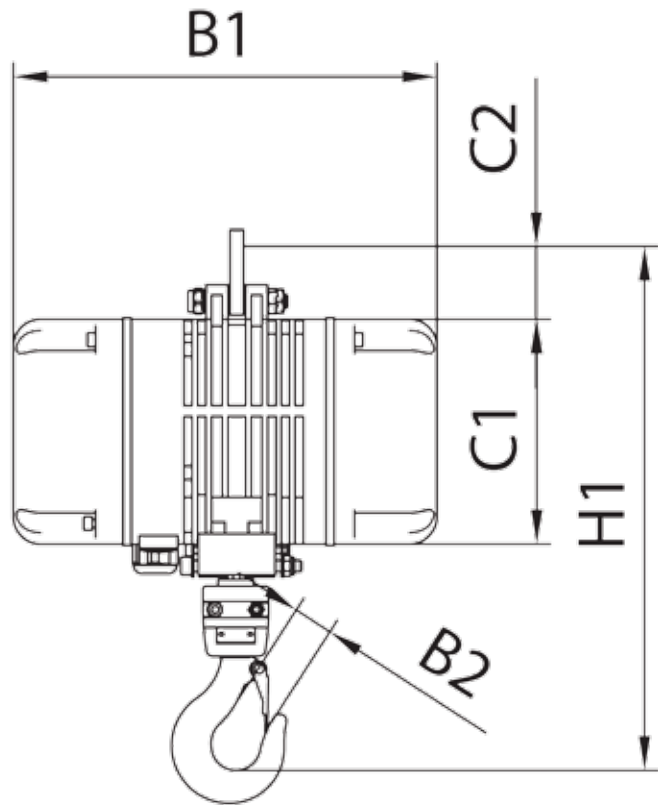
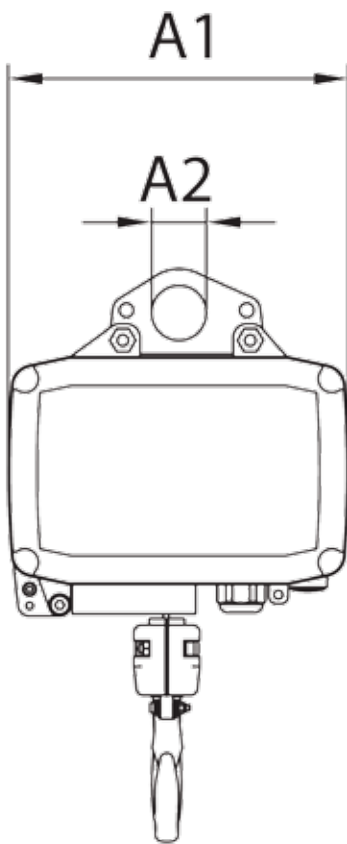
**FOR WHEN YOU NEED TO
LIFT, LOWER, POSITION
OR SUSPEND A LOAD
IN ENTERTAINMENT
RIGGING APPLICATIONS**

LG D8 ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8 GUIDELINES – LIFTING CAPACITY 1600KG – 5000KG

SPECIFICATIONS

Hoist type	Lifting capacity	Nominal lifting speed	No. of chain falls	Motor power	Power consumption loaded	Chain dimensions	Sound pressure level in hall at 1m distance	Chain safety factor	Protection class	Weight hoist only	Weight per metre lift
	(kg)	(m/min)		(kW)	(A)	(mm)	dB			(kg)	(kg)
LG16/1NL.D8	1600	4	1	0.76	4.5	9 x 27	75	6.4	IP55	60	1.75
LG16/1N.D8	1600	8	1	1.53	6.8	9 x 27	75	6.4	IP55	60	1.75
LG16/2N.D8	3200	4	2	1.53	6.8	9 x 27	75	6.4	IP55	62	3.5
LG20/1NL.D8	2000	4	1	0.96	4.8	10 x 28	75	6.4	IP55	60	2.25
LG20/1N.D8	2000	8	1	1.91	7.3	10 x 28	75	6.4	IP55	60	2.25
LG20/2N.D8	4000	4	2	1.91	7.3	10 x 28	75	6.4	IP55	64	4.5
LG250/1N.D8	2500	3.2	1	1.53	6.8	10 x 28	75	6.4	IP55	60	2.25
LG250/1N.D8	2500	6.4	1	3.06	7.3	10 x 28	75	6.4	IP55	60	2.25
LG250/2N.D8	5000	3.2	2	3.06	6.8	10 x 28	75	6.4	IP55	64	4.5



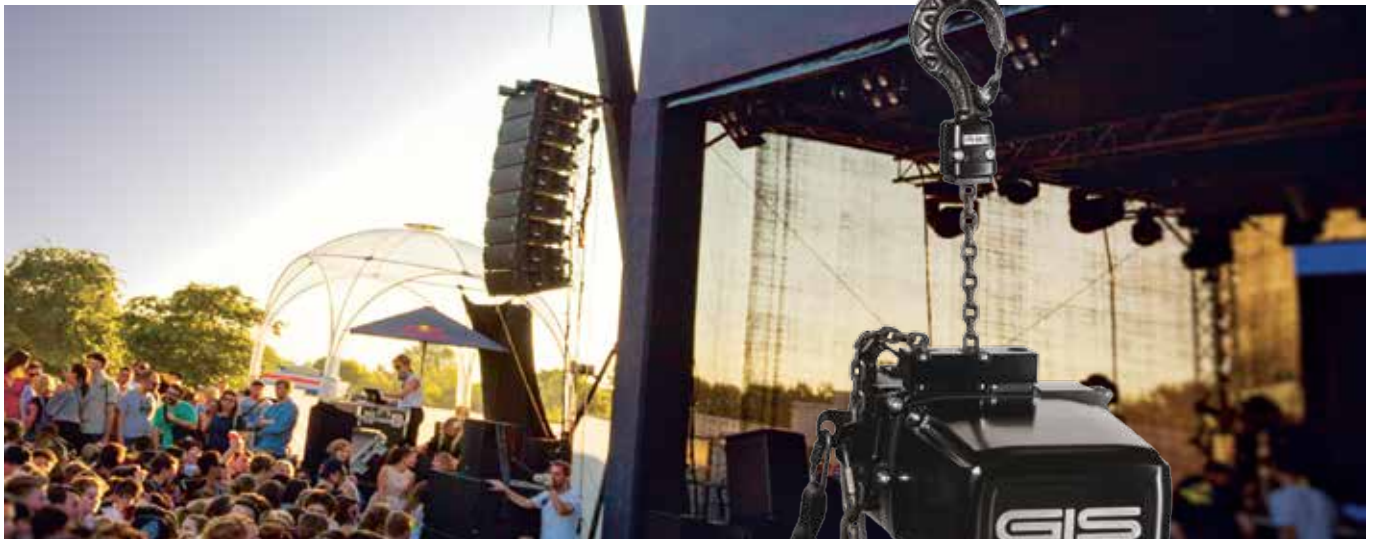
DIMENSIONS

Type	Number of falls	A1	B1	B2	C1	C2
LG16 / D8	1	347	389	37	230	164
LG20 / D8	1	347	389	37	230	164
LG250 / D8	1	347	389	37	230	164

Dimensions of 2 fall hoists on demand
Drawings available on request

LP D8+ ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8+ GUIDELINES - LIFTING CAPACITY 125KG – 1000KG



THE REGULATIONS

High integrity hoists prepared for incorporation into D8+ hoisting systems to enable hoists to be used with the capability of holding loads at rest above people without using a secondary safety component, to accepted standards and codes of practice

These hoists allow the following (when people are below the load):

Load holding when loads are static

The hoists do not allow (when people are below the load):

Assembly/disassembly during set up
Staging processes involving movement

D8+ REQUIREMENTS INCLUDE:

- » Second brake
- » De-rating of the lifting capacity to give an increased safety factor of at least 8:1 safety coefficient of the load bearing material, according to DIN56950-1, 2012
- » Clutch overload device is mounted outside the drive train; In the event of clutch problems, the load is not compromised

FEATURES - GENERAL

- » Modern, quiet, reliable and proven design, manufacture and assembly mean long life and competitive pricing
- » Lightweight hoists, with the smallest model weighing only 13kg
- » Lifting capacities from 125 to 1000kg on 1 chain fall
- » 2 independent spring loaded brakes
- » Direct control or low voltage control – With upper/lower geared electrical limit switches
- » Contactor control - no electronics
- » Clutch overload device mounted outside the drive train; in the event of clutch problems, the load is not compromised
- » Can be used upright - motor up or climbing - motor down
- » Aluminium body - black electrophoretic coated
- » Eye body suspension is standard, hook suspension and locking chain hooks on request
- » Available for 400V, 3Ph, or 220V, 1Ph power, others on request

FOR WHEN YOU NEED TO LIFT, LOWER, POSITION OR SUSPEND A LOAD IN ENTERTAINMENT RIGGING APPLICATIONS

FEATURES - NEW LP/LPM HOIST

- » A new hoist from LTM
- » Designed with higher lifting capacities at D8PLUS with higher duty and longer lifetime hours
- » IP65 Protection class - weather resistant, the moisture sensitive components are housed separately and sealed
- » NEW Profile (square) steel lifting chain carries heavier loads with lower wear, black phosphate protection with high corrosion resistance and increased service life
- » Polygon connections on shafts and hubs - easier maintenance
- » Simple, reliable, easy to use and maintain
- » Hoist can be set to D8+ according to DIN569508:1 or IGVSQP210:1

OPTIONS

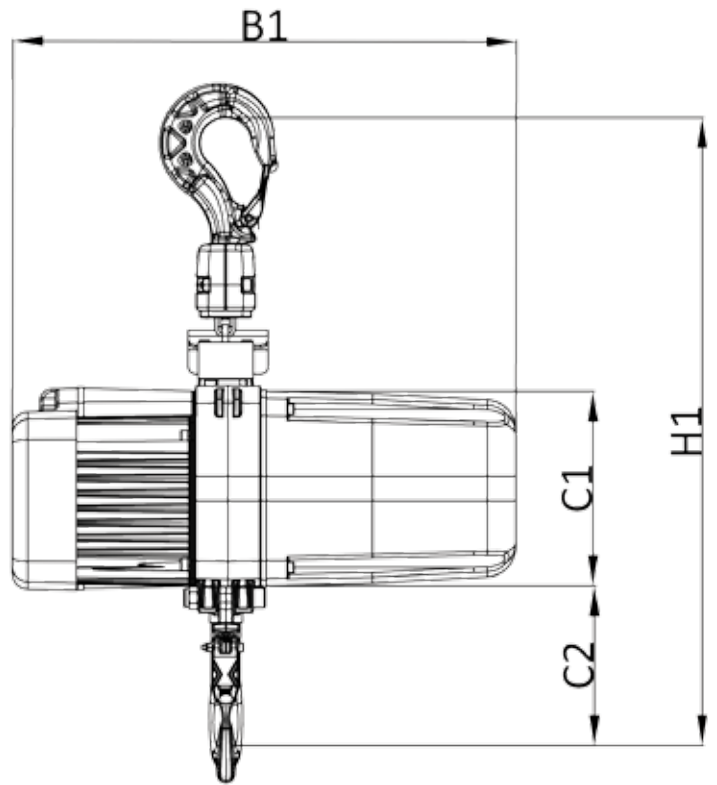
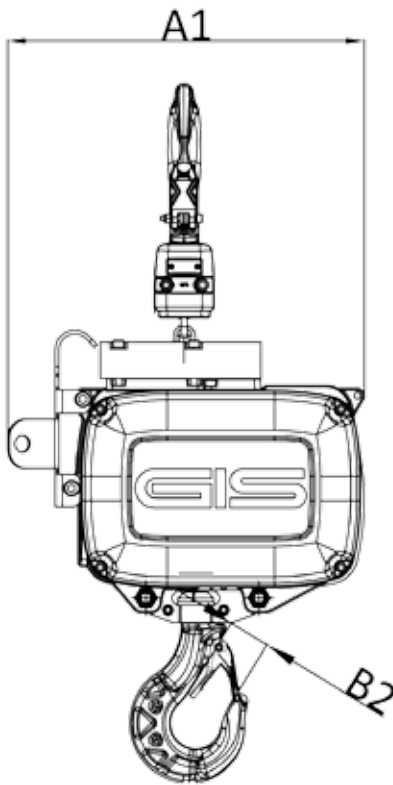
- » Extra features allow the hoist to conform to higher safety standards with order or when later modified
- » Options include standard and ultimate limit switches, load sensing suspensions or encoders for positional feedback
- » Hoists for single phase power
- » Locking hooks
- » Flight cases
- » Other features on request, ask our sales team for details
- » Custom cable tails to meet most control systems

LP D8+ ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8+ GUIDELINES - LIFTING CAPACITY 125KG – 1000KG

SPECIFICATIONS

Hoist type	Lifting capacity	Nominal lifting speed	No. of chain falls	Motor power	Power consumption loaded	Chain dimensions	Sound pressure level in hall at 1m distance	Chain safety factor	Protection class	Weight hoist only	Weight per metre lift
	(kg)	(m/min)		(kW)	(A)	(mm)	dB			(kg)	(kg)
LPM250/1NL. D8+	250	4	1	0.25	1.8	3.75 x 10.75	65	8	IP65	13	0.34
LPM250/1SL. D8+	125	8	1	0.25	1.8	3.75 x 10.75	65	8	IP65	13	0.34
LP500/1NL. D8+	500	4	1	0.55	1.8	5.25 x 15	65	8	IP65	23	0.69
LP500/1N. D8+	500	8	1	0.72	2.8	5.25 x 15	65	8	IP65	23	0.69
LP500/1NF. D8+	500	8/2	1	0.72/0.18	2.8/1.7	5.25 x 15	65	8	IP65	23	0.69
LP500/2N. D8+	1000	4	2	0.72	2.8	5.25 x 15	65	8	IP65	23	0.69
LP500/2NF. D8+	1000	4/1	2	0.72/0.18	2.8/1.7	5.25 x 15	65	8	IP65	23	0.69
LP1000/1NL.D8+	1000	4	1	1.5	3.6	7.45 x 23	75	8	IP65	47	1.37
LP1000/1N.D8+	1000	8	1	2.3	6.5	7.45 x 23	75	8	IP65	51	1.37
LP1000/1NF.D8+	1000	8/2	1	2.30/0.68	5.7/4.1	7.45 x 23	75	8	IP65	51	1.37



DIMENSIONS

Type	Number of falls	A1	B1	B2	C1	C2	H1
LPM250 / D8 / D8+	1	205	389	20	133	96	394
LP500 / D8 / D8+	1	293	414	24	160	132	516
LP1000 / D8 / D8+	1	374	514	28	212	133	619

Dimensions of 2 fall hoists on demand
Drawings available on request

LG D8+ ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8+ GUIDELINES – LIFTING CAPACITY 630KG – 2000KG



THE REGULATIONS

High Integrity Hoists prepared for incorporation into D8+ hoisting systems to enable hoist to be used with the capability of holding loads at rest above people without using a secondary safety component, to accepted standards and codes of practice.

These hoists allow the following (when people are below the load):

Load holding when loads are static

The hoists do not allow (when people are below the load):

Assembly/disassembly during set up
Staging processes involving movement

D8PLUS REQUIRES

- » Second brake
- » De-rating of the lifting capacity to give an increased safety factor. LG Hoists are De-rated to 10:1 in accordance with BGV D8+ requirements
- » Clutch overload device is mounted outside the drive train; In the event of clutch problems, the load is not compromised

FEATURES - GENERAL

- » Modern, quiet, reliable and proven design, manufacture and assembly mean long life and competitive pricing
- » Lightweight
- » Lifting capacities from 630 to 2000kg
- » 2 independent spring loaded brakes
- » Direct control or low voltage control - with upper/lower geared electrical limit switches
- » Contactor control - no electronics
- » Clutch overload device mounted outside the drive train; in the event of clutch problems, the load is not compromised
- » Can be used upright - motor up or climbing - motor down
- » Aluminium body - black electrophoretic coated with zinc plated or black chain
- » Eye body suspension is standard, hook suspension and locking



FOR WHEN YOU NEED TO LIFT, LOWER, POSITION OR SUSPEND A LOAD IN ENTERTAINMENT RIGGING APPLICATIONS

- » chain hooks on request
- » Available for 400V, 3Ph, or 220V, 1Ph power, others on request

OPTIONS

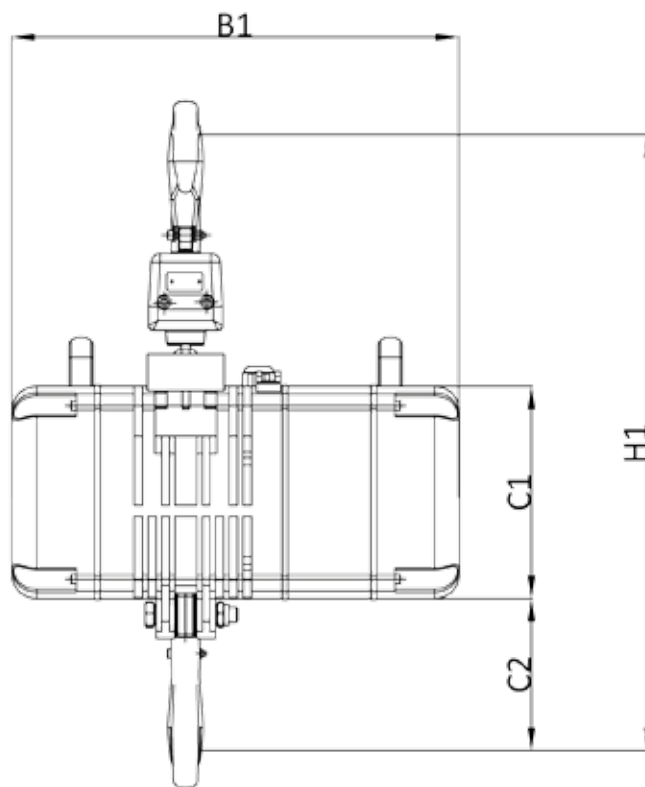
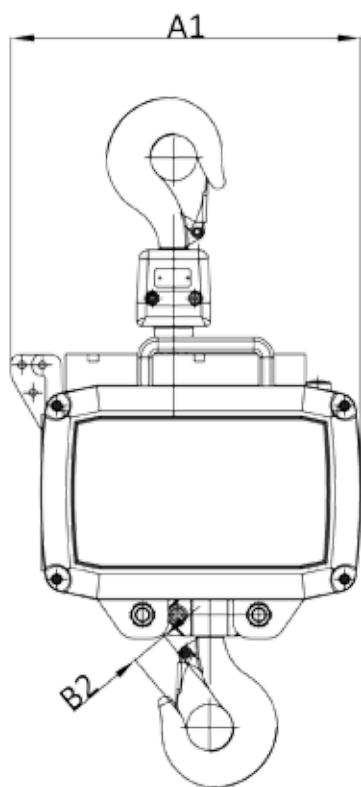
- » Extra features allow the hoist to conform to higher safety standards with order or when later modified
- » These options include standard and ultimate limit switches, load sensing suspensions or encoders for positional feedback
- » Hoists for single phase power
- » Locking hooks
- » Flight cases

LG D8+ ENTERTAINMENT CHAIN HOISTS

FOR GENERAL RIGGING PURPOSES TO D8+ GUIDELINES – LIFTING CAPACITY 630KG – 2000KG

SPECIFICATIONS

Hoist type	Lifting capacity	Nominal lifting speed	No. of chain falls	Motor power	Power consumption loaded	Chain dimensions	Sound pressure level in hall at 1m distance	Chain safety factor	Protection class	Weight hoist only	Weight per metre lift
	(kg)	(m/min)		(kW)	(A)	(mm)	dB			(kg)	(kg)
LG10/1/4D8+	630	4	1	0.46	3.5	7 x 22	72	10	IP55	44	1.04
LG10/1/8D8+	630	8	1	0.91	4.3	7 x 22	72	10	IP55	44	1.04
LG10/1/82D8+	630	8/ 2	1	0.91/ 0.23	4.3/ 3.8	7 x 22	72	10	IP55	44	1.04
LG10/1/164D8+	630	16/ 4	1	5.8/ 2.6	6.5/ 5.8	7 x 22	72	10	IP55	44	1.04
LG10/2/4D8+	1260	4	2	0.46	4.3	7 x 22	72	10	IP55	46	2.08
LG10/2/41D8+	1260	4/ 1	2	0.91/ 0.23	4.3/ 3.8	7 x 22	72	10	IP55	46	2.08
LG10/2/82D8+	1260	8/ 2	2	5.8/ 2.6	6.5/ 5.8	7 x 22	72	10	IP55	46	2.08
LG16/1/4D8+	1000	4	1	0.76	4.5	9 x 27	75	10	IP55	60	1.75
LG16/1/8D8+	1000	8	1	1.53	6.8	9 x 27	75	10	IP55	60	1.75
LG16/1/82D8+	1000	8/ 2	1	1.53/ 0.38	7.3/ 6.2	9 x 27	75	10	IP55	62	1.75
LG16/2/4D8+	1600	4	2	1.53	6.8	9 x 27	75	10	IP55	60	3.5
LG16/2/41D8+	1600	4/ 1	2	1.53/ 0.38	7.3/ 6.2	9 x 27	75	10	IP55	62	3.5
LG20/1/4D8+	1250	4	1	0.96	4.8	10 x 28	75	10	IP55	60	2.25
LG20/1/8D8+	1250	8	1	1.91	7.3	10 x 28	75	10	IP55	60	2.25
LG20/1/82D8+	1250	8/ 2	1	1.91/ 0.48	8.5/ 6.6	10 x 28	75	10	IP55	62	2.25
LG20/2/4D8+	2000	4	2	1.91	7.3	10 x 28	75	10	IP55	60	4.5
LG20/2/41D8+	2000	4/ 1	2	1.91/ 0.48	8.5/ 6.6	10 x 28	75	10	IP55	62	4.5



DIMENSIONS

Type	Number of falls	A1	B1	B2	C1	C2	H1
LG10 / D8+	1	323	465	32	214	121	583
LG16 / D8+	1	379	472	37	230	165	667
LG20 / D8+	1	379	472	37	230	165	667

Dimensions of 2 fall hoists on demand
 Drawings available on request

LP & LG BGV C1 ENTERTAINMENT CHAIN HOISTS



THE REGULATIONS

High integrity Hoists prepared for incorporation into BGV C1 hoisting systems. This refers to a German safety regulation for moving loads above people without using a secondary safety component

These hoists allow the following (when people are present below the load):

- Assembly/ disassembly in set up
- Load holding when loads are static i.e. when the load is in a fixed position}
- Staging processes involving movement

BGV C1 REQUIRES

- » Factor of Safety - 10:1. The lifting capacity is de-rated
- » 2 separate brakes
- » 4 position limit switches - limit switches & emergency limit switches
- » Shutdown at 120% of rated load (using loadcell)
- » Underload monitoring - (using loadcell)
- » Hoists to this regulation are tested and approved by TUV offices in Germany and relevant certification issued.
- » BGV C1 systems have to be approved on site by an approved theatrical engineer when integration tests are carried out.

BGV C1 HOISTS FEATURE:

- » Modern, quiet, reliable and proven design, manufacture and assembly mean long life and competitive pricing
- » Lifting capacities from 400 to 1000kg on one chain fall
- » Upper/lower geared electrical limit switches plus emergency switches
- » Hoists can be used upright - motor up or climbing - motor down applications
- » The hoist is black, chain is black or zinc plated
- » Eye or hook suspension with load sensor, output signal 0-10V
- » Integration of PLC controller possible, control systems monitor the special features and in the event of any of the safety features being breached- overload, slack chain or emergency limit the entire lifting system shuts down
- » Control systems operate with single or variable speeds, using encoders which can monitor the position of hoists and load

FEATURES - NEW LP/LPM HOIST RANGE

- » Designed for a higher lifting capacity, this also gives higher duty and longer lifetime hours
- » NEW Profile (square) steel lifting chain carries heavier loads with low wear and black phosphate protection
- » IP65 Protection class
- » Polygon connections on shafts and hubs - easier maintenance
- » Aluminium body - black electrophoretic coated
- » Simple, reliable, easy to use and maintain

OPTIONAL EXTRAS

- » Incremental or absolute encoder on the chain wheel for path measurement
- » Temperature monitoring
- » Locking hooks

Note - We can build hoists with features to your requirements and to operate with your control system. We can also supply hoists without control equipment

ENCODERS FOR POSITIONAL INFO



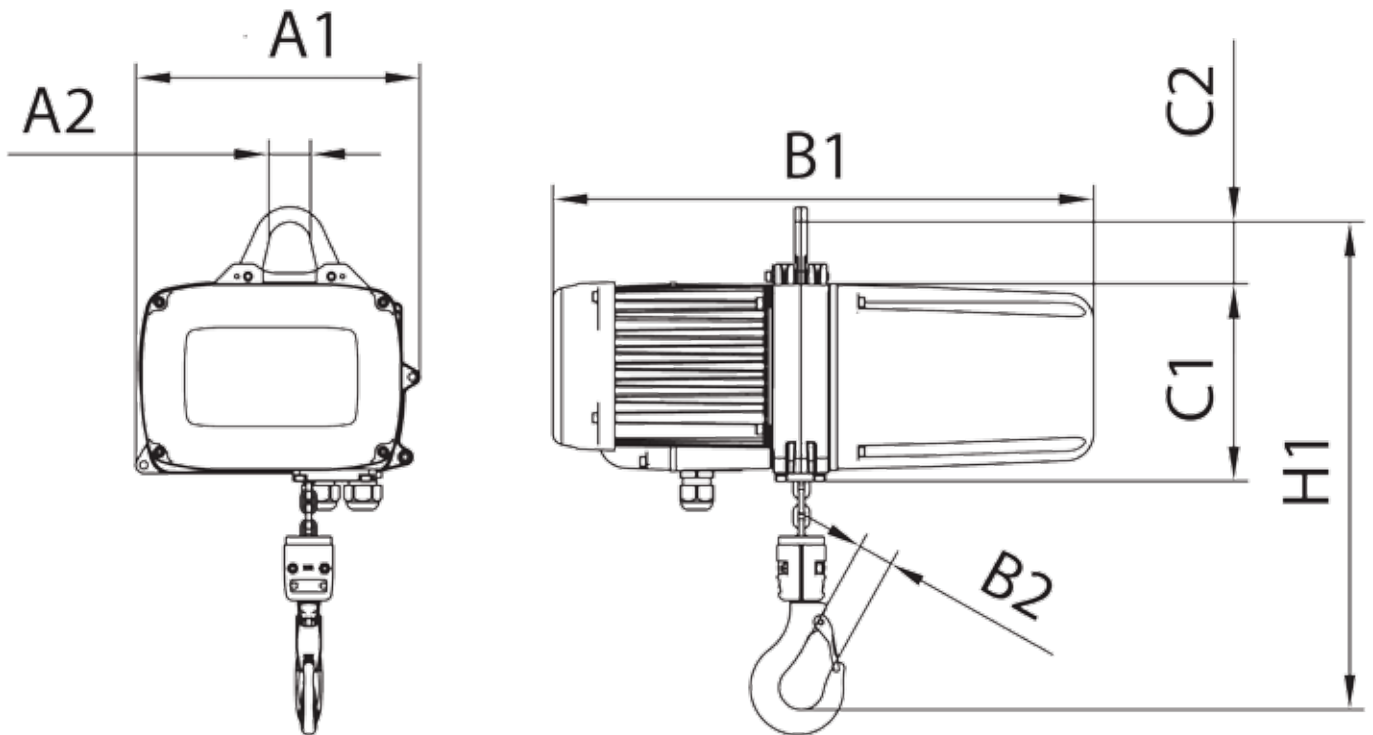
LOAD SENSOR



LP & LG BGV C1 ENTERTAINMENT CHAIN HOISTS

SPECIFICATIONS

Hoist type	Maximum lifting Capacity	Nominal lifting speed	No. of chain falls	Motor power	Power consumption with load	Chain dimensions	Sound pressure level in hall at 1m distance	Protection class	Weight hoist only	Weight per metre lift
	(kg)	(m/min)		(kW)	(A)	(mm)	dB		(kg)	(kg)
LP500/1NL. C1	400	4	1	0.55	1.8	5.25 x 15	65	IP65	24	0.69
LP500/1N. C1	400	8	1	0.72	2.8	5.25 x 15	65	IP65	24	0.69
LP1000/1NL. C1	1000	4	1	1.5	3.6	7.45 x 23	75	IP65	47	1.37
LP1000/1N. C1	1000	8	1	2.3	6.5	7.45 x 23	75	IP65	51	1.37
LCH1600/1NL. C1	800	4	1	0.61	4.5	9 x 27	75	IP55	60	1.75
LCH1600/1N. C1	800	8	1	1.22	6.8	9 x 27	75	IP55	60	1.75
LCH2000/1NL. C1	1000	4	1	0.76	4.8	10 x 28	75	IP55	60	2.25
LCH2000/1N. C1	1000	8	1	1.53	7.3	10 x 28	75	IP55	60	2.25



Dimensions of 2 fall hoists on demand
Drawings available on request

DIMENSIONS

Type	Number of falls	A1	A2	B1	B2	C1	C2	H1
LP500 / C1	1	293	ø40	414	24	95	94	480
LP1000 / C1	1	324	ø52	465	32	214	121	563
LCH1600 / C1	1	366	ø70	485	37	230	146	648
LCH2500 / C1	1	366	ø70	485	37	230	146	648

FLIGHT CASES



- » We offer a range of heavy duty flight cases specially designed for our hoists.
- » We offer cases which hold 1 or 2 hoists
- » 10mm high pressure smooth black laminate panels for the external frame
- » 18mm plywood Insert stillage
- » Heavy duty recessed handles
- » Heavy duty castors for ease of movement
- » Double knuckle piano hinges for the flight case lid, to hold stable in the open position
- » Half-moon dishes for stacking of multiple cases on top of each other
- » 8 Inch x 6 Inch label recess in top of flight case lid
- » Custom flight case colours are available
- » Custom flight case options available
- » Flight cases sized to Fit 1/4 and 1/3 standard truck packs

SPECIFICATIONS

Case type	Hoist type	Capacity	Length	Width	Height with wheels	Weight (kg)
			(mm)	(mm)	(mm)	
LPM250	Standard / D8PLUS	2 hoists	790	584	533	40
LP500	Standard / D8PLUS	2 hoists	790	584	606	43
LP1000	Standard / D8PLUS	1 hoist	790	588	714	49
LG16/20/250	Standard / D8PLUS	1 hoist	790	588	714	49

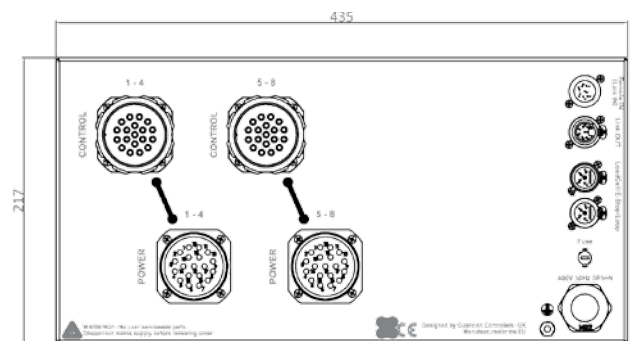
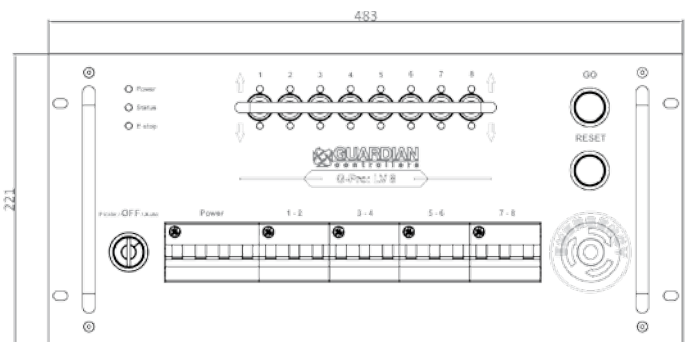


GUARDIAN G-PRO HOIST CONTROLLER



FRONT FACE

- » 4, 8 or 12 channels of linkable control housed in a 5U 19" rack mounted enclosure
- » 4 channel controller power - 32A, 400V, 3Ph- Outs power and control 4 pin Cee connectors - one each for power and control
- » 8 channel controller power - 63A, 400V, 3Ph- Outs power and control via Socapex connectors- 2 for power, 2 for control
- » 12 channel controller power - 63A, 400V, 3Ph- Outs power and control via Socapex connectors - 3 for power, 3 for control
- » Local control or via optional digital remote handset
- » Linkable GO & E-stop network for linked systems
- » Remote in/ link secure digital network via Neutrik 7pin XLR connector
- » Schneider safety relay with reset button on front panel
- » Switchable between pickle/or auto enable mode
- » Automatic phase correction
- » Automatic voltage check
- » LED GO button & channel direction
- » LED status/error check
- » Optional load cell alarm input link to E-stop
- » Works with any G-Pro remote handset but limited by max channels on handset/controller
- » CE certified



REAR FACE

GUARDIAN G-PRO HOIST CONTROLLER

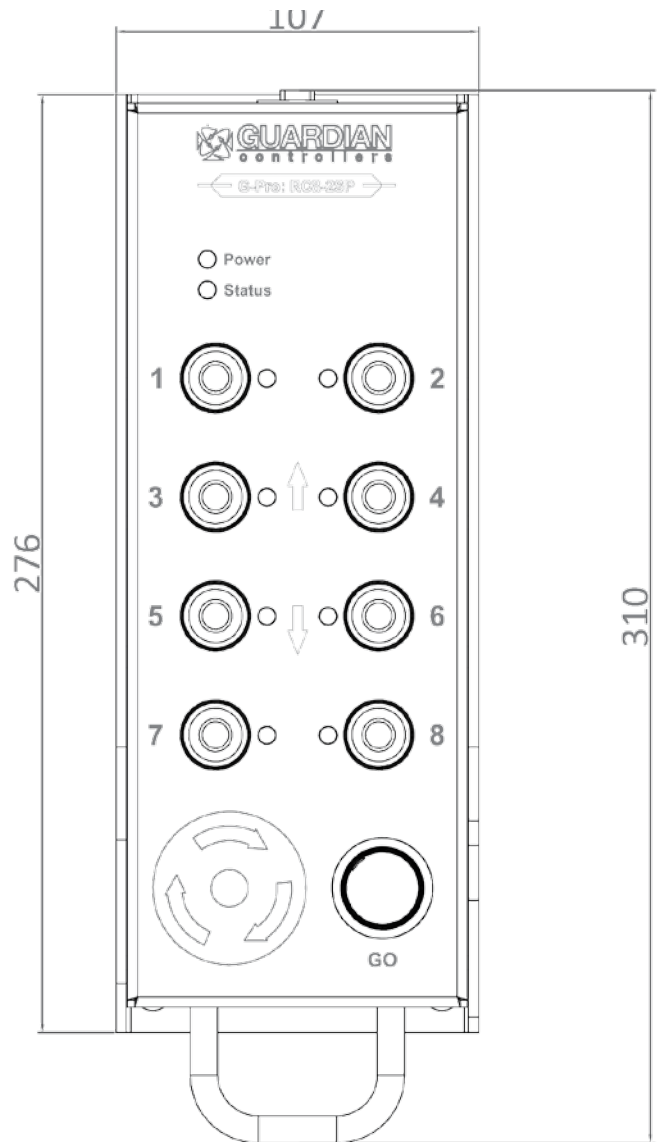


DIGITAL REMOTE HANDSET FOR G-PRO SERIES

- » Aluminium enclosure with guarded toggle switches
- » Neutrik 7pin XLR connector
- » Toggle switches with dust/ water resistant covers
- » LED GO button & channel direction
- » LED status/ error check
- » Acts as a master GO & E-stop in linked systems
- » Works with any G-Pro series controller but limited by max channels on handset/controller

OPTIONS

- » 24 channel handset to control 2 x 12 channel controllers
- » Full touring systems in flight cases



Typical Technical Drawing (Full Drawing Available on Request)



The Guardian Cable Sets are a robust and flexible product that enables the user to provide power and control where needed in a quick and easy manner without the need for electrical hard wiring. The cable sets come in a variety of lengths, with low voltage banded option, and a direct control option. The connectors are industrial grade Ceeform connectors, with a robust rubber sheaved cable to assist with the heavy uses these cables are often under in an entertainment environment.

FEATURES

- » Impact resistant cable avoiding unnecessary damage
- » Elastomer outer sheath and Insulation
- » Flexible cable for easy mounting and laying in required locations
- » Copper strand conductor for each core
- » Oil resistant and intermittant waterproofing properties
- » Black outer sheath finish, inside colour cores in line with standards
- » RoHS compliant
- » Ceeform casings and covers made from Nylon 6 for robustness and strength
- » -25°C to 55°C operating temperature
- » Additional options include black plugs/sockets (with red/yellow cover sockets) , Fully black plugs/Sockets, long length cables

OPTIONS

- » Longer length cables
- » Larger core size cables

OPTION



- » Black plugs/sockets (with colour identit cover)

OPTION



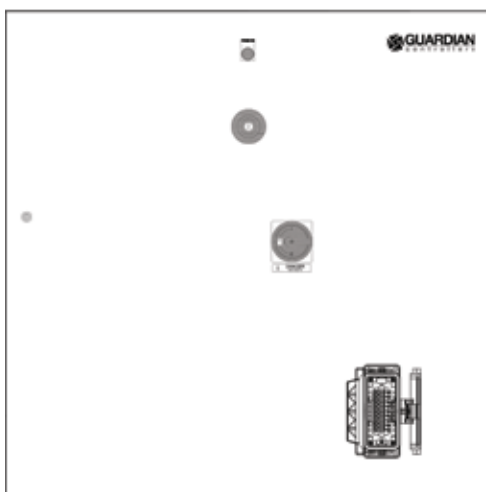
- » Full black plugs/sockets



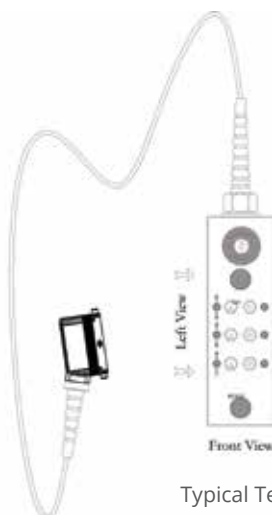
GUARDIAN CONTROLLER PRODUCT RANGE



**DESIGNED &
MANUFACTURED
IN GREAT BRITAIN**



FRONT ELEVATION



Typical Technical Drawing (Full Drawing Available on Request)

The Guardian controller range is a robust automation series of controllers, designed for installation environments. The controllers are constructed in an industrial enclosure, with easy termination points for hoist connections and a hand held pendant for easy operation.

The standard range starts at 2 channels up to 12 channels in both low voltage and direct control specifications, customised controllers are also manufactured.

With our expert team of control specialists, a variety of solutions can be tailored for chain hoists, winches, stage elevators and any other theatrical machinery element used in today's modern theatrical performance.

FEATURES

- » Highly robust enclosure protection class IP66
- » Pendant connection point on front of panel with robust ILME connector to avoid damage
- » Acrylic stove black finish
- » Wago push terminal connections for quick and easy termination of cables into main panel
- » Front mounted isolator and E-stop for easy access if required.
- » Quality and robust components from Schneider and Wago for a quality and long lasting control system
- » Schneider safety relay fitted as standard with SIL 3 capability
- » CE certified

OPTIONS:

- » Powdercoated enclosures (Additional costs may apply)
- » Additional control connection boxes (see separate datasheet)
- » Additional intermediate ceeform connection boxes (see separate datasheet)
- » Controller upgrade to include PLC control, with handheld touchscreen controller
- » Loadcell overload & underload monitoring (requires PLC upgrade module)
- » Absolute & incremental encoder positional monitoring option (Requires PLC upgrade module)
- » Additional E-stop station boxes (See separate datasheet)
- » Custom control systems (See separate section below)

GUARDIAN CONTROLLER PRODUCT RANGE

SPECIFICATIONS

Product code	Control specification type	Maximum terminal CSA	Max control voltage	Panel dimensions (WxHxD)	Maximum hoist control	Enclosure IP rating	Plug (control) specification	Input supply (A)	Enclosure finish
LOW VOLTAGE CONTROLLERS									
G2RLV3WMHW	Low Voltage	2.5mm ²	42V	400 x 500 x 200mm	2	IP66	ILME 27 PIN SQUICH CONNECTOR	16	RAL 7035 Stove finish
G4RLV3WMHW	Low Voltage	2.5mm ²	42V	500 x 500 x 200mm	4	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G6RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 600 x 200mm	6	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G8RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 800 x 200mm	8	IP66	ILME 27 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G10RLV3WMHW	Low Voltage	2.5mm ²	42V	600 x 800 x 200mm	10	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G12RLV3WMHW	Low Voltage	2.5mm ²	42V	800 x 800 x 200mm	12	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
DIRECT CONTROL CONTROLLERS									
G2RDC3WMHW	Direct Control	2.5mm ²	415V	400 x 500 x 200mm	2	IP66	ILME 27 PIN SQUICH CONNECTOR	16	RAL 7035 Stove finish
G4RDC3WMHW	Direct Control	2.5mm ²	415V	500 x 500 x 200mm	4	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G6RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 600 x 200mm	6	IP66	ILME 27 PIN SQUICH CONNECTOR	32	RAL 7035 Stove finish
G8RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 800 x 200mm	8	IP66	ILME 27 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G10RDC3WMHW	Direct Control	2.5mm ²	415V	600 x 800 x 200mm	10	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish
G12RDC3WMHW	Direct Control	2.5mm ²	415V	800 x 800 x 200mm	12	IP66	ILME 42 PIN SQUICH CONNECTOR	63	RAL 7035 Stove finish



GUARDIAN CONTROLLER PRODUCT RANGE



CUSTOM CONTROL SOLUTIONS

LTM produce a variety of customised Guardian Controllers, not only for chain hoists, but for motorised winches, stage elevators and a variety of other theatrical automation equipment. The controllers are designed and manufactured by our in house specialists and our experienced technical team are on hand to assist and understand the client requirements and provide a suitable recommendation. Our technical team have experience on high profile and consultant based construction projects to ensure the system will provide a high end and quality solution. Below are a series of pictures of some customised control designs, manufactured by our Guardian team.



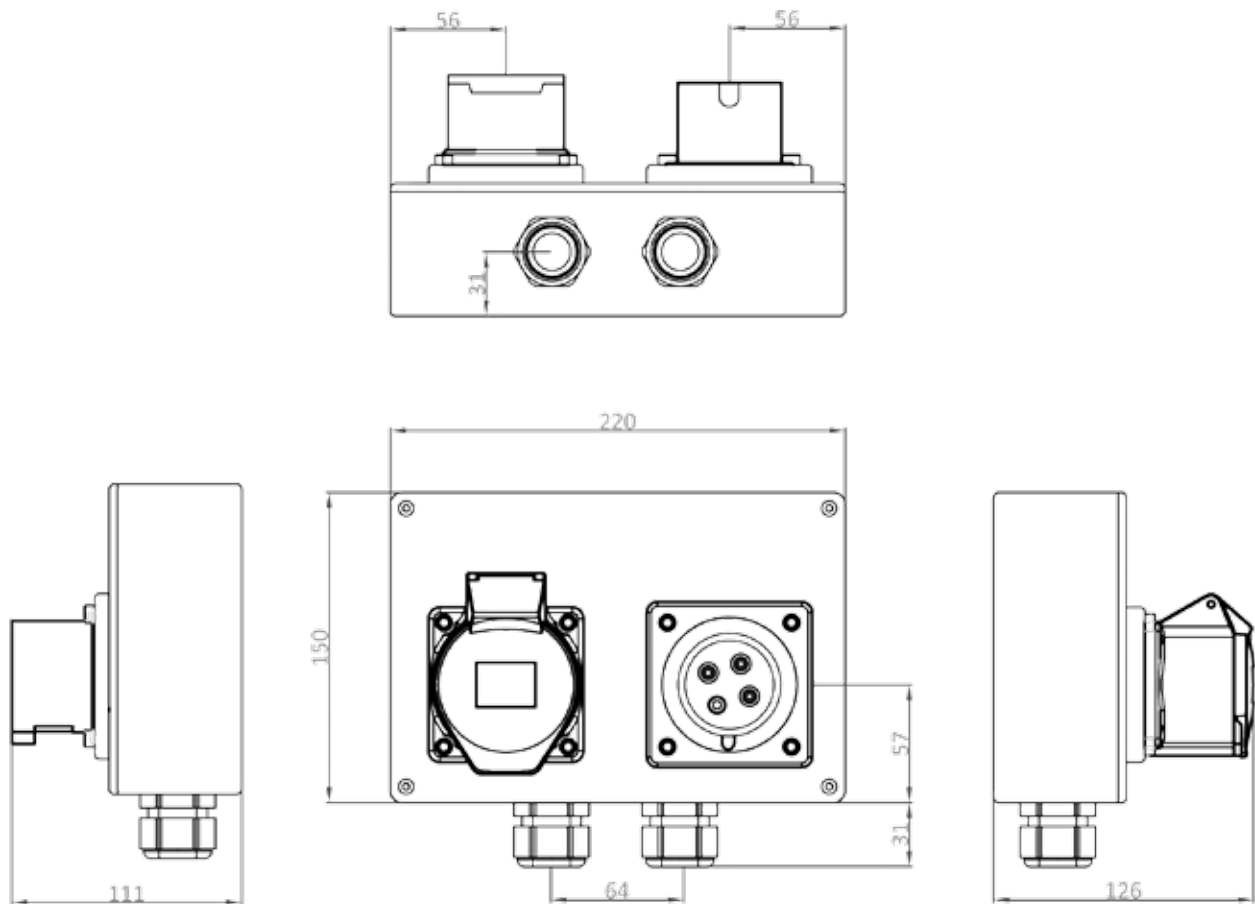
INTERMEDIATE CONNECTION BOX-CEEFORM



To compliment our Guardian Controllers, the intermediate connection box enable a local plug in point for chain hoists for installation applications. The control box comes in a robust enclosure with glands included for securing of cable into the box and din rail terminals for easy and quick connection to the ceeform connectors.

FEATURES

- » Highly robust enclosure protection class IP54
- » Panel sockets/plugs, protection class IP44
- » Finished in black
- » Screw terminal connections for easy termination
- » IP65 rated enclosure and socket/plugs option available
- » Other socket/plug combinations available on request



SPECIFICATION

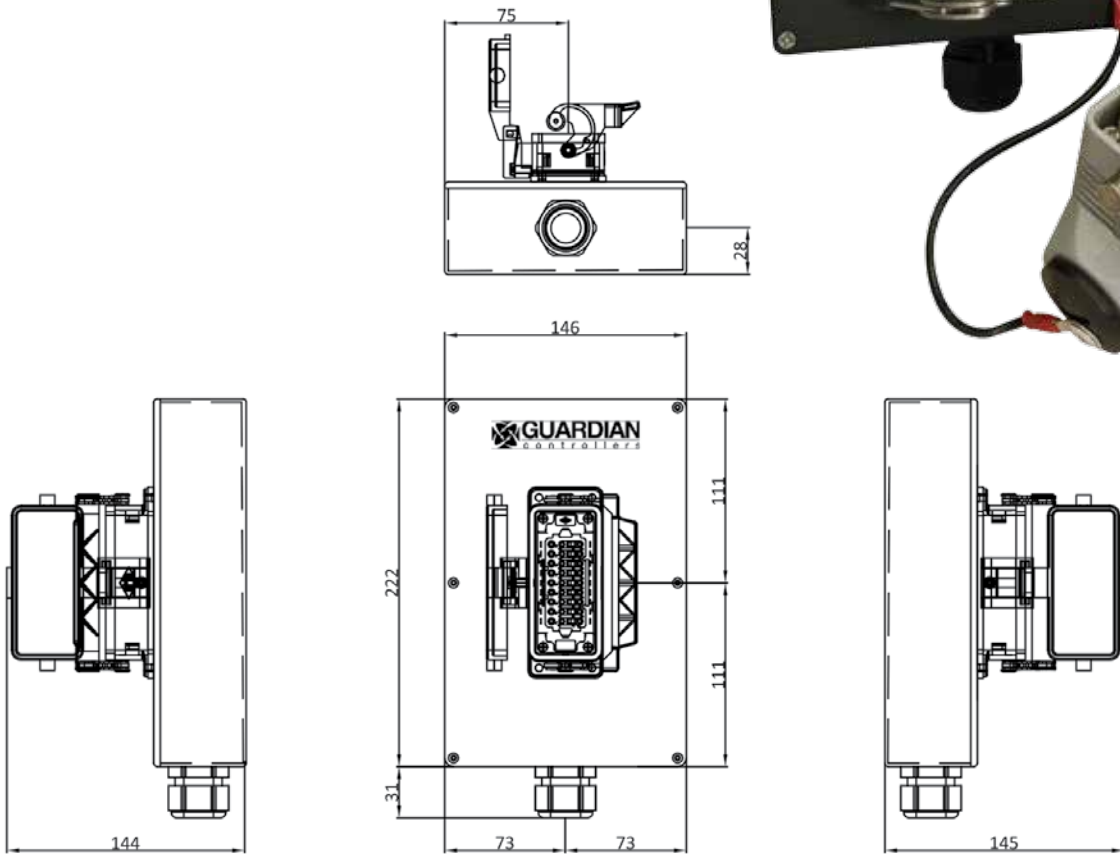
Product code	Chain hoist specification type	Maximum terminal CSA	Power	Maximum control voltage	Dimensions	Hoist control qty per enclosure	Enclosure rating	Plug (control) specification	Socket (power) specification	Weight (kg)
INTC/BOX-CF	LV	2.5mm ²	415V	110V	220 x 150 x 111mm	1	IP54	4 Pin Yellow Panel Mount Ceeform Plug	4 Pin Red Panel Mount Ceeform Socket	0.9

GUARDIAN CONTROL CONNECTION BOX

To complement our range of Guardian Controllers we offer a Control Box range. These wall mounted boxes provide a local control connection point for the operating handset, away from where the controller is mounted. This can be particularly useful if space is a premium on stage, or if the controller has to be located in an area that is not within sight of the motorised hoists being moved. The boxes are small and lightweight, with a robust ILME multipin connector for secure and stable connections that won't get damaged during normal use. We offer units with either 27 or 42 pins to suit various hoist numbers being operated.

FEATURES

- » Robust enclosure protection class IP67
- » ILME plug is IP65 rated
- » Robust acrylic stoved black finish
- » Push terminal connection type for quick and easy termination of cables



SPECIFICATIONS

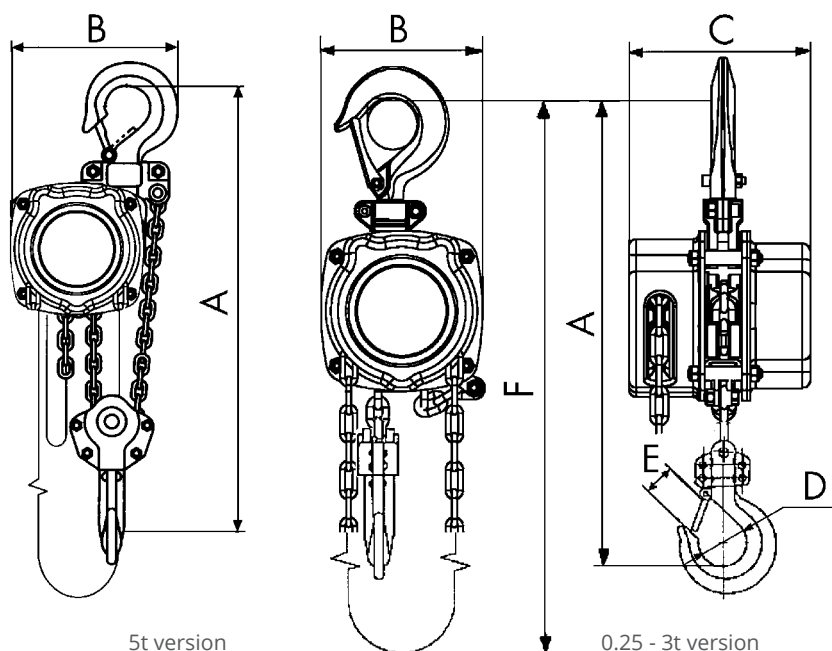
Product code	Control specification type	Maximum terminal CSA	Max control voltage	Dimensions	Maximum hoist control	Enclosure rating	Plug (control) specification	Socket rating	Enclosure finish	Weight (kg)
INT/BOX-27PIN	Low Voltage	2.5mm ²	42v	212 x 146 x 56mm	8	IP67	ILME 27 PIN SQUICH CONNECTOR	IP65	Black	0.9
INT/BOX-42PIN	Low Voltage	2.5mm ²	42v	212 x 146 x 56mm	12	IP67	ILME 42 PIN SQUICH CONNECTOR	IP65	Black	1.1

PLANETA – PREMIUM PRO MANUAL CHAIN HOIST

The PREMIUM PRO Hand Chain Block is fitted with galvanised load chain made in Germany according to DIN EN 818-7-T. Powder coated finish. Range is available from 0.5t to 5t

FEATURES

- » Compact design – light weight
- » Despite the weight saving, it has improved working stability thanks to the clever construction
- » The Premium Pro hand chain block comes with a premium powder coated housing for corrosion protection
- » Easily-accessible chain mounting
- » Grade 8 Load Chain used on all hoists except 10t – 3 chain falls which is grade 10. Chain conforms with DIN EN 818-7-T Standard (RUD supply)
- » Overload protection as standard
- » Hoist up to 3t on a single chain fall
- » Standard hoist with 3m lift, other heights on request



1t version

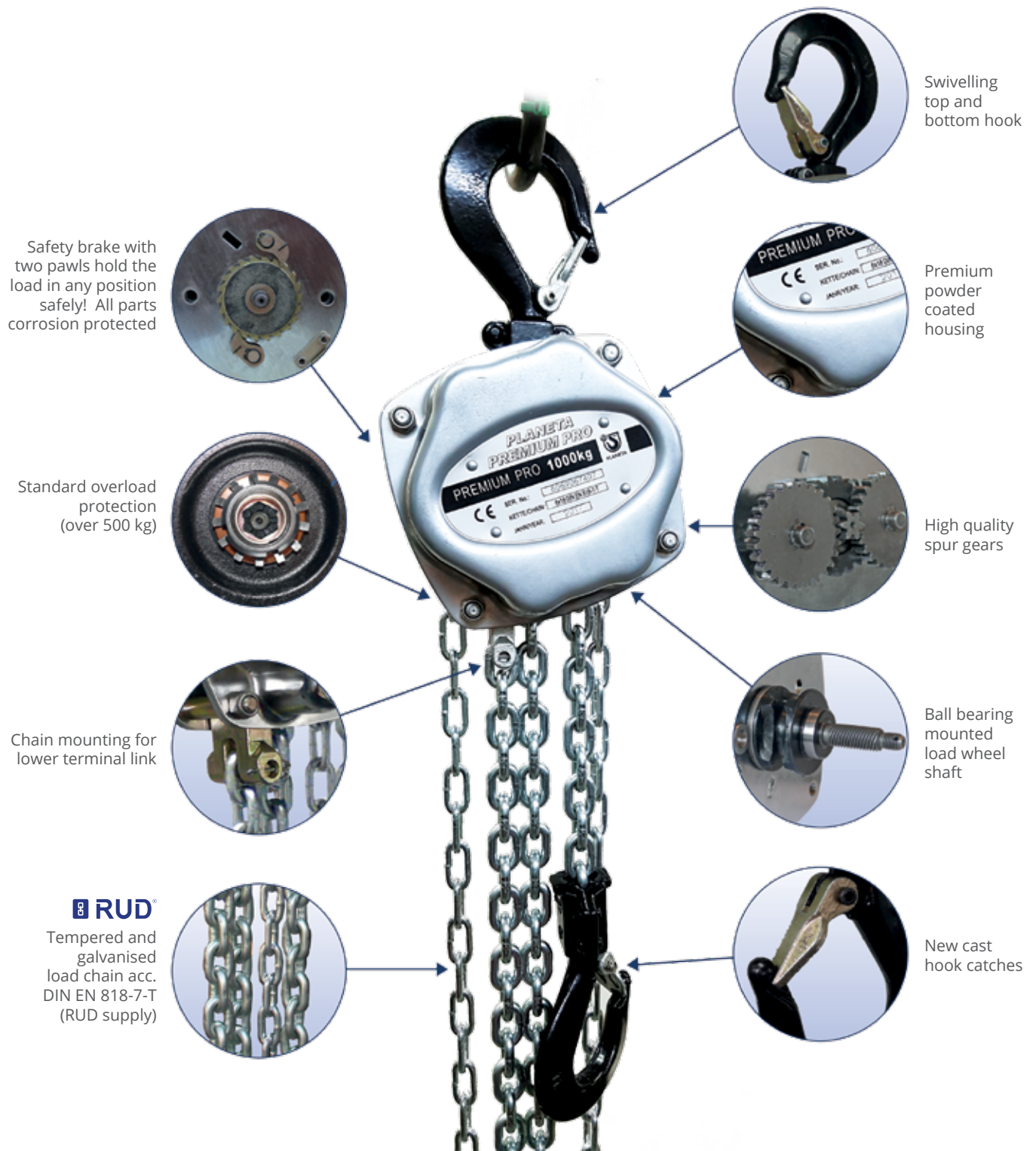


SPECIFICATION & DIMENSIONS

TYPE		PL/PLSPRO/050	PL/PLSPRO/010	PL/PLSPRO/020	PL/PLSPRO/030	PL/PLSPRO/500
Lifting capacity	t	0.5	1	2	3	5
Standard lift	m	3	3	3	3	3
Min. headroom (A)	mm	309	373	460	553	630
Effort on hand chain	daN	24	30.5	36	37	39
Hand chain operation length	m	2.5	2.5	2.5	2.5	2.5
Number of chain falls		1	1	1	1	2
Load chain size	mm	5 x 15	6 x 18	8 x 24	10 x 30	10 x 30
B	mm	114	152	190	240	240
C	mm	110	139	150	158	158
D	mm	33	40	52	62	72
E	mm	22	28	33	37	44
F	m	2.5	2.5	2.5	2.5	2.5
Weight with 3 m lift	kg	5.7	10.8	17.1	26.2	40
Weight for 1 m additional lift	kg	0.55	0.78	1.4	2.2	4.4

PLANETA – PREMIUM PRO MANUAL CHAIN HOIST

SAFETY FEATURES AND ADVANTAGES



PLANETA – PREMIUM PRO RATCHET LEVER HOIST

The PREMIUM PRO Lever Hoist is fitted with galvanised load chain according to DIN EN 818-7-T

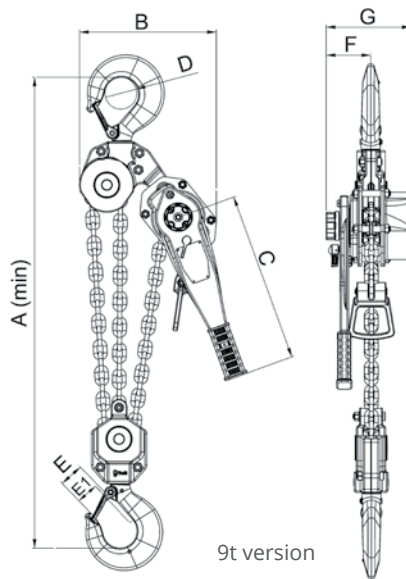
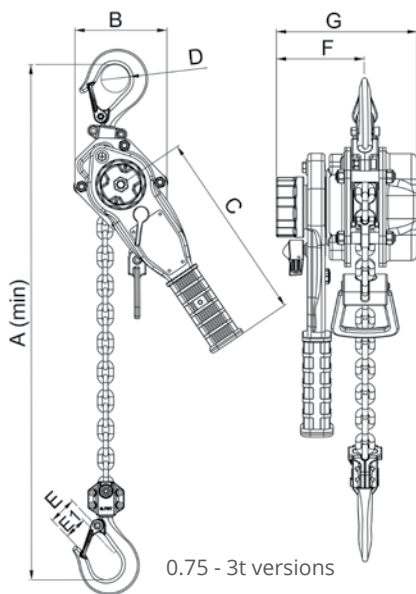
Range is available from 0.75t to 9t

BENEFITS

- » Robust design, proven quality ensuring longevity
- » Significant weight saving
- » Operating lever can be used in any position thanks to the ratchet
- » **Up to 3.0t capacity on single chain fall**

FEATURES

- » Galvanised load chain according to DIN EN 818-7-T is used on all hoists, the standard lifting height is 1.5 m; any length required for higher lifting is possible
- » Free-running mode allows the unladen chain to be easily pulled through the device to the required position when the operating switch is moved to the centre point
- » New chain end stop provides additional safety, this cannot be pulled through the hoist
- » The ergonomic rubber handle protects the user against injury and is screwed in place to prevent slippage
- » Safety automatic mechanical brake; galvanised connecting parts; cast hook; catch, large non-slip and closed hand wheel; safety chain end piece
- » Chain conforms with DIN EN 818-7-T standard (RUD supply)



RUD®

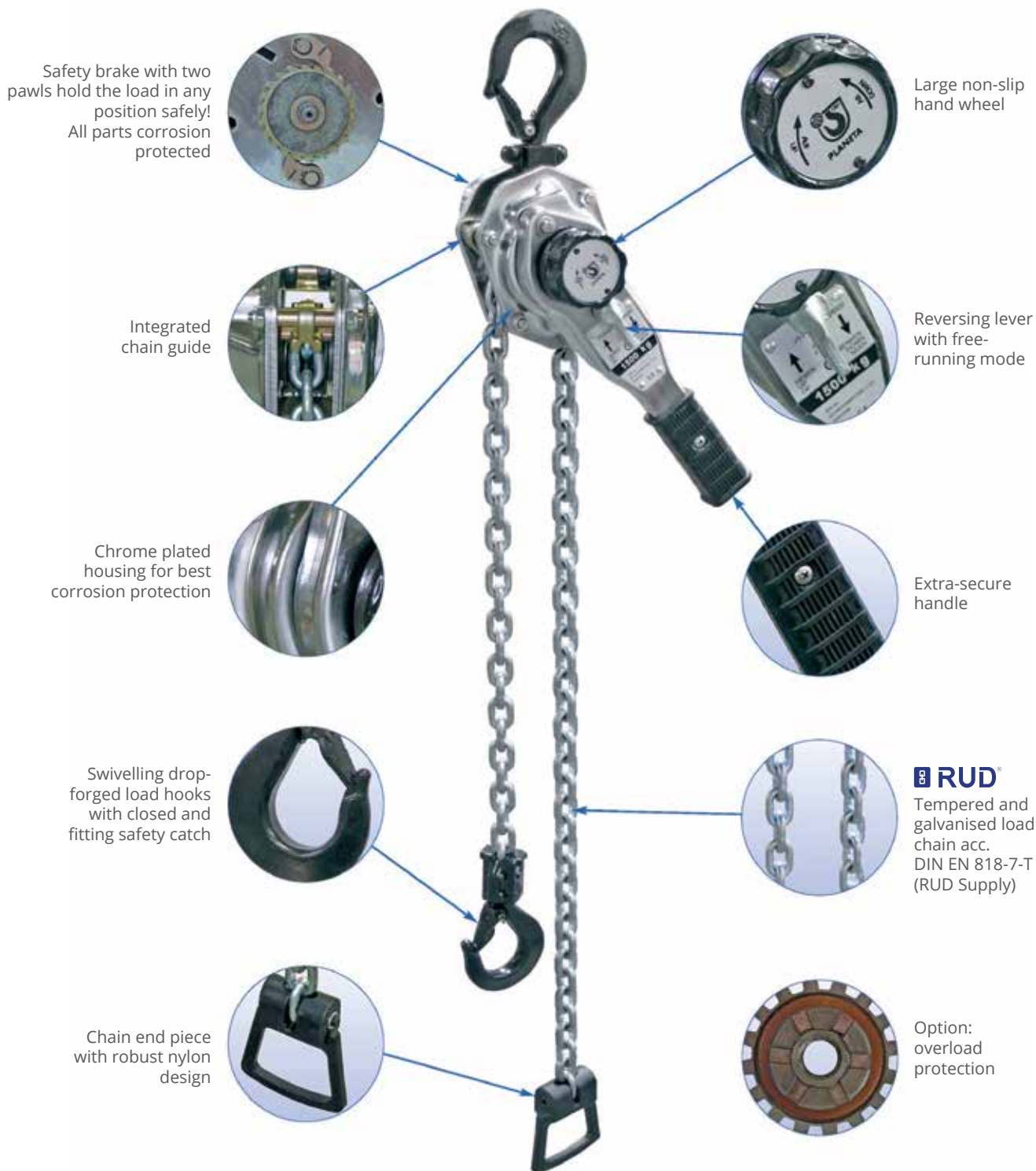
1.5t version

SPECIFICATION & DIMENSIONS

TYPE		PL/PLH/075	PL/PLH/150	PL/PLH/300	PL/PLH/600	PL/PLH/900
Capacity	t	0.75	1.5	3.0	6.0	9.0
Standard lift	m	1.5	1.5	1.5	1.5	1.5
Min. headroom (A)	mm	320	360	431	500	635
Effort on lever	daN	22	24	33	36	38
Number of chain falls		1	1	1	2	3
Chain size	mm	5.6 x 17	7.1 x 21	9 x 27	9 x 27	9 x 27
B	mm	115	137	169	238	300
C	mm	239	259	374	374	374
D	mm	35	42	48	60	70
E	mm	35	38	46	59	54
E1	mm	23	28.5	33	39	51
F	mm	91	67	98	98	98
G	mm	146	162	187	187	187
Weight with 1.5m chain	kg	5.3	8.6	15.2	23	43
Weight for 1m additional lifting height	kg	0.7	1.1	1.8	3.6	5.4

PLANETA – PREMIUM PRO RATCHET LEVER HOIST

SAFETY FEATURES AND ADVANTAGES



PLANETA LOW HEADROOM TROLLEY HOIST

The PLS PREMIUM Hand Chain Block and L87 trolley are combined in an integrated combination to save headroom, this is a perfect solution if space is tight.

Available from 0.5t to 20t lifting capacity

ADVANTAGES OF TROLLEY HOIST

- » The close combination of hoist and trolley with low headroom offers a unit that is both functional and versatile.
- » Optimal space utilisation
- » Combined power

LOW HEADROOM TROLLEY HOIST TYPE LHT

FEATURES

- » Smooth trolley operation on ball bearing wheels plus surface protection offers the user outstanding reliability
- » Standard overload protection

STANDARD VERSION

- » PREMIUM chain hoist with 3 m lift and 2.5 m hand chain operation length, other lengths available
- » Available as manual push trolley (TYPE-H) or geared trolley (TYPE-G)
- » Contoured trolley wheel design provides maximum beam contact on flat or tapered beams
- » Tilting and climbing protection according to CE-regulations
- » High tensile and galvanised load chain to DIN EN 818-7-T (RUD supply)

OPTIONS

- » Chain bag for hanging loose chain that may cause problems
- » Completely zinc plated surfaces, for corrosive environments
- » Special protection with bronze parts and galvanisation
- » Trolley parking brake

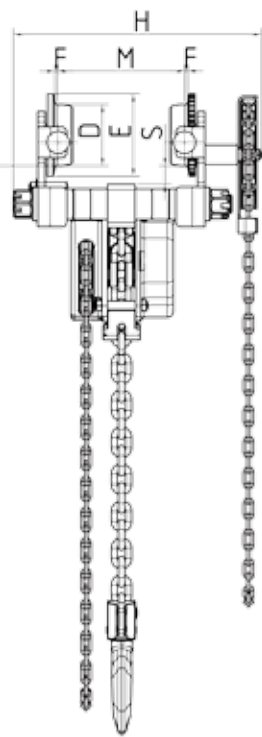
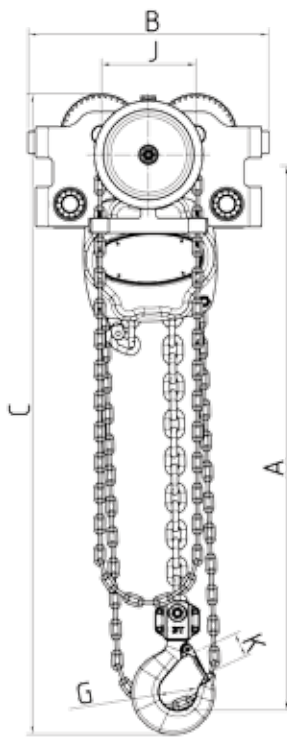
SPECIFICATIONS

Lifting capacity	t	0.5	1	1.5	2	3	5	7.5	10	15	20
Standard lift	m	3	3	3	3	3	3	3	3	3	3
Number of chain falls		1	1	1	1	1	2	3	4	6	8
Load chain size	mm	5 x 15	6.3 x 19	8 x 24	8 x 24	10 x 28	9 x 27	9 x 27	9 x 27	9 x 27	9 x 27
Min. headroom (A)	mm	299	331	424	424	486	636	760	780	930	965
Beam flange width	min. - max. mm	50 - 152	64 - 203	88 - 203	88 - 203	100 - 203	114 - 203	124 - 203	124 - 203	136 - 203	136 - 203
Larger flange width	min. - max. mm	50 - 203	64 - 305	88 - 305	88 - 305	100 - 305	114 - 305	124 - 305	124 - 305	136 - 305	136 - 305
Min. curve radius	m	0.85	1	1.1	1.1	1.3	1.4	2	2	3.5	3.5
Dimension H min. LHT-H	mm	236	303	317	317	333	355	372	378	449	449
Dimension H min. LHT-G	mm	272	334	343	343	356	373	416	423	498	498
B	mm	258	292	358	358	434	448	628	636	757	891
C	mm	385	451	551	551	633	808	965	990	1130	1165
F	mm	3	3	3	3	3	3	3	3	3	3
S	mm	30	37	38	38	40	42	45	45	56	58
Z	mm	7.5	10.5	12	12	14	15	16	17	20	25
Weight with 3 m lift LHT-H	kg	15	24	46	46	61	86	130	147	278	331
Weight with 3 m lift LHT-G	kg	19	28	44	44	65	91	135	153	286	353

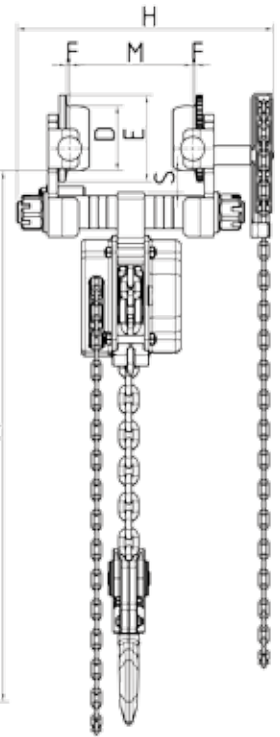
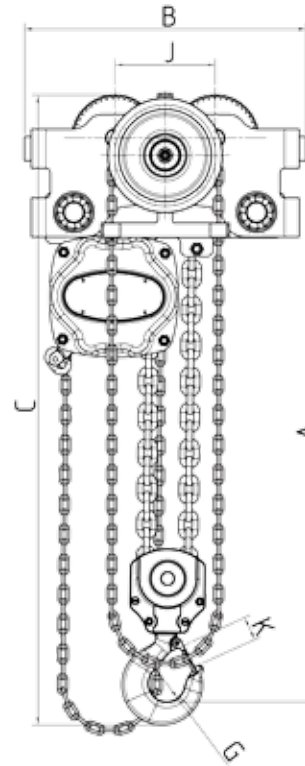
*Chain bag (plastic) up to 3m lift



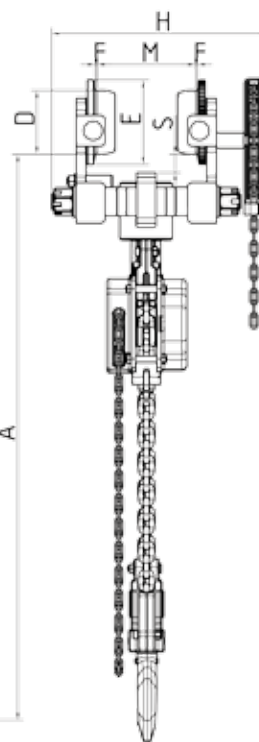
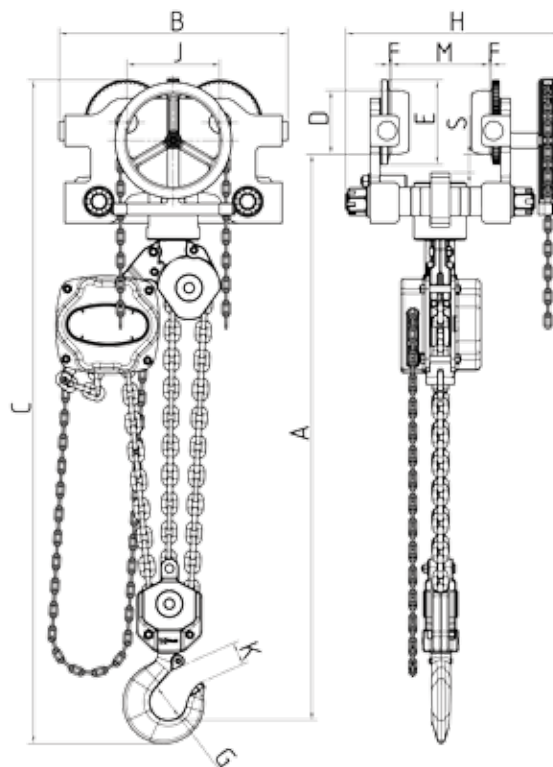
PLANETA LOW HEADROOM TROLLEY HOIST



0.5 - 3t MODEL



0.5 - 3t MODEL



10t MODEL

PLANETA BEAM CLAMP - TYPE BK

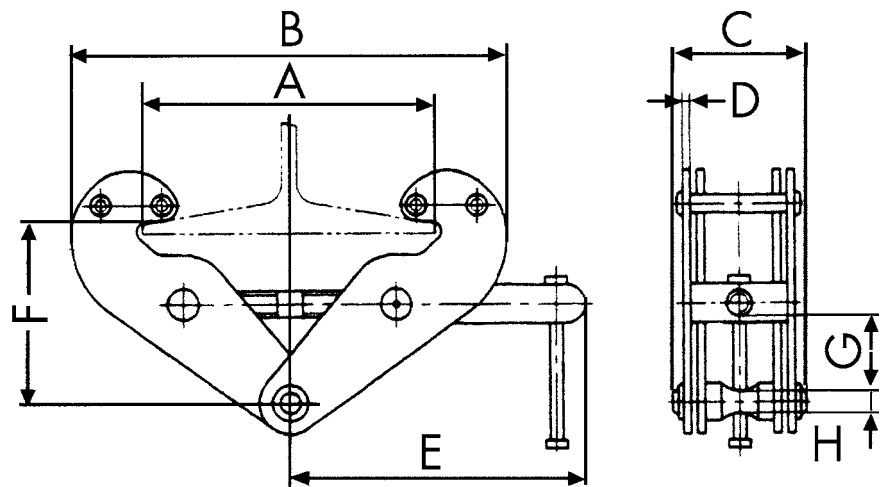


The frame of the Beam Clamp is made from solid steel plate and the spindle from high tensile galvanized steel that normally forgives strong tightening.

Range is available from 1t to 10t

FEATURES

- » Simple and safe load attachment tool for hand or electric hoists
- » Easy two-step operation makes it ideal for urgent tasks and assembly jobs
- » Can also be used for the lifting and transfer of steel beams and as a pulling clamp
- » Suitable for attachment to horizontal beams or beams up to 5 degrees from horizontal
- » Fits a wide range of beam widths
- » Easily fixed using threaded handle



BEAM CLAMP - SPECIFICATION & DIMENSIONS

TYPE	PL/BK	PL/BK/1.0T	PL/BK/2.0T	PL/BK/3.0T	PL/BK/5.0T	PL/BK/10.0T
Capacity	t	1.0	2.0	3.0	5.0	10.0
Grip range A min.	mm	75	75	80	90	90
Grip range A max.	mm	230	230	320	320	320
B min.	mm	180	180	220	220	250
B max.	mm	375	375	498	498	514
C	mm	80	90	117	127	139
D	mm	5	5	8	10	16
E	mm	220	220	271	271	280
F min.	mm	102	102	168	168	172
F max.	mm	160	160	240	240	242
G min.	mm	29	28	60	57	55
H	mm	20	22	24	30	40
Weight	kg	4	5	9	11	18

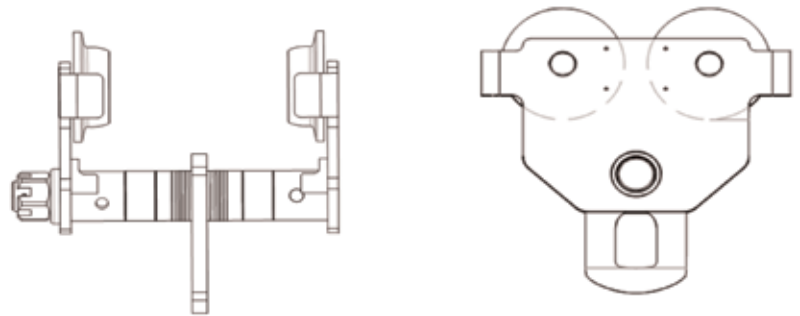
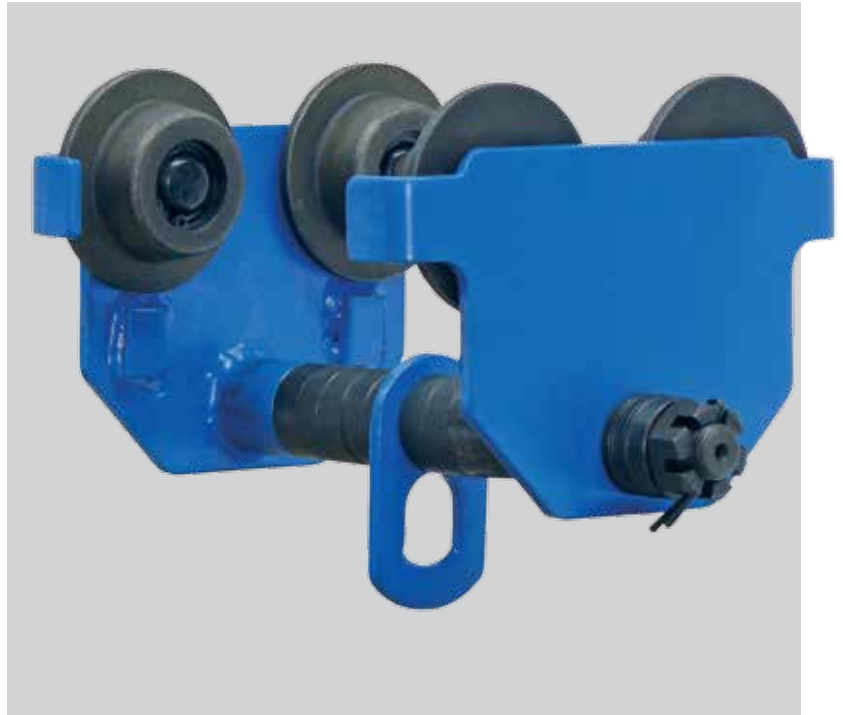
PLANETA PUSH TRAVEL BEAM TROLLEY

The PTM push travel beam trolley is suited for the use of chain hoists and other lifting equipment when the requirement is for these items to be moved to a variety of locations. This enables venues and performance spaces to be multifunctional, as it often required with the technical requirements of performances in the modern age.

The trolley comes in a variety of capacities, from 0.5t to 10t, and is capable of being adjusted to fit beam sizes from 50mm to 203mm (minimum depth changes depending on capacity).

FEATURES

- » Central load suspension system to evenly distribute the load between the four wheels
- » Contour trolley wheel design, providing capability to work on flat and tapered universal beams with maximum contact onto surface
- » Robust cast iron wheels, with lubricated sealed ball bearings for quiet and safe operation
- » Large forged steel side plates, fabricated to enhance tilting protection
- » Trolley design ensures the system will fit onto a variety of beams, by changing the spacers on the central spindle to increase and decrease the width



Typical drawing (full PDF general arrangement drawing available on request)

SPECIFICATIONS

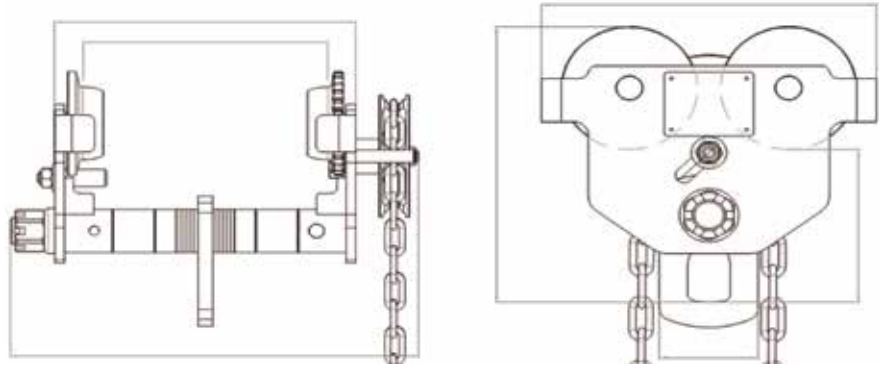
Product code	Weight (kg)	Minimum beam radius curve (m)	Beam flange width range (mm)	External dimensions	Minimum bow shackle size fit	Minimum chain hoist hook size fit	Safe working load (at FOS 4:1)	Safe working load (at FOS 8:1)	Colour finish
PL/PTM/0.5T	7	0.8	50-203	199mm x 246mm x 177mm	2.0t Shackle	LPM250	0.5t	0.25t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/1.0T	10.5	0.9	64-203	288mm x 236mm x 237mm	2.0t Shackle	LPM250	1.0t	0.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/2.0T	17.5	1	88-203	300mm x 276mm x 283mm	2.0t Shackle	LP500	2.0t	1.0t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/3.0T	27	1.2	100-203	321mm x 326mm x 329mm	3.25t Shackle	LP500	3.0t	1.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/5.0T	41	1.3	114-203	328mm x 380mm x 385mm	6.5t Shackle	LG20	5.0t	2.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/10.0T	48	1.7	124-203	455mm x 568mm x 533mm	12.0t Shackle	None	10.0t	5.0t	RAL 5005 side plates & hook plates spindle zinc plated

PLANETA GEARED TRAVEL UNIVERSAL BEAM TROLLEY

The GTM Geared travel universal beam trolley is suited for the use of chain hoists and other items of lifting equipment, when the requirement is for these items to be moved to a variety of locations. This enables venues and performance spaces to be multifunctional, as it often required with the technical requirements of performances in the modern age. The GTM version of the trolley includes an operating chain to assist with the movement of the trolley along the beam. The trolley comes in a variety of capacities, from 0.5t to 10t, and is capable or being adjusted to beam sizes from 50mm to 203mm (minimum depth changes depending on capacity)

FEATURES

- » Central load suspension system to evenly distribute the load between the four wheels
- » Contour trolley wheel design, providing capability to work on flat and tapered beams with maximum contact onto surface
- » Robust cast iron wheels, with lubricated sealed ball bearings for quiet and safe operation
- » Large forged steel side plates, fabricated to enhance tilting protection
- » Trolley design ensures the system will fit onto a variety of beams, by changing the spacers on the central spindle to increase and decrease the width
- » Custom operable chain lengths available on request



SPECIFICATIONS

Product code	Weight (kg)	Minimum beam radius curve (m)	Beam flange width range (mm)	Standard operating chain length (m)	External dimensions	Minimum bow shackle size fit	Minimum chain hoist hook size fit	Safe working load (at FOS 4:1)	Safe working load (at FOS 8:1)	Colour finish
PL/GTM/0.5T	14.5	0.8	50-203	2.5	280mm x 198mm x 193mm	2.0t Shackle	LPM250	0.5t	0.25t	RAL 5005 side plates & hook plates spindle zinc plated
PL/GTM/1.0T	14.5	0.9	64-203	2.5	339mm x 236mm x 235mm	2.0t Shackle	LPM250	1.0t	0.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/GTM/2.0T	21.5	1	88-203	2.5	350mm x 276mm x 283mm	2.0t Shackle	LP500	2.0t	1.0t	RAL 5005 side plates & hook plates spindle zinc plated
PL/GTM/3.0T	31	1.2	100-203	2.5	370mm x 326mm x 329mm	3.25t Shackle	LP500	3.0t	1.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/GTM/5.0T	46	1.3	114-203	2.5	377mm x 380mm x 385mm	6.5t Shackle	LG20	5.0t	2.5t	RAL 5005 side plates & hook plates spindle zinc plated

PLANETA PUSH TRAVEL UNIVERSAL BEAM TROLLEY WITH LOCKING DEVICE

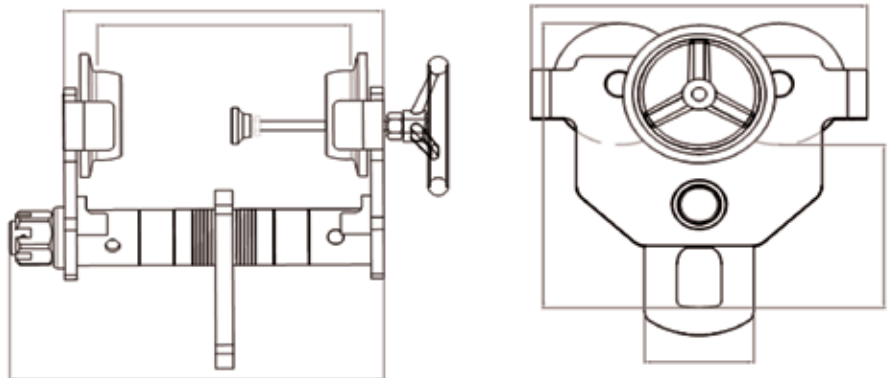
The PTM Push Travel Universal Beam Trolley is suited for the use of chain hoist and other items of lifting equipment, when the requirement is for these items to be moved to a variety of locations. This enables venues and performance spaces to be multifunctional, as it often required with the technical requirements of performances in the modern age.

This trolley type comes with an additional manual locking device, which will stop horizontal movement once in place. The locking device comes with a handwheel for ease of turning and robust foot to connect to the universal beam.

The trolley comes in a variety of capacities, from 0.5t to 10t, and is capable of being adjusted to fit beam sizes from 50mm to 203mm (minimum depth changes depending on capacity).

FEATURES

- » Central load suspension system to evenly distribute the load between the four wheels
- » Contour trolley wheel design, providing capability to work on flat and tapered beams, with maximum contact onto surface
- » Robust cast iron wheels, with lubricated sealed ball bearings for quiet and safe operation
- » Large forged steel side plates, fabricated to enhance tilting protection
- » Trolley design ensures the system will fit onto a variety of beams, by changing the spacers on the central spindle to increase and decrease the width
- » Easy to use locking system, with handwheel and locking foot, to enable trolley to be locked in a horizontal position



SPECIFICATIONS

Product Code	Weight (kg)	Minimum beam radius curve (m)	Beam flange width range (mm)	External dimensions	Minimum bow shackle size fit	Minimum chain hoist hook size fit	Safe working load (at FOS 4:1)	Safe working load (at FOS 8:1)	Colour finish
PL/PTM/0.5T-LD	7.45	0.8	50-203	280mm x 198mm x 193mm	2.0t Shackle	LPM250	0.5t	0.25t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/1.0T-LD	10.95	0.9	64-203	288mm x 236mm x 237mm	2.0t Shackle	LPM250	1.0t	0.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/2.0T-LD	17.95	1	88-203	300mm x 276mm x 283mm	2.0t Shackle	LP500	2.0t	1.0t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/3.0T-LD	27.45	1.2	100-203	321mm x 326mm x 329mm	3.25t Shackle	LP500	3.0t	1.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/5.0T-LD	41.45	1.3	114-203	328mm x 380mm x 385mm	6.5t Shackle	LG20	5.0t	2.5t	RAL 5005 side plates & hook plates spindle zinc plated
PL/PTM/10.0T-LD	48.45	1.7	124-203	455mm x 568mm x 533mm	12.0t Shackle	None	1.0t	5.0t	RAL 5005 side plates & hook plates spindle zinc plated

ELECTRIC PILE WIND WINCHES

The Pilewind Winch is a staple of theatres and performance venues around the world. A multipurpose winch unit designed to provide a basic electric hoisting system for use with suspension bars and trussing applications, these units are a good solution for educational establishments, places of worship, studio spaces and smaller theatrical venues.

- » Standard lifting capacity 250, 500 or 1000kg
- » Winch with 3-6 lines per hoist
- » Power 400V, 3 Ph, 50 Hz
- » Self- sustaining gearbox
- » Single or double brake with manual lever release
- » Standard winch travel 12m
- » End of travel and ultimate limits as standard
- » CE certified

OPTIONS

- » Local control panel mounted on winch
- » Encoders
- » Wire rope pulleys (see separate datasheet for options)
- » Wire ropes can be provided on request

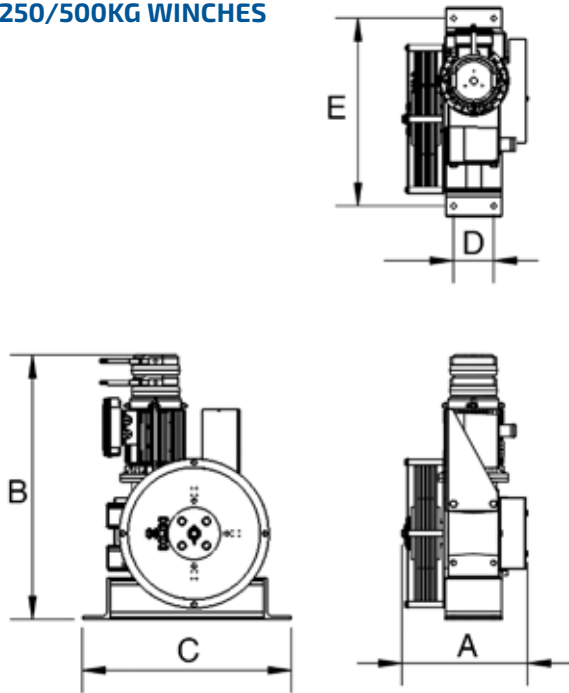


SPECIFICATION

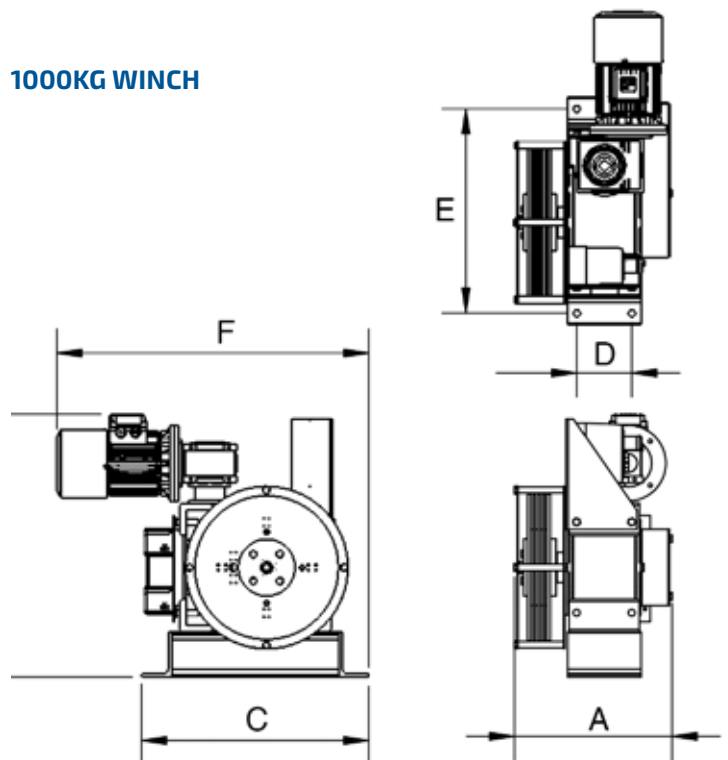
Winch type	Lifting capacity (kg)	No of ropes	Rope Dia (mm)	Speed (m/sec)	Motor power (kW)	Weight of winch (kg)
WIN-250-3	250	3	5	0.15-0.3	1.1	145
WIN-250-4	250	4	5	0.15-0.3	1.1	152
WIN-250-5	250	5	5	0.15-0.3	1.1	159
WIN-250-6	250	6	5	0.15-0.3	1.1	166
WIN-500-3	500	3	6	0.15-0.3	2.2	170
WIN-500-4	500	4	6	0.15-0.3	2.2	177
WIN-500-5	500	5	6	0.15-0.3	2.2	184
WIN-500-6	500	6	6	0.15-0.3	2.2	191
WIN-1000-3	1000	3	6	0.04-0.07	1.5	197
WIN-1000-4	1000	4	6	0.04-0.07	1.5	204
WIN-1000-5	1000	5	6	0.04-0.07	1.5	213
WIN-1000-6	1000	6	6	0.04-0.07	1.5	220

ELECTRIC PILE WIND WINCHES

250/500KG WINCHES



1000KG WINCH



DIMENSIONS (mm)

Winch type	Lifting capacity (kg)	No of ropes	A (mm)	B-single brake (mm)	B-double brake (mm)	C (mm)	D (mm)	E (mm)	F-single brake (mm)	F-double brake (mm)
WIN-250-3	250	3	348	718	760	600	115	540	n/a	n/a
WIN-250-4	250	4	360	718	760	600	115	540	n/a	n/a
WIN-250-5	250	5	373	718	760	600	115	540	n/a	n/a
WIN-250-6	250	6	385	718	760	600	115	540	n/a	n/a
WIN-500-3	500	3	376	825	845	600	120	540	n/a	n/a
WIN-500-4	500	4	389	825	845	600	120	540	n/a	n/a
WIN-500-5	500	5	402	825	845	600	120	540	n/a	n/a
WIN-500-6	500	6	414	825	845	600	120	540	n/a	n/a
WIN-1000-3	1000	3	404	695	725	600	145	540	824	868
WIN-1000-4	1000	4	417	695	725	600	145	540	824	868
WIN-1000-5	1000	5	429	695	725	600	145	540	824	868
WIN-1000-6	1000	6	442	695	725	600	145	540	824	868

MANUAL PILE WIND WINCHES

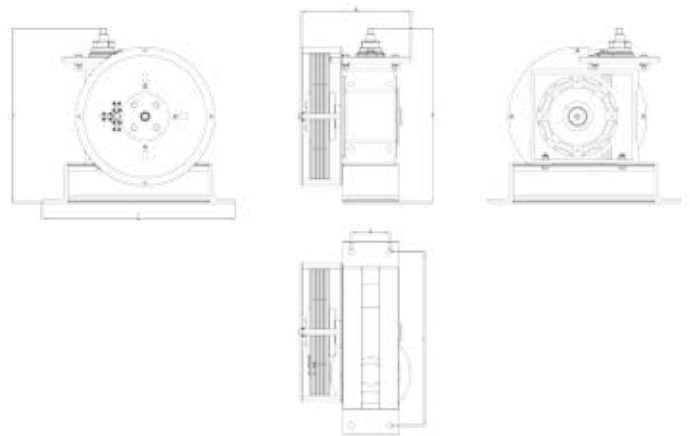


The Manual Pile wind winch is an option to provide a budget option whilst providing mechanical lifting capability. This manual winch can be operated by either a crank handle or a powered drill, and is ideally suited to educational establishment, and smaller theatrical venues.

- » Standard lifting capacity 250, 500 or 1000kg
- » Winches with 3-6 lines
- » Fitted with DKK Safety Crank
- » Self- sustaining gearbox
- » 17mm hex Input drive
- » Standard winch travel 12m

OPTIONS

- » Crank handle supply
- » Wire rope pulleys (see separate datasheet for options)
- » Wire ropes can be provided on request



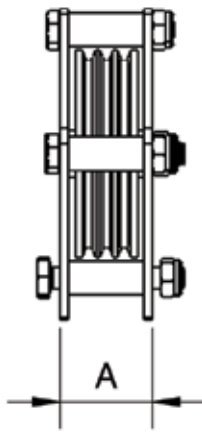
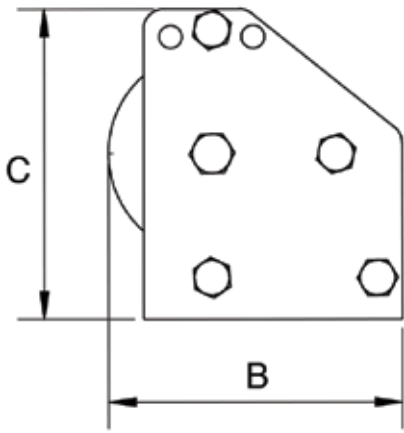
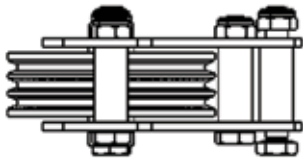
SPECIFICATION

Winch type	Lifting capacity (kg)	No of ropes	Rope Dia (mm)	Weight of winch (kg)
WIN-250-3-M-K	250	3	5	145
WIN-250-4-M-K	250	4	5	152
WIN-250-5-M-K	250	5	5	159
WIN-250-6-M-K	250	6	5	166
WIN-500-3-M-K	500	3	6	170
WIN-500-4-M-K	500	4	6	177
WIN-500-5-M-K	500	5	6	184
WIN-500-6-M-K	500	6	6	191

DIMENSIONS (mm)

Winch type	Lifting capacity (kg)	No of ropes	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Shaft input size (mm)
WIN-250-3-M-K	250	3	327	542	600	115	540	17
WIN-250-4-M-K	250	4	340	542	600	115	540	17
WIN-250-5-M-K	250	5	353	542	600	115	540	17
WIN-250-6-M-K	250	6	366	542	600	115	540	17
WIN-500-3-M-K	500	3	327	542	600	120	540	17
WIN-500-4-M-K	500	4	340	542	600	120	540	17
WIN-500-5-M-K	500	5	353	542	600	120	540	17
WIN-500-6-M-K	500	6	366	542	600	120	540	17

PULLEYS FOR PILE WIND WINCHES



- » Standard pulley range for 1-6 ropes
- » Designed for machinery systems in theatres, schools etc
- » Suitable for manual or motorised systems
- » Smooth operation assured by two ball bearings
- » Pulley wheels in black polyamide material with steel frame
- » Lifting capacity 125 and 250kg
- » Pulleys available on request for lifting capacity 500kg and 1000kg
- » Standard & custom mounting brackets available

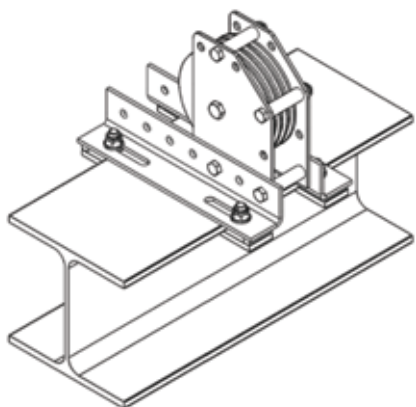
SPECIFICATION & DIMENSIONS

Type	No of lines	Rated lifting capacity	max Steel wire rope diameter	A	B	C	Weight
		(kg)	(mm)	(mm)	(mm)	(mm)	(kg)
PU-100-1	1	125	4	36	142	150	1.8
PU-100-2	2	125	4	36	142	150	1.8
PU-100-3	3	125	4	44.5	142	150	1.8
PU-100-4	4	125	4	53	142	150	2.0
PU-100-5	5	125	4	61.5	142	150	2.0
PU-100-6	6	125	4	70	142	150	2.0
PU-150-1	1	250	6	36	167	200	2.3
PU-150-2	2	250	6	42	167	200	2.3
PU-150-3	3	250	6	54	167	200	2.7
PU-150-4	4	250	6	66	167	200	2.7
PU-150-5	5	250	6	78	167	200	3.1
PU-150-6	6	250	6	90	167	200	3.1

PULLEY FIXINGS

PULLEY ADAPTORS FOR PU-100 AND PU-150.

Pair of universal brackets designed for pulley fixing on steel girder - flange width 41-207mm. No requirement to drill a beam. Position of the pulley can be adjusted and fixed securely with set of PUFNUT-0 or PUFNUT-1_6. Several standard or custom solutions available.

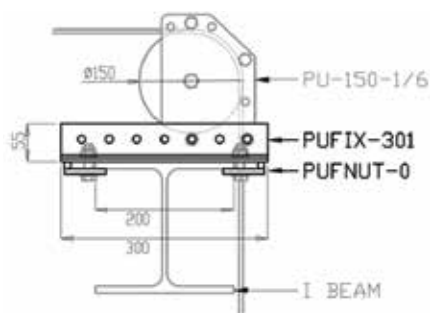


PUFIX-201

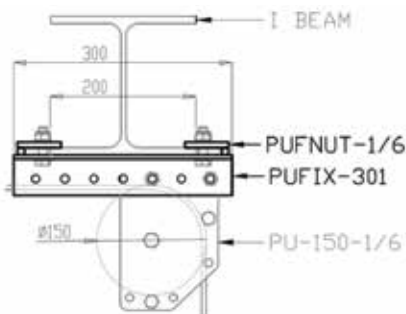


PUFIX-301

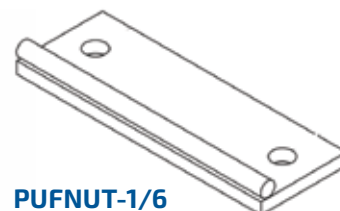
Fixing type	Safe working load	Minimum beam flange distance	Maximum beam flange distance	Length
PUFIX-201	250kg	41mm	106mm	200mm
PUFIX-301	250kg	100mm	207mm	300mm



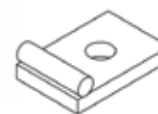
PULLEY FIXING ABOVE THE BEAM



PULLEY FIXING BELOW THE BEAM

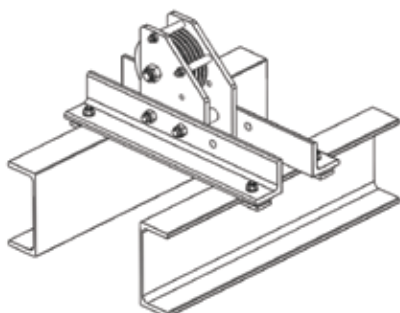


PUFNUT-1/6



PUFNUT-0

Fixing type	Safe working load	Pulley width (must specify at time of order)	Overall width	Pulley position
PUNUT-0 (set of 4)	250kg	N/A	40mm	Pulley Above Beam Only
PUNUT-1/6 (set of 2)	250kg	101-155mm	146-200mm	Pulley Above or below



CUSTOM ADAPTORS.

Heavy duty 500kg and 1000kg custom fixing brackets available on request for head pulleys PU-150-500 and PU-150-1000.

GISKB CRANE & MONORAIL SYSTEMS - OVERVIEW



**SINGLE BRIDGE
SUSPENDED CRANE**



**DOUBLE BRIDGE
SUSPENDED CRANE**



MONORAIL

SINGLE BRIDGE SUSPENDED CRANE

- » All-round load transportation up to 1250 kg (optional 2000 kg)
- » For normal headroom

DOUBLE BRIDGE SUSPENDED CRANE

- » All-round load transportation, up to 1250 kg (optional 2000 kg)
- » For lower headroom

MONORAIL WITH OPTIONAL BENDS, SWITCHES AND TURNTABLES

- » To link work areas, up to 1550 kg load
- » Flexible line routing thanks to bends
- » Individual tracks can be connected using slide switches and turntables

GIS TRACK SWITCH/TURNTABLE

- » For accurate transition between tracks
- » Option: slide switches/turntables with internal or external conductor lines



BENDS

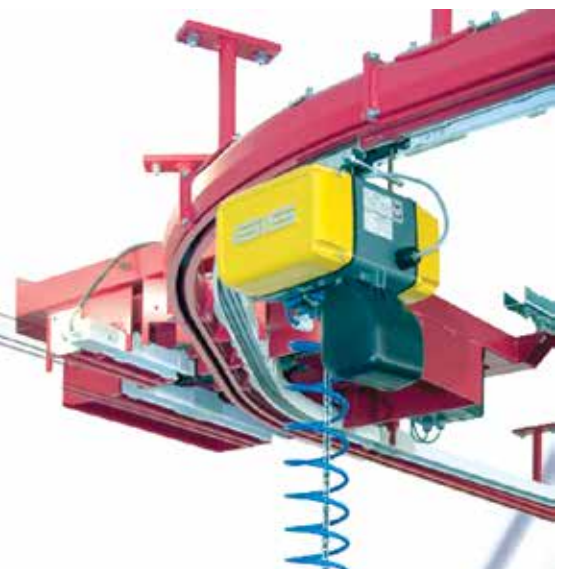
- » To reach individual work areas with accuracy
- » Optimum use of confined space

LOCKING SWITCHES

- » Cost-saving technology to cover partial working areas
- » No need for a complete crane system
- » Function: locking and moving into a lateral monorail

INTERNAL CONDUCTOR SYSTEM

- » The elegant alternative to trailing cables or looped wires
- » Placed inside the profile (for mechanical protection)
- » Ideal in confined spaces



BENEFITS TO YOU:

- » Reasonably priced, thanks to series-produced standard parts and rolled profiles
- » Simple to install, all components can be screwed/bolted
- » Manual or electrical crane/ trolley movement
- » Low noise level thanks to plastic guide rollers
- » Various power supplies
- » Guaranteed conversion or extension of existing crane systems

GISKB CRANE & MONORAIL SYSTEMS - TRACKS



TRACK

- » Four profile sizes
- » Connection plates on each end for bolting
- » Standard profile lengths, between 1m and 8 m
- » Special lengths to order

YOUR BENEFITS:

- » Excellent performance thanks to high load-carrying capacity
- » Simple to install, thanks to optimised design
- » Competitively priced, thanks to standard rolled profiles

OPTIMAL PROFILE SIZE

Use the table below to determine the optimal profile size, depending on the load and the span W.

Basis: Max. permissible deflection = $W/400$, Max stress = 180 N/M².

Hoist weight: 25 kg (up to load capacity of 500 kg), 50 kg (for load capacity over 500 KG)

» Without reinforcement

» With reinforcement

MONORAILS

Lifting capacity (kg)	GIS KB I Span (m)								GIS KB II Span (m)									
	Track only		NP 120		NP 160		NP 180		MR	Track only		NP 120		NP 160		NP 180		MR
100	4.7	5.9	7.8	7.8	7.8	7.8	7.8	7.8	7.5	7.2		7.8	7.8	7.8	7.8	7.8	7.8	7.8
125	4.4	5.6							6.9	6.9								
160	4.0	5.3							6.1	6.4	7.8							
200	3.7	4.9							5.6	6.0	7.5							
250	3.4	4.6	7.4						5.0	5.6	7.1							
320	3.1	4.2	6.8						4.2	5.1	6.6							7.6
400	2.8	3.8	6.3						3.3	4.7	6.2	7.6						6.8
500	2.5	3.5	5.5	7.5	7.5				2.9	4.3	5.7	7.1						5.8
630	2.0	3.2	4.5	7.0	6.3		7.3		2.3	3.8	5.2	6.4						4.5
800		2.8		6.4						3.2	4.8	5.2	7.7	7.0				3.6
1,000		2.5		5.6		7.5				2.7	4.3	4.3	7.1	5.8		6.6		3.1
1,250		2.1		4.6		6.4	7.4			2.7	3.9	3.5	6.5	4.7		5.4		2.6

SINGLE CRANE WITH BRIDGE SPAN W (M)

Lifting capacity (kg)	GISKBIII - span (m)	GISKBIV - span (m)
100	8.2	10.5
125	7.8	10.2
160	7.4	9.9
200	7.0	9.3
250	6.5	8.9
320	6.0	8.2
400	5.5	7.7
500	5.1	7.2
630	4.6	6.6
800	4.1	5.9
1000	3.6	5.4
1250	2.9	4.9
1600	2.4	4.0

DOUBLE CRANE WITH BRIDGE SPAN W (M)

Lifting capacity (kg)	GISKBIII - span (m)	GISKBIV - span (m)
100	9.4	11.8
125	9.1	11.6
160	8.7	11.3
200	8.5	11.0
250	8.1	10.8
320	7.6	10.1
400	7.2	9.7
500	6.7	9.3
630	6.2	8.5
800	5.7	8.0
1000	5.2	7.2
1250	4.7	6.7
1600	4.2	6.0

GISKB CRANE & MONORAIL SYSTEMS - SUSPENSION OPTIONS

SHORT RIGID (FIG 1)

- » Reduced headroom
- » The rigid suspension can only be supplied in the short version

SHORT, PENDULATING, ADJUSTABLE (FIG 2)

- » Ball pins and nuts are screwed together directly
- » Pendulation movements max. 10°
- » Height adjustable by ± 7.5 mm

DISTANCED, PENDULATING, ADJUSTABLE (FIG 3)

- » Distanced suspension, variable length
- » Height adjustable by ± 15 mm

DISTANCED, PENDULATING, ADJUSTABLE, BRACED (FIG 4)

- » Distance up to 0.5 m: bracing is mandatory
- » Longitudinal bracing: both ends of track
- » Transverse bracing: on one side, every 2nd suspension

LATERAL SUSPENSION

- » Lateral installation on wooden or concrete beam



2 TROLLEYS WITH TRAVERSE



ROLLING APPARATUS (CRANE CARRIAGE)

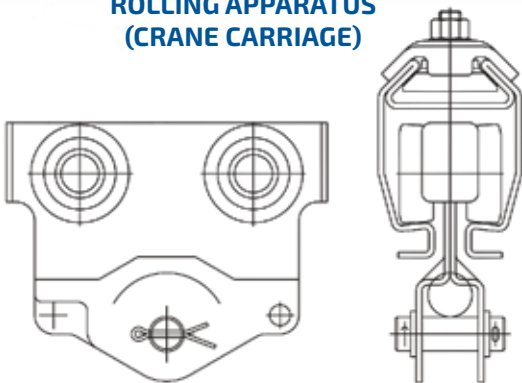


FIG 1



FIG 2



FIG 3



FIG 4

TROLLEYS

Components designed in galvanized steel

- » Use is guaranteed for longitudinal and transverse movements
- » Load sharing is ensured by 2 trolleys
- » On the saddle of a double crane bridge: 4 trolleys in use
- » Drive: manual or electrical tug

BENEFITS TO YOU:

- » Silent running thanks to plastic guide rollers
- » Ideal for awkward and critical loads
- » Easily converted from manual to electrical operation
- » Gentle start-up and braking thanks to the optional frequency inverter



ELECTRICAL DRIVE



4 TROLLEYS WITH SADDLE (TO REDUCE HEADROOM)

GISKB CRANE & MONORAIL SYSTEMS - ELECTRICS, BENDS & SWITCHES



TRAILING CABLE



C-RAIL



ENCLOSED CONDUCTOR LINE

POWER SUPPLY

- » 400V, 3Ph, 50Hz or 220V, 1Ph, 50Hz
- » Or for your power supply

GISKB POWER SUPPLIES COMPLETE

- » Cable carriage, traction limit, connector, C-rail stop

4 TYPES OF LONGITUDINAL AND TRANSVERSE POWER SUPPLY:

- » Trailing cable
- » C-rail
- » Enclosed conductor line
- » Conductor line inside GISKB track

GISKB II ST INTERNAL CONDUCTOR LINE

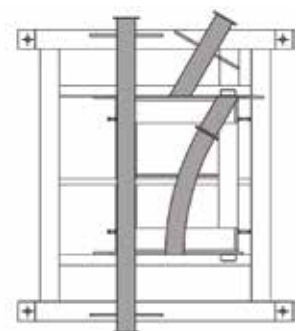
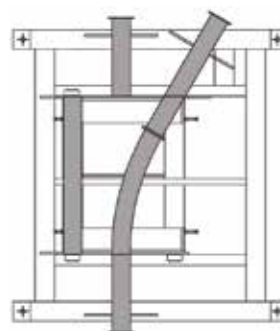
- » Flexible, universal
- » Attractive design
- » For universal use
- » Power: 25A with max.100 m profile length
- » Trolley design as for GISKB I (up to 800 kg)

BENDS

- » Can be supplied with angles of 30° and 45°
- » Radius: 1m
- » End plate at each end
- » Suspension from 2 points
- » Conductor line bends can be supplied with same angles as profile bends

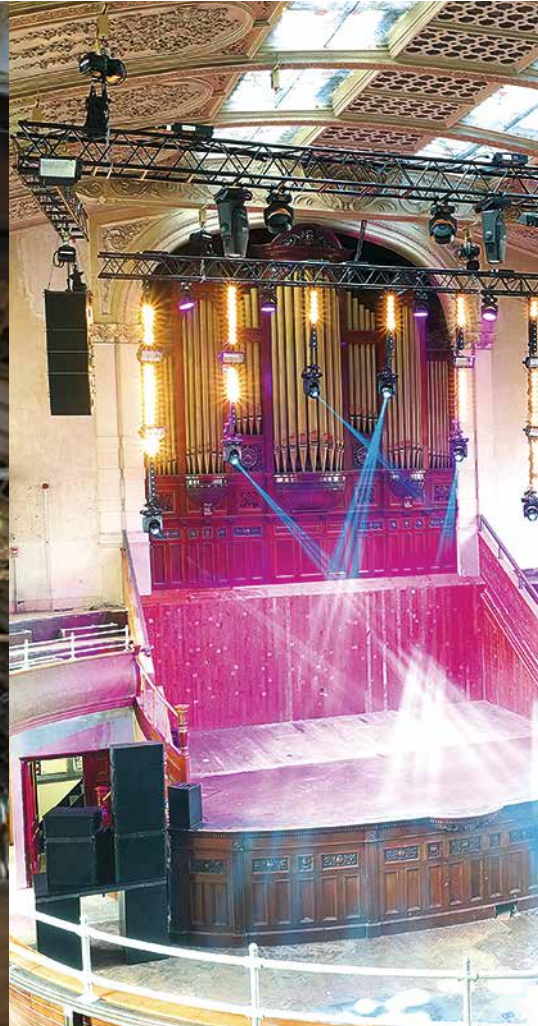
SLIDE SWITCHES & TURNABLES

- » Profiles are moved manually or electrically
- » Manual: with traction cable
- » Electrical: with 2-button control switch
- » Option: supplied with conductor lines
- » Trailing cable C-rail



INTERNAL CONDUCTOR SYSTEM

- » Internal conductor bars mounted inside the GISKB track
- » Maximum 40A for maximum 40m length
- » Current collector trolley available - independent from load carrying trolley
- » Modular construction
- » Neat & tidy - the conductor system is hidden



GEARED FOR YOUR PERFORMANCE

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