

Kinesys Elevation Range

A truss mounting
variable speed chain
hoist control solution.



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Kinesys Elevation Range is a truss mounting variable speed chain hoist and trolley control solution.

Designed to be located locally to the chain hoist or trolley that it controls, this innovative approach removes the need for large quantities of cabling and permits a number of motors and controllers to be supplied by single power and data cables.

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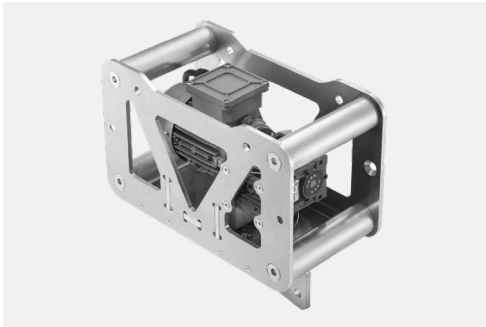
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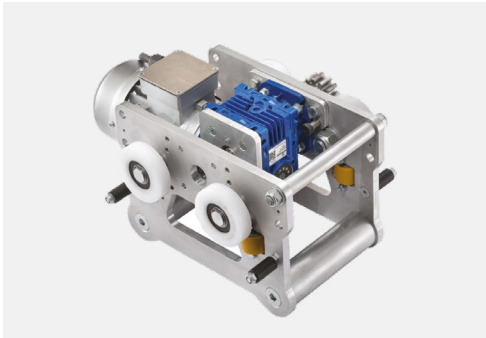
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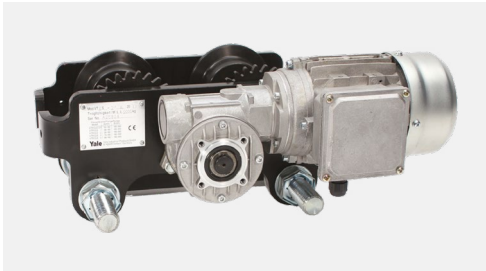
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Kinesys Elevation Drive v2

The Kinesys Elevation removes the need for large quantities of cabling and permits a number of motors and controllers to be supplied by single power and data cables.



In order to ensure continued availability of the popular Elevation drive despite global supply-chain challenges, we have re-engineered some of the internal components in this v2 of the drive. The Kinesys Elevation Drive v2 now incorporates a new VFD component, it will start and stop as expected, both accurately and on time, however there may be slight variations in speed during acceleration and deceleration when compared to a v1 unit.

To avoid any undesired outcomes caused by the differences in power delivery curves, it is not recommended to mix V1 and V2 drives when lifting the same object.

Additionally, the 4 pin XLR connector, which was previously included for an analogue load cell connection, is no longer available in the Kinesys Elevation Drive v2. This feature is now unnecessary when using the Kinesys Libra Pro device.

Kinesys Elevation Drive v2

Kinesys Elevation has been a popular range since its launch in 2003. Since then, new industry standards have evolved around the world, and therefore in some territories, and for some applications, our Kinesys Apex range may be better suited to your needs.



Kinesys Elevation together with customised versions of the most popular models of chain hoist and trolley, such as Liftket, Lodestar, EXE and DST, represents the most flexible and reliable variable speed 'open system' available in the market.

Easy to install, simple to configure and with an ergonomic and compact design, it has the ability to ramp start, ramp stop, position and vary the speed of a chain hoist or trolley for maximum creative effect.

With the addition of a simple adapter cable, the converted motors can be used as standard fixed speed machines allowing maximum flexibility of motor use.

The Kinesys Elevation can be controlled by Kinesys Vector consoles and interfaces with other Kinesys products for a totally integrated show control system.

Kinesys Elevation is available in both US and European voltage variants, with multiple fixings for hook clamps or half couplers which allow for a variety of mounting orientations.

FEATURES

32A MAINS INPUT AND OUTPUT CONNECTIONS ALLOW 'DAISY-CHAIN' OPERATION

ROBUST MULTIPIN CONNECTOR FOR HOIST CONNECTION - INCLUDES MOTOR, BRAKE, LIMIT SWITCH AND ENCODER CONNECTIONS

REMOTE CONTROL INPUT ALLOWS FULL VARIABLE SPEED OPERATION USING A KINESYS PENDANT

LED DISPLAY, INTUITIVE MENU SYSTEM AND RUGGED MANUAL CONTROL BUTTONS ALLOW FOR EASY SETUP

HOIST CONNECTIONS

8 + 24-PIN 'HARTING' CONNECTOR

MAINS INPUT/OUTPUT

5-PIN 32A 'CEEFORM' TYPE PLUG AND SOCKET TO IEC60309

CONTROL CONNECTIONS

7-PIN MALE XLR CONNECTOR WITH FEMALE LINK OUT

Kinesys Elevation Rigger

Designed to mimic industry-standard handheld controllers the Kinesys Elevation Rigger offers an instantly recognisable method of operation with minimal training required.



Kinesys Elevation Rigger can operate variable speed chain hoists and trolleys and can be used in place of, or in conjunction with, a computer control system such as Kinesys Vector.

Using the flexible menu system on the Kinesys Elevation along with the on-board speed control, the Kinesys Elevation Rigger can be used as a controller for simple set up operations where only basic movements are required.

It is not recommended to run shows using a Kinesys Elevation Rigger handset unless allowed by your risk assessment.

An Emergency Stop button built into the handset and group halt functionality means that the Kinesys Elevation Rigger provides a safe method of movement for set up purposes.

The Kinesys Elevation Rigger will automatically scan and recognise all connected Kinesys Elevation units, further enhancing ease of use and operation.

FEATURES

THE ABILITY TO ENABLE AND DISABLE THE SOFTWARE LIMITS USING A BYPASS KEY

INTEGRATED SPEED CONTROL FOR USE WITH VARIABLE SPEED HOISTS

POSITIVE, DIRECT ACTION TOGGLE SWITCHES AS WELL AS SEPARATE UP, DOWN AND STATUS INDICATORS PROVIDE INTUITIVE AND INSTANT FEEDBACK

INTEGRATED EMERGENCY STOP BUTTON, MULTIFUNCTION KEY SWITCH AND A GROUP HALT FEATURE ENSURE THE UNIT CAN BE OPERATED SAFELY AND SECURELY

A SINGLE XLR7 CABLE PROVIDES THE POWER AND DATA CONNECTION REQUIRED TO OPERATE THE UNIT

1U 19" RACK MOUNTING CASE

CONTROL CONNECTIONS

7-PIN MALE XLR CONNECTOR

Kinesys Array PD-ES

This 6U 19" rack module provides 125A of emergency stop switched power through four 32A three-phase Ceeform outlets.



All three-phase outlets are protected with an adjustable RCD. A single-phase auxiliary outlet is provided along with dual XLR7 data outputs for connection to Kinesys Elevation controllers.

The unit includes Kinesys Transform 485 functionality providing an interface between Kinesys Vector or Kinesys K2 and Elevation.

The front panel features an integrated Emergency Stop button, status indicators, individual MCBs for each Ceeform outlet and an adjustable RCD. 'Power Present' status indicators are provided on both front and back panels.

FEATURES

POWER DISTRIBUTION AND EMERGENCY STOP SYSTEM CONTAINED IN A 6U 19"

RACK ENCLOSURE

SINGLE-PHASE AUXILIARY OUTLET

4 X 32A THREE-PHASE INDIVIDUALLY SWITCHED CEEFORM OUTLETS

ADJUSTABLE RCD

INTEGRATED EMERGENCY STOP BUTTON

CONTROL CONNECTIONS

ETHERCON FOR CONNECTION TO KINESYS VECTOR/K2

CONTROL CONNECTIONS

POWERLOCK OR CAMLOK E1016 TYPE SINGLE-POLE CONNECTORS WITH THROUGH OUTLETS

4 X 32A "CEEFORM" TYPE IEC60309 5-POLE CONNECTORS

1 X 16A "CEEFORM" TYPE IEC60309 3-POLE CONNECTOR

1 X OUTLET SUITABLE FOR LOCAL TERRITORY E.G. SCHUKO/EDISON

Kinesys Array Mini PD-ES

The Kinesys Array Mini PD-ES provides 32A of emergency stop switched power through two 32A three-phase Ceeform outlets.

A single-phase auxiliary outlet is provided for technical use. The three-phase outlets are protected with an adjustable RCD. Along with power and status indicators, the unit includes Kinesys Transform 485 functionality providing an interface between Kinesys Vector and Elevation.

Multiple fixing points for hook clamps or half couplers allow for a variety of mounting orientations.



FEATURES

POWER DISTRIBUTION AND EMERGENCY STOP SYSTEM
CONTAINED IN A COMPACT CASE

TWO 32A THREE-PHASE CEEFORM OUTLETS
PROTECTED WITH AN ADJUSTABLE RCD

SINGLE PHASE AUXILIARY OUTLET

ADJUSTABLE RCD

MULTIPLE FIXING POINTS FOR HOOK CLAMPS
OR HALF COUPLERS



Kinesys Array PD-ES (excludes Mini)
provides a SIL2 PLd Emergency Stop
function to a Kinesys Elevation system.

The Emergency Stop system conforms to
the following standards:

EN ISO 13849-1:2006 Safety of machinery –
Safety-related parts of control systems.
Part 1: General principles for design
Emergency stop circuit complies to PLd

EN 62061:2005 Safety of machinery -
Functional safety of safety-related
electrical, electronic and programmable
electronic control systems

Emergency stop circuit complies with
SIL2 as standard or SIL3 when used in
conjunction with an appropriate Kinesys
Mentor safety module.

CONTROL CONNECTIONS

ETHERCON FOR CONNECTION TO VECTOR

2 X XLR7 OUTPUTS

MAINS INPUT/OUTPUT

5-PIN 32A RED 'CEEFORM' TYPE PLUG TO IEC60309

2 X 5PIN 32A 'CEEFORM' TYPE SOCKET TO IEC60309

1 X 16A 'CEEFORM' TYPE IEC60309 3 POLE CONNECTOR

Kinesys Array 485

Kinesys Array 485 is
a 1 in 8 out RS485
distribution unit for use
with Kinesys Elevation.



The rear panel features 1 in 8 out XLR7 data connections for outputting RS485 data to Kinesys Elevation units. The front panel offers link, data and emergency stop status indicators as well as the facility to plug a Kinesys Elevation Rigger remote in for local control.

FEATURES

- 1 IN 8 OUT XLR7 RS485 DISTRIBUTION UNIT
- ELEVATION RIGGER INPUT ON FRONT PANEL FOR LOCAL HOIST CONTROL
- EMERGENCY STOP LED INDICATORS ON FRONT PANEL
- 1U 19" RACK MOUNTABLE CASE

CONTROL CONNECTIONS

- 8 X XLR7 FEMALE OUTPUTS
- 1 X XLR7 MALE INPUT

Kinesys Array IP8

Kinesys Array IP8 is a rugged 8 port 10/100 Ethernet switch that is designed to work with Kinesys products.



Ethercon connectors on the rear of the unit provide increased protection for 8 x RJ45 connections. Standard RJ-45 connectors can also be plugged into these outputs. LEDs on the front panel of the unit indicate if power is present, provide a channel by channel breakdown of activity and whether each channel is operating at 10 or 100 BASE-T.

FEATURES

- 8 PORT 10/100 BASE-T ETHERNET SWITCH
- ETHERCON CONNECTORS
- LED ACTIVITY LIGHTS ON THE FRONT PANEL
- 1U 19" RACK MOUNT UNIT

CONTROL CONNECTIONS

- 8 X 10/100 BASE-T ETHERNET ETHERCON

Kinesys Elevation Hoist

The new and improved Kinesys Elevation Hoist updates the original Elevation1+ controlled Liftket Chain hoist with an improved Stageket body.



Designed with the latest developments in manufacturing in mind, the hoist shares many mechanical parts with our top of the range apexHOIST 500 model, including a new latching chain hook, black chain and 24m height of lift as standard.

All Elevation Hoists are fitted with double brakes, four position limit switches, encoder and – in conjunction with LibraCELL – they can reach conformity with many of the worlds most rigorous safety standards.

Kinesys Elevation Hoists are available in 208V and 400V.

FEATURES

LIFTKET CHAIN HOIST

USE WITH KINESYS ELEVATION 2.2KW

FITTED WITH CHAIN BAG

KINESYS ELEVATION READY

DOUBLE BRAKES

OVERTRAVEL AND EMERGENCY LIMITS

COMPLETED WITH KINESYS LIBRA CELL
AND LIBRA PRO

250KG (550LBS) AT 24M/MIN (80FPM) - D8+

500KG (1100LBS) AT 24M/MIN (80FPM) - D8

500KG (1100LBS) AT 12M/MIN (40FPM) - D8+

1000KG (2200LBS) AT 12M/MIN (40FPM) - D8

Kinesys Elevation CM Lodestar® Hoist

Kinesys converted Lodestar combines the lifting mechanism design of a CM chain hoist, with the Kinesys Elevation control for variable speed chain hoist.



All Kinesys converted Lodestar are fitted with double brakes, limit switches, encoder and – in conjunction with Kinesys Libra Cell – they can reach conformity with many of the worlds most restrictive safety standards.

Kinesys converted Lodestar are available in US, China and European voltage variants.

FEATURES

CM LODESTAR CHAIN HOIST

USE WITH KINESYS ELEVATION 2.2KW

FITTED WITH CHAIN BAG

KINESYS ELEVATION READY

DOUBLE BRAKES

OVERTRAVEL LIMITS

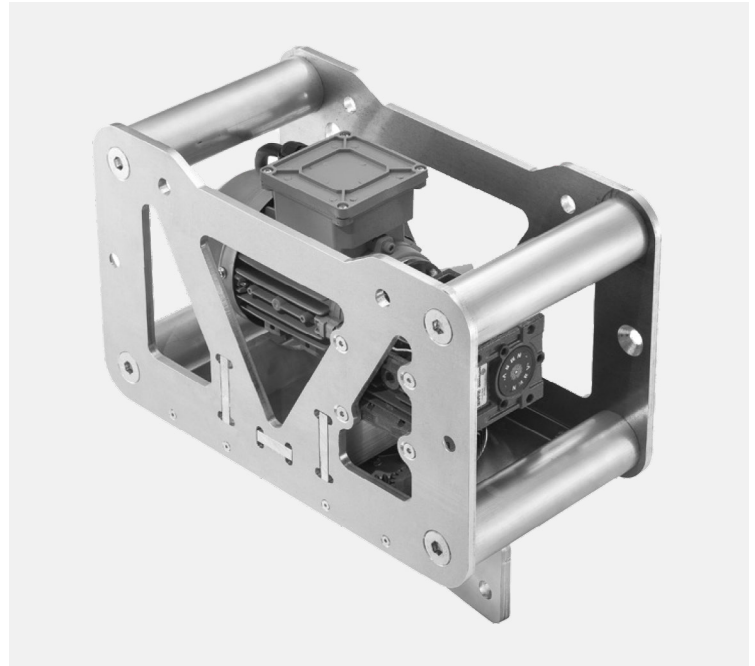
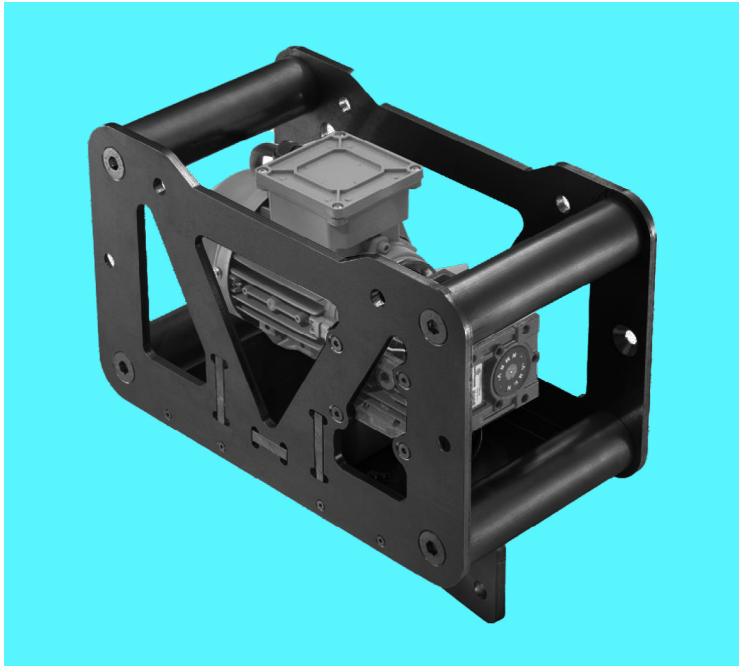
COMPLETED WITH KINESYS LIBRA CELL
AND LIBRA PRO

500KG (1100LBS) AT 21M/MIN (69FPM) - D8+

1000KG (2200LBS) AT 10M/MIN (33FPM) - D8

Kinesys Elevation Rotator DST

The Kinesys Elevation DST system features a stacking truss and a modular trolley system, including motorized, slave, and rotation trolleys.



It is designed to be easily assembled prior to rigging activities. The modules are compatible with the Kinesys Elevation system through adapters and couplings, enabling the use of variable speeds.

The Rotator DST module specifically offers 360° rotational movement for video screens or props. It can be paired with the Kinesys Elevation Trolley DST for complex, multi-axis motion setups. The system supports different configurations, such as curved sections of the Kinesys DST Track Truss, allowing for flexible integration in dynamic setups. Additionally, the module can serve standalone or as part of a larger, coordinated system.

The base includes holes that function as attachment points for hoists, scenery, or other elements. The module is equipped with an onboard control box and the Elevation controller.

FEATURES

DST TROLLEY AND DST ROTATOR

USE WITH ELEVATION 2.2KW

TRACK INTEGRATED INTO DST STACKING TRUSS SYSTEM

SECONDARY TROLLEYS AND CABLE CARRIERS AVAILABLE

TRACK TRUSS AVAILABLE IN STRAIGHT AND CURVED SECTIONS

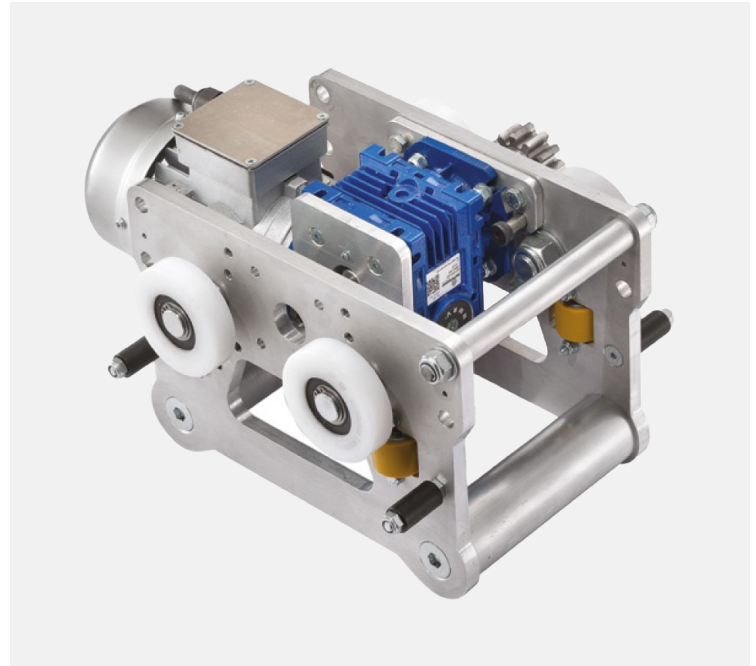
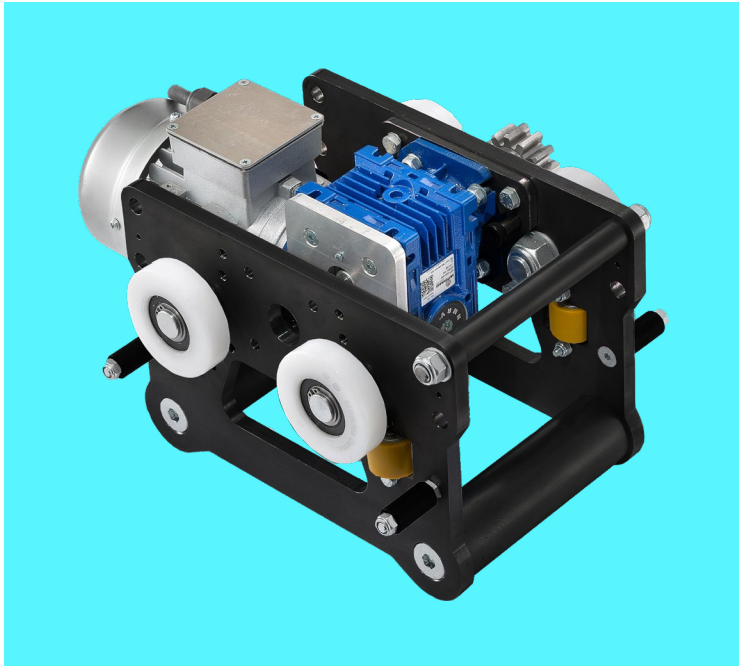
DST TROLLEY: 600KG (1320LBS)
AT 27M/MIN (89FPM)

DST ROTATOR: 900KG (1980LBS) AT 15RPM

OTHER TROLLEY SPEEDS AVAILABLE

Kinesys Elevation Trolley DST

The Kinesys Elevation DST system features a stacking truss and a modular trolley system, including motorized, slave, and rotation trolleys.



It is designed to be easily assembled prior to rigging activities. The modules are compatible with the Kinesys Elevation system through adapters and couplings, enabling the use of variable speeds.

The Rotator DST module specifically offers 360° rotational movement for video screens or props. It can be paired with the Kinesys Elevation Trolley DST for complex, multi-axis motion setups. The system supports different configurations, such as curved sections of the Kinesys DST Track Truss, allowing for flexible integration in dynamic setups. Additionally, the module can serve standalone or as part of a larger, coordinated system.

The base includes holes that function as attachment points for hoists, scenery, or other elements. The module is equipped with an onboard control box and the Elevation controller.

FEATURES

DST TROLLEY AND DST ROTATOR

USE WITH ELEVATION 2.2KW

TRACK INTEGRATED INTO DST STACKING TRUSS SYSTEM

SECONDARY TROLLEYS AND CABLE CARRIERS AVAILABLE

TRACK TRUSS AVAILABLE IN STRAIGHT AND CURVED SECTIONS

DST TROLLEY: 600KG (1320LBS)
AT 27M/MIN (89FPM)

DST ROTATOR: 900KG (1980LBS) AT 15RPM

OTHER TROLLEY SPEEDS AVAILABLE

Kinesys Elevation Track Truss DST

The Kinesys Elevation DST system features a stacking truss and a modular trolley system, including motorized, slave, and rotation trolleys.



It is designed to be easily assembled prior to rigging activities. The modules are compatible with the Kinesys Elevation system through adapters and couplings, enabling the use of variable speeds.

The Rotator DST module specifically offers 360° rotational movement for video screens or props. It can be paired with the Kinesys Elevation Trolley DST for complex, multi-axis motion setups. The system supports different configurations, such as curved sections of the Kinesys DST Track Truss, allowing for flexible integration in dynamic setups. Additionally, the module can serve standalone or as part of a larger, coordinated system.

The base includes holes that function as attachment points for hoists, scenery, or other elements. The module is equipped with an onboard control box and the Elevation controller.

FEATURES

DST TROLLEY AND DST ROTATOR

USE WITH ELEVATION 2.2KW

TRACK INTEGRATED INTO DST STACKING TRUSS SYSTEM

SECONDARY TROLLEYS AND CABLE CARRIERS AVAILABLE

TRACK TRUSS AVAILABLE IN STRAIGHT AND CURVED SECTIONS

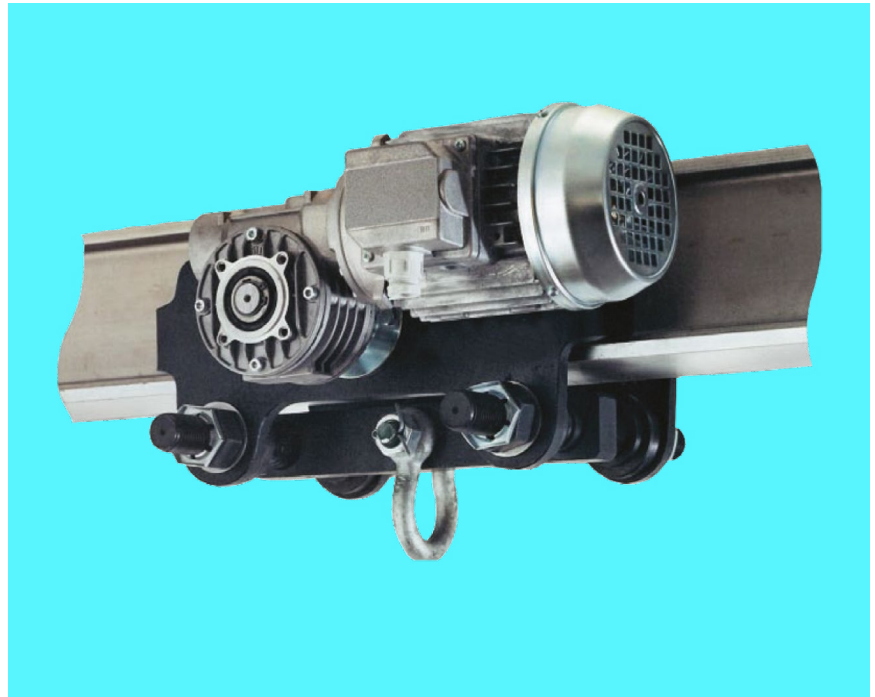
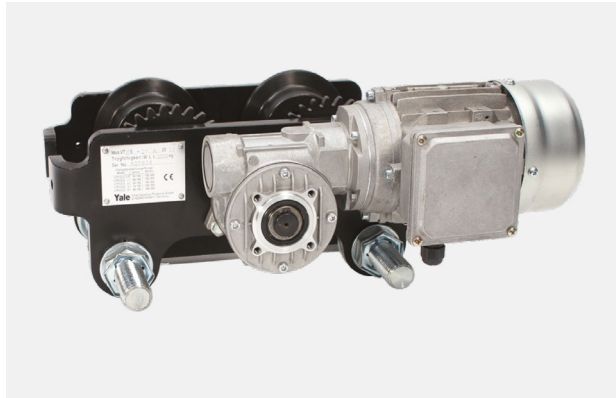
DST TROLLEY: 600KG (1320LBS)
AT 27M/MIN (89FPM)

DST ROTATOR: 900KG (1980LBS) AT 15RPM

OTHER TROLLEY SPEEDS AVAILABLE

Kinesys Elevation VTE Beam Trolley

Kinesys converted VTE Beam trolleys combines the bearing mechanism design of a VTE trolley, with the Kinesys Elevation1+ variable speed control.



Available in a range of speeds from 0 to 11m/min to 0 to 18m/min and also many capacities from 1000kg to 5000kg.

All Kinesys converted VTE beam trolleys are fitted with tooth belt driven encoder for precise positioning functionality; travel motor with worm gear transmission ensures smooth start and self-braking. A separate motor brake is not required.

Kinesys converted VTE beam trolleys are available in US, China and European voltage variants.

Ideal for horizontal travel in 58-180 or 180-300 I beams.

Trolley configurations available in conformity with D8, and BGV-C1.

(More configurations available under request)

FEATURES

VTE BEAM TROLLEY

USE WITH KINESYS ELEVATION 2.2KW

COMPACT, ROBUST FRAME WITH LOW OVERALL HEIGHT

WHEELS MANUFACTURED FROM FRACTURE-PROOF STEEL

2000KG (4400LBS) AT 19M/MIN (63FPM)

3000KG (6600LBS) AT 12M/MIN (40FPM)

Kinesys Vector Console

The Kinesys Vector Console is an all-in-one control solution with a built-in dedicated PC running our industry established Kinesys Vector Software.



The user interface includes a 15.6" backlit widescreen LCD with capacitive touchscreen, jog-wheels, joystick and stop/start buttons, as well as a dimmable backlit keyboard and trackpad for direct access to core Kinesys Vector functions. Designed with ease of use in mind, this is the best and easiest way to operate Kinesys Vector software, whether you're programming a show, or running it.



FEATURES

- INTEGRATES SEAMLESSLY WITH OTHER KINESYS HARDWARE TO PROVIDE EASY SETUP, OPERATION, REAL TIME FEEDBACK AND REMOTE CONFIGURATION
- ADVANCED LINKING AND TIMING FEATURES ALLOW COMPLEX CUES TO BE BUILT AND RUN SIMULTANEOUSLY WITH FOUR COLOUR CODED PLAYBACKS
- SAFETY FEATURES INCLUDE THREE LEVELS OF LOGIN ACCESS, 'DEAD MAN'S HANDLE', GROUP HALTING AND ERROR WINDOWING
- MANUAL MODE ALLOWS EASE OF USE DURING INSTALLATION OR MAINTENANCE PERIODS WITHOUT THE NEED FOR CUES TO BE WRITTEN

Learn more about the Kinesys family of TAIT Products.

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DESIGNED IN THE UK

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