

 Street



ZX HOIST

ZX6 HOIST

The ZX6 Model is available with 4 gearbox ratio's, 3 drum lengths & 2 different reeving arrangements. These options combine to provide a comprehensive range of hoists from 1 tonne up to 5 tonnes capacity with a large selection of duty ratings, lifting speeds & heights of lift.



2 : 1			Rope Reeving			4 : 1		
<u>SWL</u>	<u>Speeds</u>	<u>Lift</u>	<u>SWL</u>	<u>Speeds</u>	<u>Lift</u>	<u>SWL</u>	<u>Speeds</u>	<u>Lift</u>
1 tonne	8/2.6 m/min	13m	2.5 tonnes	4/1.3 m/min	6.5m	2.5 tonnes	4/1.3 m/min	6.5m
2 tonnes	10/3.3 m/min	20m	3.2 tonnes	5/1.6 m/min	10m	3.2 tonnes	5/1.6 m/min	10m
2.5 tonnes	12/4 m/min	30m	5 tonnes	6/2 m/min	15m	5 tonnes	6/2 m/min	15m
	16/5.3 m/min			8/2.6 m/min			8/2.6 m/min	

ZX8 HOIST

The ZX8 Model is generally available with 4 gearbox ratio's, up to 4 drum lengths & 5 different reeving arrangements. These options combine to provide a comprehensive range of hoists from 1 tonnes up to 25 tonnes capacity with a large selection of duty ratings, lifting speeds & heights of lift.



Rope Reeving

1 : 1*			2 : 1			4 : 1			6 : 1			8 : 1		
SWL	Speeds	Lift	SWL	Speeds	Lift	SWL	Speeds	Lift	SWL	Speeds	Lift	SWL	Speeds	Lift height
1 tonne	16/4 m/min	32m	2.5 tonnes	8/2 m/min	16m	5 tonnes	4/1 m/min	8m	8 tonnes	2.5/0.6 m/min	5.5m	12.5 tonnes	2/0.5 m/min	6m
2.5 tonnes	20/5 m/min	48m	3.2 tonnes	10/2.5m/min	24m	8 tonnes	5/1.25 m/min	12m	10 tonnes	3.2/0.8 m/min	8m	16 tonnes	2.5/0.6 m/min	10m
3.2 tonnes	24/6 m/min	80m	5 tonnes	12/3 m/min	40m	10 tonnes	6/1.5 m/min	20m	12.5 tonnes	4/1 m/min	13m	20 tonnes	3/0.75 m/min	
	32/8 m/min		6.3 tonnes	16/4 m/min	50m#	12.5 tonnes	8/2 m/min	25m#	16 tonnes	5/1.25 m/min		25 tonnes	4/1 m/min	

* Not available in low head single girder form, # Only low head 2/4 fall available

ZX10 INTRODUCTION

ZX10 HOIST - TYPE "SS" single gearbox - single rope hoists

A combination of gearboxes, drums and rope diameter provides a huge model range at lower duties to suit all budgets. A single scrolled hoist drum provides the most efficient and cost effective solution for double girder applications up to 32 tonnes.



2:1 - 16mm ROPE 326mm DRUM			2:1 - 18mm ROPE 324.4mm DRUM			4:1 - 16mm ROPE 326mm DRUM			4:1 - 18mm ROPE 324.4mm DRUM			6:1 - 16mm ROPE 326mm DRUM			6:1 - 18mm ROPE 324.4mm DRUM		
SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m
5	10.1/2.6	25	5	10/2.5	21	6.3	5.1/1.3	12	8	5/1.3	10	8	3.4/0.9	8	5	3.4/0.9	7
	8.7/2.2			4.4/1.1			5			4.4/1.1			2.9/0.8			6.3	
6.3	8.5/2.2	37	6.3	8.5/2.2	31	8	4.3/1.1	18	10	4.3/1.1	15	10	2.9/0.8	12	6.3	2.9/0.8	10
	7.4/1.9			3.7/1			6.3			3.7/1			2.5/0.7			8	
8	7.1/1.8	48	8	7.1/1.8	42	10	3.6/0.9	24	12.5	3.6/0.9	21	12.5	2.4/0.6	16	8	2.4/0.6	14
	6.3/1.6			3.2/0.8			10			3.2/0.8			2.1/0.6			12.5	
10	6.2/1.6	54	10	6.1/1.6	47	12.5	3.1/0.8	27	16	3.1/0.8	23	16	2.1/0.6	18	10	2.1/0.6	15
	5.5/1.4			2.8/0.7			12.5			2.8/0.7			1.9/0.5			16	
	5.3/1.4	69	12.5	5.3/1.4	59	16	2.7/0.7	34	20	2.7/0.7	29	20	1.8/0.5	23	12.5	1.8/0.5	19
	4.6/1.2			2.3/0.6			20			2.3/0.6			1.6/0.4			20	
	4.4/1.1			4.4/1.1			2.2/0.6		25	2.2/0.6		25	1.5/0.4		16	1.5/0.4	
	3.9/1			3.8/1			2/0.5			1.9/0.5			1.3/0.4		20	1.3/0.4	

Street

ZX10 INTRODUCTION

ZX10 HOIST - TYPE "ST" single gearbox - twin rope hoists

Double scrolled open hoist drum with a single gearbox provides a cost effective true vertical lift solution for medium to high duties up to 40 tonnes.



4:2 - 13mm ROPE 251mm DRUM			8:2 - 13mm ROPE 251mm DRUM			12:2 - 13mm ROPE 251mm DRUM			16:2 - 13mm ROPE 251mm DRUM							
SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m					
5	7.8/2	19	5	3.9/1	11	5	2.6/0.7	7	40	2/0.5	11					
	6.7/1.7			6.3		3.4/0.9	6.3			2.3/0.6		1.7/0.5				
	6.6/1.7			8		3.3/0.9	8			2.2/0.6		1.7/0.5				
6.3	5.7/1.5	28	8	2.9/0.8	15	10	1.9/0.5	14		1.5/0.4		11				
8	5.5/1.4		10	2.8/0.7		10	1.9/0.5			1.4/0.4						
10	4.9/1.3	42	12.5	2.5/0.7	22	12.5	1.7/0.5	14		40		1.3/0.4	11			
	8			4.8/1.2		16	2.4/0.6					16		1.6/0.4	1.2/0.3	
	10			4.2/1.1		20	2.1/0.6					20		1.4/0.4	1.1/0.3	
12.5	4.1/1.1	42	20	2.1/0.6	22	25	1.4/0.4	14				40		1.1/0.3	11	
	3.6/0.9			25		1.8/0.5	25							1.2/0.3		0.9/0.3
	3.4/0.9			30		1.7/0.5	30							1.2/0.3		0.9/0.3
12.5	3/0.8	42	25	1.5/0.4	22	32	1/0.3	14	40		0.8/0.2			11		
	3.4/0.9			30		1.7/0.5	30				1.2/0.3					0.9/0.3

Street**ZX10 INTRODUCTION**

4:2 - 16mm ROPE 406mm DRUM			8:2 - 16mm ROPE 406mm DRUM			12:2 - 16mm ROPE 406mm DRUM			12:2 16mm ROPE 326mm DRUM		
SWL tonnes	Speed m/min	LIFT m	SWL tonnes	Speed m/min	LIFT m	SWL Tonnes	Speed m/min	LIFT m	SWL Tonnes	Speed m/min	LIFT m
5	12.5/3.2	24	5	6.3/1.6	14	5	4.2/1.1	9	5	3.4/0.9	7
	10.9/2.8			5.5/1.4		6.3	3.7/1		6.3	2.9/0.8	
6.3	10.6/2.7	35	6.3	5.3/1.4	19	8	3.6/0.9	13	8	2.9/0.8	10
	9.2/2.3		8	4.6/1.2		10	3.1/0.8		10	2.5/0.7	
8	8.8/2.2	53	8	4.4/1.1	28	10	3/0.8	19	10	2.4/0.6	15
	7.8/2		10	3.9/1		12.5	2.6/0.7		12.5	2.1/0.6	
10	7.7/2	53	10	3.9/1	28	16	2.6/0.7	19	16	2.1/0.6	15
	6.8/1.7		16	3.4/0.9		20	2.3/0.6		20	1.9/0.5	
12.5	6.6/1.7	53	20	3.3/0.9	28	25	2.2/0.6	19	25	1.8/0.5	15
	5.8/1.5		25	2.9/0.8		30	2/0.5		30	1.6/0.4	
16	5.5/1.4	53	25	2.8/0.7	28	30	1.9/0.5	19	30	1.5/0.4	15
	4.8/1.2		30	2.4/0.6		32	1.6/0.4		32	1.3/0.4	
20		53	30		28	32		19	40		15
			32			40			50		
						50					

ZX10 HOIST - TYPE "DT" double gearbox - twin rope hoists

The top of the ZX range, the double scrolled hoist drum combined with a double gearbox for the highest lifting capacities or for very heavy duty ratings. Zero hook movement over the full lifting height.

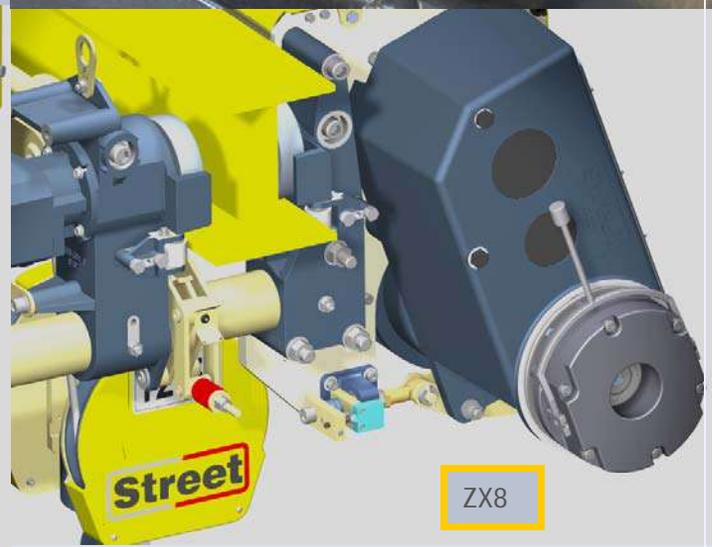
OPERATING AND SAFETY FEATURES

Patented torque arm safe load cut-out device (capacity restrictor)

- Prevents the operator inadvertently overloading the hoist and crane structure
- Measures all the load the hoist mechanism is transmitting (not just the load in one or two ropes)
- Does not reduce available height of lift
- Actuated directly by the load, does not rely on measuring electrical current
- Can be easily adjusted to the required capacity



ZX6



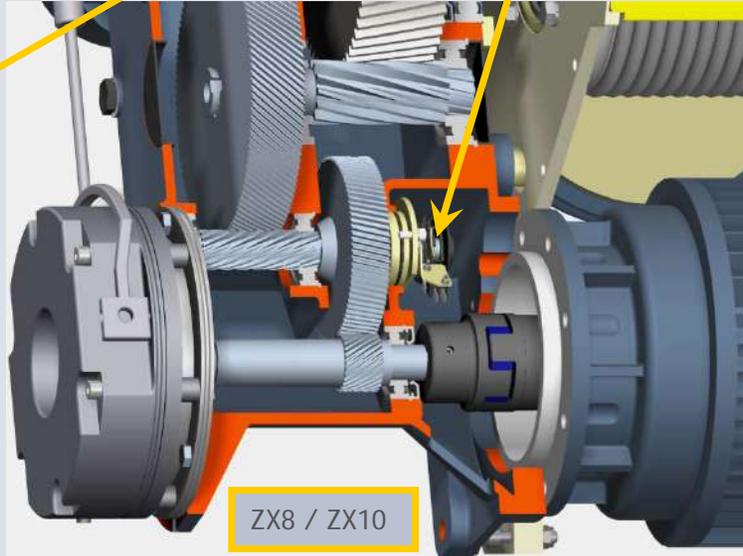
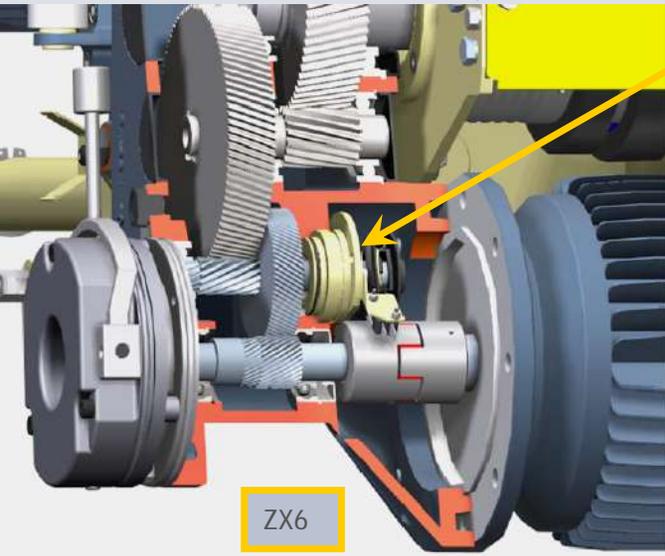
ZX8

OPERATING AND SAFETY FEATURES

Superior load safety

- A hoist brake acts on a gearbox shaft not a motor shaft as is the case with competitor hoists
- When the hoist brake is applied, the load will remain secure even if the hoist motor is removed
- Automatic braking in the event of a power failure, Option for over speed device to activate brake and cut main power in the event of hoist over speed

Optional over speed cut out device custom designed to fit in ZX6, ZX8 & ZX10 gearboxes. Activates the brake and cuts hoist power in event of over speed



Low Maintenance DC Disk brake - fitted on gearbox shaft - ensures load remains secure in event of motor shaft or coupling failure.

OPERATING AND SAFETY FEATURES

Heavy duty hoist motor

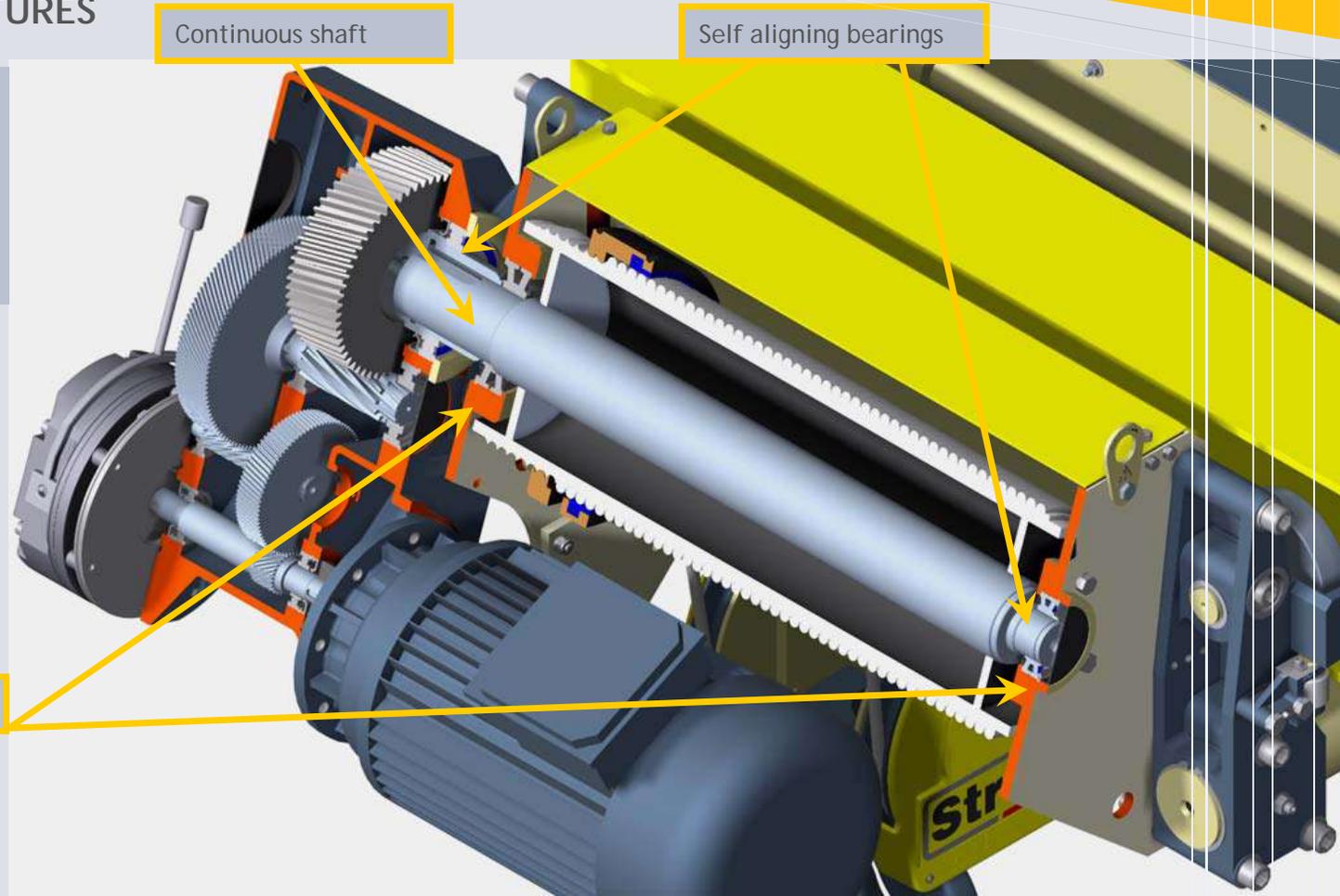
- External hoist motor to optimise cooling and maximise accessibility
- Cylindrical rotor fan cooled design
- Overheating protection in the motor winding is standard
- Class "F" insulation
- IP55 (NEMA 3R) protection against ingress of dust particles and water



OPERATING AND SAFETY FEATURES

Extra hoist drum security

- Continuous shaft through the hoist drum
- Barrel retention flanges
- Self aligning bearings at each end of the drum to take up deflection



OPERATING AND SAFETY FEATURES

Electrical equipment

- Double insulated push-button pendant
- Push button durability: 1 million operations
- Pendant cable and crane wiring with quick-release plug and socket connections
- Mechanical interlocks on the crane motions

Telemecanique pendant unit with International Legends, Emergency Stop & Reset buttons as standard



Re-set/On button

Emergency Stop

Support plate attached to 2 x steel wheel trolleys running in c-rail system

Quick-release plug & socket connection

Pendant cable with integral strainer wire



FUNCTIONALITY/RELIABILITY FEATURES

Compact design with space saving dimensions

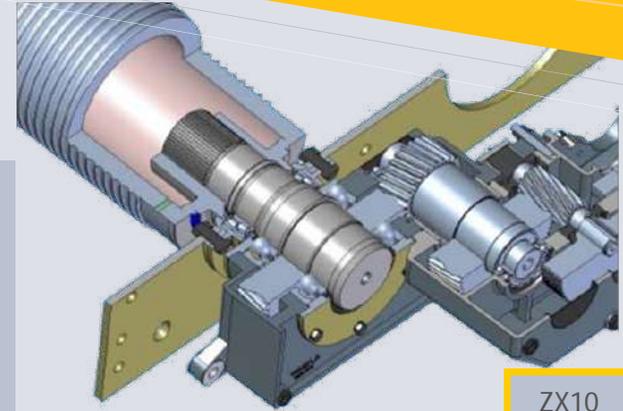
- Low headroom hoist construction is standard on all Single Girder ZX cranes
- Improved headroom dimension for both low headroom and double girder formats gives a lower roof height requirement with optimal top hook position. Ideal for modern lower profile bays
- Compact side hook and end hook approaches maximises coverage of the factory floor for a more productive work space
- Optimisation of available space with multiple beam to end truck construction options



FUNCTIONALITY/RELIABILITY FEATURES

Precision hoist gearbox with hardened and ground gears/drive shafts

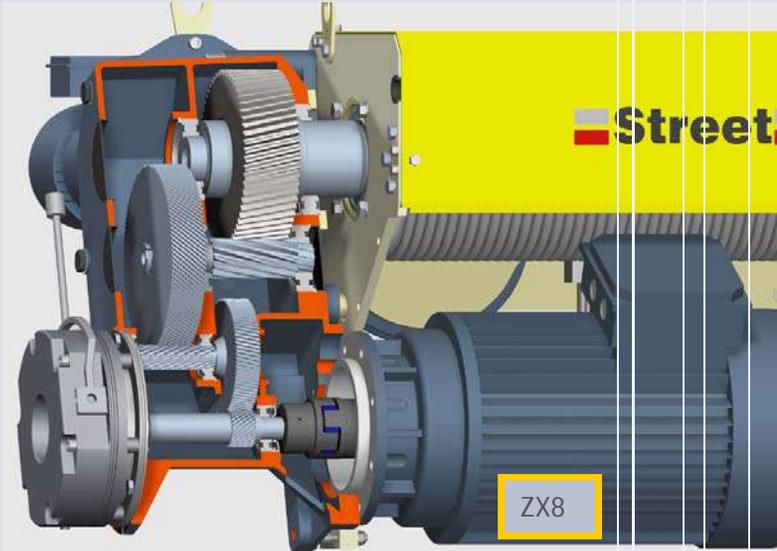
- Gears permanently immersed in oil safety and reliability year after year
- ZX6 Gearbox now improved M5 rating for S and F speeds utilising "H04" and "H05" motors respectively
- ZX8 Gearbox has increased stiffness to allow its use in ZX10 hoist with additional reducer
- Gear train can be viewed through the removable inspection cover



ZX10



ZX6



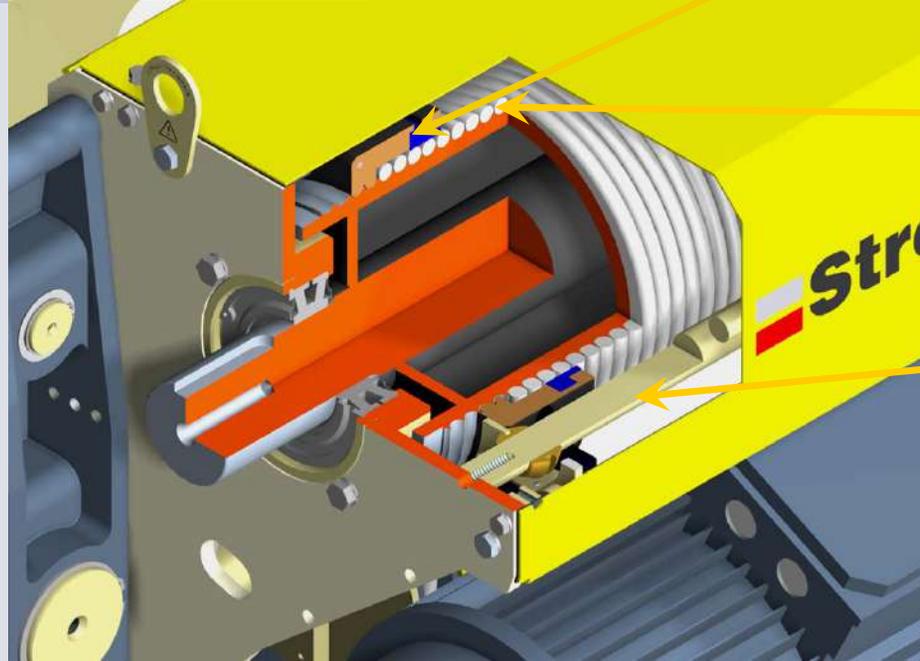
ZX8

FUNCTIONALITY/RELIABILITY FEATURES

Heavy duty rope guide

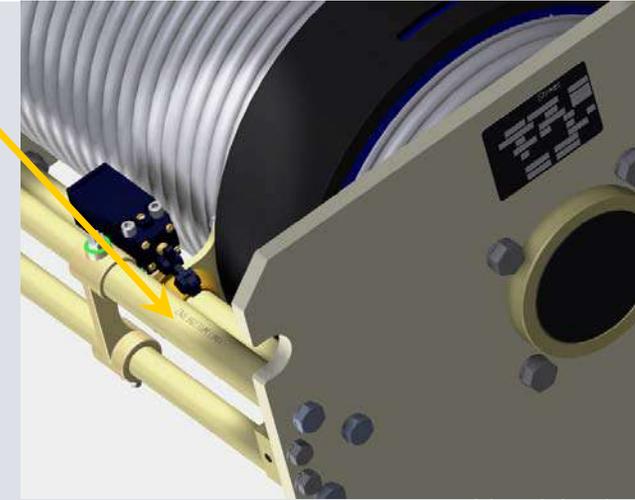
- Eliminate slack rope windup
- Provide positive limit switching

Heavy duty rope guide outer band set to travel up and down the barrel in the scrolls



Sprung loaded inner rope clamping band

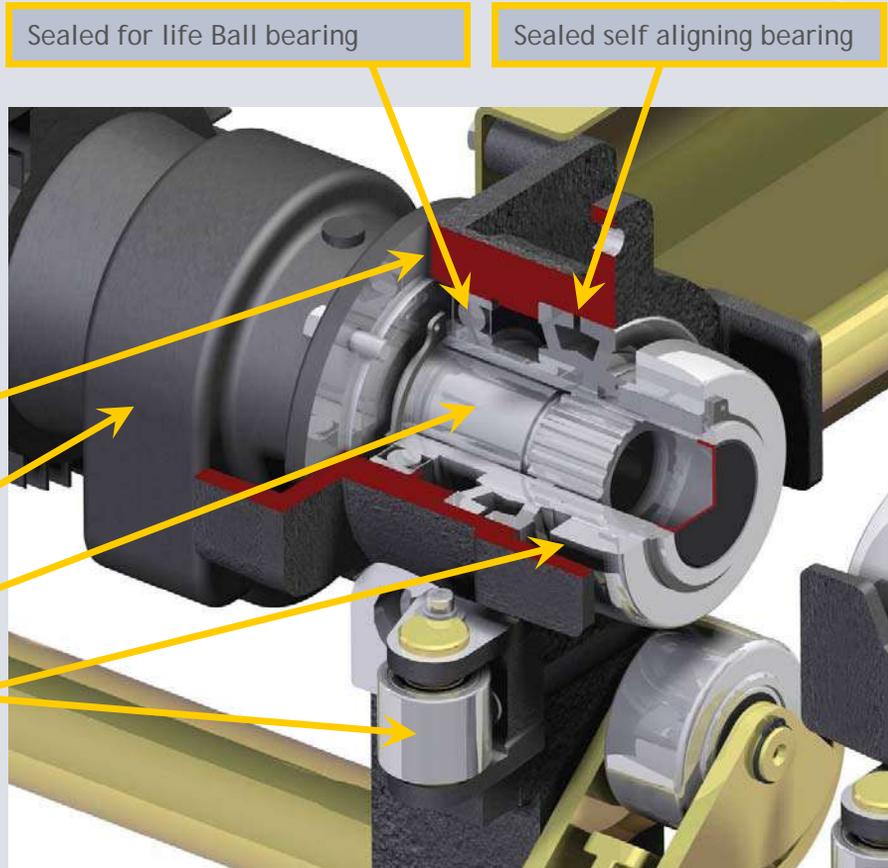
Bronze limit switch bobbin to ensure positive limit switching



FUNCTIONALITY/RELIABILITY FEATURES

Direct drive cross travel

- Eliminate open drive gears
- Cross travel wheels easily removable



Sealed for life Ball bearing

Sealed self aligning bearing

One piece cast drive housing

Drive motor / gearbox

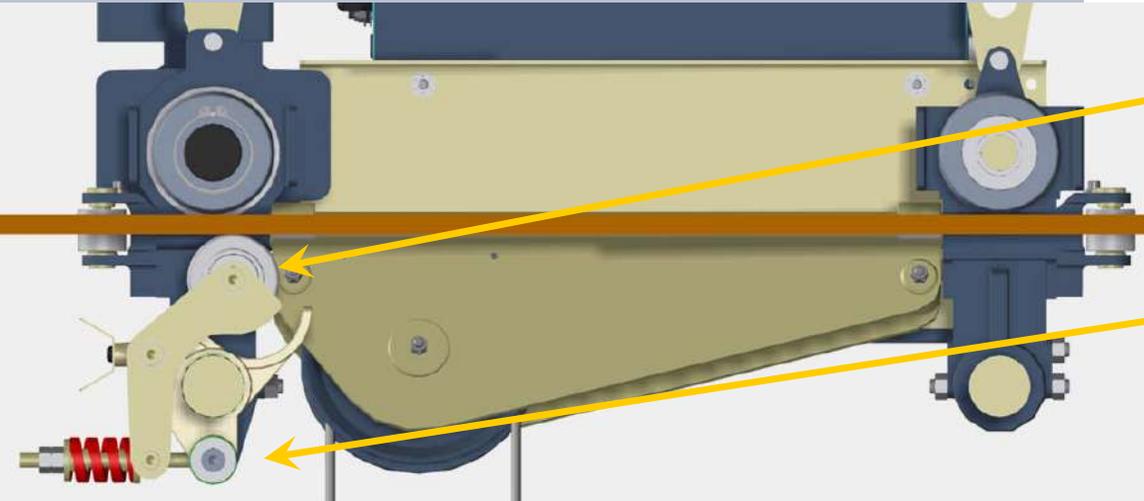
Splined adapter shaft

Sturdy flangeless cross travel wheels and side rollers for high durability and reduced wear on both wheels and beam

FUNCTIONALITY/RELIABILITY FEATURES

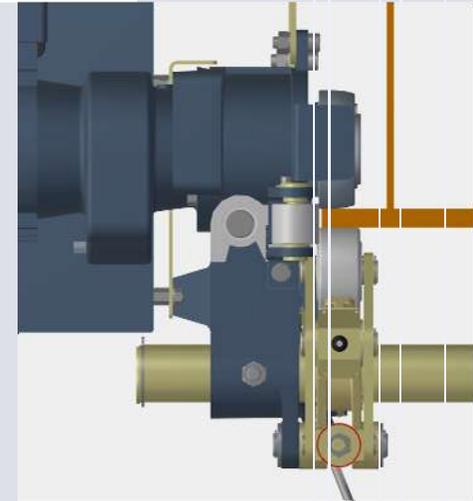
Reaction roller mechanism

- Eliminate costly counter balance weight
- Increased wheel life due to lower cross travel loads (reduced hoist weight)
- Sealed bearing design suitable for dirty environments (maintenance free)
- Decreased shipping/transportation cost of hoist due to reduced weight and size
- Caters for beam flanges up to 35mm



Sealed roller with steel wheels

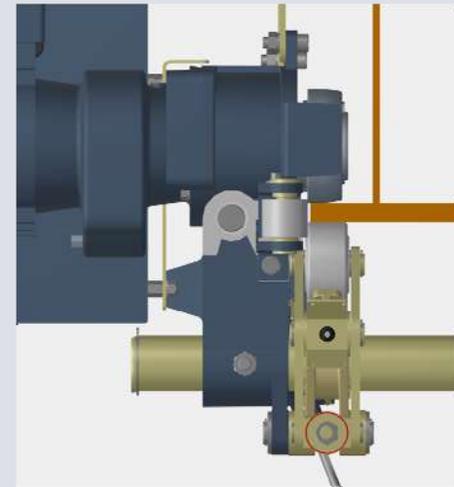
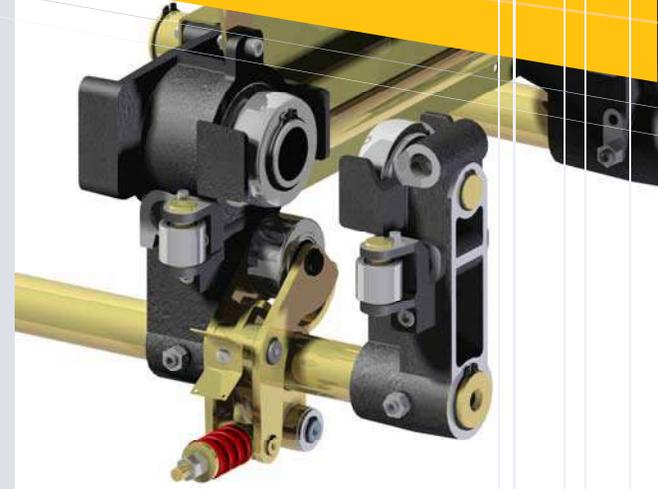
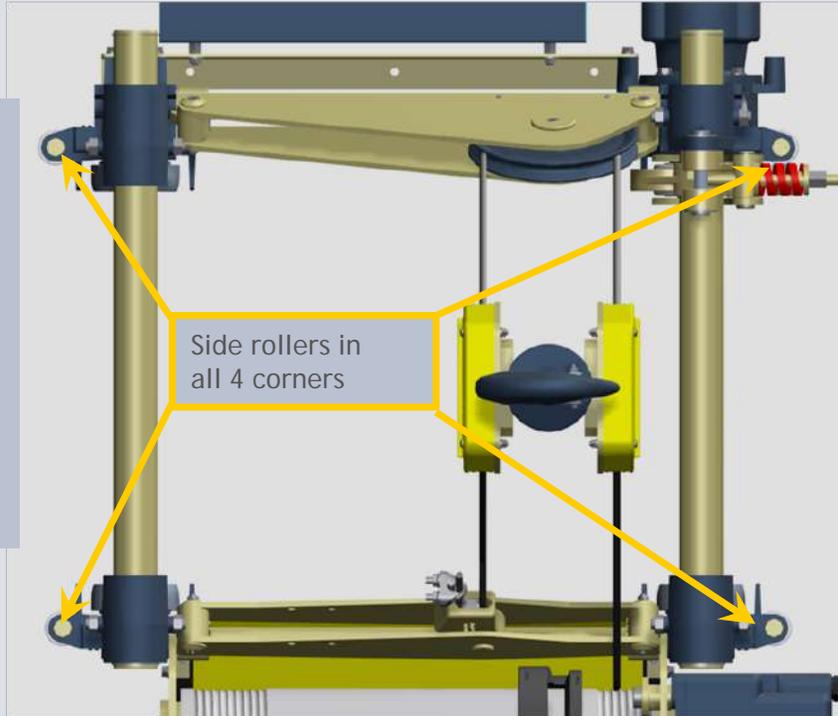
Adjustable spring loading system
one setting for all hoists



FUNCTIONALITY/RELIABILITY FEATURES

Sturdy guide roller mechanism

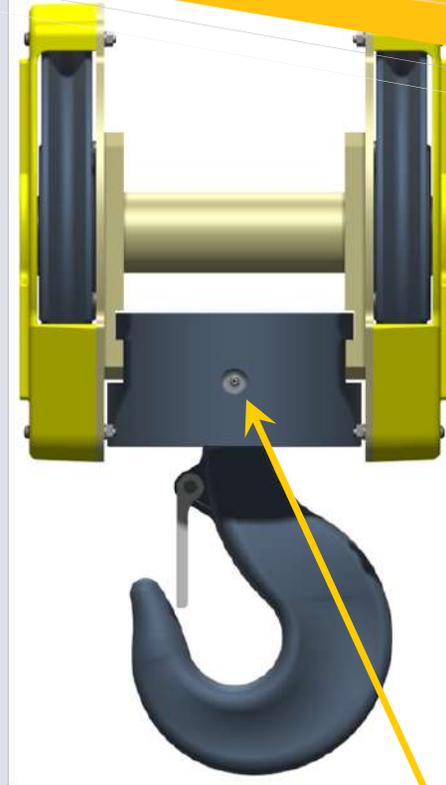
- Reduce rolling resistance providing smoother drive movement
- Increased wheel life due to flangeless trolley wheels
- Increased beam life due to side roller rolling action as opposed to flanged wheel cutting action.
- Reduced beam flange rolling due to eradication of wheel flange material build up.



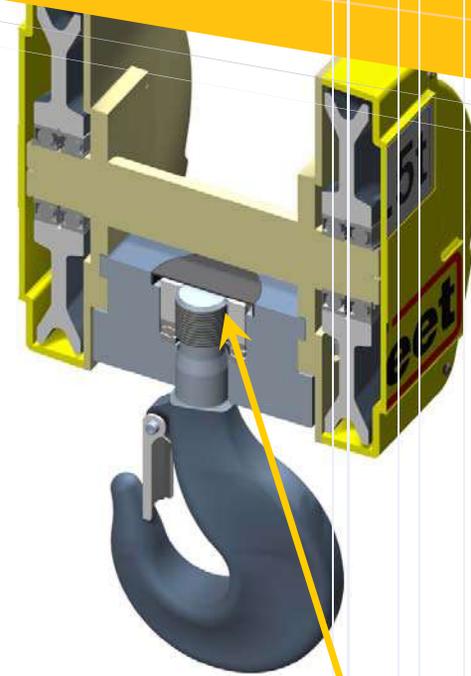
FUNCTIONALITY/RELIABILITY FEATURES

New bottom block

- New ergonomic design for improved safety and handling
- Improved lubrication increases bearing life and free rotation of hook.
- Improved sealing of hook bearings to prevent ingress of dust / dirt / water etc..
- Improved Aesthetics

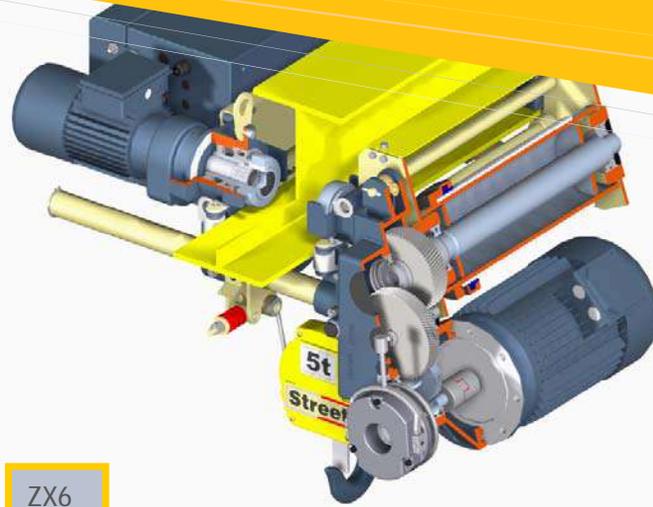


Grease lubrication Nipple



Sealed top cap to prevent ingress of contaminants

SERVICABILITY FEATURES

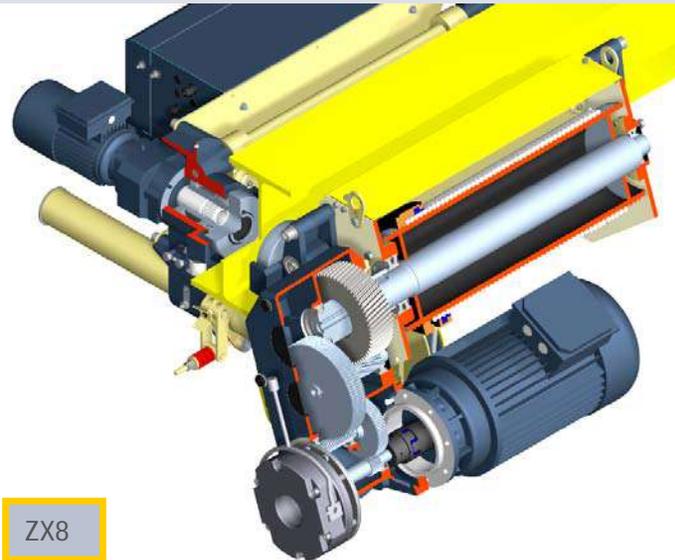


ZX6



Accessible open plan design

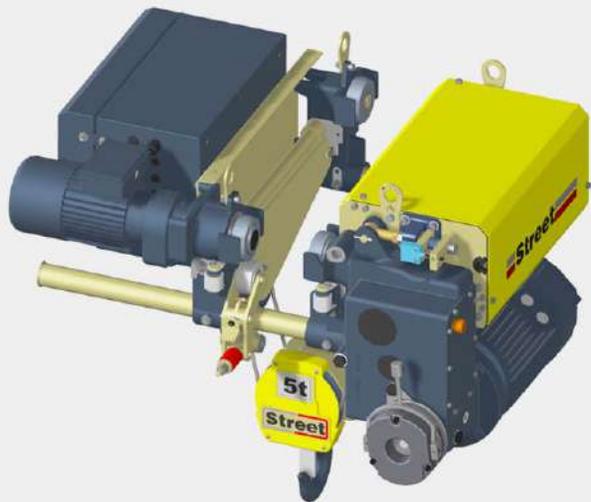
- External hoist motor to optimise cooling
- External hoist brake to facilitate access
- External gearbox with removable inspection cover
- Quick release plug and socket connections
- Panel wiring ferruled and fully identified to each connection terminal
- Open layout makes service and maintenance significantly easier compared to competitor hoists



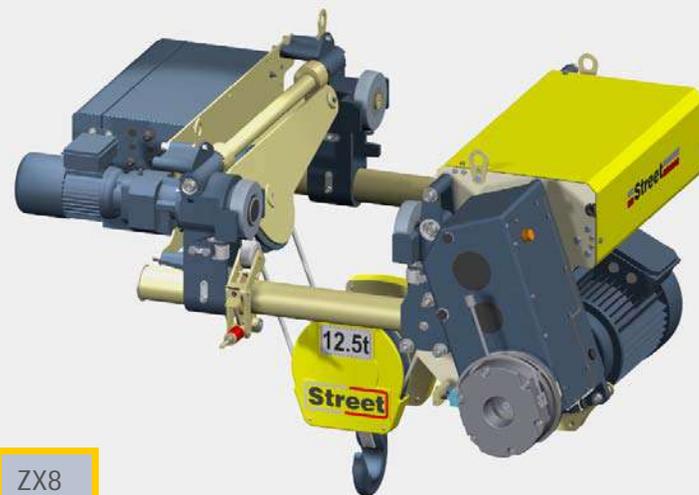
ZX8



SERVICABILITY FEATURES



ZX6



ZX8

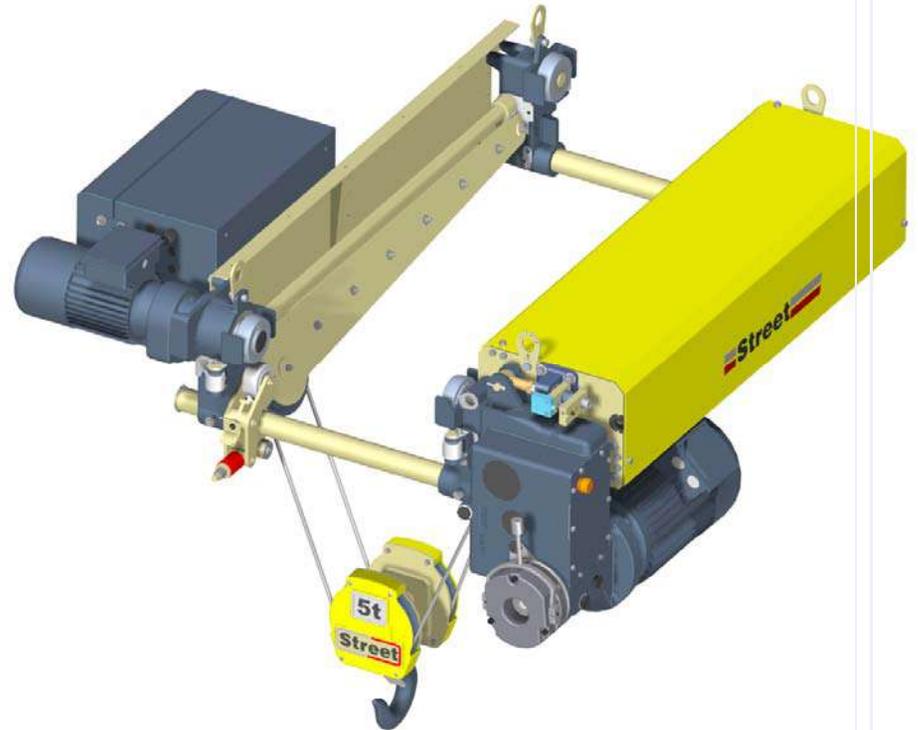
Modular design

- Less parts overall (approximately 1/3 of the parts from the previous ZX3 & 4 hoist models)
- More common parts throughout the range (overload and reaction roller)
- Open layout makes service and maintenance significantly easier compared to competitor hoists
- Corrosion protection on all exposed hoist components is either by powder coating or zinc passivation to provide improved protection

SERVICABILITY FEATURES

Accessible open plan design

- External hoist motor to optimise cooling
- External hoist brake to facilitate access
- External gearbox with removable inspection cover
- Quick release plug and socket connections
- Panel wiring ferruled and fully identified to each connection terminal
- Open layout makes service and maintenance significantly easier compared to competitor hoists



ZX6 ELB

SERVICABILITY FEATURES

Flexible design

- ZX6 (0-5 tonnes) Adjustable trolley carriage to accommodate beam flanges from 100mm to 500mm
- ZX8 (0-12.5 tonnes) can fit to beam flange widths from 150mm to 500mm
- ZX8 (12.5-25 tonnes) can fit to beam flange widths from 300mm to 700mm
- Double girder beams are covered using modular crab designs

Note: For shipping hoist trolleys moved to minimum width to minimise volume & cost



OPERATING FEATURES

Flexible design

- IP55 (NEMA 3R) steel electrical control cubicle
- Functional design with hinged door makes all components easily accessible.
- Hours in service meter records the total time the hoist motor is energised
- A phase failure relay prevents uncontrolled movement of the hoist should one or more phases of the electrical supply fail. It also prevents movement if the phase sequence is incorrect
- Better heat dissipation by the finned Aluminium heat-sink to transfer heat out of the control cubicle when inverters are used on travel
- Panel wiring is ferruled and fully identified to the connection terminal
- All electrical equipment incorporates heavy duty, quick release, plug and socket cable connectors for fast simple assembly.



OPTIONAL FEATURES / EQUIPMENT



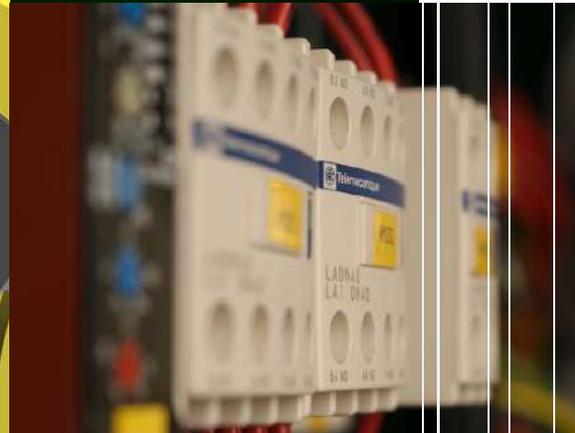
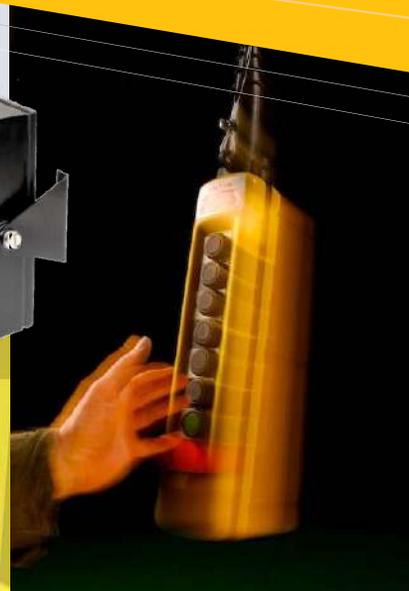
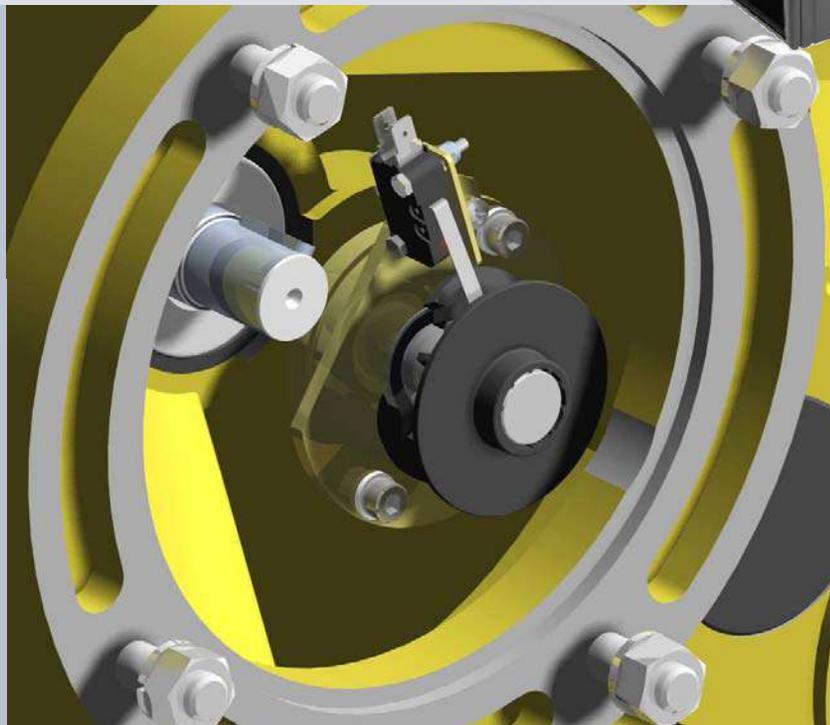
SC Smartdrive Technology

- The New ZX hoist incorporates SC SMARTDRIVE the latest most advanced traverse speed control technology to give the superior performance you might expect from a world leader
- ZX beats the competition by employing a full frequency inverter and current vector control for minimum load swing and easy more accurate load positioning for greater safety and productivity
- The SC SMARTDRIVE Inverter includes an LED status display to access a series of diagnostic and condition monitoring data including Safe Working Period calculation
- Plug in Control Terminal Board with memory is another significant advantage and another uncommon feature. It provides for a simple change in the unlikely event the inverter fails with no need for any re programming tools
- SC SMARTDRIVE Standard programming is for 2 speeds with standard smooth acceleration and deceleration ramps but the inverters are fully programmable for different speeds and accelerations, multiple speeds, ramp and hold or infinitely variable between full speed and 10% of full speed

OPTIONAL FEATURES / EQUIPMENT

Overspeed Switch

- A mechanical centrifugal overspeed switch on the 2nd gearbox reduction de-energises the hoist motor and applies the hoist brake if the gearbox shaft is running more than 10% over nominal speed. The operation of this device is not dependent on software or a micro-processor
- Fast and extra fast hoist speeds for shorter handling times.
- Two speed travel using 8:2 pole motor(s).
- Special voltages.
- One step traverse limit switches (slowdown or stop)
- Two step traverse limit switches (slowdown and stop)
- Load Indication Display
- Push button pendant on hoist
- Visual or audible overload warning.
- Second hoist brake mounted on hoist motor.
- Standby heaters on hoist and trolley motor.
- Standby heaters in control panel.
- Frequency inverter on hoist motor
- Non-standard traverse speeds



CRANE KITS

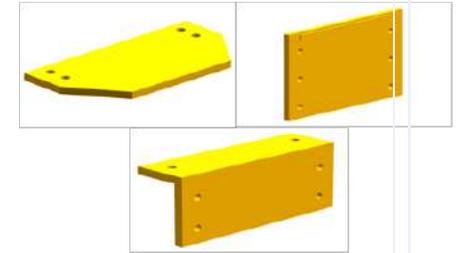
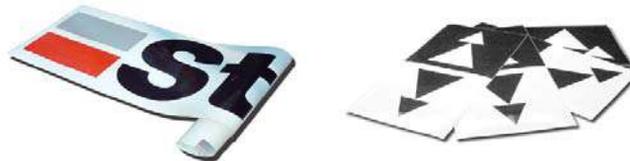
ZX Crane kits

ZX hoists can be supplied to crane builders as part of a complete crane kit with all the components required to build a crane except the crane beam(s)

The crane manufacturer has only to fabricate crane beams, assemble and paint

Street Crane Kits Comprise:

- Hoist Unit including trolley mechanism and electrical control panel
- End Trucks
- Beam Connection Plates
- Travel Drives
- Bridge Control Panel
- Push button pendant
- Cable Kit
- Fixings and Accessories



Flexible beam connection system to allow optimisation of available space

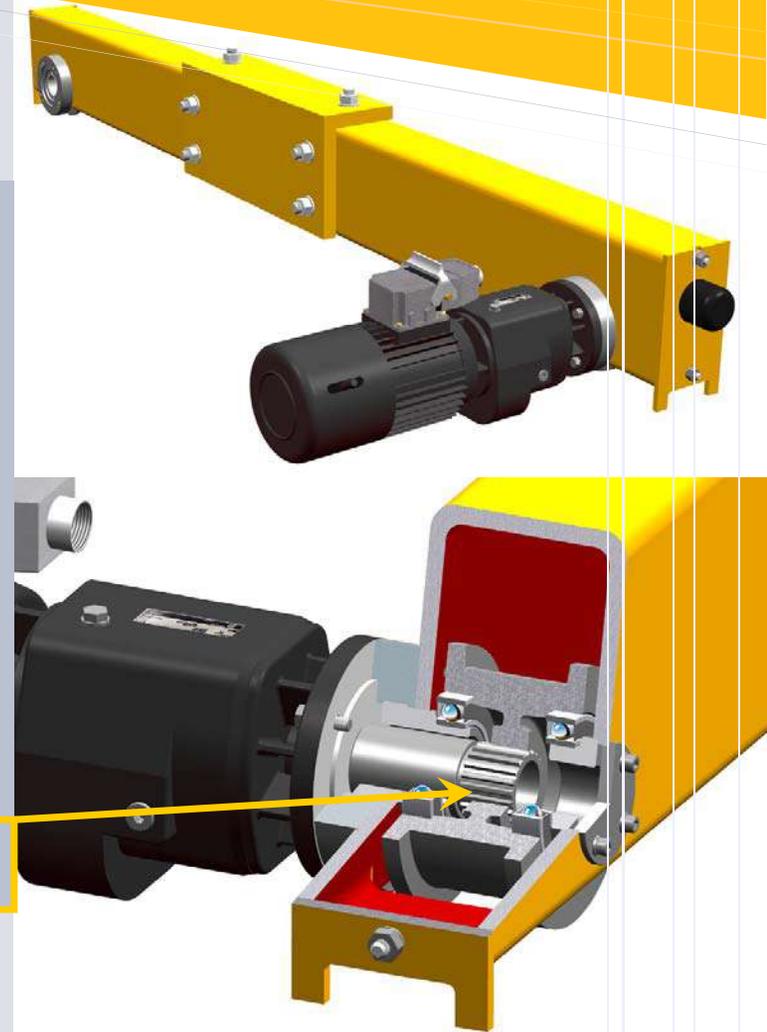


CRANE KIT end trucks

Heavy duty long traveling equipment

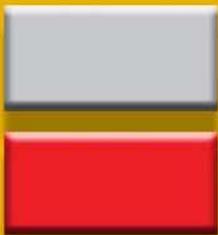
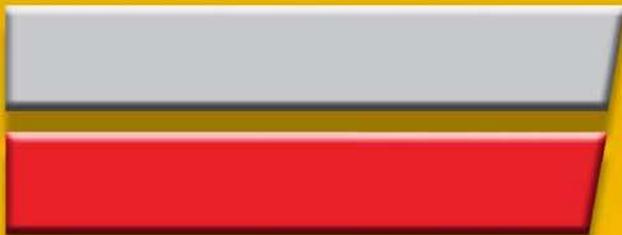
- Fully enclosed design with no exposed gears
- Heavy duty fan cooled motor with cast aluminium cooling fins for enhanced thermal capacity
- Dual speed soft starting drives
- Optional inverter controlled drives
- Automatic change over from slow to fast
- Rigid box section end trucks
- Long-life SG iron or steel wheels
- End truck machined in one setting to ensure precise geometric alignment
- High impact rubber buffers

Motor/gearbox splined adaptor shaft to transmit power to the wheels directly





The ZX range from

 **Street** 

... "the best just got better"

