



**OVERHEAD CRANES**

**JIB CRANES**

**CONSOLE CRANES**

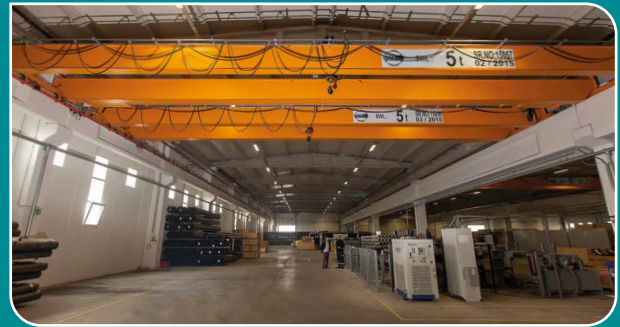
**GANTRY CRANES**

**OPEN TYPE HEAVY DUTY CRANES**

# OUR PRODUCTS



Single Girder EOT Cranes



Double Girder EOT Cranes



Wall Mounted Jib Crane



Pillar Mounted Jib Crane



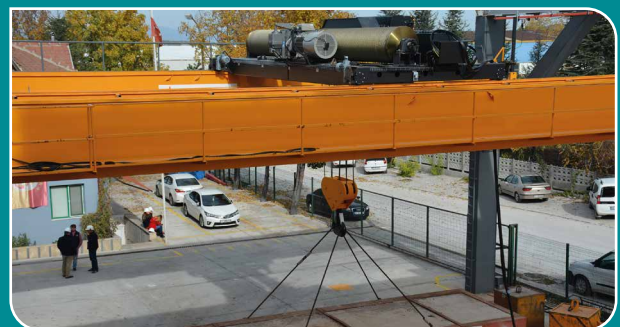
Underrunning Travelling Crane



Console Crane



Gantry Crane



Open Type Heavy Duty Crane

# SINGLE GIRDER EOT CRANES



- Loads up to 12,5 Ton (Low Headroom)
- Loads up to 40 Ton (Normal Headroom)
- Just hoist or as a crane kit
- Low lateral hook movement
- Compact installation dimensions
- Optimum approach dimensions
- 2-step or stepless cross and long travelling
- Crane Span up to 35m



## ADVANTAGE

Maximum cost effectiveness  
Optimum utilisation of space



# DOUBLE GIRDER EOT CRANES



- Loads up to 500 Ton
- Just hoist or as a crane kit
- Low lateral hook movement
- Compact installation dimensions
- Optimum approach dimensions
- Stepless cross and long travelling
- Crane Span up to 45m



## ADVANTAGE

Maximum cost effectiveness  
Optimum utilisation of space



# WALL MOUNTED JIB CRANE

- Loads up to 12,5 Ton
- Wall mounted
- Rotating degree selections up to 270°
- Manual rotating
- Motorized rotating
- Chain hoist or wire rope hoist selection for the lifting
- Arm length up to 12m



# PILLAR MOUNTED JIB CRANE

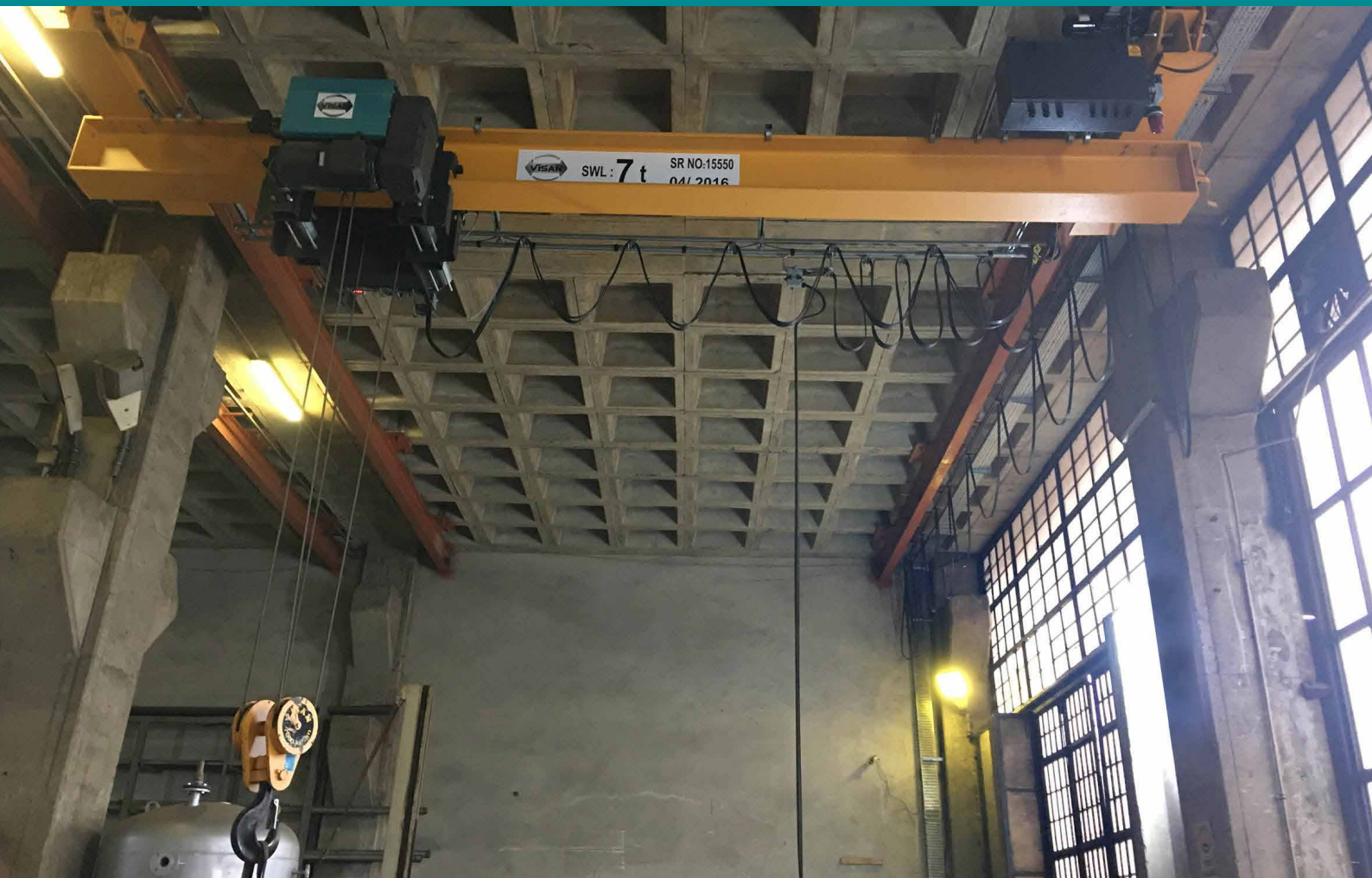
- Loads up to 63 Ton
- Pillar mounted
- Rotating degree selections up to 360°
- Manual rotating
- Motorized rotating
- Chain hoist or wire rope hoist selection for the lifting
- Arm length up to 20m



# UNDERRUNNING TRAVELLING CRANE



- Loads up to 12,5 Ton (Low Headroom)
- Loads up to 40 Ton (Normal Headroom)
- Just hoist or as a crane kit
- Low lateral hook movement
- Compact installation dimensions
- Optimum approach dimensions
- 2-step or stepless cross and long travelling
- Crane Span up to 45m



# CONSOLE CRANE



- Loads up to 12,5 Ton (Low Headroom)
- Loads up to 40 Ton (Normal Headroom)
- Just hoist or as a crane kit
- Low lateral hook movement
- Compact installation dimensions
- Optimum approach dimensions
- 2-step or stepless cross and long travelling
- Arm length up to 12m
- Have movements in 6 directions.
- Independent movements on both side of the building along the hall even if overhead cranes exist in the same hall.



# GANTRY CRANE



- Loads up to 500 Ton
- Low lateral hook movement
- Cantilever or Non-Cantilever
- Optimum approach dimensions
- Stepless cross and long travelling
- Crane Span up to 100m



## ADVANTAGE

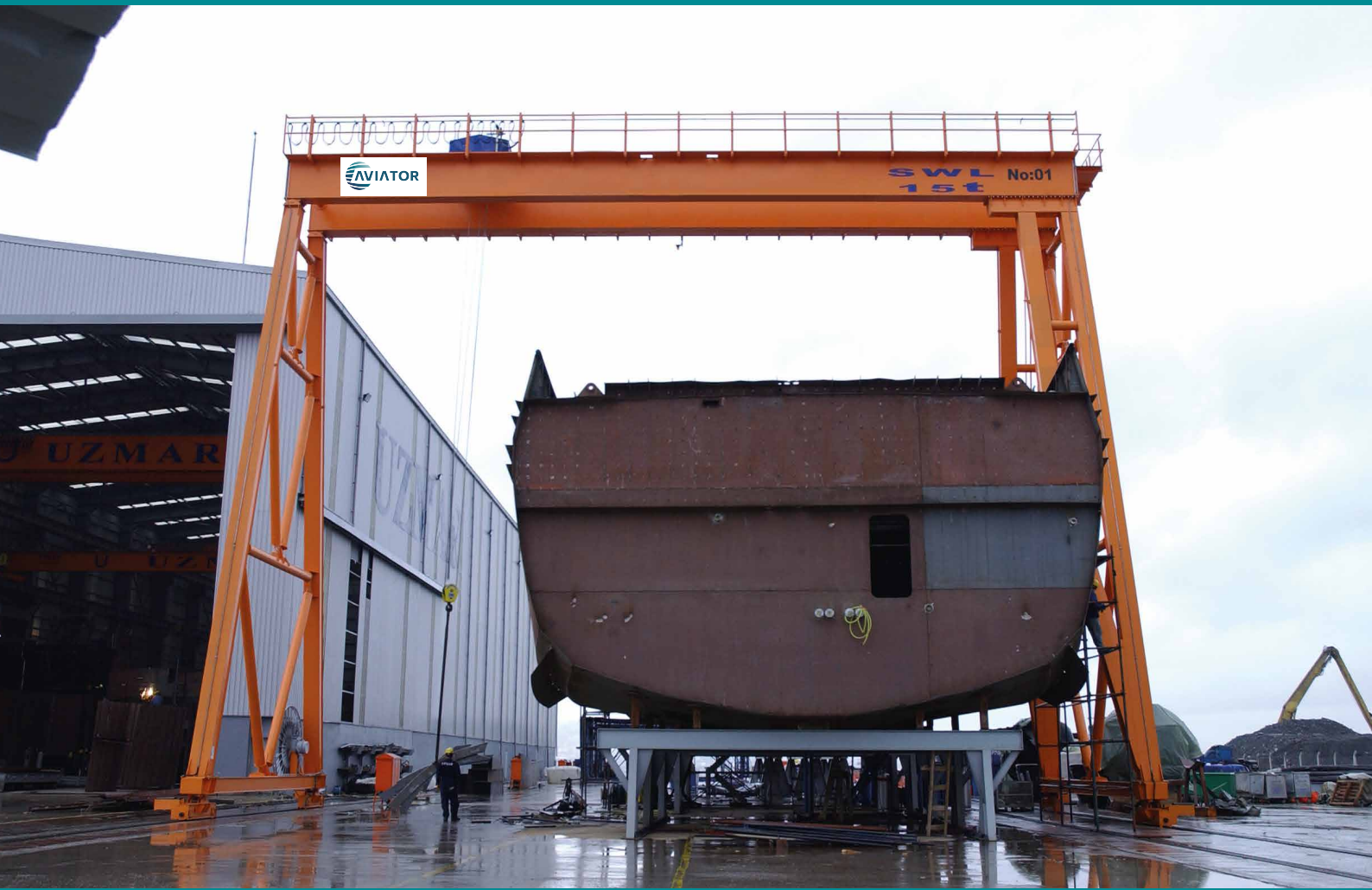
There is no need for additional building cost due to open area usage



# GANTRY CRANE



- Gantry cranes are used to lift and transport the loads around a working area in a factory, ship-building yard, road construction site, marble quarry, stock yard and metro construction site etc.



# SEMI GANTRY CRANE



- Loads of up to 40 Ton
- Low lateral hook movement
- Optimum approach dimensions
- Stepless cross and long travelling
- Crane Span up to 45m

## ADVANTAGE

Semi-Gantry Crane provides to use outdoor of the factory area, using by outdoor face of the factory wall



## Electric Wire Rope Hoists, Maximum 120 Ton

- **Optimum utilisation of space**

Compact installation dimensions and optimum approach dimensions, minimum hook dimensions

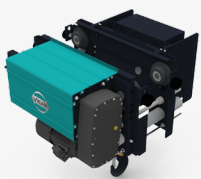
- **Precise and safe work**

Minimum lateral hook movements and low load swing thanks to smooth load movement with frequency inverters

- **Low maintenance costs**

The brake designed to extend the lifetime and the smooth cross travelling with the frequency inverter reduces material wear and tear

### Hoisting Group Types



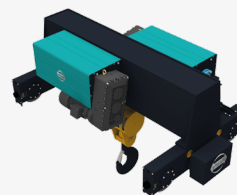
**VH L**  
Single Girder  
Low Headroom  
Max 12,5T



**VH D**  
Double Girder  
Max 80T



**VH N/S**  
Single Girder  
Normal Headroom  
Max 63T



**VH D**  
Double Girder  
Max 120T



**VH F**  
Fixed Hoist  
Max 120T

# PRODUCT RANGE

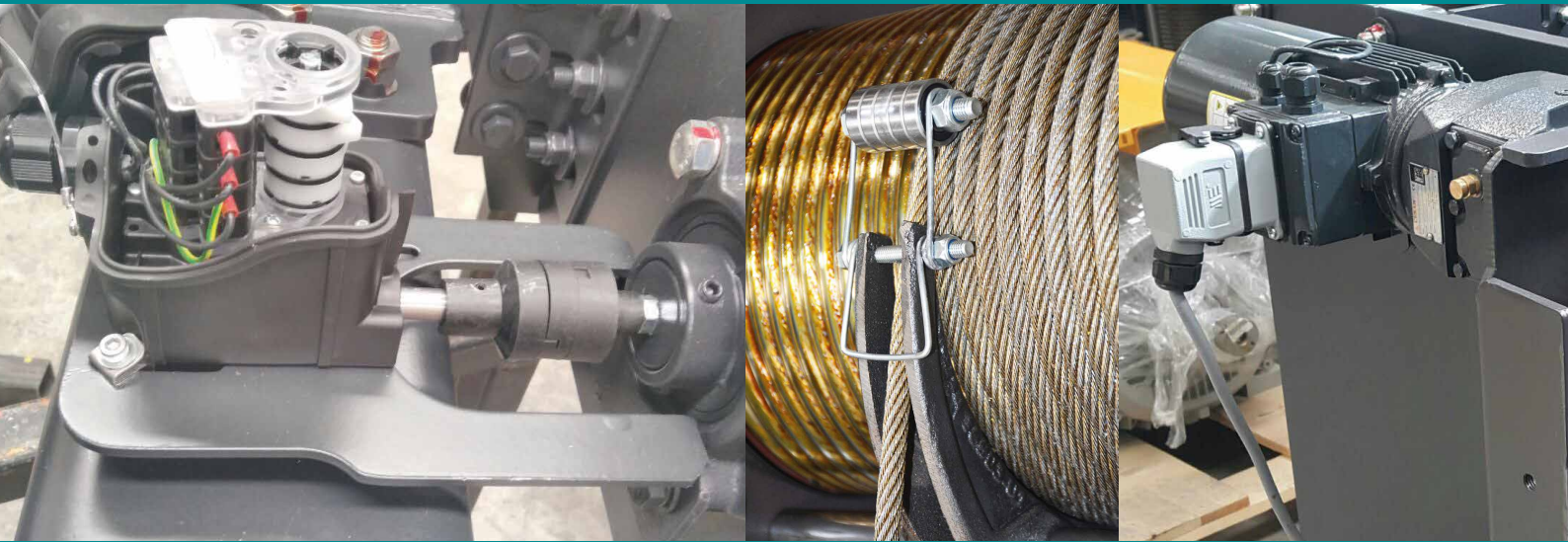
FRAME TYPE	FALL	CAPACITY (TON) / WORKING CLASS (FEM/ISO)																HOIST TYPE				Hoist Travelling speed (m/min)	Hoist Height of lifting (m)	Hoist Motor Power (kw)											
		CAPACITY (TON) / WORKING CLASS (FEM/ISO)																HOIST TYPE																	
		0.4T	0.5T	0.63T	0.8T	1T	1.25T	1.6T	2T	2.5T	3.2T	4T	5T	6.3T	8T	10T	12.5T	16T	20T	25T	32T				40T	50T	63T	80T	100T	120T	L	N	S	D	F
VH010	1/1	2*1/1	3m/M6	2m/M5	1Am/M4																						*	*	*	*	*	16/4	20/5	24-52	1.8 / 0.45
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	8/2	20/5	12-26	1.8 / 0.45
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4/1	20/5	6-13	1.8 / 0.45
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.7/0.6	20/5	4-9	1.8 / 0.45
VH020	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	16/4	20/5	24-52	4.5 / 1.1
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	8/2	20/5	12-26	4.5 / 1.1
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4/1	20/5	6-13	4.5 / 1.1
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.7/0.6	20/5	4-9	4.5 / 1.1
VH030	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	16/4	20/5	24-52	9.4 / 2.2
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	8/2	20/5	12-26	9.4 / 2.2
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4/1	20/5	6-13	9.4 / 2.2
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.7/0.6	20/5	4-9	9.4 / 2.2
VH040	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	17/2.8	20/5	24-52	12.5 / 2
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	8.5 / 1.4	20/5	12-26	12.5 / 2
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4.2 / 0.7	20/5	6-13	12.5 / 2
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.8 / 0.5	20/5	4-9	12.5 / 2
VH050	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	13.6 / 2.2	20/5	24-52	16 / 2.6
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	6.8 / 1.1	20/5	12-26	16 / 2.6
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	3.4 / 0.6	20/5	6-13	16 / 2.6
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.3 / 0.4	20/5	4-9	16 / 2.6
VH060	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	16.6 / 4.2	20/5	24-52	20 / 5
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	8.3 / 2	20/5	12-26	20 / 5
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4.2 / 1	20/5	6-13	20 / 5
	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.8 / 0.7	20/5	4-9	20 / 5
VH070	8/1	2*8/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.1 / 0.5	20/5	4-9	20 / 5
	1/1	2*1/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	20 / 5	20/5	24-52	38-Inv.
	2/1	2*2/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	10 / 2.5	20/5	12-26	38-Inv.
	4/1	2*4/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	5 / 1.2	20/5	6-13	38-Inv.
VH080	6/1	2*6/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	3.4 / 0.8	20/5	4-9	38-Inv.
	8/1	2*8/1			4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	2.5 / 0.6	20/5	4-9	38-Inv.
	10/2-T				4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	4 / 1	20/5	5-14	38-Inv.
	12/2-T				4m/M7	3m/M6	2m/M5	1Am/M4																			*	*	*	*	*	3.4 / 0.8	20/5	5-11	38-Inv.

-38kW Lifting motor is controlled by inverter as standard.  
- Visan reserves the right to change technical information without prior notice.

# OUR PRODUCTS



Perfect utilisation of space and almost vertical lifting guarantee so that work is carried out precisely and safely.



## STANDARD EQUIPMENTS

- 2-speed hoisting motors (Speed Ratio 4:1 or 6:1)
- 2-step hoisting limit switch with slow-down function
- Phase mismatch protection
- Mechanical overload protection
- Load display screen
- Thermal protection for hoisting
- Travelling machinery with frequency inverter, 2-step or stepless
- Standard 3-phase voltages 380/400/415 V 50 Hz;
- 48 V contactor control
- IP 55 protection, duty factor 60 %
- Electrical assembly and wiring in accordance with IEC standards
- Robust rope guide made of cast iron
- Ambient temperature -10°C to +40°C
- Noisy level 70dB
- IP65 control pendant with plug adapter and Emergency-Stop
- Cast Iron wheels
- Epoxy paint 60µm



## OPTIONAL EQUIPMENTS

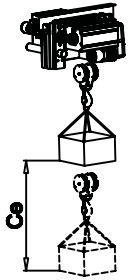
- IP65 protection for hoisting motor
- Hoisting with inverter control
- Radio remote control
- Standard 3-phase voltages 440/460/480 V 60 Hz
- External fan for hoisting motor
- Standby heating for bridge panels and motors
- Ambient temperature -20°C ...+60°C
- Rain cover
- Articulated trolley for curved track
- Lockable hook/ramshorn hook
- Cable reeling drums and more

# DETERMINATION OF THE HOIST CODES

VH	030	DS	008	DC	20	08	6/1	1	90	DN	FEM 3m																																																																																																																								
<b>Code</b>	<b>Description</b>																																																																																																																																		
<b>VH</b>	Range Type	VH Standard hoist ranges BH Open Type Heavy duty hoist ranges																																																																																																																																	
<b>030</b>	Frame Type	010 060 020 070 030 080 040 090 050																																																																																																																																	
<b>DS</b>	Lifting Speed Type	DS-Double speed DC-Double speed with inverter																																																																																																																																	
<b>008</b>	Lifting Speeds	<u>Main Speeds</u> <table border="0"> <tr> <td><u>High</u></td> <td><u>Low</u></td> <td colspan="9"></td> </tr> <tr> <td>2,7m/min</td> <td>0,65m/min</td> <td colspan="9"></td> </tr> <tr> <td>3,4m/min</td> <td>0,57m/min</td> <td colspan="9"></td> </tr> <tr> <td>4m/min</td> <td>1m/min</td> <td colspan="9"></td> </tr> <tr> <td>8m/min</td> <td>2m/min</td> <td colspan="9"></td> </tr> <tr> <td>16m/min</td> <td>4m/min</td> <td colspan="9"></td> </tr> </table> Please check the product range table to see variable speeds										<u>High</u>	<u>Low</u>										2,7m/min	0,65m/min										3,4m/min	0,57m/min										4m/min	1m/min										8m/min	2m/min										16m/min	4m/min																																																															
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<b>DC</b>	Travelling Speed Type	DS-Double speed DC-Double speed with inverter																																																																																																																																	
<b>20</b>	Travelling Speed	20m/min 32m/min																																																																																																																																	
<b>6/1</b>	Fall	<table border="0"> <tr> <td><u>Standard Drum</u></td> <td><u>Center Lifting Drum</u></td> <td colspan="9"></td> </tr> <tr> <td>1/1</td> <td>2x1/1</td> <td colspan="9"></td> </tr> <tr> <td>2/1</td> <td>2x2/1</td> <td colspan="9"></td> </tr> <tr> <td>4/1</td> <td>2x4/1</td> <td colspan="9"></td> </tr> <tr> <td>6/1</td> <td>2x6/1</td> <td colspan="9"></td> </tr> <tr> <td>8/1</td> <td>2x8/1</td> <td colspan="9"></td> </tr> </table> *Center lifting drum selection is preferred for the true lifting applications or some special applications.										<u>Standard Drum</u>	<u>Center Lifting Drum</u>										1/1	2x1/1										2/1	2x2/1										4/1	2x4/1										6/1	2x6/1										8/1	2x8/1																																																															
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<b>1</b>	Hook Type	1-Single forged hook-15401 2-Ramshorn(Double) Hook-15402																																																																																																																																	
<b>90</b>	Wheel Diameters	<table border="0"> <tr> <td>Monorail (4 wheels)</td> <td>Double Girder (4 wheels)</td> <td>Double Girder (Bogie - 8 wheels)</td> <td colspan="9"></td> </tr> <tr> <td>90</td> <td>110</td> <td>B110</td> <td colspan="9"></td> </tr> <tr> <td>125</td> <td>160</td> <td>B160</td> <td colspan="9"></td> </tr> <tr> <td>150</td> <td>200</td> <td>B200</td> <td colspan="9"></td> </tr> <tr> <td>200</td> <td>250</td> <td>B250</td> <td colspan="9"></td> </tr> <tr> <td></td> <td>315</td> <td>B315</td> <td colspan="9"></td> </tr> <tr> <td></td> <td>400</td> <td>B400</td> <td colspan="9"></td> </tr> <tr> <td></td> <td>500</td> <td>B500</td> <td colspan="9"></td> </tr> <tr> <td></td> <td>630</td> <td>B630</td> <td colspan="9"></td> </tr> <tr> <td></td> <td>710</td> <td>B710</td> <td colspan="9"></td> </tr> </table>										Monorail (4 wheels)	Double Girder (4 wheels)	Double Girder (Bogie - 8 wheels)										90	110	B110										125	160	B160										150	200	B200										200	250	B250											315	B315											400	B400											500	B500											630	B630											710	B710									
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	710	B710																																																																																																																																	
<b>DN</b>	Hoist Type	DL Double Girder Low Headroom DN Double Girder Normal Headroom DS Double Girder Swivelling Trolley DF Double Girder Fixed Trolley MN Monorail Normal Headroom ML Monorail Low Headroom MS Single Girder Swivelling Trolley MF Monorail Fixed Trolley																																																																																																																																	
<b>FEM 3m</b>	Duty Class FEM/ISO	<table border="0"> <tr> <td><u>FEM</u></td> <td><u>ISO</u></td> <td colspan="9"></td> </tr> <tr> <td>1Am</td> <td>M4</td> <td colspan="9"></td> </tr> <tr> <td>2m</td> <td>M5</td> <td colspan="9"></td> </tr> <tr> <td>3m</td> <td>M6</td> <td colspan="9"></td> </tr> <tr> <td>4m</td> <td>M7</td> <td colspan="9"></td> </tr> <tr> <td>5m</td> <td>M8</td> <td colspan="9"></td> </tr> </table>										<u>FEM</u>	<u>ISO</u>										1Am	M4										2m	M5										3m	M6										4m	M7										5m	M8																																																															
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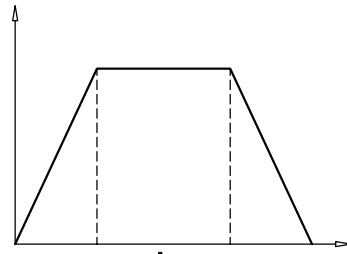
# FEM TABLE

## LIFTING HEIGHT



Ce=m  
Lifting height per process

## ALL PROCESS



Lift up-idle-lift down-stop  
Manipulation(max 10min)

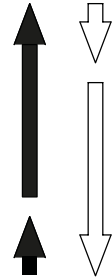
Ch=n°  
Process cycle per hour

## OPERATING TIME



Ti=h  
Operating time per day(as hour)

## LIFTING SPEED



V=m/dk  
Lifting speed per minute

After we define the duty type and operating time per day, we could select hoist/crane type according to F.E.M. Class and Capacity. Average operating time per day can define as:

$$T_m = \frac{C_e \cdot C_h \cdot T_i}{30 \cdot V}$$

### Example Calculation:

Capacity (Q) = 5000kg  
Height (h) = 4m  
Process cycle per hour (Ch) = 8  
Operating time per day(saat)(Ti) = 20  
Lifting speed(m/min) (V) = 8 m/dk  
Load spectrum = Medium  
Average operating time per day(Tm) = ? Hour

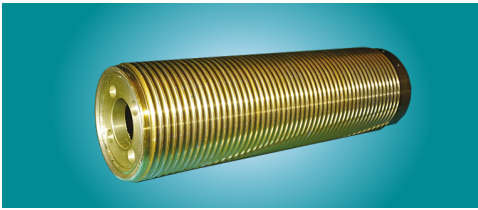
$$T_m = \frac{4 \cdot 20 \cdot 8}{30 \cdot 8} = 2,66$$

According to calculated result; you can select the FEM/ISO duty class by the following tables:

Definition of the Hoist Duty Group according to FEM / ISO						
Average operating time per day	up to 0,5h	up to 1h	up to 2h	up to 4h	up to 8h	up to 16h
Run Time Spectrum	V0,25	V0,5	V1	V2	V3	V4
Load spectrum	Light		1Bm / M3	1Am / M4	2m / M5	3m / M6
	Medium		1Bm / M3	1Am / M4	<b>2m / M5</b>	3m / M6
	Heavy	1Bm / M3	1Am / M4	2m / M5	3m / M6	4m / M7
	Very heavy	1Am / M4	2m / M5	3m / M6	4m / M7	5m / M8
Hoist Group, FEM 9.661+9.682 / DIN 15020	1Bm / M3	1Am / M4	2m / M5	3m / M6	4m / M7	5m / M8
Duty Factor ED	25	30	40	50	60	60
Max. Starts / hour s/h	150	180	240	300	360	360
Hours under full load SWP in h	400	800	1600	3200	6300	12500

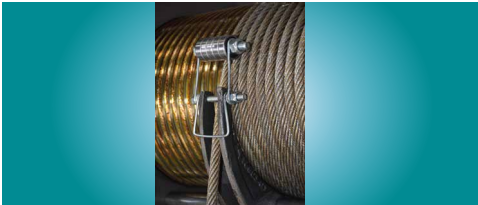
Load spectrum		
Type	Ratio	Description
Light	0% - 25%	Hoists with occasionally max. load, frequently operated with min. Load
Medium	25% - 50%	Hoists with regularly max. load, frequently operated with min. Load
Heavy	50% - 75%	Hoists with frequently max. load, frequently operated with medium load
Very heavy	75% - 100%	Hoists with regularly max. load, frequently operated with heavy load

\*\*\*Load spectrum must be selected as Heavy such as grab bucket, polyp bucket etc.



#### DRUM

- Its designed according to DIN 15020 VE FEM
- Its produced ST52 drawn steel pipe
- Precision machining by CNC C Axis



#### ROPE AND ROPE GUIDE

- Spring mechanism to prevent the loosen wire rope
- PHYTON branded German advanced technology
- Min. Breaking Load 2160N/mm<sup>2</sup>
- Compact design for hoist
- Long life wire rope
- GGG50 Cast Iron



#### HOOK

- Designed according to DIN15401/1402
- Safety latch included as standard
- 360° swivelling hook
- Hot-forging hook



#### LIFTING AND TRAVELLING MOTOR WITH PLUG AND PLAY CONNECTION

- Plug and play connection as standard
- Easy maintenance
- Safety



#### GEAR LIMIT SWITCH

- Connection is made by special balance coupling
- Its mounted directly to the drum shaft
- Up-Down limit adjustment



#### TRAVELLING LIMIT SWITCHES

- Soft start and stop (Non-impact)
- 2 Step limit switch
- Slow and stop



#### OVERLOAD PROTECTION

- Prevention system for the loosen wire rope
- High precision load control
- Overload protection
- Monitoring device



#### BRAKE

- Long life time and adjustable torque
- ABM branded advanced technology
- Min. 2,5 times more brake safety
- Electromagnetic brake
- Min maintenance cost
- 1.000.000 lifte time

# BH SERIES UP TO 500 Ton LOADS

## Open Type Heavy Duty Crane



### **Precise and safe operation**

Hoisting frequency inverter with closed loop, hoisting motor with encoder, frequency inverter controlled travelling machineries

### **Optimal usage of space and equal wheel load distribution**

Compact design and optimal approach dimensions, no horizontal hook movement

### **Various design options**

Well thought-out construction based on standardised components

### **Lower maintenance costs and short downtimes**

New hook block design with tilted sheaves for reduced rope wear, easy accessible central lubrication, just one type of hoisting motor, gear and frequency inverter per frame size

- Loads up to 500 ton
- Just hoist or as a crane kit
- Double Girder or Fixed hoisting group
- Center Lifting
- Low lateral hook movement
- Compact installation dimensions
- Optimum approach dimensions
- Stepless cross and long travelling
- Amb Conditions - 10°C... 60 ° C



# BH SERIES UP TO 500 Ton LOADS

## Open Type Heavy Duty Crane



# Frequency Inverter Control



- Accurate operation under load Low-sway action with speed adjustable to any value in the range
- Protective working Soft starting and stopping reduces stress on the gearing and wheels, thus reducing wear on the wheels and rails.
- Low maintenance costs and short maintenance times Long service life for wheels and rails and practically no wear on the brakes results in lower maintenance outlay, with drastically reduced maintenance costs and use of materials.

Advantage: Gentle operation ensures reduced wear and increased profitability.

Frequency inverter controllers for cross and long travel ensure low-sway loading process. The soft starting and braking procedures can be set for any speed and also reduce the wear on many components, such as brakes, gearing and runners.

- Frequency inverter controller offers two types of controllers: stepless (EP) and two-step (MS2).
- The supply voltages for TravelMaster inverters are 380-480V +/- 10% at 50 or 60 Hz.
- All frequency inverters are fitted with an integrated EMC filter as standard.
- Modules have six digital inputs with a control voltage of 42-230V at 50 or 60 Hz.
- Frequency inverter converters are designed for ambient temperatures of -10°C to +50°C.

# Radio Control



- **Room for manoeuvre**  
No awkward control cable, flexibility in terms of the location of the crane operator, which ensures the crane is safely controlled.
- **Robust engineering**  
Sturdy enclosure and control units, vibration protection for the receiver, long-life batteries, rapid-charging appliances with backup battery
- **Wide range of possible applications**  
Load indicated in display by means of bi-directional communication, Control by means of push buttons and joystick, operation of more than one crane/lifting gear unit, e.g. in tandem or as master/slave, and control of additional functions possible.

## Advantage: Individual control possibilities for safe and constant operation

With our Radio controllers, we offer the right product for all requirements. At the same time, the controllers linked to our CraneKit are already pre-wired, securely attached and tested for functionality on delivery

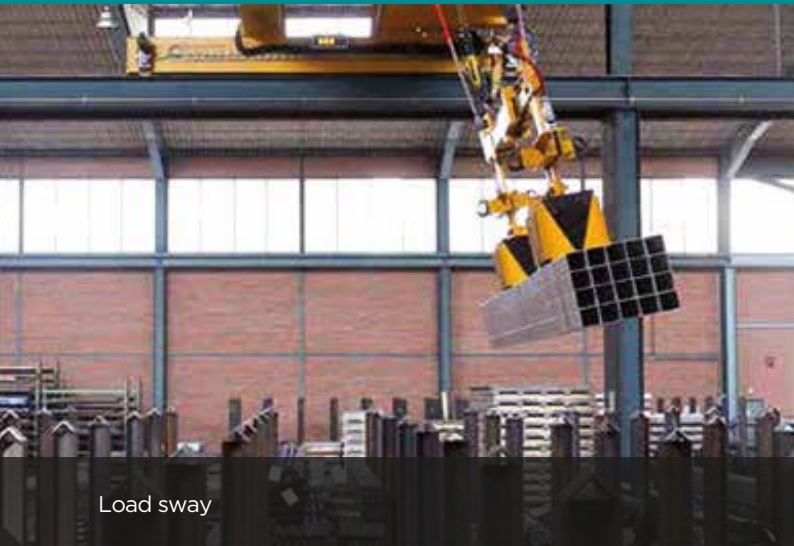
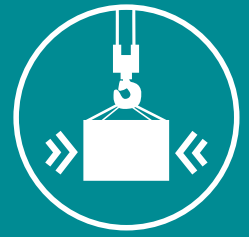
Our Radio control has been specially developed for efficient crane control without any major additional elements and represents a cost-effective solution for the user. When there are two hoists per crane, there is a selector switch integrated into the transmitter.

Radio control permits the control of additional functions, such as swivelling hooks. It is also possible for a number of cranes and lifting gear units to be controlled in tandem. Functions like master/slave operation, mutual crane locking arrangements and electronic load-sway prevention can be provided ex-works. With radio control, use is also made of push-button switches as well as joysticks.

# Sway Control



## Electronic load-sway protection



Load sway



Selector switch for entering additional sway length

The electronic Sway Control load-sway protection feature prevents harmful load peaks and therefore reduces the stress exerted on both electrical and mechanical components. This cuts the time and money spent on maintenance. The crane is easy to control and allows the load to be placed in just the right position. The crane operator can focus his concentration entirely on the load and does not have to take into consideration the cross and long travelling movements. This represents a considerable saving in time and enhances the safety of the operation in progress. Sway Control monitors all movements as well as lifting height (sway length), speed of travel and the load carried. The system uses these values to regulate acceleration and braking curves correspondingly, thus preventing sway on the load suspended.

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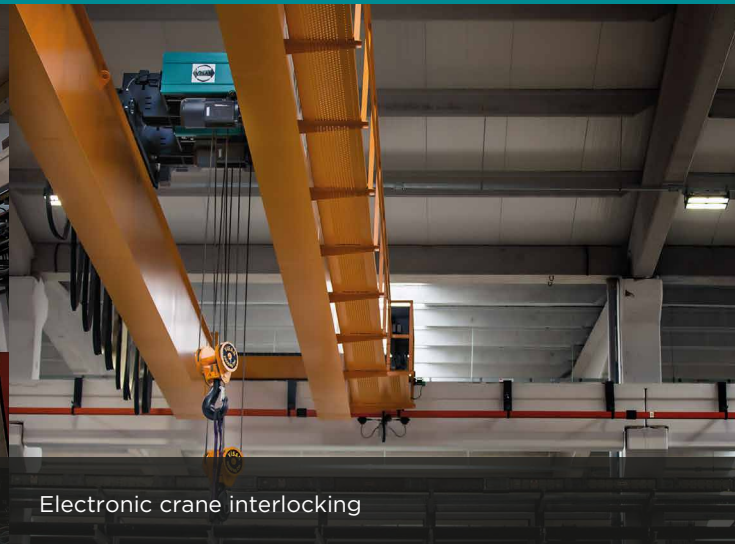
- Frequency inverter for cross and long travel
- Hoist monitoring unit
- Geared limit switch with encoder for automatic detection of current lifting height
- Central data processing unit for the individual values measured and for controlling cross and long travel via the frequency inverter
- Radio remote control with selector switch for entering additional sway length through the lifting sling currently in use
- Control light for displaying whether the system is switched on or off

# Synchronise Operation

For hoists and cranes



2 hoists in tandem operation



Electronic crane interlocking

## Simultaneous operation with two or more hoists

This system is used where loads have to be transported with more than one lifting-gear unit at the same time and delivered to an exact spot. Up to four units can be controlled by the crane operator in tandem operation at the same time. In this way the hoists start and stop at exactly the same time during the lifting and lowering process. The lifting speed is measured by encoders and is kept equal continuously between all the hoist motors. The calculated data is exchanged between the lifting units via a CANbus link in the individual frequency inverters. There is no need for a separate regulator unit.

Load sway Selector switch for entering additional sway length 2 hoists in tandem operation  
Electronic crane interlocking

- Simultaneous lifting and lowering
- Load summation
- High degree of operational safety
- Constant hook levelling
- No need to correct individual lifting units
- Rapid and accurate load carrying

## Shared use of two cranes

Where two cranes are in shared use at the same time, it is always possible for dangerous situations to arise as soon as one of the cranes involved unexpectedly slows down or stops. The electronic crane interlocking feature prevents exactly this situation. There is constant radio monitoring and exchanging of all relevant data. Relays in an additional control panel for each crane ensure that feedback messages are processed, and they handle the communication between the two systems.

The following components and functions are included in the monitoring system and therefore offer a thoroughly safe system:

- Main contactor
- Long and cross travel
- Lifting/lowering
- All travelling limit switches
- Overload safety feature
- Frequency inverter function
- Overheating protection for all motors
- Anti collision device



# SPECIAL PRODUCTION



Open Type Heavy Duty Crane

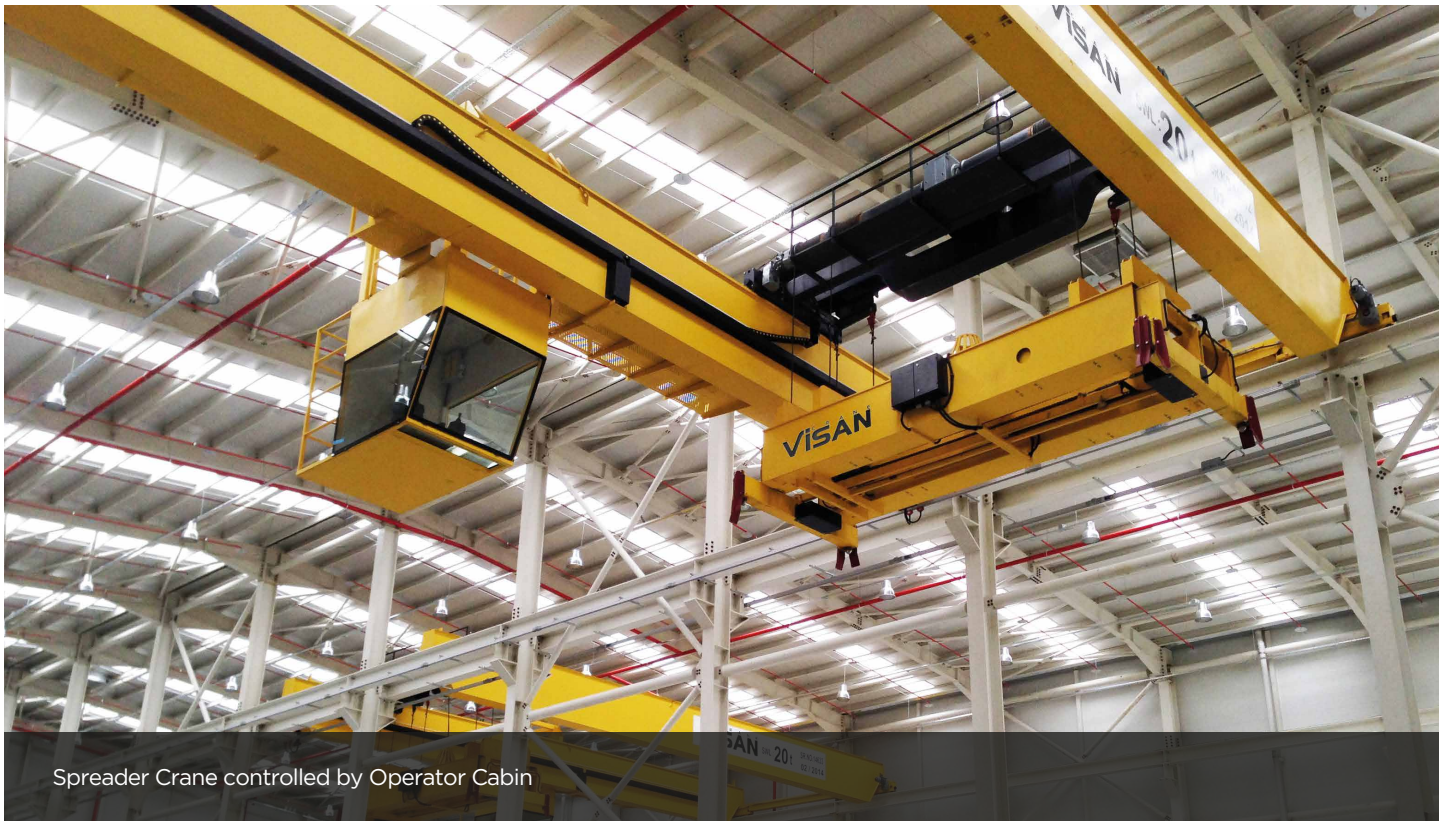


Electrohydraulic Grab

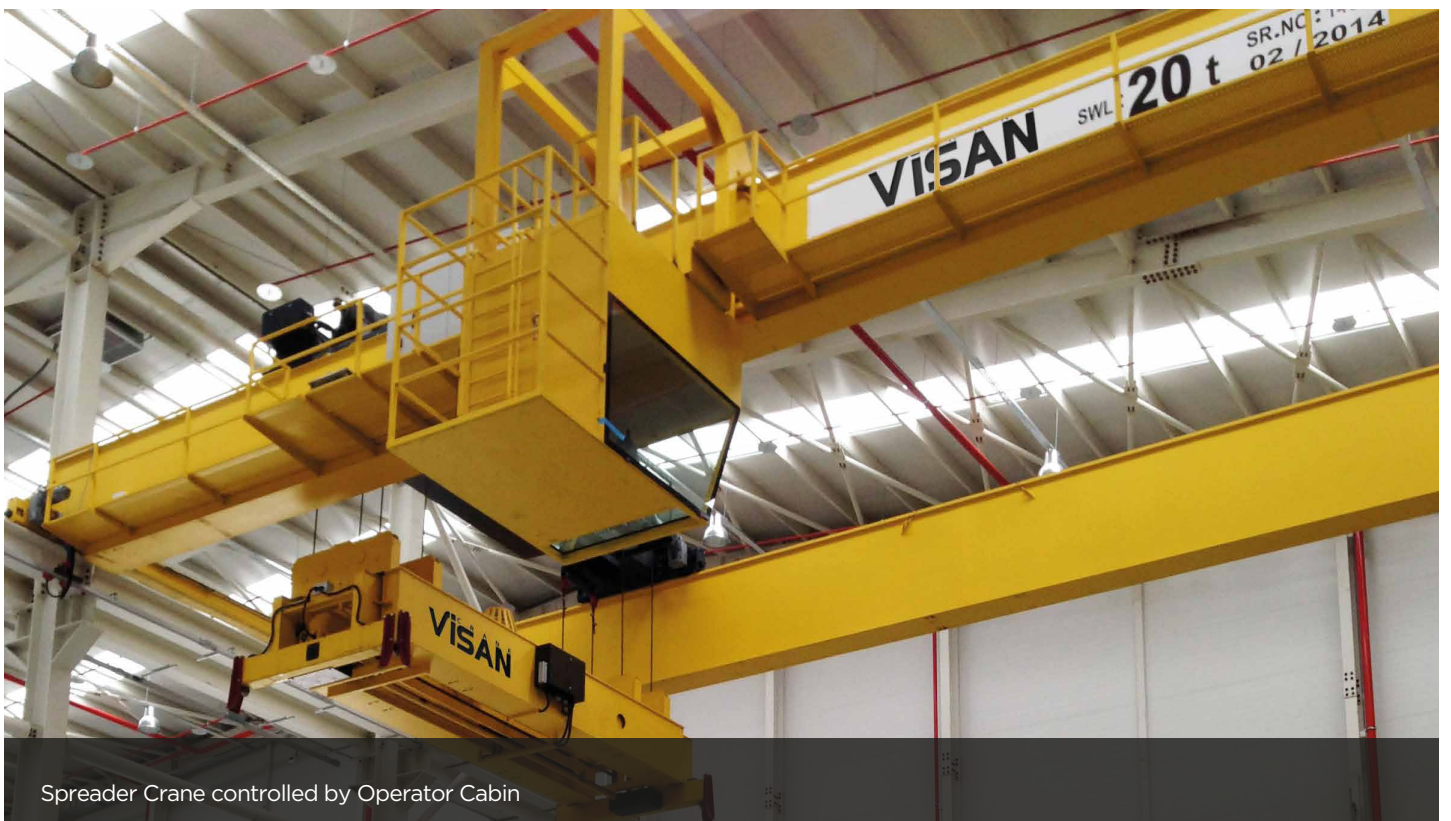


Electrohydraulic Brake (Drum Brake)

# SPREADER CRANE



Spreader Crane controlled by Operator Cabin



Spreader Crane controlled by Operator Cabin

# OUR APPLICATIONS





**GIDA MADEN PAZARLAMA VE TURİZM LİMİTED ŞİRKETİ**

**HEAD OFFİCE**

Sahrayıcedit Mh. İnönü Cd. No:12/23 Kadıköy/İstanbul,34734

T: +90 0216 350 50 40

info@aviatortr.com

W: [www.aviatortr.com](http://www.aviatortr.com)