



VALUE KING

ELECTRIC WIRE ROPE HOIST

LIFTING MOTOR

BRAKE

REDUCER

DRUM

WIRE ROPE

ROPE GUIDE



COLUMBUS MCKINNON CORPORATION

VALUE KING



Advantages:

- **Light weight, compact design, with maximum use of space**
Leading technology design ensures optimal extreme dimensions of the product, the compact steel structure minimizes the overall dimension of the hoist, requires lower plant height, and reduces investment cost for customers.
- **Accurate positioning high efficiency, improving logistics efficiency**
Strong quality lifting motor ensures safe and efficient work, increases the logistics efficiency of workshops, ensure customer requirements.
The compact steel structure design minimizes the offset of lifting hook.
- **Max Capacity: 10000kg**
- **Static load safety factor of the overall machine: 5:1**
- **Standard configuration of block limit and overload limit**
- **Beam width up to 400mm**
- **The whole machine is convenient to assemble and disassemble.**

Features:

Lifting motor

The lifting motor is a three-phase squirrel cage 2/12-stage asynchronous two-speed motor, which is directly used to start the electric hoist. Motor load duration rate was 30%, with Class F insulation and IP54 protection. Its design ensures reliable and low noise operation.

The lifting motor is a two-speed motor with high speed-low speed ratio up to 6:1, which can meet your comprehensive work requirements for accurate positioning of low-speed running and rapid lifting and landing of high-speed running, and the double lifting speed ensures precise positioning. The motor housing is made of aluminum alloy extruded profiles, with aesthetic appearance.

Brake

The electromagnetic brake is integrated at the end of the lifting motor, asbestos free, and the braking torque is 2.5 times to the motor rated torque.

Reducer

Oil-immersed gear transmission mechanism adopts three-level planetary reducing design, use of precise-processing gear and famous bearings, lifelong maintenance free for gearbox and no need of change oil. The reducer is built in the drum, saving your service space.

Drum

The design of drum is optimized, which is beneficial to the service life of rope guide and steel wire rope.

Wire rope

The high-strength lifting wire rope of GB/T8918-2006 type is used, which is made of high-quality steel, with strength up to 2160MPa, ensuring durability and good flexibility.

Rope guide

Engineering plastic rope guide is durable, wear-resistant and not easy to be damaged, preventing the floating, falling and twisting of wire rope, helping the arrangement of wire rope and ensuring operation safety while extending the service life of wire rope and drum.

Block Limit (Limit switch)

When the lower block, bearing pulley of the lower lifting hook, pressures on the upper lever, the lifting will be stopped immediately.

Overload prevention device (overload limiter)

The operators are informed of the load status with alarm ring and alarm lamp. The device in line with GB specification can detect the overload instantaneously and stop lifting operation immediately.

Hook

The standard configuration includes 360 swivel hook, which is very convenient for the handling of load.

Limiters

The upper and lower limiters are contactor control limiters located below the drum, which are space-saving and easy to install and adjust, with reliable performance.

Electric control box

Standard configuration of high quality contactor.

Product option

Pendant

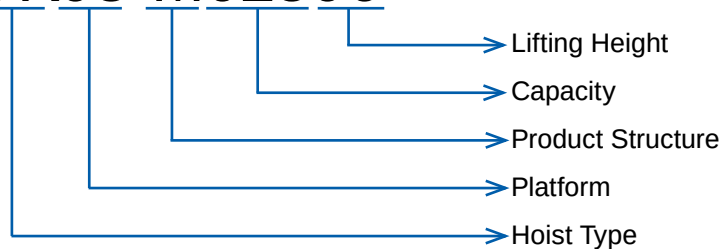
Yale Value King Wire Rope Hoist

Model	VK03		VK05		VK10	
Capacity (t)	2.5	3.2	4	5	8	10
Reeving	4/1					
Rope Diameter (mm)	7		9		12	
Lifting Height (m)	6m 9m 12m					
Lifting Speed (m/min)	7.5/1.2		7/1.2		6.5/1	
Lifting Motor (kw)	4.5/0.8		7.5/1.2		12.5/2.1	
Trolley Speed (m/min)	20					
Trolley Motor (kw)	0.4		0.8		0.4*2	
Factors of Safety	5:1					
Frequency (Hz)	50					
Voltage (V)	380/415-3-50					
Control Voltage (V)	48					
Motor Insulation	F class					
Secondary Upper Load Limiter	Standard, Micro switch structure under the drum frame					
Overload Protection	Standard, Wire rope side pressure type restrictions					
Trolley Motor	Conical rotor motor with brake function					
Minimum Turning Radius (m)	1.5(6m), 2.5(9m, 12m)		2(6m), 3(9m, 12m)		3.1	
Brand	Yale®					

*Any different from above, please consult with factory.

Complete model code sample:

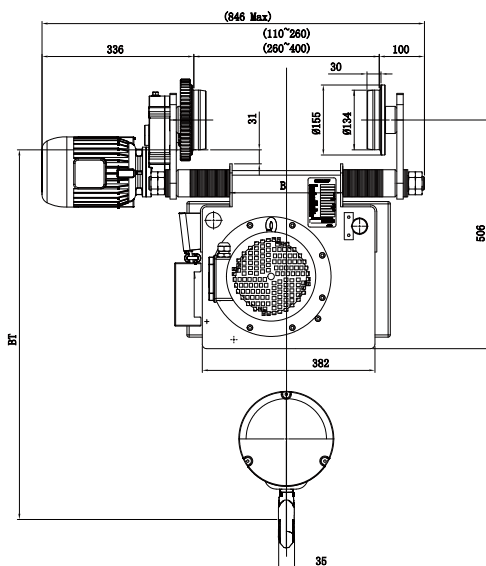
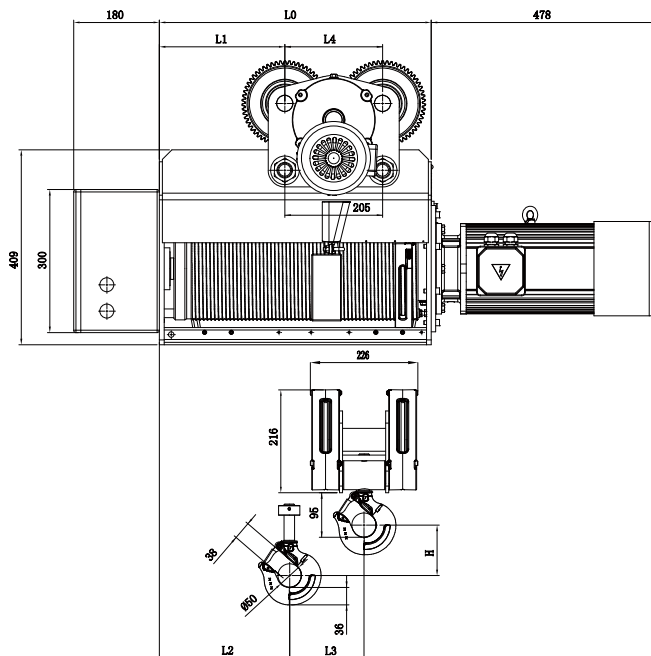
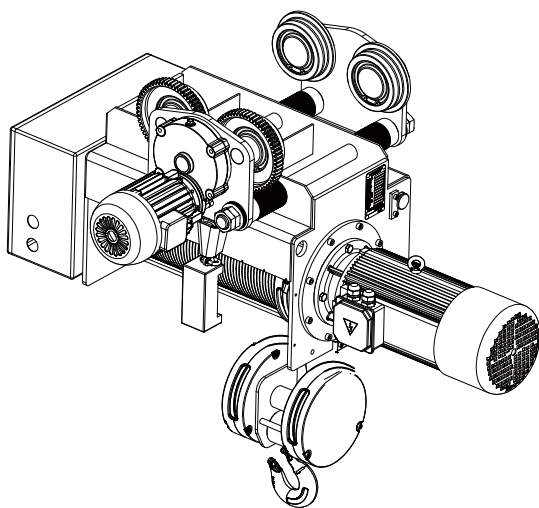
VK03-M02506



Hoist Type		Platform		Product Structure		Capacity		Lifting Height	
Symbol	Definition	Symbol	Definition	Symbol	Definition	Symbol	Definition	Symbol	Definition
VK	Value King	03	3 t	M	MONORAIL	025	2.5 t	06	6 m
		05	5 t			032	3.2 t	09	9 m
		10	10 t			040	4 t	12	12 m
						050	5 t		
						080	8 t		
						100	10 t		

Value King 2.5T, 3.2T model

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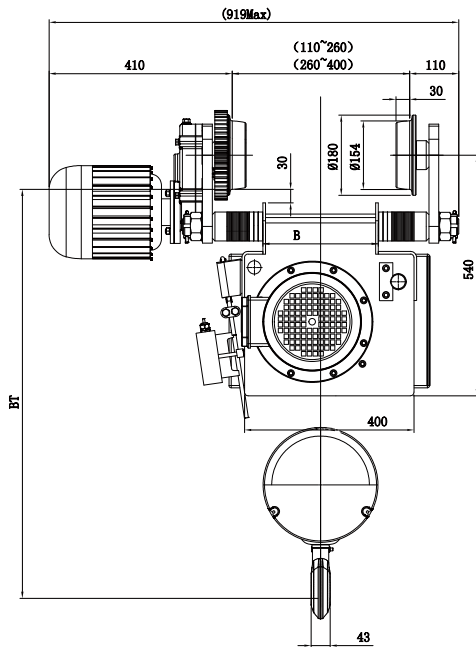
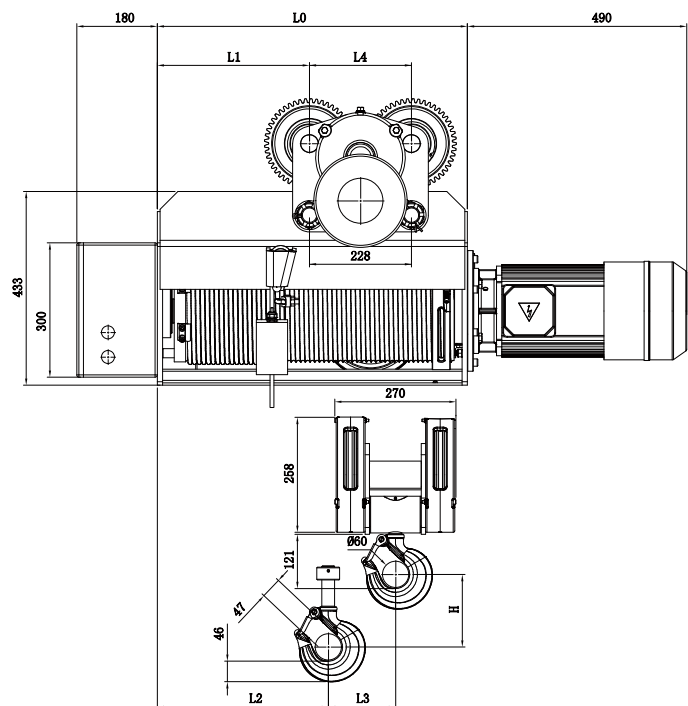
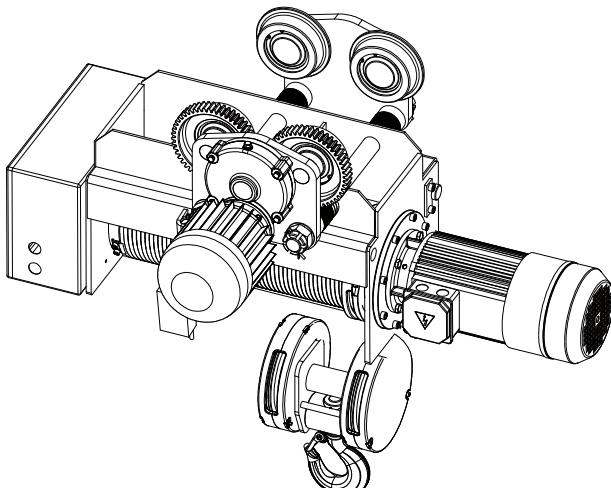
Specifications

Capacity		Kg	2500/3200		
Lifting Height		m	6	9	12
Lifting Speed		m/min	7.5/1.2		
Trolley Speed		m/min	20		
Reeving			4/1		
Voltage			380V-415V/50Hz		
Service Class		ISO	M5/M4		
Lifting Motor	power	KW	4.5/0.8		
	speed	r/min	2860/470		
Trolley Motor	power	KW	0.4		
	speed	r/min	1380		
Drum Diameter		mm	218.2		
Rope Diameter		mm	7		
Wheel Diameter		mm	134		
Net Weight		kg	260	283	293

Dimensions (mm)

Lifting Height	Beam Flange Range	L0	L1	L2	L3	L4	BT	B
H=6m	110~260	435	173	210	60	205	800	115
	260~400	435	173	210	60	205	800	250
H=9m	110~260	680	380	478	105	300	800	115
	260~400	680	380	478	105	300	800	250
H=12m	110~260	825	497	587	140	300	800	115
	260~400	825	497	587	140	300	800	250

Value King 4T, 5T Model



Specifications

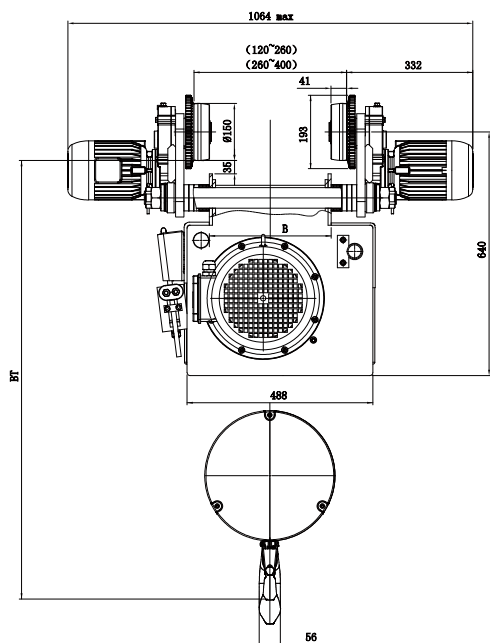
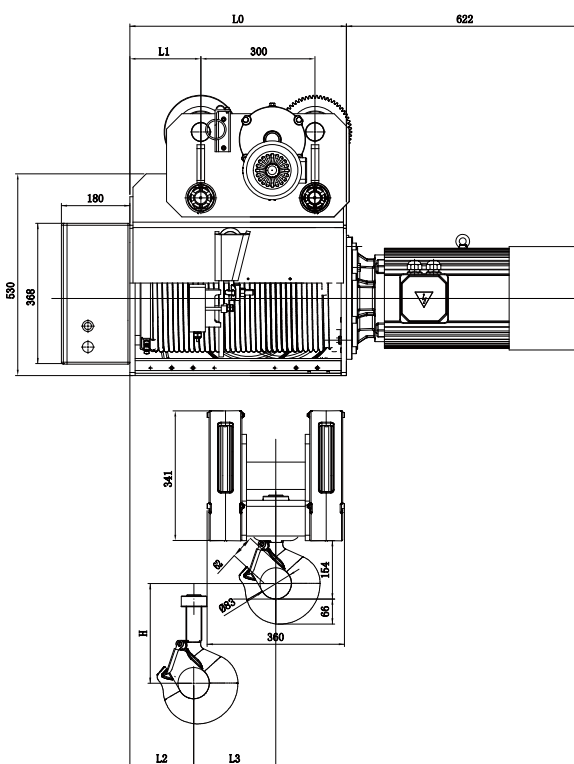
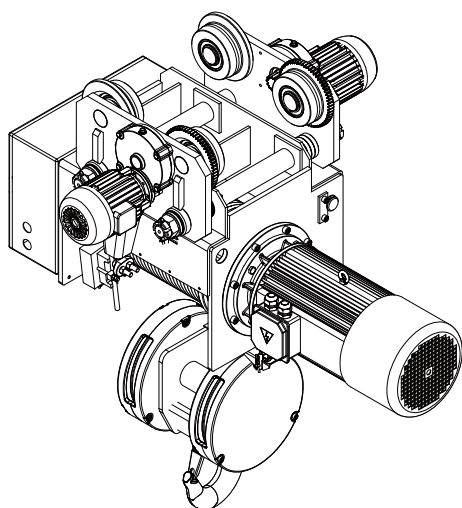
Capacity		Kg	4000/5000		
Lifting Height		m	6	9	12
Lifting Speed		m/min	7/1.2		
Trolley Speed		m/min	20		
Reeving			4/1		
Voltage			380V-415V/50Hz		
Service Class		ISO	M5/M4		
Lifting Motor	power	KW	7.5/1.2		
	speed	r/min	2860/470		
Trolley Motor	power	KW	0.8		
	speed	r/min	1380		
Drum Diameter		mm	230		
Rope Diameter		mm	9		
Wheel Diameter		mm	154		
Net Weight		kg	350	385	405

Dimensions (mm)

Lifting Height	Beam Flange Range	L0	L1	L2	L3	L4	BT	B
H=6m	110~260	518	197	238	91	228	900	135
	260~400	518	197	238	91	228	900	259
H=9m	110~260	838	521	583	135	312	900	135
	260~400	838	521	583	135	312	900	259
H=12m	110~260	1013	637	715	175	312	900	135
	260~400	1013	637	715	175	312	900	259

Value King 8T, 10T Model

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Specifications

Capacity		Kg	8000/10000		
Lifting Height		m	6	9	12
Lifting Speed		m/min	6.5/1		
Trolley Speed		m/min	20		
Reeving			4/1		
Voltage			380V-415V/50Hz		
Service Class		ISO	M5/M4		
Lifting Motor	power	KW	12.5/2.1		
	speed	r/min	2860/470		
Trolley Motor	power	KW	2*0.4		
	speed	r/min	1380		
Drum Diameter		mm	270.4		
Rope Diameter		mm	12		
Wheel Diameter		mm	150		
Net Weight		kg	585	633	663

Dimensions (mm)

Lifting Height	Beam Flange Range	L0	L1	L2	L3	BT	B
H=6m	120~260	569	186.5	256	93	1102	170
	260~400	569	186.5	256	93	1102	320
H=9m	120~260	951	568	646	143	1102	170
	260~400	951	568	646	143	1102	320
H=12m	120~260	1142	735	790	191	1102	170
	260~400	1142	735	790	191	1102	320



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