



COLUMBUS MCKINNON

Hand chain hoist model VSIII

Capacity 250 - 5000 kg

The newly designed hand chain hoist VSIII is an innovative further development introduced by Yale. The improved hand chain guide prevents canting or jamming of the hand chain, leading to a smooth running of the chain. High quality bearings on side plates, gearbox and load chain sheave ensure smooth operation of load chain and drive pinion.

Optimized hand forces set standards for easy operation.

Features

- Strong bolts between side plates and housing cover and the reinforced hand wheel cover ensure increased stability.
- Precision machined guide rollers ensure smooth running of the load chain.
- High quality bearings for gearbox, side plates and load chain sheave permit a long service life.
- Zinc-plated and yellow-chromated brake parts and guide rollers ensure increased corrosion protection.
- Zinc-plated load chain as standard for added corrosion protection.

Options

- Overload protection device
- Chain container



Load chain sheave with
needle bearing



Side plate with ball bearing



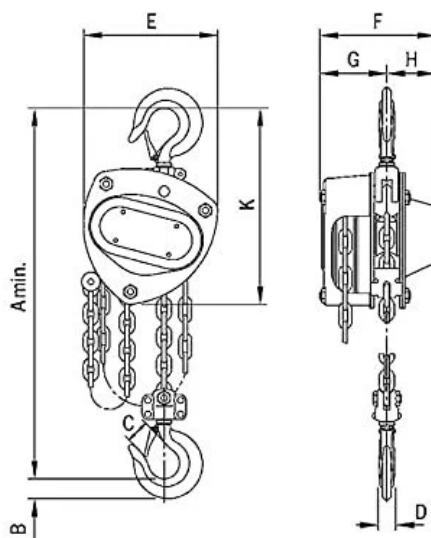
Housing cover with ball
bearing

Technical data model VSIII

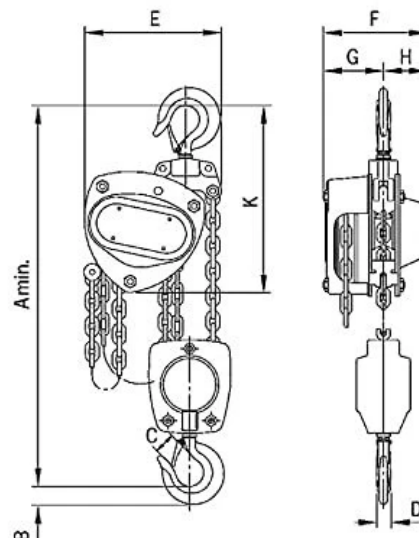
Model	EAN-No. 4025092*	Capacity in kg/ number of chain falls	Chain dimensions d x p mm	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
VSIII 0,25/1	*665322	250/1	4x12	50	20	3.9
VSIII 0,5/1	*949545	500/1	5x15	26	21	9.0
VSIII 1,0/1	*949927	1000/1	6x18	24	24	11.5
VSIII 1,5/1	*593854	1500/1	8x24	17	30	17.5
VSIII 2,0/1	*949934	2000/1	8x24	19	32	19.0
VSIII 2,0/2	*949941	2000/2	6x18	15	29	17.3
VSIII 3,0/1	*949958	3000/1	10x30	12	40	31.0
VSIII 3,0/2	*949965	3000/2	8x24	10	37	27.0
VSIII 5,0/2	*949972	5000/2	10x30	8	41	43.0

Dimensions model VSIII

Model	VSIII 0,25/1	VSIII 0,5/1	VSIII 1,0/1	VSIII 1,5/1	VSIII 2,0/1	VSIII 2,0/2	VSIII 3,0/1	VSIII 3,0/2	VSIII 5,0/2
A min., mm	290	350	380	450	460	490	570	580	700
B, mm	12	21	27	33	37	37	46	46	56
C, mm	26	28	32	37	41	41	44	44	50
D, mm	11	16	19	22	27	27	31	31	37
E, mm	118	145	158	180	205	170	240	220	250
F, mm	113	140	155	175	180	155	210	175	190
G, mm	65	80	87	85	94	87	110	94	95
H, mm	48	60	68	90	86	68	100	81	95
K, mm	190	240	270	300	320	285	370	340	410



Model VSIII, 250 - 3000 kg, single fall



Model VSIII, 2000 - 5000 kg, double fall

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.



Option: Chain container

Application advices

- Hoists must always be in perfect condition and provided with a legible identity plate.
- Prior to starting work, the hoist including load carrying devices, equipment, supporting structure and suspension must be inspected for obvious deficiencies and failures. In addition, the function of the brake and the correct attachment of hoist and load have to be checked by carrying out a short work cycle of lifting/pulling or tensioning and releasing.

- Inspect the load chain for sufficient lubrication and visually check for external defects, deformations, superficial cracks, wear or corrosion marks.

A defective chain must be replaced prior to operation of the hoist.

- Units equipped with two chain falls should be inspected for twisted or kinked chains prior to being put into operation. The chains of multiple fall hoists may be twisted if the bottom block was turned over.

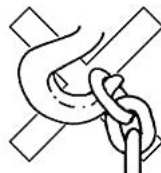


- Inspect top and bottom hooks for deformations, damage, cracks, wear or corrosion marks. A safety latch must be available and work effectively.
- Hoists with obvious defects and units which have been subject to overload or other dangerous influences have to be taken out of service and may only be operated after test and repair if so required.

- When selecting the proper product, make sure that the hoist is suitable to accept transportation, suspension, type of lashing devices and lashing points safely and without unintended movement (e.g. slipping).

- Load chains must not be used in kinked or knotted condition.

- The load must always be seated in the saddle of the hook. Never attach the load on the tip of the hook. This applies to top and bottom hooks.



- The operator must ensure that the load is attached in a manner that does not expose himself or other personnel to danger by the hoist, chain(s) or the load.
- During lifting operations the load and suspension hook of the hoist must be perpendicular to the load center to prevent pendle motion of the load.
- The operator may start moving the load only after it has been attached correctly and all personnel are off the danger zone.

- Before lifting make sure that the load can move freely.
- After lifting or tensioning, a load must not be left unattended for a longer period of time.
- Chain stops, slipping clutches etc. are overload protection devices and may not be used as regular load limiters.
- Do not throw the hoist down. Always place it properly on the ground.

Labelling (Example)

Rated capacity	Tragfähigkeit/W.L.L./Capacité 1500kg	Year of manufacture	Baujahr/Mfg. Year/Produit en 20__
Grade and dimension of load chain	Loskette/Load chain/Chaîne 8x24 T	Serial or model number	Ser.Nr./Ser.no. _____
Manufacturer or supplier	Yale	Lifting height (not mandatory)	Hubhöhe/Lift/Levée _____ m

Additional information on the plate:

- SHF: 35daN
- STF: 1500daN
- EN 12195-3
- COLEMANIS MACHINERY Ind. Products GmbH
- Yale-Allee 30
- 42209 Wuppertal/Germany
- CE mark



This user information presents a general review regarding the operation of hoisting equipment and does not substitute the existing operating instructions for the specific hoist product.

Lifting operations with hoisting equipment may be carried out by competent users (trained in theory and practice) only.

When operated correctly, our hoist products will offer the highest degree of safety in line with long life expectancy and avoid damage to the product and people.

Modification of delivery condition

Design and construction of the hoist may not be altered, e.g. by installation of outside supplied parts, bending, welding, grinding, removal of safety relevant components like locking devices, locking pins, safety latches etc.

Limitations of operation

Loading

Our hoists have been designed for lifting and transporting of loads. Some models (e.g. ratchet lever hoists) may also be used for pulling and lashing purposes, if admitted in the operating instructions. The indicated capacities refer to loading in straight line and must not be exceeded. Lifting media (e.g. lifting chain or rope) must not be slung over edges and must not be used for the attachment of the load.

Temperature

Hoists may normally be operated at ambient temperatures between -10 °C up to + 50 °C.

These values are approximate and may deviate from the specific givings of the hoist product. The accurate data are given in the current operating instructions. Special models are available on request for higher or lower temperature ranges.

Attention: At temperatures below 0 °C the brake should be checked for freezing. (Check lifting function prior to starting work and refer to "Inspection prior to initial operation").

Shock loading

The indicated capacities are based on shock-free loading of the hoist. Light bumps as occurred during lifting and lowering as well as transporting of load are admitted. Heavier shock loadings, e.g. falling of the load, are strictly forbidden.

Chemicals

Hoists and attachments may not be operated without hesitation in the area of chemicals or chemical vapours – consult our specialists for advice. Hoists which have been subject to chemicals or vapours must be taken out of service and inspected by us.

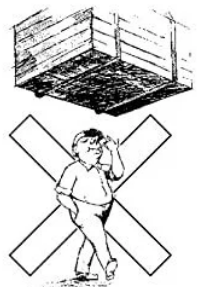
Transport of people

Transport of people with hoisting equipment is generally forbidden! Transport of people may only be carried out with specially authorized products (e.g. Yaletrac, Mtrac).

Operation in danger zones

Lifting or transport of loads must be avoided while personnel are in the danger zone.

People are not allowed to pass over or under a suspended load.



Electrical hazards

Load carrying hoist components (e.g. load chain) must not be subject to electric current and must never be used as a ground connection during welding. Further electrical hazards, e.g. with powered hoists, are indicated in the specific operating instructions!

Electric connections may only be performed by authorized persons resp. companies.