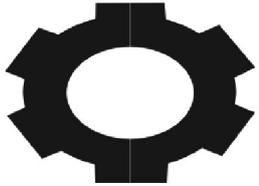


# LIFTKING SERIES

## IN PARTNERSHIP WITH

ELECTRIC CHAIN HOISTS  
& MOTOR TROLLEYS



# AKEENAH GROUP LTD

Industrial Tools & Service provider

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LME Reg. 598

A MEMBER OF THE:

# KiNG

PRODUCT FAMILY

## KEY FEATURES



### H-D Motor:

Made of light aluminium alloy the housing is light but strong. The cooling fins are specifically designed to ensure quick heat dissipation resulting in a 50% continuous running duty cycle.

### Housing-IP54 Rating:

The integral enclosed structure allows the hoist to operate in Chemical Plants and Electroplating factory atmospheres.

### Magnetic braking device:

The magnetic force generator is of the latest design for generating maximum magnetic force. It allows instant brake activation as soon as the electric supply power is shut off. Braking safety and effectiveness under load are assured.

### Limit Switch:

The limit switches ensure that the motor stops automatically when the load chain reaches the permissible chain travel limit in either direction.

### GR.80 alloy DAT case hardened high strength chain:

SANS 3077 & JIS B 8812 compliant.

### "SMART HOOKS":

Hot forged with ductile and high strength characteristics for maximum safety. The lower hook is designed for 360° rotation and incorporates a safety latch.

### Load Support centre frame:

The load support centre frame consists of two steel plates which are extremely strong.

### Transformer:

48V transformer provides low voltage power to the control handle and ensures operator safety against severe electric shock risk when in use.

### Electromagnetic contactors:

Extra heavy duty, high quality electromagnetic contactors ensure safe operation and very long life even under high frequency usage conditions.

### Inverse phase-sequence protecting device:

Ensures that the hoist cannot work if the power supply wiring is incorrectly connected.

### E-stop Pendant Operating Control:

Pendant control incorporates an Emergency Stop button and is IP55 rated, waterproof, light and durable.

## 0,25 - 5 TON CAPACITY

- TUV tested and certified as CE compliant.
- Optional Overload Limiter Device IP65 rated is available for all models. When fitted all models comply with EN 14492-2.
- Chain container supplied for standard lift. For longer lifts chain containers are optional extras.
- Control voltage 48V.
- Power voltages are standard: 380V + 525V 50Hz, 3 phase. Other voltages available on request.
- IP55 rated pendant control incorporates E-Stop emergency stop button.
- “Smart Hook” technology - safe, strong, ductile, forged top & under hooks yield when severley overloaded - these state of the art technology hooks do not fracture.
- Hooks & DAT heavy duty load chain are marked and certificated for traceability.
- Negative phase relay is fitted to all models as standard to prevent incorrect power supply wiring connection.



### SINGLE SPEED

Model	ECH											
	0,25-01S	0,5-01S	01-01S	01-02S	1,5-01S	02-01S	02-02S	2,5-01S	03-01S	03-02S	03-03S	05-02S
Capacity (t)	0,25t	0,5t	1t		1,5t	2t		2,5t	3t		5t	
Lifting Speed m/min	7,2	7,2	6,6	3,6	8,8	6,6	3,3	5,4	5,4	4,4	2,2	2,7
Motor Power (kw)	0,8	0,8	1,5	0,8	3,0	3,0	1,5	3,0	3,0	3,0	1,5	3,0
Rotation Speed r/min	1440											
Insulation Grade	F											
Power Supply	3P 380v & 525v											
Control Voltage	48v											
No. of Chain	1	1	1	2	1	1	2	1	1	2	3	2
Spec. of Load Chain	ø6,3	ø6,3	ø7,1	ø6,3	ø10,0	ø10,0	ø7,1	ø11,2	ø11,2	ø10,0	ø7,1	ø11,2
Net Weight (Kg)	45	47	61	49	108	115	73	115	122	131	85	151
I Beam (mm)	58-153	58-153	58-153	58-153	82-178	82-178	82-178	100-178	100-178	100-178	100-178	100-178

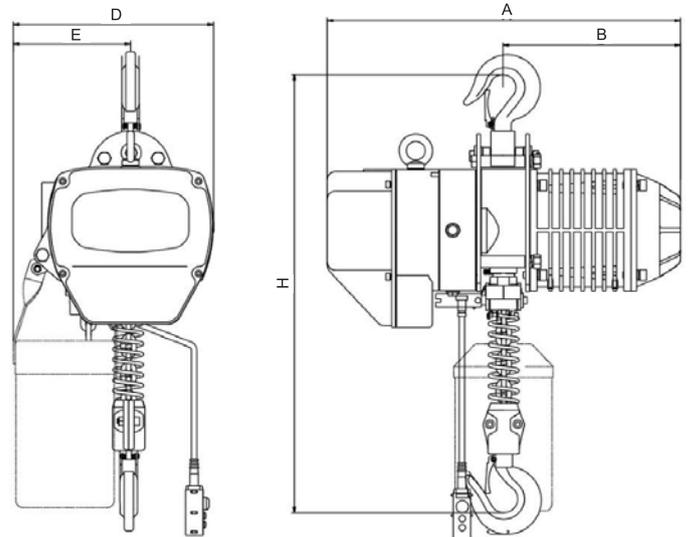
### DUAL SPEED

Model	ECH											
	0,25-01D	0,5-01D	01-01D	01-02D	1,5-01D	02-01D	02-02D	2,5-01D	03-01D	03-02D	03-03D	05-02D
Capacity (t)	0,25t	0,5t	1t		1,5t	2t		2,5t	3t		5t	
Lifting Speed m/min	7,2/2,4	7,2/2,4	6,9/2,3	3,6/1,2	9,0/3,0	6,9/2,3	3,3/1,1	5,4/1,8	5,4/1,8	4,5/1,5	2,4/0,8	2,7/0,9
Motor Power (kw)	0,8/0,27	0,8/0,27	1,8/0,6	0,8/0,27	3,0/1,0	3,0/1,0	1,8/0,6	3,0/1,0	3,0/1,0	3,0/1,0	1,8/0,6	3,0/1,0
Rotation Speed r/min	2880/960											
Insulation Grade	F											
Power Supply	3P 380v & 525v											
Control Voltage	48v											
No. of Chain	1	1	1	2	1	1	2	1	1	2	3	2
Spec. of Load Chain	ø6,3	ø6,3	ø7,1	ø6,3	ø10,0	ø10,0	ø7,1	ø11,2	ø11,2	ø10,0	ø7,1	ø11,2
Net Weight (Kg)	52	54	74	56	144	150	86	148	159	168	102	184
I Beam (mm)	58-153	58-153	58-153	58-153	82-178	82-178	82-178	100-178	100-178	100-178	100-178	100-178

**SIZE SPECIFICATION**

Model	H	A	B	D	E
ECH 0,25-01S	530	460	230	288	178
ECH 0,25-01D	530	545	260	288	178
ECH 0,5-01S	530	460	230	288	178
ECH 0,5-01D	530	545	260	288	178
ECH 01-01S	650	520	260	300	176
ECH 01-01D	650	582	280	300	176
ECH 1,5-01S	800	615	295	430	265
ECH 1,5-01D	800	670	313	430	265
ECH 02-01S	800	615	295	430	265
ECH 02-01D	800	670	313	430	265
ECH 02-02S	835	520	260	300	236
ECH 02-02D	835	582	280	300	236
ECH 2,5-01S	845	615	295	430	265
ECH 2,5-01D	845	670	313	430	265
ECH 03-01S	845	615	295	430	265
ECH 03-01D	845	670	313	430	265
ECH 03-02S	950	615	295	430	320
ECH 03-02D	950	670	313	430	320
ECH 03-03S	950	520	260	350	205
ECH 03-03D	950	582	280	350	205
ECH 05-02S	1030	615	295	430	325
ECH 05-02D	1030	670	313	430	325

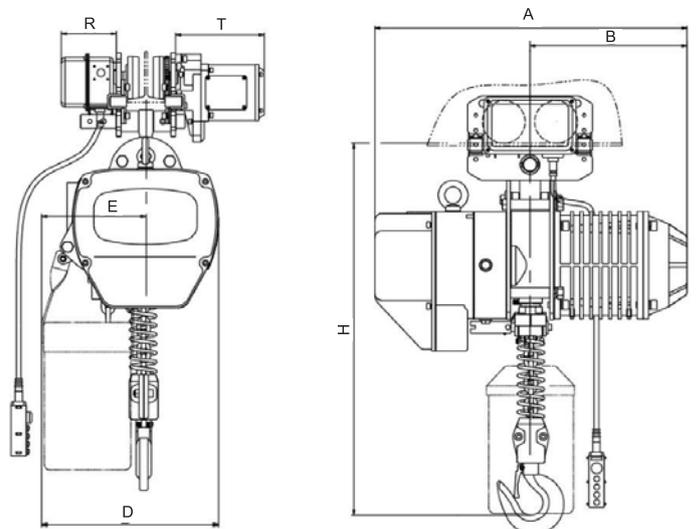
**HOIST WITH HOOK SUSPENSION**



**SIZE SPECIFICATION**

Model	H	A	B	D	E
ECH 0,25-01S	635	460	230	288	178
ECH 0,25-01D	650	545	260	288	178
ECH 0,5-01S	635	460	230	288	178
ECH 0,5-01D	650	545	260	288	178
ECH 01-01S	650	520	260	300	176
ECH 01-01D	650	582	280	300	176
ECH 1,5-01S	770	615	295	430	265
ECH 1,5-01D	770	670	313	430	265
ECH 02-01S	770	615	295	430	265
ECH 02-01D	770	670	313	430	265
ECH 02-02S	815	520	260	300	236
ECH 02-02D	815	582	280	300	236
ECH 2,5-01S	830	615	295	430	265
ECH 2,5-01D	830	670	313	430	265
ECH 03-01S	830	615	295	430	265
ECH 03-01D	830	670	313	430	265
ECH 03-02S	930	615	295	430	320
ECH 03-02D	930	670	313	430	320
ECH 03-03S	940	520	260	350	205
ECH 03-03D	940	582	280	350	205
ECH 05-02S	1015	615	295	430	325
ECH 05-02D	1015	670	313	430	325

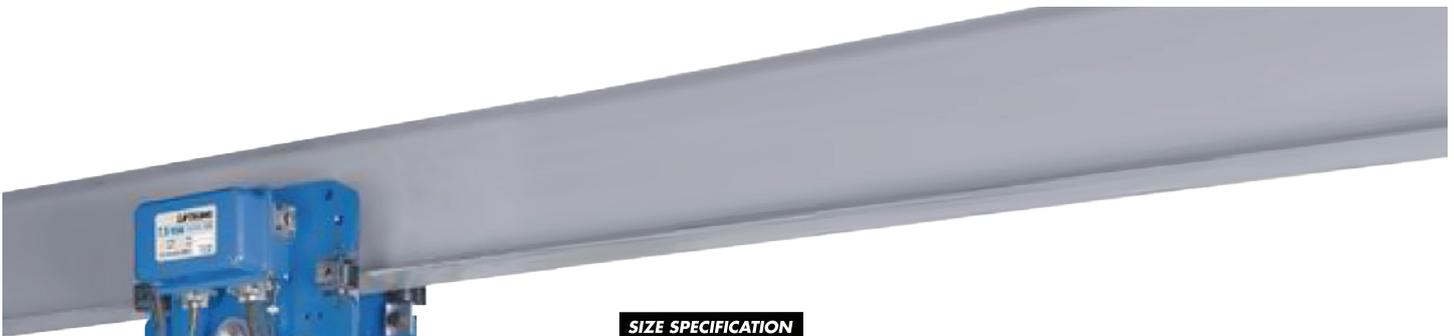
**HOIST WITH ELECTRIC TROLLEY**



**7,5 TON CAPACITY**

**TECHNICAL SPECIFICATION**

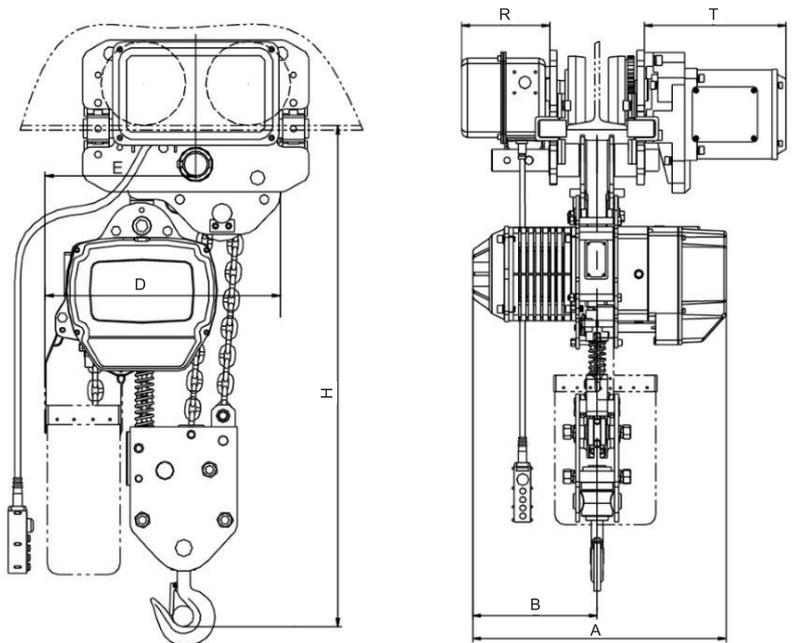
Model	ECH	
	7,5-03S	7,5-03D
Capacity (t)	7,5 t	
Lifting Speed (m/min)	1,8	1,8/06
Motor Power (Kw)	3,0	3,0/1,0
Rotation Speed (r/min)	1440	2880/960
Insulation Grade	F	
Power Supply	3P 380v & 525v	
Control Voltage	48v	
No. of Chain	3	3
Spec. of Load Chain	ø11,2	
Net Weight (Kg)	176	215
I Beam (mm)	100-178	



**SIZE SPECIFICATION**

Model	H	A	B	D	E
ECH 7,5-03S	1200	615	295	505	320
ECH 7,5-03D	1200	670	313	505	320

**HOIST WITH ELECTRIC TROLLEY**



## 10 TON CAPACITY

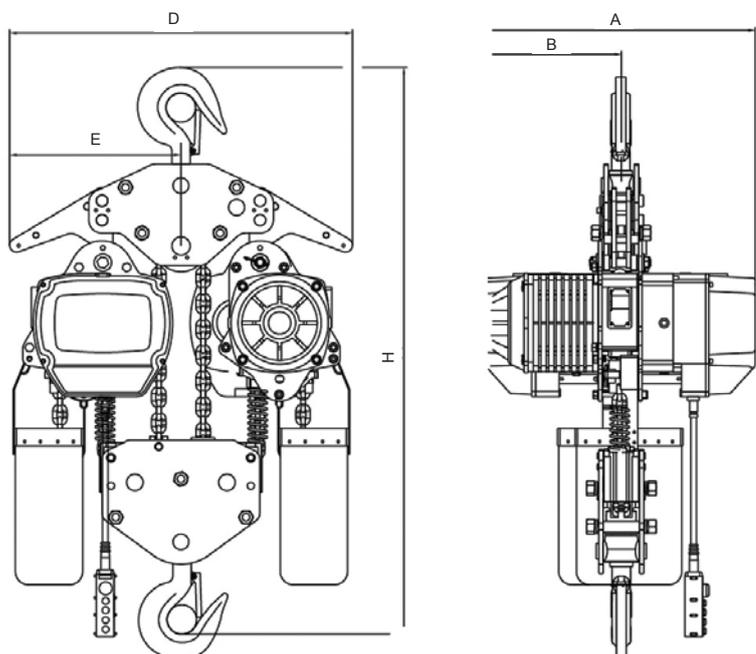
- TUV tested and certified as CE compliant.
- Optional Overload Limiter Device IP65 rated is available for all models. When fitted all models comply with EN 14492-2.
- Chain container supplied for standard lift. For longer lifts chain containers are optional extras.
- Control voltage 48V.
- Power voltages are standard: 380V + 525V 50Hz, 3 phase. Other voltages available on request.
- IP55 rated pendant control incorporates E-Stop emergency stop button.
- “Smart Hook” technology - safe, strong, ductile, forged top & under hooks yield when severley overloaded - these state of the art technology hooks do not fracture.
- Hooks & DAT heavy duty load chain are marked and certificated for traceability.
- Negative phase relay is fitted to all models as standard to prevent incorrect power supply wiring connection.



### SIZE SPECIFICATION

Model	H	A	B	D	E
ECH 10-04S	1400	630	315	890	445
ECH 10-04D	1400	670	388	690	445

### HOIST WITH HOOK SUSPENSION



## TECHNICAL PARAMETERS

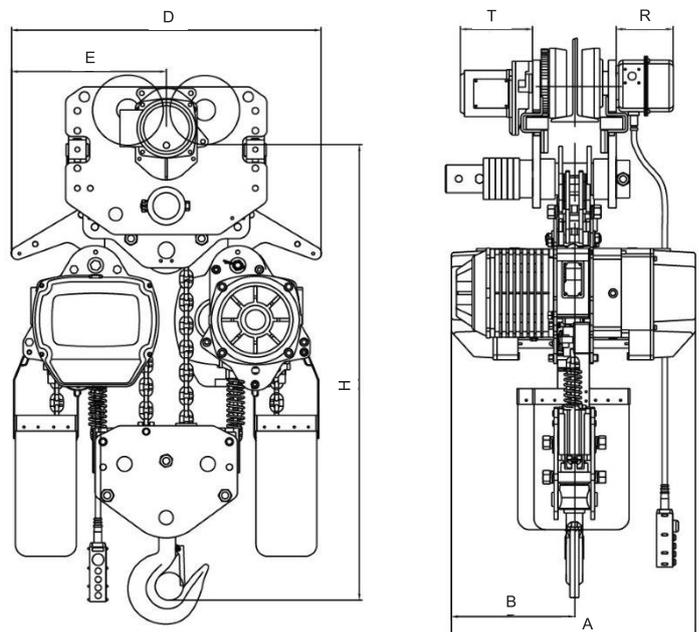
Model	ECH	
	10-04S	10-04D
Capacity (t)	10 t	
Lifting Speed (m/min)	2,7	2,7/0,9
Motor Power (Kw)	3,0x2	3,0x2/1,0x2
Rotation Speed (r/min)	1440	2880/960
Insulation Grade	F	
Power Supply	3P 380v & 525v	
Control Voltage	48v	
No. of Chain	4	4
Spec. of Load Chain	ø11,2	
Net Weight (Kg)	300	380
I Beam (mm)	150-220	



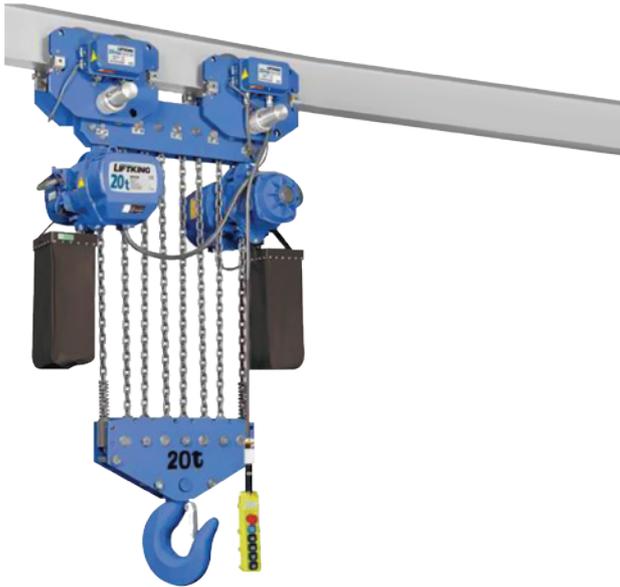
### SIZE SPECIFICATION

Model	H	A	B	D	E
ECH 10-04S	1190	630	315	890	445
ECH 10-04D	1190	670	388	890	445

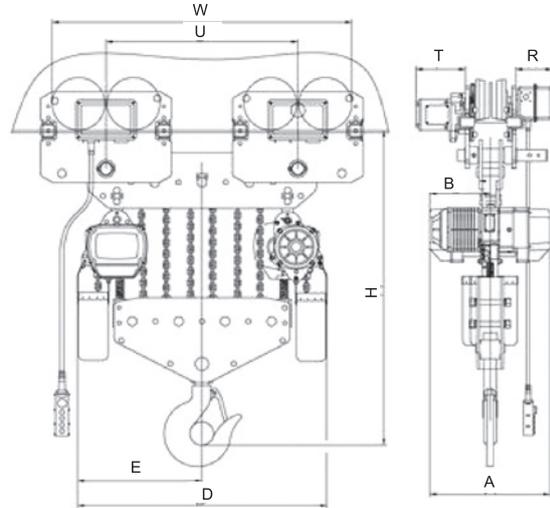
### HOIST WITH ELECTRIC TROLLEY



# 15 - 25 TON CAPACITY



## HOIST WITH ELECTRIC TROLLEY

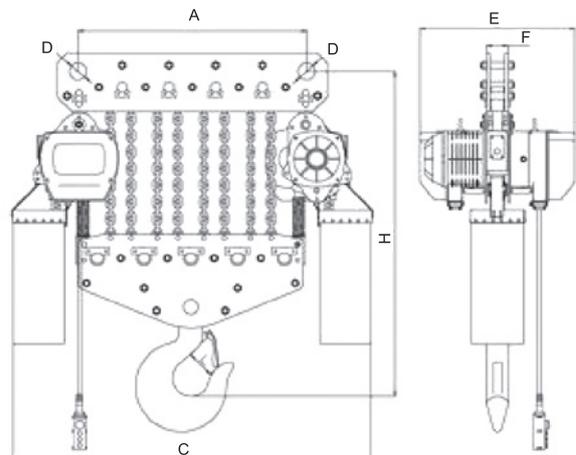


### TECHNICAL SPECIFICATION

Model	Capacity (t)	Lifting Speed (m/min)	Motor Power (Kw)	Rotation Speed (r/min)	Insul. Grade	Power Supply	Control Voltage	No. of Chains	Spec. of Load Chain	Net Weight (Kg)	I Beam (mm)
ECH 15-06S	15t	1,8	3,0x2	1440	F	3P 380v & 525v	48v	6	ø11,2	382	150-220
ECH 15-06D	15t	1,8/0,6	3,0x2/1,0x2	2880/960	F	3P 380v & 525v	48v	6	ø11,2	455	150-220
ECH 20-08S	20t	1,4	3,0x2	1440	F	3P 380v & 525v	48v	8	ø11,2	482	150-220
ECH 20-08D	20t	1,5/0,5	3,0x2/1,0x2	2880/960	F	3P 380v & 525v	48v	8	ø11,2	545	150-220
ECH 25-10S	25t	1,1	3,0x2	1440	F	3P 380v & 525v	48v	10	ø11,2	503	150-220
ECH 25-10D	25t	1,2/0,4	3,0x2/1,0x2	2880/960	F	3P 380v & 525v	48v	10	ø11,2	579	150-220



## HOIST WITH SUSPENSION FRAME



### HOIST WITH SUSPENSION FRAME

### Size Specification

Model	H	A	C	D	E	F	L
ECH 15-06S	1260	560	1070	54	630	88	95
ECH 15-06D	1260	560	1070	54	670	88	95
ECH 20-08S	1320	740	1260	70	630	88	115
ECH 20-08D	1320	740	1260	70	670	88	115
ECH 25-10S	1340	930	1460	70	630	88	115
ECH 25-10D	1340	930	1460	70	670	88	115

### HOIST WITH ELECTRIC TROLLEY

### Size Specification

Model	H	A	B	D	E	W	U	R	T
ECH 15-06S	1310	630	315	1070	535	926	560	142	231
ECH 15-06D	1310	630	388	1070	535	926	560	142	231
ECH 20-08S	1470	630	315	1260	630	1106	740	142	231
ECH 20-08D	1470	630	388	1260	630	1106	740	142	231
ECH 25-10S	1580	630	315	1460	725	1280	930	142	231
ECH 25-10D	1580	670	388	1460	725	1280	930	142	231

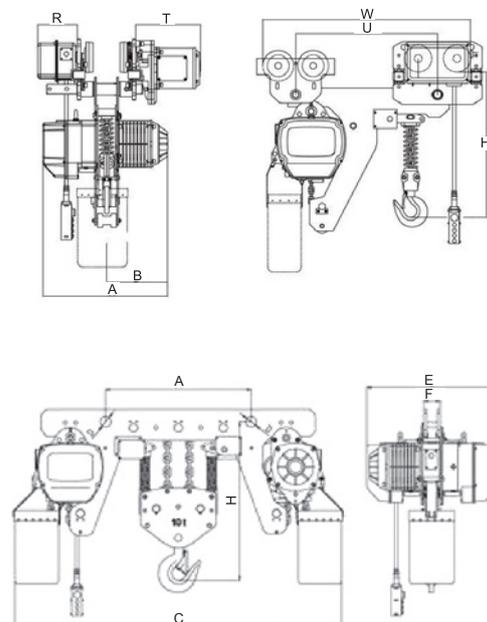
## 0,5 - 10 TON CAPACITY

### ULTRA LOW HEADROOM HOIST

Liftking Ultra Low Headroom Electric Chain Hoists are uniquely designed to have lower headroom than that of standard hoist configurations.

#### SIZE SPECIFICATION

Model	H	A	B	W	U
ECH 0,5-01L	440	460	230	585	400
ECH 0,5-01LD	400	545	260	585	400
ECH 01-01L	480	520	260	630	445
ECH 01-01LD	480	582	280	630	445
ECH 1,5-01L	570	615	295	720	505
ECH 1,5-01LD	570	670	313	720	505
ECH 02-01L	570	615	295	720	505
ECH 02-01LD	570	670	313	720	505
ECH 02-02L	535	520	260	665	445
ECH 02-02LD	535	582	280	665	445
ECH 2,5-01L	640	815	295	775	526
ECH 2,5-01LD	640	670	313	775	526
ECH 03-01L	640	615	295	775	526
ECH 03-01LD	640	670	313	775	526
ECH 03-02L	685	615	295	750	503
ECH 03-02LD	685	670	313	750	503
ECH 05-02L	740	615	295	825	541
ECH 05-02LD	740	670	313	825	541
ECH 7,5-03L	890	615	295	1020	730
ECH 7,5-03LD	890	670	313	1020	730
ECH 10-04L	850	615	295	996	700
ECH 10-04LD	850	670	313	996	700



#### SINGLE SPEED

#### Technical Specifications

Model	ECH										
	0,5-01L	01-01L	1,5-01L	02-01L	02-02L	2,5-01L	03-01L	03-02L	05-02L	7,5-03L	10-04L
Capacity (t)	0,5t	1t	1,5t	2t		2,5t	3t		5t	7,5t	10t
Lifting Speed m/min	7,2	6,6	8,8	3,3	5,4	5,4	5,4	4,4	2,7	1,8	2,7
Motor Power (kw)	0,8	1,5	3,0	3,0	1,5	3,0	1,5	3,0	3,0	3,0	3,0
Rotation Speed r/min	1440										
Insulation Grade	F										
Power Supply	3P 380v & 525v										
Control Voltage	48v										
No. of Chain	1	1	1	1	2	1	1	2	2	3	4
Spec. of Load Chain	ø6,3	ø7,1	ø10,0	ø10,0	ø7,1	ø11,2	ø11,2	ø10,0	ø11,2	ø11,2	ø11,2
I Beam (mm)	58-153	58-153	82-178	82-178	82-178	100-178	100-178	100-178	100-178	150-220	150-220

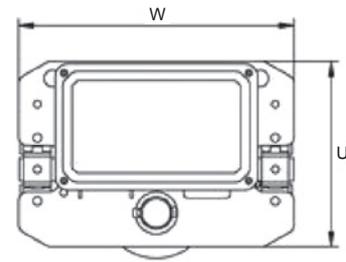
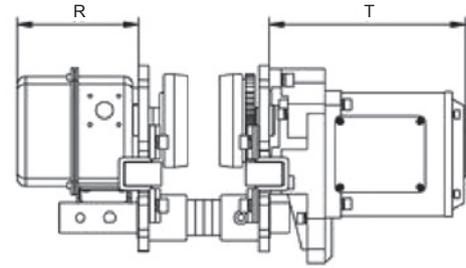
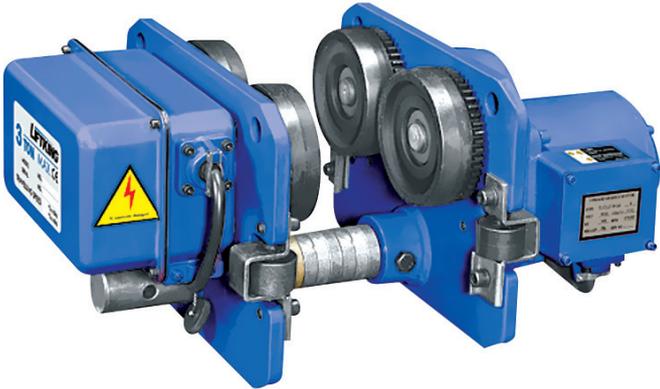
#### DUAL SPEED

#### Technical Specifications

Model	ECH										
	0,5-01LD	01-01LD	1,5-01LD	02-01LD	02-02LD	2,5-01LD	03-01LD	03-02LD	05-02LD	7,5-03LD	10-04LD
Capacity (t)	0,5t	1t	1,5t	2t		2,5t	3t		5t	7,5t	10t
Lifting Speed m/min	7,2/2,4	6,9/2,3	9,0/3,0	6,9/2,3	3,3/1,1	5,4/1,8	4,5/1,5	4,5/1,5	2,7/0,9	1,8/0,6	2,7/0,9
Motor Power (kw)	0,8/0,27	1,8/0,6	3,0/1,0	3,0/1,0	1,8/0,6	3,0/1,0	3,0/1,0	3,0/1,0	3,0/1,0	3,0/1,0	3,0/1,0
Rotation Speed r/min	2880/960										
Insulation Grade	F										
Power Supply	3P 380v & 525v										
Control Voltage	48v										
No. of Chain	1	1	1	1	2	1	1	2	2	3	4
Spec. of Load Chain	ø6,3	ø7,1	ø10,0	ø10,0	ø7,1	ø11,2	ø11,2	ø10,0	ø7,1	ø11,2	ø11,2
I Beam (mm)	58-153	58-153	82-178	82-178	82-178	100-178	100-178	100-178	100-178	150-220	150-220

## ELECTRIC MOTOR TROLLEY

- Integrated, automatic, safety braking system.
- Front and Rear Guide Rollers on Side Plates allow for smooth running, positive tracking & ant-tilt control.
- I-Beam profile wheels standard. H-Beam profile wheels are available on special order.
- Anti-drop safety brackets with rubber bump buffer.



Model	Capacity (t)	Unit (mm)				Speed (m/min)	Motor (Kw)	Minimum radius of turn	I-Beam (mm)
		W	U	R	T				
ET-0,5	0,5t	315	212	142	231	21m/min	0,4	0,8	52-153
ET-01	1t	315	212	142	231		0,4	0,8	52-153
ET-02	2t	315	212	142	231		0,4	0,8	52-153
ET-03	3t	340	250	142	231		0,75	1,0	100-178
ET-05	5t	400	291	142	231		0,75	1,5	100-178
ET-7,5	7,5t	400	291	142	231		0,75	1,8	100-178
ET-10	10t	500	371	142	231		0,75	2,0	150-220

## ELECTRIC CHAIN HOIST LOAD LIMITER - OPTIONAL



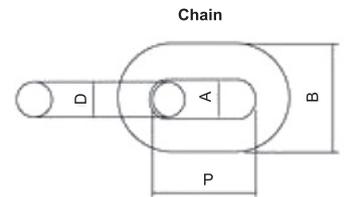
OLP LOAD LIMITER - AMPERAGE MONITORING & CONTROL TYPE.



CT TRANSDUCER

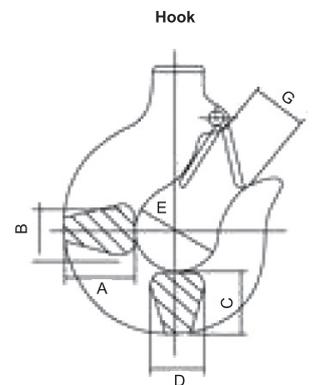
## GR.80 DAT CASE HARDENED LOAD CHAIN

Applicable Type	Diameter (mm) D	Inside Length (mm) P	Inside Width (mm) A	Outside Width (mm) B	Work Load (Kg)	Proof Load (KN)	Break Load (KN)
ECH 0,25 - 01 ECH 0,5 - 01	6,3	19	7,9	22	1120	27	47
ECH 01 - 01 ECH 02 - 02 ECH 03 - 03	7,1	21	8,9	25	1600	37	61,6
ECH 1,5 - 01 ECH 02 - 01 ECH 03 - 02	10,0	30	12,5	35	3200	76	125
ECH 2,5 - 01 ECH 03 - 01 ECH 05 - 02 ECH 7,5 - 03 ECH 10 - 04 ECH 15 - 06 ECH 20 - 08 ECH 25 - 10	11,2	34	14	39	3800	92	154



## FORGED DUCTILE "SMART HOOKS"

Type	LOAD (T)	TB	A	B	C	D	E	G
ECH	0,5	TB	27	18	25	17	35	28
	1	TB	34	24	30	24	42	32
	2	TB	46	29	39	30	49	40
	3	TB	56	35	49	34	59	48
	5	TB	67	43	57	44	60	48
	7,5	TB	82	55	80	48	85	80
	10	TB	82	55	80	48	85	80
	15	TB	110	78	120	80	120	96
20,25	TB	142	95	155	98	150	115	



\* T-upper hook/B-lower hook

Hooks are hot forged with ductile and high strength characteristics which are fracture resistant.

The lower hook is designed for smooth 360° rotation and incorporates a safety latch as does the upper hook.

**ECH 01 - 01 S**

### Suspension types

The hoists are available in three alternative suspension formats i.e. with hook suspension; hoist with manual trolley and hoist with electric trolley.

Hoist with Hook Suspension



Hoist with Manual Trolley



Hoist with Electric Trolley



### Rated Capacity

Code	Rated Capacity
0,25	250 Kg
0,5	500 Kg
01	1t
1,5	1,5t
02	2t
2,5	2,5t
03	3t
05	5t
7,5	7,5t
10	10t
15	15t
20	20t
25	25t

Code	No. of Load Chain
01	1
02	2
03	3
04	4
06	6
08	8
10	10

Code	Speed
S	Single Speed
D	Dual Speed
L	Ultra low headroom Hoist Single Speed
LD	Ultra low headroom Hoist Dual Speed

## COMPANY PROFILE

### • IMPORTERS OF LIFTING EQUIPMENT, INDUSTRIAL PNEUMATIC TOOLS & SPRAY PAINTING EQUIPMENT •

**Searle Hoist & Tool (Pty) Ltd**, a Level 4 Black Economic Empowerment company, was founded in 2005 as an importer and distributor of heavy duty, SANS & other industrial codes compliant, lifting equipment. The products are tested, proven and accepted by the mining, petro-chemical, construction, marine and general industries of Southern Africa.

The Company is a subsidiary of Edward Searle (Pty) Ltd which was originally founded in 1896, and has branches in Johannesburg, Pretoria, Durban, East London, Port Elizabeth & Cape Town with distributors throughout South & Southern Africa.

In accordance with the objectives of the Broad Based Black Economic Empowerment Act, certain of the long serving, senior male and female Previously Disadvantaged Individuals in the Searle & Sapco Divisions of Edward Searle (Pty) Ltd who have and continue to contribute to the efficiency of the business, have been recognised & appointed as shareholders and fill certain management & Director portfolios in Searle Hoist & Tool (Pty) Ltd.

**Searle Hoist & Tool (Pty) Ltd** management, sales & technical staff are highly experienced and competent in the field of lifting equipment and are longstanding members of National Regulatory bodies & Associations responsible for S.A. National Standards & Industry Codes.

Our **KiNG** registered brand of manual chain blocks & lever hoists, mining & industrial styles of pneumatic chain hoists, electric chain hoists & trolley units depicted in this brochure have been specifically designed to be safe and fit for purpose in conformance with the relevant S.A. National Standards, Mines Health & Safety Act, Occupational Health & Safety Act and recognised international standards. Quality is assured by our ISO 9001 certified International specialist manufacturers ensuring consistent and high quality products.

### QUALITY ASSURANCE CERTIFICATION TO ISO 9001:2008



SGS Reference No: EZ/2012/40009C  
**VERIFICATION OF COMPLIANCE**  
to the requirements of  
**Machinery Directive 2006/42/EC**





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