

ER2 SERIES

Engineered to endure.

The ER2 electric hoist is designed for peak performance—even on the toughest jobs in the toughest conditions. Its quiet operation and minimal vibration lowers workplace noise pollution, helps reduce worker fatigue and extends the life of the hoist. Practical durability at its best, the ER2 lets you get the job done safely and worry-free.

Smart Brake Technology

The ER2's Guardian Smart Brake has an electrical fail-safe design that uses DC current to control brake activation. The fast activation drastically reduces wear on the brake discs, preserving the correct brake gap. The result is a maintenance-free braking system with a 10-year/2,000,000 activation cycle warranty.

EXTREME-DUTY TEFC MOTOR

Equipped with thermal overload protection and cooling fins on all four sides of the motor housing, the ER2's totally enclosed fan-cooled motor (TEFC) efficiently dissipates heat, allowing for industry-leading duty ratings.

State-Of-The-Art Chain Technology

The ER2 uses Kito's world-class, super-strength chain. Its shorter and narrower link profile allows for greater surface area contact, giving it better wear resistance and overall tensile strength.

Variable Frequency Drive

Kito's 220 V and 440 V two-speed hoists come with a standard "under-the-cover" variable frequency drive. This device works by varying the power to the motor, allowing you to adjust both the high and low speeds. The VFD also adds soft-start/soft-stop operation to reduce shock loads, swing and bounce, giving you more precise load control and increasing the life of the hoist.

Count Hour Meter

The count hour meter records the hoist's starts and run time. This gives maintenance personnel an accurate record of the hoist's operating profile, letting them customize its maintenance schedule to optimize the hoist's life and improve workplace safety.



ER2 SERIES

CAPACITY

- Single Speed: 1/8 to 20 metric tonnes
- Dual Speed: 1/8 to 20 metric tonnes

STANDARDS

- CSA approved
- ASME B30.16
- ASME H4
- IP55 dust-tight and watertight
- Slip clutch to protect the hoist against over travel and overload damage

OPTIONS

- Plastic, canvas or steel chain containers
- Long lift chain container
- Lift lengths can be customized to suit requirements
- Plain, geared, or motorized trolley mount

BODY

- Die cast aluminum frame
- Completely sealed body for environmental protection
- Low headroom

GEARS

- Precision, induction-heated, durable alloy steel helical gears submersed in an oil bath

LOAD CHAIN

- Ultra-strong high-performance nickel-plated load chain, with unique short link pitch for greater resistance to fatigue and wear, and corrosion resistant
- Grade 80

CHAIN GUIDE

- Long-lasting, heavy-duty cast iron construction, easily replaced without disassembling hoist

HOOKS

- Forged carbon steel opens gradually without fracturing under excessive loads. Bottom hook swivels 360 degrees
- Self-closing top and bottom hooks with heavy-duty hook latch

CONTROLS

- Controls located on a central electrical panel
- Control Voltage: 110 volts
- Simple to operate plug-in connectors
- Adjustable, dual-speed, under-the-cover VFD (220 and 440 volt dual speed models)
- (Optional) Ergonomic Cylinder Control Ideal for repetitive tasks- available in Adjustable 2-speed (220/440 volt) Dual Speed (575 volt)

ERGONOMIC PUSHBUTTON STATION

- Impact-resistant plastic with molded strain relief to prevent damage from pulling on the push button cord
- IP65 dust-tight and watertight

BEARINGS

- High-quality, anti-friction ball and roller design

BRAKE

- DC current electromagnetic brake stays engaged until powered (Industry leading 10 year warranty)
- Minimum brake torque of 200% at full load

MOTOR

- Three phase
- Standard Voltage: 220/440/575 volts
- 60 hertz
- Class B
- Extreme duty, totally enclosed, fan-cooled (TEFC) squirrel cage
- Motor fin, fan blade and fan cover design for optimum air flow

OVERLOAD PROTECTION

- Friction clutch located in the gearbox between motor and load gear prevents damage to hoist in the event of excessive overloading

OVERTRAVEL PROTECTION

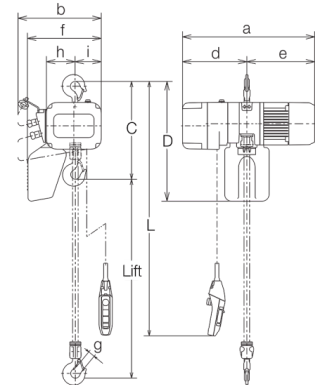
- Limit switch disables controls when load block reaches upper or lower travel limit

OPERATING CONDITIONS

- Recommended for -20° to +40° C and humidity of 85% or lower

ER2

SINGLE SPEED - 220/440/575V LUG SUSPENSION ONLY



DIMENSIONS

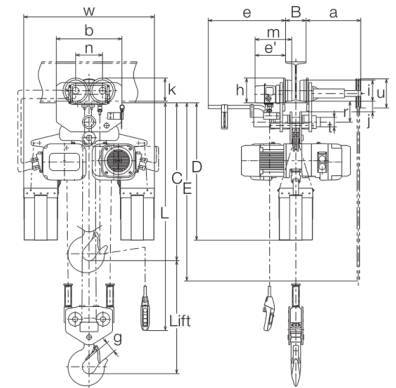
Capacity (tonne)	Model	C	D	a	b	d	e	f	g	h	i
1/8	ER2001H	350	430	478	321	219	259	260	27	99	93
1/4	ER2003S	350	430	478	321	219	259	260	27	99	93
1/2	ER2005L	370	490	513	348	242	271	283	27	113	106
1/2	ER2005S	370	490	510	348	242	268	283	27	113	106
1	ER2010L	430	550	589	376	291	298	335	31	129	118
1	ER2010S	430	550	598	376	291	307	335	31	129	118
1½	ER2015S	510	630	646	427	308	338	384.5	34	160.5	137.5
2	ER2020L	575	630	646	427	308	338	384.5	39	160.5	137.5
2	ER2020S	590	630	703	427	347	356	384.5	39	160.5	137.5
2½	ER2025S	625	840	736	445	337	399	437.5	39	173.5	142.5
3	ER2030S	835	920	703	427	347	356	397	44	216	82
5	ER2050S	910	920	736	445	337	399	439.5	47	231.5	84.5

SPECIFICATIONS

Capacity (tonne)	Model	Standard Lift (ft)	Speed (ft/min)		Hoist Motor H.P.	Headroom (in)	Rated Current (amps)			Load Chain Code	Load Chain Falls	Ship Weight (lbs)	Weight per Additional 5ft of Lift (lbs)
			Hoist Lifting	Trolley Traversing			220V	440V	575V				
7½	ER2075S	10	7.5	-----	4.7	40.3	16.4	7.9	6.2	KER2112	3	352	27.5
10	ER2100L	10	5.5	-----	4.7	53.9	16.4	7.9	6.2	KER2112	4	617	38

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SINGLE SPEED - LARGE CAPACITY - 220/440/575V GEARED TROLLEY MOUNT



DIMENSIONS

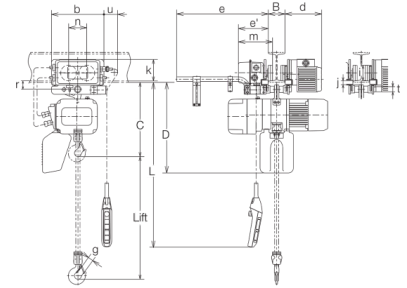
Capacity (tonne)	Model	C (mm)	D (mm)	a (mm)	b (mm)	e (mm)	e' (mm)	g (mm)	h (mm)	i (mm)	j (mm)	k (mm)	m (mm)	n (mm)	r (mm)	t (mm)	u (mm)	w (mm)
7½	ER2075S	1165	1230	372	480	531	----	61	185	155	87	171	----	196.5	153	70	214	662
10	ER2100L	1180	1210	372	480	531	----	80	185	155	77	171	----	196.5	153	70	214	718

SPECIFICATIONS

Capacity (tonne)	Model	Standard Lift (ft)	Speed (ft/min)		Headroom (in)	Load Chain Falls	Ship Weight (lbs)
			Hoist Lifting	Trolley Traversing			
7½	ER2075S	10	7.5	-----	40.3	3	352
10	ER2100L	10	5.5	-----	53.9	4	617

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DUAL SPEED HOIST - 575V SINGLE SPEED TROLLEY



DIMENSIONS

Capacity (tonne)	Hoist Model	C	D	b	d	e	e'	g	i	j	k	m	n	r	t	u
¼	ER2M003SD	375	450	315	268	515	179	27	95	22	130	205	109	51	31	83
½	ER2M005LD	395	510	315	268	515	179	27	95	22	130	205	109	51	31	83
½	ER2M005SD	395	510	315	268	515	179	27	95	22	130	205	109	51	31	83
1	ER2M010LD	435	550	315	268	515	179	31	95	22	130	205	109	51	31	83
1	ER2M010SD	435	550	315	268	515	179	31	95	22	130	205	109	51	31	83
1½	ER2M015SD	505	630	325	273	520	184	34	110	27	125	212	118	60	36	76
2	ER2M020LD	570	630	325	273	520	184	39	110	27	125	212	118	60	36	76
2	ER2M020SD	585	630	325	273	520	184	39	110	27	125	212	118	60	36	76
2½	ER2M025SD	620	830	340	274	521	186	39	125	29	131	215	132	68	43	70
3	ER2M030SD	765	900	340	274	521	186	44	125	29	131	215	132	68	43	70
5	ER2M050SD	900	910	400	281	528	192	47	140	44	145	233	150	86	54	56

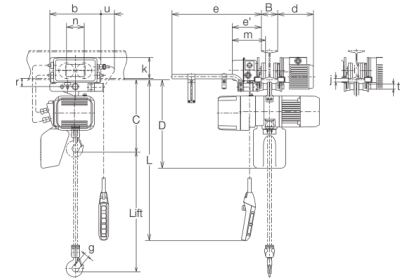
SPECIFICATIONS

Capacity (tonne)	Model	Standard Lift (ft)	Speed (ft/min)		Hoist Motor H.P.	Headroom (in)	Rated Current (amps)	Load Chain Code	Load Chain Falls	Ship Weight (lbs)	Weight per Additional 5ft of Lift (lbs)
			Hoist Lifting	Trolley Traversing							
¼	ER2M003SD	10	28/7	40	0.7/0.2	14.8	2.5/2.0	KER2043	1	145	1.4
½	ER2M005LD	10	14/4	40	0.7/0.2	15.6	2.5/2.0	KER2060	1	163	2.7
½	ER2M005SD	10	28/7	40	1.2/0.3	15.6	2.8/2.5	KER2060	1	170	2.7
1	ER2M010LD	10	14/4	40	1.2/0.3	17	2.8/2.5	KER2077	1	198	4.5
1	ER2M010SD	10	28/7	40	2.4/0.6	17	4.3/3.1	KER2077	1	203	4.5
1½	ER2M015SD	10	19/5	40	2.4/0.6	20	4.3/3.1	KER2102	1	257	8
2	ER2M020LD	10	14/4	40	2.4/0.6	22	4.3/3.1	KER2102	1	259	8
2	ER2M020SD	10	27/6	40	4.7/1.2	23	7.1/4.5	KER2102	1	308	8
2½	ER2M025SD	10	22/5	40	4.7/1.2	24.4	7.1/4.5	KER2112	1	348	9.5
3	ER2M030SD	10	17/4	40	4.7/1.2	30	7.1/4.5	KER2102	2	359	16
5	ER2M050SD	10	11/2	40	4.7/1.2	33	7.8/5.2	KER2112	2	460	19

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ADJUSTABLE 2-SPEED (VFD) HOIST - 220V, 440V

ADJUSTABLE 2 SPEED (VFD) TROLLEY



DIMENSIONS

Capacity (tonne)	Hoist & Trolley Model	C	D	b	d	e	e'	g	i	j	k	m	n	r	t	u
¼	ER2MI003IS	375	450	315	220	515	179	27	95	22	130	205	109	51	31	83
½	ER2MI005IL	395	510	315	220	515	179	27	95	22	130	205	109	51	31	83
½	ER2MI005IS	395	510	315	220	515	179	27	95	22	130	205	109	51	31	83
1	ER2MI010IL	435	550	315	220	515	179	31	95	22	130	205	109	51	31	83
1	ER2MI010IS	435	550	315	220	515	179	31	95	22	130	205	109	51	31	83
1½	ER2MI015IS	505	630	325	225	520	184	34	110	27	125	212	118	60	36	76
2	ER2MI020IL	570	630	325	225	520	184	39	110	27	125	212	118	60	36	76
2	ER2MI020IS	585	630	325	225	520	184	39	110	27	125	212	118	60	36	76
2½	ER2MI025IS	620	830	340	226	521	186	39	125	29	131	215	132	68	43	70
3	ER2MI030IS	765	900	340	226	521	186	44	125	29	131	215	132	68	43	70
5	ER2MI050IS	900	910	400	281	528	192	47	140	44	145	233	150	86	54	56

SPECIFICATIONS

Capacity (tonne)	Model	Standard Lift (ft)	Lift Speed (ft/min)		Hoist Motor H.P.	Headroom (in)	Rated Current (amps)		Load Chain Code	Load Chain Falls	Ship Weight (lbs)	Weight per Additional 5ft of Lift (lbs)
			Hoist Lifting	Trolley Traversing			220V	440V				
¼	ER2MI003IS	10	36/6	80/13	0.75	14.8	7	3.5	KER2043	1	130	1.4
½	ER2MI005IL	10	15/2.5	80/13	0.75	15.6	7	3.5	KER2060	1	143	2.7
½	ER2MI005IS	10	28/5	80/13	1.2	15.6	8.5	4.4	KER2060	1	152	2.7
1	ER2MI010IL	10	14/2.5	80/13	1.2	17	8.5	4.4	KER2077	1	172	4.5
1	ER2MI010IS	10	27/4.5	80/13	2.4	17	12.5	6.2	KER2077	1	187	4.5
1½	ER2MI015IS	10	17/3	80/13	2.4	20	12.5	6.2	KER2102	1	246	8
2	ER2MI020IL	10	14/2.5	80/13	2.4	22	12.5	6.2	KER2102	1	249	8
2	ER2MI020IS	10	27/4.5	80/13	4.7	23	20.7	10	KER2102	1	286	8
2½	ER2MI025IS	10	22/3.5	80/13	4.7	24.4	20.7	10	KER2112	1	332	9.5
3	ER2MI030IS	10	17/3	80/13	4.7	30	20.7	10	KER2102	2	341	16
5	ER2MI050IS	10	11/2	80/13	4.7	33	22.7	11	KER2112	2	440	19