



Professional cranes & hoists for lifting



Electric Chain Hoist



CHENG DAY MACHINERY WORKS CO., LTD.





Electric Chain Hoist

Product Code

U	H	D	—	5	50
U : U-MEGA	H : Hoist T : Trolley ST : Saddle Trolley LH : Low Headroom	Blank : Single Speed Only D : Dual Speed		1 : Slipping Clutch Model 2 : Single Phase Model 3 : Low Speed Model 4 : High Speed Model 5 : Heavy Duty Model	05 : 0.5 ton 10 : 1 ton 20 : 2 ton 25 : 2.5 ton 30 : 3 ton 50 : 5 ton 75 : 7.5 ton 100 : 10 ton 150 : 15 ton 200 : 20 ton 300 : 30 ton

Hoist Range

Capacity (ton)	0.5	1	2	2.5	3	5	7.5	10	15	20	30
3 Phase	Slipping Clutch	UH-105	UH-110	UH-120							
	Low Speed	UH-305	UH-310	UH-320		UH-330					
		ULH-305	UH-310	ULH-320		ULH-330					
	High Speed	UH-405	UH-410	UH-420		UH-430					
		ULH-405	ULH-410	ULH-420		ULH-430					
	Heavy Duty			UH-520	UH-525	UH-530	UH-550	UH-575	UH-5100	UH-5150	UH-5200
				ULH-520	ULH-525	ULH-530	ULH-550				
	Dual Speed	UHD-105	UHD-110	UHD-120							
		UHD-305	UHD-310	UHD-320		UHD-330					
		ULHD-305	ULHD-310	ULHD-320		ULHD-330					
		UHD-405	UHD-410	UHD-420		UHD-430					
		ULHD-405	ULHD-410	ULHD-420		ULHD-430					
				UHD-520	UHD-525	UHD-530	UHD-550	UHD-575	UHD-5100	UHD-5150	UHD-5200
				ULHD-520	ULHD-525	ULHD-530	ULHD-550				
	Single Phase	UH-205	UH-210	UH-220							

Selection Guide

To help you choose the correct U-MEGA product, please complete the following:

• Hoist

- (A) Nominal capacity : _____ tonnes/kgs
 (B) Lifting speed : _____ meters/min
 (C) Height of lift : _____ meters
 (D) Length of pendant : _____ meters
 (E) Power supply : _____ PH, _____ HZ, _____ V

• Trolley

- (A) Nominal capacity : _____ tonnes/kgs
 (B) Travel speed : _____ meters/min
 (C) Flange width : _____ mm

※ Please then select from our catalogue, the models most suitable to your requirement

Advantages



Features of 100 series

- Overload protection provided by slipping clutch.
- No limit switches nor limit switch springs to improve headroom.
- Emergency stop optional.

Features of 300~400 series

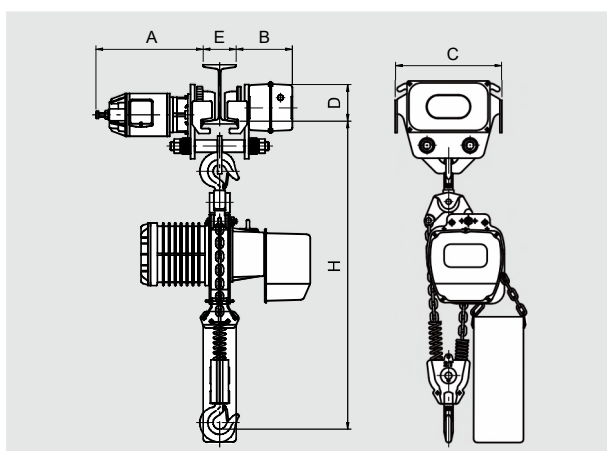
- Control voltage optional, 24V or 48V.
- Automatic motor braking system upon power failure or switching off.
- Dual braking systems.
- Negative phase detection to prevent hoist operation when incorrectly connected.
- Emergency stop optional.
- Electric overload protection optional.



Features of 500 series

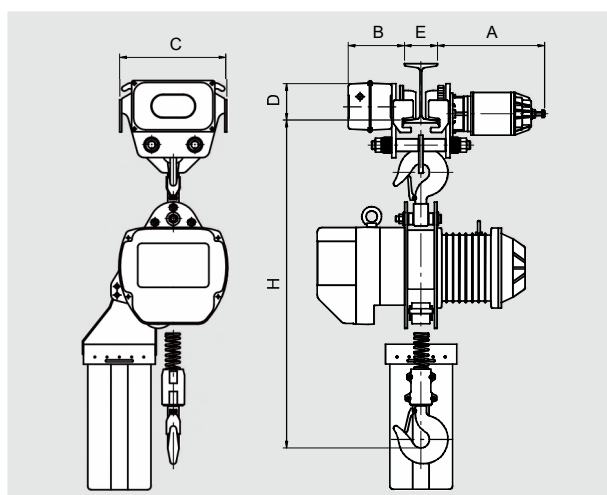
- Control voltage optional, 24V or 48V.
- Automatic motor braking system upon power failure or switching off.
- Dual braking systems.
- Negative phase detection to prevent hoist operation when incorrectly connected.
- Emergency stop optional.
- Electric overload protection optional.

Hoist with trolleys



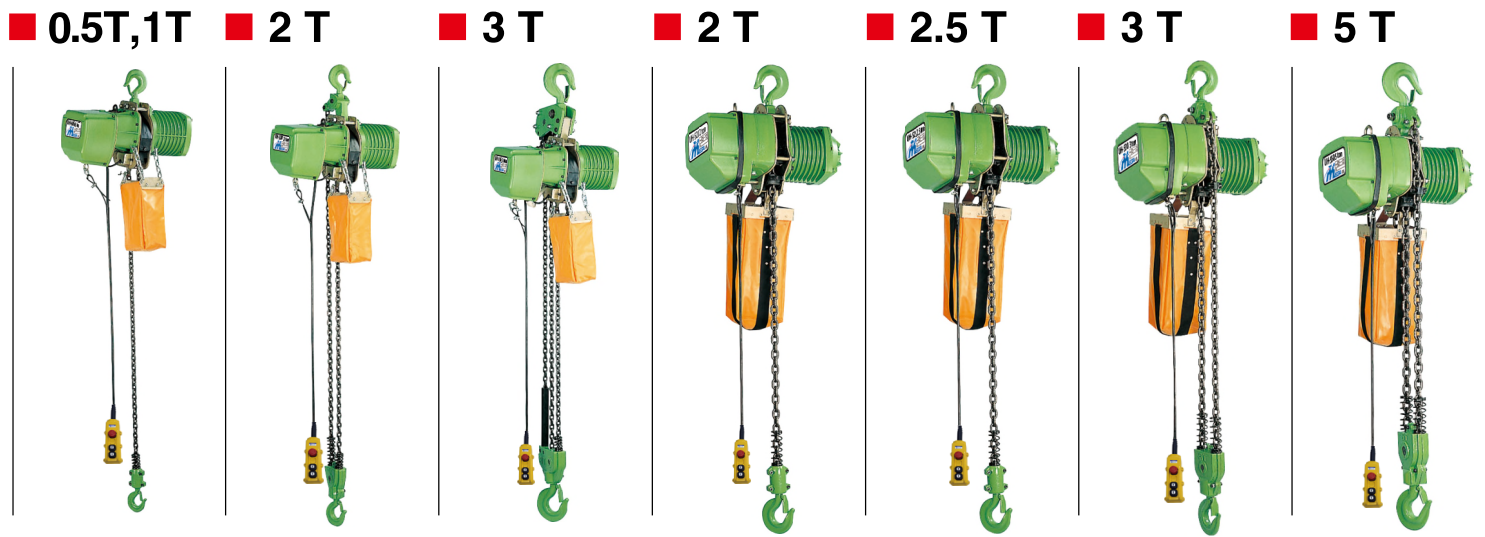
100~400 series
Hoist with trolley's dimension (mm)

Model	Capacity (ton)	H	A	B	C	D	Flange Width (E)
UHT- 105,110 205,210 305,310 405,410	0.5, 1	705	328	173	294	105	75~125
UHT- 120 220 320 420	2	935	328	173	322	119	100~150
UHT- 330 430	3	1030	368	180	356	124	125~175

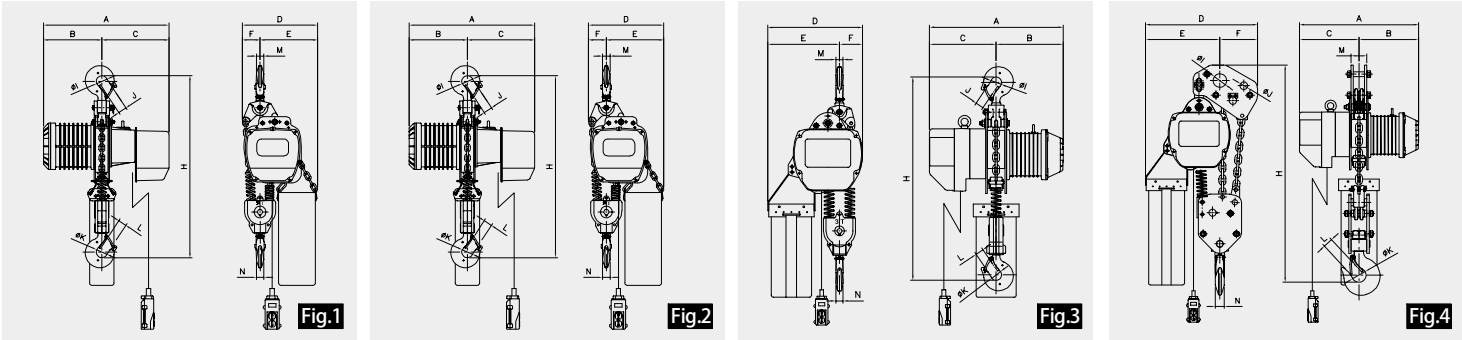


500 series
Hoist with trolley's dimension (mm)

Model	Capacity (ton)	H	A	B	C	D	Flange Width (E)
UHT-520	2	995	328	173	322	119	100~150
UHT-525	2.5	1040	368	180	356	124	125~175
UHT-530	3	1120	368	180	356	124	125~175
UHT-550	5	1200	372	184	386	134	125~175
UHT-575	7.5	1300	411	193	454	167	150~200
UHT-5100	10	1415	577	193	560	205	150~200
UHT-5150	15	1490	576	212	702	274	190
UHT-5200	20	2080	656	223	882	365	200



100-400 SERIES HOOK SUSPENSION TYPES



SPECIFICATIONS

Model	Nominal Capacity (ton)	Height of Lift (m)	Load Chain (mm)	Lifting Speed (m/min)				Motor Power		Power Supply	Duty Rating (%)	Load Chain Fall Lines	Test Load (ton)	N.W./G.W. (kg)
				50HZ		60HZ								
				Single Speed	Dual Speed	Single Speed	Dual Speed	Single Speed	Dual Speed					
UH(D)-105	0.5	3(6)	ø7.1	6.7	(6.7 / 2.2)	8.0	(8.0 / 2.7)	1.5	1.8/0.6	3Phase 220V - 600V	40	1	0.625	50.5 / 53
UH(D)-110	1			4.7	(4.7 / 1.6)	5.6	5.6/1.9	(1.8)				1	1.25	50.5 / 53
UH(D)-120	2			2.3	2.3/0.77	2.8	2.8/0.93	1.8				2	2.5	60.5 / 63
UH-205	0.5			6.7	-	8.0	-	1.8	-	1Phase 220V,230V	15	1	0.625	55 / 58.5
UH-210	1			4.7	-	5.6	-					1	1.25	55 / 58.5
UH-220	2			2.3	-	2.8	-					2	2.5	65 / 67
UH-205	0.5			5.6	-	6.7	-	1.8	-	1Phase 110V,115V	15	1	0.625	55 / 58.5
UH-210	1			3.9	-	4.7	-					1	1.25	55 / 58.5
UH-220	2			1.9	-	2.3	-					2	2.5	65/67
UH(D)-305	0.5			6.7	(6.7 / 2.2)	8.0	(8.0 / 2.7)	1.5	1.8/0.6	3Phase 220V - 600V	40	1	0.625	50.5 / 53
UH(D)-310	1			4.7	(4.7 / 1.6)	5.6	(5.6 / 1.9)	(1.8)				1	1.25	50.5 / 53
UH(D)-320	2			2.3	2.3/0.77	2.8	2.8/0.93	1.8				2	2.5	61 / 64
UH(D)-330	3			1.5	1.5 / 0.5	1.8	1.8 / 0.6	1.8				3	3.75	73 / 96
UH(D)-405	0.5			(9.2)	(9.2 / 3.1)	(11.0)	(11.0 / 3.7)	1.5				1	0.625	50.5 / 53
UH(D)-410	1			(6.7)	(6.7 / 2.2)	(8.0)	(8.0 / 2.7)	(1.8)				1	1.25	50.5 / 53
UH(D)-420	2			3.3	3.3 / 1.1	4.0	4.0 / 1.3	1.8				2	2.5	61 / 64
UH(D)-430	3			2.2	2.2/0.73	2.6	2.6/0.87	1.8				3	3.75	73 / 96

DIMENSIONS (mm)

Model	Nominal Capacity (ton)	Fig.	H	A		B		C	D	E	F	I	J	K	L	M	N
				Single Speed	Dual Speed	Single Speed	Dual Speed										
UH(D)-105	0.5	1	560	505	505	245	245	260	240	115	125	40	28	40	28	23	23
UH(D)-110	1	1	560					260	240	115	125	40	28	40	28	23	23
UH(D)-120	2	1	710					260	240	175	65	46	36	46	36	31	31
UH-205	0.5	2	595	548	-	288	-	260	240	115	125	40	28	40	28	22	22
UH-210	1	2	595					260	240	115	125	40	28	40	28	22	22
UH-220	2	2	745					260	240	175	65	46	36	46	36	31	31
UH(D)-305	0.5	2	595	505	548	245	288	260	240	115	125	40	28	40	28	22	22
UH(D)-310	1	2	595					260	240	115	125	40	28	40	28	22	22
UH(D)-320	2	2	745					260	240	175	65	46	36	46	36	31	31
UH(D)-330	3	2	880	505	548	245	288	260	280	175	105	52	40	52	40	34	34
UH(D)-405	0.5	2	595					260	240	115	125	40	28	40	28	22	22
UH(D)-410	1	2	595					260	240	115	125	40	28	40	28	22	22
UH(D)-420	2	2	745					260	240	175	65	46	36	46	36	31	31
UH(D)-430	3	2	880					260	280	175	105	52	40	52	40	34	34

■ 7.5 T

■ 10 T

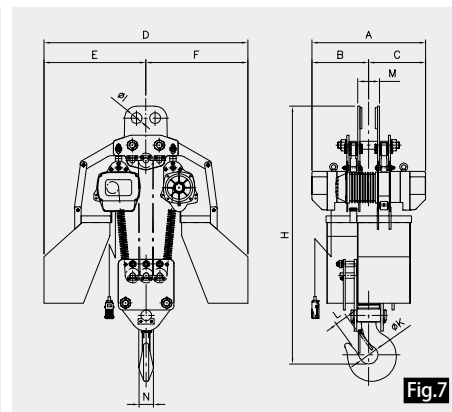
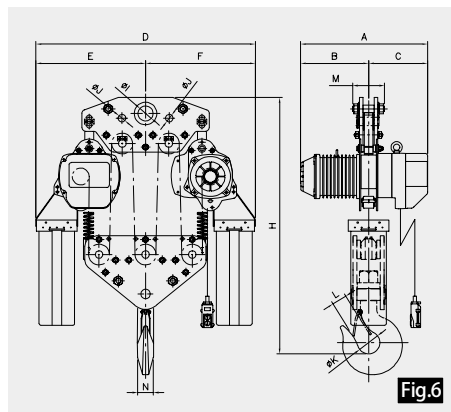
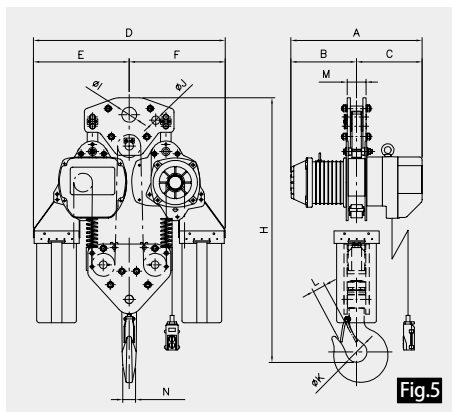
■ 15 T

■ 20 T

■ 30 T



500 SERIES HOOK SUSPENSION TYPES



SPECIFICATIONS

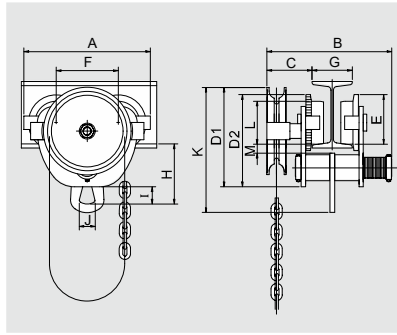
Model	Nominal Capacity (ton)	Height of Lift (m)	Load Chain (mm)	Lifting Speed (m/min)				Motor Power		Power Supply	Duty Rating (%)	Load Chain Fall Lines	Test Load (ton)	N.W./G.W. (kg)
				50HZ		60HZ								
				Single Speed	Dual Speed	Single Speed	Dual Speed	Single Speed	Dual Speed					
UH(D)-520	2	3(6)	ø10	6.6	6.6 / 2.2	7.9	7.9 / 2.6	3.7	3.7/1.2	3Phase 220V-600V	40	1	2.5	125 / 155
UH(D)-525	2.5		ø11.2	5.3	5.3/1.8	6.4	6.4/2.1					1	3.13	130 / 160
UH(D)-530	3		ø10	4.3	4.3 / 1.4	5.2	5.2 / 1.7					2	3.75	140 / 170
UH(D)-550	5		ø11.2	2.7	2.7/0.9	3.2	3.2/1.1					2	6.25	153 / 183
UH(D)-575	7.5		ø11.2	1.8	1.8 / 0.6	2.1	2.1 / 0.7	3	9.4			195 / 230		
UH(D)-5100	10		ø11.2	2.7	2.7/0.9	3.2	3.2/1.1	3.7x2	3.7/1.2x2			4	12.5	410 / 470
UH(D)-5150	15		ø11.2	1.8	1.8 / 0.6	2.1	2.1 / 0.7	5.0x2	5.0/1.7x2			6	18.75	510 / 580
UH(D)-5200	20		ø11.2	1.3	1.3 / 0.43	1.5	1.5 / 0.5					8	25	890 / 990
UH(D)-5300	30		ø11.2	0.92	0.92/0.31	1.1	1.1/0.37					12	37.5	1035 / 1135

DIMENSIONS (mm)

Model	Nominal Capacity (ton)	Fig.	H	A		B		C	D	E	F	I	J	K	L	M	N
				Single Speed	Dual Speed	Single Speed	Dual Speed										
UH(D)-520	2	3	835	640	689	326	375	314	448	278	170	52	40	52	40	34	34
UH(D)-525	2.5	3	880						448	278	170	52	40	52	40	34	34
UH(D)-530	3	3	960						448	340	108	52	40	52	40	34	34
UH(D)-550	5	3	1030						448	356	92	62	45	62	45	44	44
UH(D)-575	7.5	4	1150	679	724	365	410	433	587	388	199	72	40	75	55	83	48
UH(D)-5100	10	5	1270						970	485	485	72	40	100	70	91	64
UH(D)-5150	15	6	1365						1200	600	600	80	40	120	82	169	83
UH(D)-5200	20	7	1950	866	866	433	433	433	1746	873	873	82	-	140	105	164	93
UH(D)-5300	30	7	2000	924	924	462	462	462	1782	891	891	92	-	140	105	221	93

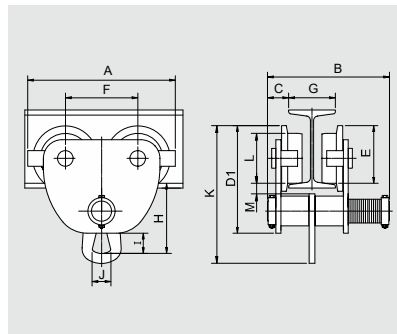
Trolley

Geared Trolley (GT)



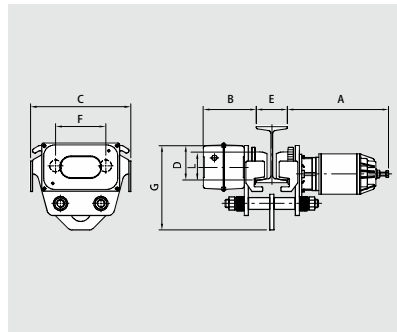
Model	Capacity (ton)	Dimensions (mm)														Min radius of curve (m)	N.W. (kg)
		A	B	C	D1	D2	E	F	G	H	I	J	K	L	M	G	
GT-050	0.5	194	266	81	150	151	69	89	115	33	28	199	60	32	50-150	1	8.8
GT-100	1	217	273	84	170	167	78	100	125	35	31	221	70	29	75-150	1	13.5
GT-200	2	247	309	91	224	207	91	116	171	55	56	301	80	31	100-175	1.3	19.8
GT-300	3	270	346	96	241	239	103	130	215	79	60	355	90	35	100-200	1.5	30.3
GT-500	5	310	350	98	235	251	117	140	218	84	60	370	100	33	125-200	1.6	37
GT-750	7.5	368	382	110	280	292	135	184	260	103	76	435	120	40	150-200	2.2	64
GT-1000	10	398	389	114	301	322	152	197	275	105	76	467	140	35	150-200	2.2	86

Plain Trolley (PT)



Model	Capacity (ton)	Dimensions (mm)														Min radius of curve (m)	N.W. (kg)
		A	B	C	D1	E	F	H	I	J	K	L	M	G			
PT-050	0.5	194	220	35	151	69	89	115	33	28	199	60	32	50-150	1	6.4	
PT-100	1	217	227	39	167	78	100	125	35	31	218	70	29	75-150	1	10.6	
PT-200	2	247	260	43	207	91	116	171	55	56	284	80	31	100-175	1.3	16.8	
PT-300	3	270	300	50	239	103	130	215	79	60	353	90	35	100-200	1.5	25.8	
PT-500	5	310	304	52	251	117	140	218	84	60	370	100	33	125-200	1.6	32.6	
PT-750	7.5	368	343	72	292	135	184	260	103	76	435	120	40	150-200	2.2	59.5	
PT-1000	10	398	350	75	322	152	197	275	105	76	467	140	35	150-200	2.2	81.4	

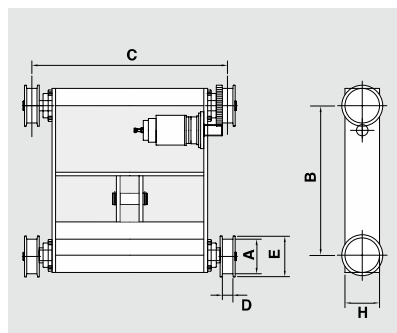
Monorail Motorized Trolley



Model	Capacity (ton)	Dimensions (mm)								Speed (m/min)		Motor (kw)	Pole (P)	Min radius of curve (m)	N.W. (kg)
		A	B	C	D	E	F	G	L	50Hz	60Hz				
UT-310	1	328	173	294	105	75-125	149	253	78	20	24.16	0.25, 0.17	4, 6	1.3	40
UTD-310										20/6.7	24/8	0.25/0.08	4/12		
UT-320	2	328	173	322	119	100-150	161	279	90	20	24.16	0.25, 0.17	4, 6	1.5	45
UTD-320										20/6.7	24/8	0.25/0.08	4/12		
UT-330	3	368	180	356	124	125-175	172	303	100	20	24.16	0.6, 0.4	4, 6	1.8	65
UTD-330										20/6.7	24/8	0.6/0.2	4/12		
UT-350	5	372	184	386	134	125-175	183	327	110	20	24.16	0.6, 0.4	4, 6	2.0	89
UTD-350										20/6.7	24/8	0.6/0.2	4/12		
UT-375	7.5	411	193	454	167	150-200	229	400	140	20	24	0.9	4	3.0	155
UTD-375										20/6.7	24/8	0.9/0.3	4/12		
UT-3100	10	577	193	560	205	150-200	278	450	160	15	18	1.5	4	3.5	218
UTD-3100		652								15/5	18/6	1.5/0.5	4/12		
UT-3150	15	576	212	702	274	190	360	574	180	12	14	1.5	4	-	350
UTD-3150		675								12/4	14/4.7	1.5/0.5	4/12		
UT-3200	20	656	223	882	365	200	416	674	250	13	15	2.2	4	-	575
UTD-3200		726								13/4.3	15/5	2.2/0.73	4/12		

UT-310~350: 50Hz uses 4P motor ; 60Hz uses 4P or 6P motor
(Please specify as ordering 6P motor)

Motor Saddle Trolley



Model	Capacity (ton)	Speed (m/min)		Dimensions (mm)						Motor (kw)	Pole (P)	N.W. (kg)
		50Hz	60Hz	A	B	C	D	E	H			
UST-310	1	20	19	120	580	700	40	147	125	0.25	4	94
USTD-310		20/6.7	19/6.3							0.25/0.08	4/12	
UST-320	2	20	19	120	580	700	40	147	125	0.25	4	94
USTD-320		20/6.7	19/6.3							0.25/0.08	4/12	
UST-330	3	18	22	150	650	850	45	176	155	0.4	4	182
USTD-330		18/6	22/7.3							0.4/0.13	4/12	
UST-350	5	18	22	150	650	850	45	176	155	0.6	6	182
USTD-350		18/9	22/11							0.6/0.3	6/12	
UST-375	7.5	19	23	160	800	1000	50	187	225	0.9	4	306
USTD-375		19/6.3	23/7.7							0.9/0.3	4/12	
UST-3100	10	21	20	215	900	1200	50	246	327.5	0.9-2pcs	4	504
USTD-3100		21/7	20/6.7							0.9/0.3-2pcs	4/12	

UST-310 50Hz with pinion of M3.5x15T

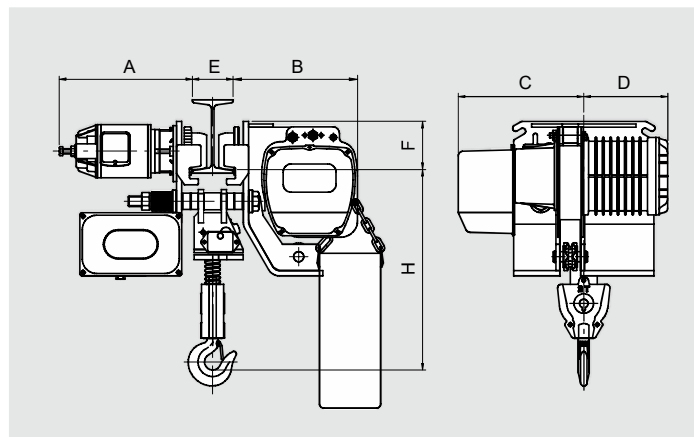
UST-320 60Hz with pinion of M3.5x12T

UST-330 50Hz/60Hz with pinion of M3.5x13T

UST-350 50Hz/60Hz with pinion of M3.5x20T

UST-375 50Hz/60Hz with pinion of M3.5x15T

LOW HEADROOM



100,300,400,500 SERIES LOW HEADROOM UNIT

Model	Capacity (ton)	Dimension (mm)							Hoisting			Traversing			N.W. (kg)
		H	A	B	C	D	E	F	Speed 50Hz	Speed 60Hz	Motor kw pole	Speed 50Hz	Speed 60Hz	Motor kw pole	
ULH-105	0.5	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188
ULHD-105						286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-110	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188
ULHD-110						286			4.7/1.6	5.6/1.9	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-120	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216
ULHD-120						253			2.3/0.77	2.8/0.93	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-305	0.5	440	327	307	278	241	75-125	112	6.7	8.0	1.5, 4P	20	24	0.25, 4P	188
ULHD-305						286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-310	1	440	327	307	278	241	75-125	112	4.7	5.6	1.5, 4P	20	24	0.25, 4P	188
ULHD-310						286			4.7/1.6	5.6/1.9	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-320	2	520	330	310	311	208	100-150	118	2.3	2.8	1.8, 4P	20	24	0.25, 4P	216
ULHD-320						253			2.3/0.77	2.8/0.93	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-330	3	593	366	315	343	208	125-175	143	1.5	1.8	1.8, 4P	20	24	0.6, 4P	277
ULHD-330						221			1.5/0.5	1.8/0.6	1.8/0.6, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	
ULH-405	0.5	440	327	307	278	241	75-125	112	9.2	11	1.8, 4P	20	24	0.25, 4P	188
ULHD-405						286			9.2/3.1	11/3.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-410	1	440	327	307	278	241	75-125	112	6.7	8.0	1.8, 4P	20	24	0.25, 4P	188
ULHD-410						286			6.7/2.2	8.0/2.7	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-420	2	520	330	310	311	208	100-150	118	3.3	4.0	1.8, 4P	20	24	0.25, 4P	216
ULHD-420						253			3.3/1.1	4.0/1.3	1.8/0.6, 4/12P	20/6.7	24/8	0.25/0.08, 4/12P	
ULH-430	3	593	366	315	343	208	125-175	143	2.2	2.6	1.8, 4P	20	24	0.6, 4P	277
ULHD-430						221			2.2/0.73	2.6/0.87	1.8/0.6, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	
ULH-520	2	702	371	443	324	319	125-175	143	6.6	7.9	3.7, 4P	20	24	0.6, 4P	438
ULHD-520						376			6.6/2.2	7.9/2.6	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	
ULH-525	2.5	724	371	443	324	319	125-175	143	5.3	6.4	3.7, 4P	20	24	0.6, 4P	448
ULHD-525						376			5.3/1.8	6.4/2.1	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	
ULH-530	3	765	371	443	274	363	125-175	143	4.3	5.2	3.7, 4P	20	24	0.6, 4P	465
ULHD-530						420			4.3/1.4	5.2/1.7	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	
ULH-550	5	805	371	443	265	372	125-175	148	2.7	3.2	3.7, 4P	20	24	0.6, 4P	505
ULHD-550						429			2.7/0.9	3.2/1.1	3.7/1.2, 4/12P	20/6.7	24/8	0.6/0.2, 4/12P	

※Maximum lifting height : 6M

POWER SUPPLY:

- Electric chain hoists generally suits majority of the 3-phase power in different countries, available in 50Hz or 60Hz, voltage from 220V up to 600V and 110V or 220V / 230V of 1-phase.
- Dual-volt hoist subject to our confirmation.

LIFTING HEIGHT:

- Standard lifting height 3m; any other height of lift upon request.

LIFTING SPEED:

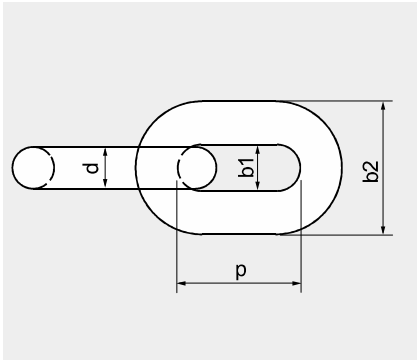
- Please refer to each detailed specification.

PUSH BUTTON PENDANT:

- 2-button type: up and down.
- 4-button type: up and down; left and right (trolley).
- 6-button type: up and down; left and right; forward and reverse (end carrier).
- Plus standard emergency stop. (Optional)

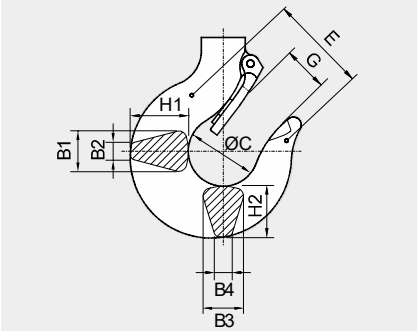


LOAD CHAIN



Diameter d(mm)	Model Reference Being Used	Inner Length p(mm)	Inner Width b1(mm)	Outer Width b2(mm)	Breaking Load (kN)
Φ7.1	UH-100~400 series	20.2	8.2	23.2	63
Φ10.0	UH-520 UH-530	30.2	12.5	33.2	128
Φ11.2	UH-525 UH-550 UH-575 UH-5100 UH-5150 UH-5200 UH-5300	34.0	14.0	37.5	160

HOOK



Model	Capacity (ton)	T B	Dimensions (mm)										Allow Stress (kg/mm²)	Hook Block Weight (kg)
			H1	B1	B2	H2	B3	B4	C	G	E			
UH-100~400	0.5,1	T B	33	23	9	29	23	9	40	28	60	70	*10	
UH-100~400	2	T B	45	31	10	41	31	10	46	36	75	70	*10	
UH-300~400	3	T B	55	34	19	48	34	19	52	40	90	70	*10	
UH-500	2,2.5	T B	55	34	19	48	34	19	52	40	90	70	*10	
	3	T B	55	34	19	48	34	19	52	40	90	70	20	
	5	T B	66	44	23	60	44	23	62	45	100	70	20	
	7.5	B	75	48	16	68	48	16	75	55	105	100	40	
	10	B	100	68	27	95	64	27	100	70	150	70	70	
	15	B	120	85	32	110	83	32	120	82	165	70	150	
	20	B	138	98	36	128	93	36	140	105	220	70	280	
	30	B	138	98	36	128	93	36	140	105	220	100	420	

● T=Top hook / B=Bottom hook ● If the weight is less than 10 kg, it will be considered as 10 kg.

STANDARD ACCESSORIES:

- 1.Chain container1pc
- 2.Power cord3M
- 3.Push button pendant (3M)1pc



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- No further notice while sizes and dimensions update ; Quotations are based on practical dimensions.
- Due to the printing factors, the color of the products is subject to minor deviation from the physical objects.