



Professional cranes & hoists for lifting



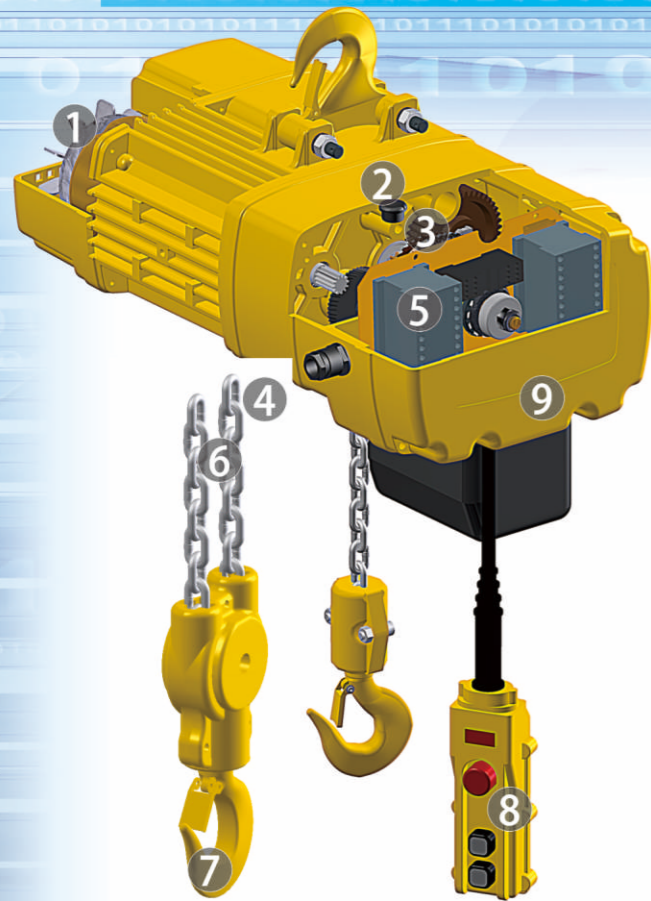
2ND Generation Electric Chain Hoist / NHD series



CHENG DAY MACHINERY WORKS CO., LTD.

Model : NHD-025-1/NHD-050-2/NHD-050-1/NHD-100-2/NHD-100-1/NHD-200-2

Model : NHD-200-1/NHD-300-2/NHD-500-2



1 Motor and Brake

- 1).IP55 TEFC motor, class F insulation, good thermal performance.
- 2).DC motor brake : with two-side single disk brake, electromagnetic brake actuates synchronously in the event of power failure to ensure the operation safety while loading.
- 3).Total enclosed construction, withstands harsh conditions like those found in chemical, and electroplating environments.
- 5).Asbestos-free brake to meet international request.

Over-Heat Protection

With built-in heat detector, when motor's inside working temperature reaches 140(±5)°C, the protection mechanism will trigger, and not allow lifting the load. Instead, it permits coming down to release the load.

2 Chain Sprocket

5-pocket chain sprocket for load chain smooth operation.

3 Mechanical Brake and Overload Protection

- 1).2 in 1 design, have the dual function of mechanical brake and overload protections.
- 2).Mechanical brake collocate motor brake which provides fast braking function.
- 3).Friction Clutch prevent damage from overloading.
- 4).Easily adjusted by the gear box outside Overload setting.
- 5).Ensure operation safety and product life time.

4 Limit Switch

Upper and lower gear limit switches are fitted to switch off the power simultaneously in the case of over lifting or lowering position.

5 Control Panel

Phase Error Relay

Phase protection, in case of any phase missing or incorrect, the hoist will not be in active, ensuring the safety and durability to all oponents.

6 Load Chain

Grade 80 hardened and galvanized alloy steel chain, endures harsh conditions such as rain, saltwater and chemicals with minimal wear.

7 Hook

- 1).Hot forged from high tensile steel.
- 2).360 degree rotation.

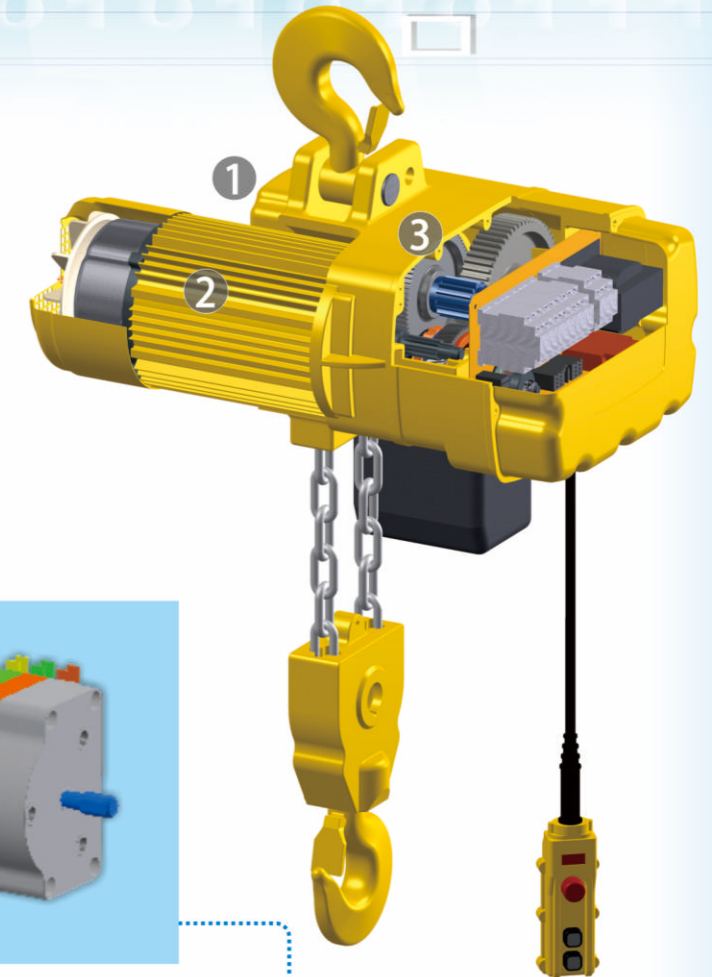
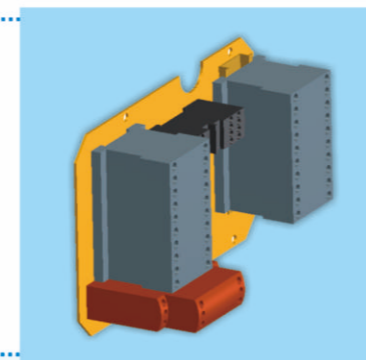
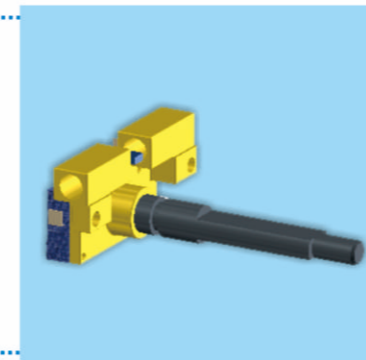
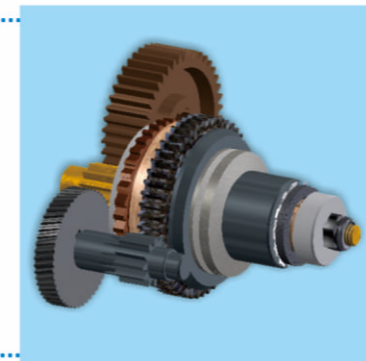
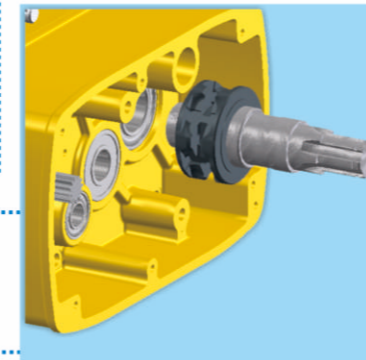
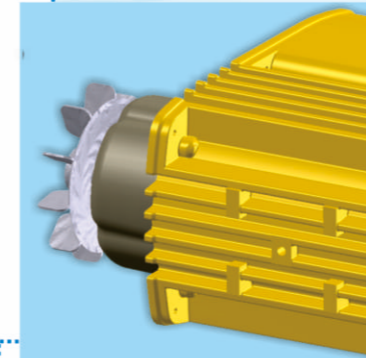
8 Pendant Control

High protection grade IP65, fully water-proof, insulated, and impact resistant.



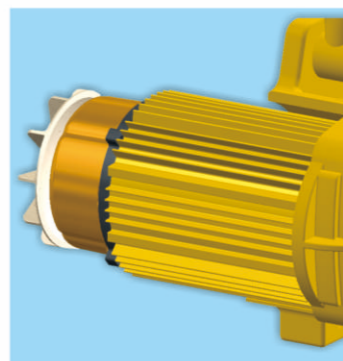
9 Robust Housing

- 1).Fabricated of aluminum die-casting, durable and light weight.
- 2).Matt-black powder coating finish for low visibility.



1 Gear Limit Switch

Can precisely control stopping point at any position.



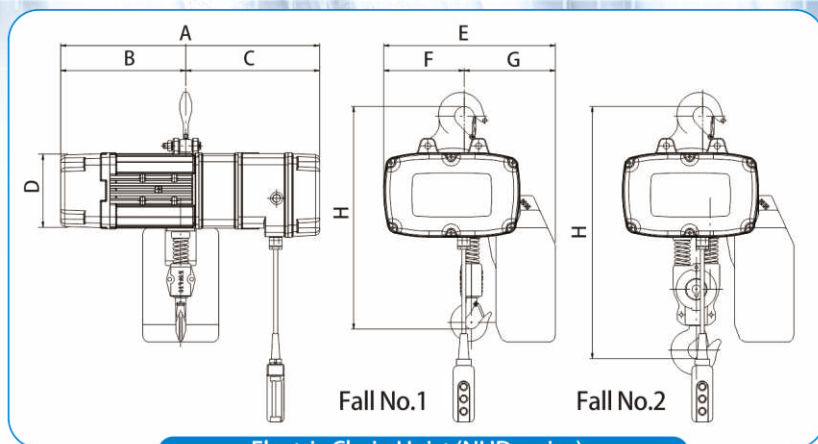
2 Motor Ass'y

Light and artistic motor housing is made of aluminium extruded alloy and motor coil can simply disassemble and repair.



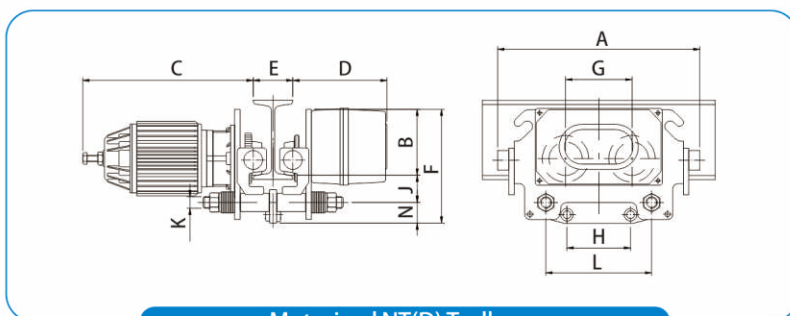
3 Chain sprocket and Regulator

- 1).Can rapidly remove and replace unlike previous model have to remove motor or other components first.
- 2).5-pocket chain sprocket and regulator for load chain smooth operation.



Electric Chain Hoist (NHD series)

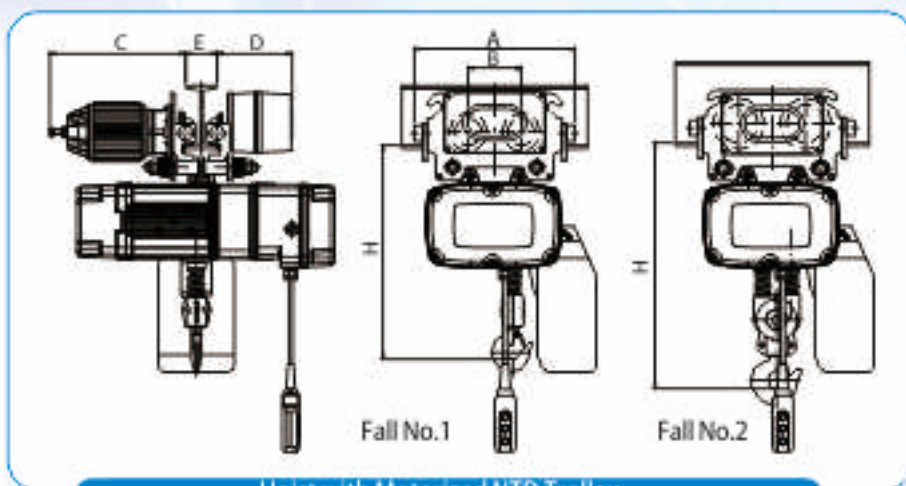
Model	Capacity (kg)	Lift (m)	%ED	Hoisting			Traversing			Dimension (mm)								Load Chain		N.W. (kg)
				Speed(m/min)		Motor kw x pole	Speed(m/min)		Motor kw x pole	H	A	B	C	D	E	F	G	Ømm	Fall No.	
				60Hz	50Hz		60Hz	50Hz												
NHD-025-1	250	3	40/20	12/3	12/3	0.6/0.15 x 2/8P	24/6	20/5	0.12/0.03 x 2/8P	376	380	175	205	135	299	143	156	Ø 4.0x12.0	1	30
NHD-050-2	500			6/1.5	6/1.5		24/6	20/5		0.12/0.03 x 2/8P									453	2
NHD-050-1	500	3	40/20	10/2.5	8.3/2.1	1.1/0.28 x 2/8P	24/6	20/5	0.12/0.03 x 2/8P	500	570	266	304	164	375	190	185	Ø 6.3x19.1	1	47
NHD-100-2	1000			5/1.25	4.2/1.1		24/6	20/5		0.18/0.04 x 2/8P									545	2
NHD-100-1	1000	3	40/20	8/2	6.7/1.7	1.5/0.37 x 2/8P	24/6	20/5	0.18/0.04 x 2/8P	550	616	297	319	180	409	191	218	Ø 7.1x20.2	1	62
NHD-200-2	2000			4/1	3.3/0.8		24/6	20/5		0.37/0.09 x 2/8P									620	2
NHD-200-1	2000	3	40/20	9.6/2.4	8/2	3.7/0.9 x 2/8P	24/6	20/5	0.37/0.09 x 2/8P	800	685	310	375	215	520	265	255	Ø 10x30	1	102
NHD-300-2	3000	3	40/20	6.4/1.6	5.3/1.3		24/6	20/5		0.6/0.15 x 2/8P									890	685
NHD-500-2	5000	3	40/20	4/1	3.3/0.8	24/6	20/5	0.6/0.15 x 2/8P	920	685	310	375	215	520	210	310	Ø 11.2x34	2	145	



Motorized NT(D) Trolley

Model	Speed (m/min)		Motor kw x pole	Dimension (mm)											N.W. (kg)	Min radius of curve (m)	
	60Hz	50Hz		A	B	C	D	E	F	G	H	L	J	N			K
NT-050-1	24	20	0.12 x 2P	382	124.5	324	180	75~125	217	125.5	95.5	200	51.5	41	7/8"~9UNC (Ø22.2)	45	1.3
NTD-050-1	24/6	20/5	0.12/0.03 x 2/8P														
NT-050-2	24	20	0.12 x 2P	382	124.5	324	180	75~125	217	125.5	120	200	51.5	41	7/8"~9UNC (Ø22.2)	45	1.3
NTD-050-2	24/6	20/5	0.12/0.03 x 2/8P														
NT-100-1	24	20	0.18 x 2P	382	124.5	324	180	75~125	217	125.5	120	200	51.5	41	7/8"~9UNC (Ø22.2)	45	1.3
NTD-100-1	24/6	20/5	0.18/0.04 x 2/8P														
NT-100-2	24	20	0.18 x 2P	382	124.5	324	180	75~125	217	125.5	95.5	200	51.5	41	7/8"~9UNC (Ø22.2)	45	1.3
NTD-100-2	24/6	20/5	0.18/0.04 x 2/8P														
NT-200-2	24	20	0.37 x 2P	392	125	357	183	100~150	221	159	120	230	60	36	1"~8UNC (Ø25.4)	50	1.7
NTD-200-2	24/6	20/5	0.37/0.09 x 2/8P														
NT-200-1	24	20	0.37 x 2P	392	125	357	183	100~150	240	159	52.5	230	60	55	1"~8UNC (Ø25.4)	55	1.7
NTD-200-1	24/6	20/5	0.37/0.09 x 2/8P														
NT-300-2	24	20	0.6 x 2P	512	163	407	192	125~175	292	177	52.5	230	68	61	1 1/4"~7UNC (Ø31.7)	65	2.0
NTD-300-2	24/6	20/5	0.6/0.15 x 2/8P														
NT-500-2	24	20	0.6 x 2P	540	168	410	195	125~175	305	191	52.5	230	72	65	1 1/2"~6UNC (Ø38.1)	89	2.2
NTD-500-2	24/6	20/5	0.6/0.15 x 2/8P														

*Different flange width options available on request. Maximum:300mm.



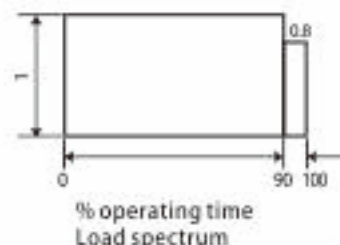
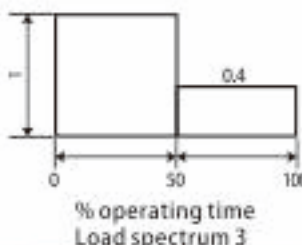
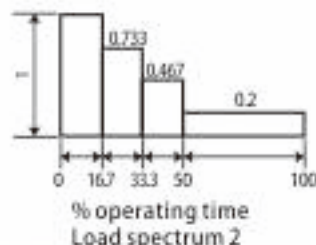
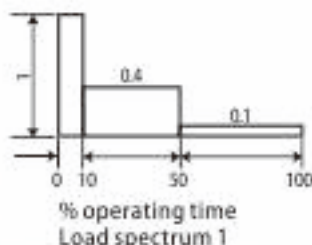
Hoist with Motorized NTD Trolley

Model	Dimension (mm)						Fall No.
	H	A	B	C	D	E	
NHD-025-1+NTD-050-2	385	382	125.5	324	180	75~125	1
NHD-050-2+NTD-050-2	462	382	125.5	324	180	75~125	2
NHD-050-1+NTD-050-1	495	382	126	324	180	75~125	1
NHD-100-2+NTD-100-2	550	382	126	324	180	75~125	2
NHD-100-1+NTD-100-1	535	382	126	324	180	75~125	1
NHD-200-2+NTD-200-2	610	392	159	357	183	100~150	2
NHD-200-1+NTD-200-1	715	392	159	357	183	100~150	1
NHD-300-2+NTD-300-2	820	512	177	407	192	125~175	2
NHD-500-2+NTD-500-2	860	540	191	410	195	125~175	2

Hoist Classification

Load Spectrum	Cubic mean value	Avg. daily operating time (hr)	0.25 < x ≤ 0.5	0.5 < x ≤ 1	1 < x ≤ 2	2 < x ≤ 4	4 < x ≤ 8	8 < x ≤ 16
			Total operating time (hr)	400 < x ≤ 800	800 < x ≤ 1600	1600 < x ≤ 3200	3200 < x ≤ 6300	6300 < x ≤ 12500
1 Light	$K \leq 0.05$	When normally working with approx. 1/3 of W.L.L. and are rarely with W.L.L.	1Dm	1Cm	1Bm	1Am	2m	3m
2 Medium	$0.50 < K \leq 0.63$	When normally working with approx. 1/3 to 2/3 of W.L.L. and sometimes with W.L.L.	1Cm	1Bm	1Am	2m	3m	4m
3 Heavy	$0.63 < K \leq 0.80$	When normally working with approx. 2/3 of W.L.L. and often with W.L.L.	1Bm	1Am	2m	3m	4m	5m
4 Very Heavy	$0.80 < K \leq 1.00$	When normally working with W.L.L. or near W.L.L.	1Am	2m	3m	4m	5m	6m

*Design for grade 2m in the FEM Regulation (FEM 9.511)





CHENG DAY MACHINERY WORKS CO., LTD.

No. 173, Wen Chiu Road, Dajia District, Taichung City, 437 Taiwan.

Tel: +886-4-2688-1581 Fax: +886-4-2688-1509

Website: www.chengday.com.tw E-mail: info@chengday.com.tw

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