

STRONG PARTNERS. TOUGH TRUCKS.

Four-wheel Electric Counterbalanced Lift Trucks E2.2–3.5XN

2 200 – 3 500 kg



E2.2XN, E2.5XN, E3.0XN, E3.2XN, E3.5XN

1.1	Manufacturer	HYS	TER	HYS	TER	HYS	TER	HYS	TER		
3 1.2	Model designation		E2.2XN	(700 mm)	E2.2XN (847 mm)	E2.5XN	(700 mm)	E2.5XN (847 mm)	
1.3	Power: electric (battery or mains) diesel, petrol, LPG		Bat	tery	Bat	tery	Bat	ttery	Batt	tery	
1.4	Operation: manual, pedestrian, stand, seat, orderpicker		Se	eat	Se	eat	S	eat	Se	at	
1.2 1.3 1.4 1.5 1.6	Load capacity	Q (kg)	2.2	200	2 200		2 500		2.5	i00	
1.6	Load centre	c (mm)	5	00	50	00	500		500		
1.8	Load distance	x (mm)	3	77	3	77	377		377		
1.9	Wheelbase	y (mm)	1:	230	13		1:	230	13	77	
		, , ,								1011	
2.1	Unladen weight (max. battery)	kg	4.4	100	4 570		4 :	590	4 570		
2.1	Axle loading with load, front/rear (max. battery)	kg	5 494	1 105	5 540	1 226	5 962	1 123	6 031	1 035	
2.3	Axle loading without load, front/rear (max. battery)	kg	1 728	2 672	1 941	2 626	1 681	2 903	1 941	2 626	
	rate loaning materials and management (management)	9									
3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid		,	V	١	/	,	V	V	/	
3.2	Tyre size, front		21 x	8 x 15	21 x 8	3 x 15	21 x	8 x 15	21 x 8	3 x 15	
3.2 3.3 3.5 3.6	Tyre size, rear			x 10.5		x 10,5		x 10.5	16 x 6		
3.5	Number of wheels, front/rear (X = driven)		2X	2	2X	2	2X	2	2X	2	
3.6	Track width, front (standard/wide tread)	b ₁₀ (mm)	905	1 039	905	1 039	905	1 039	905	1 039	
3.7	Track width, rear	b ₁₁ (mm)		40	94			40	94		
5.7	Hack width, real	D ₁₁ (mm)		10	J.	10	J	10	J-1	10	
4.1	Mast tilt, α = forward/ β = back	degrees	5	5	5	5	5	5	5	5	
4.1	Height of mast, lowered	h ₁ (mm)		235	22			235	22		
	Free lift ¶	h ₂ (mm)		00	10			00	10		
4.3	Free lift ¶	h ₃ (mm)		450	34			450	3 4		
	0 11			050	4 (050	40		
4.5	Height of mast, extended +	h ₄ (mm)		248				248	22		
4.7	Height to top of overhead guard ▶	h ₆ (mm)			2 248 1 217						
4.8	Seat height O	h ₇ (mm)		217				217	12		
4.12	Towing coupling height	h ₁₀ (mm)		80	28			80	28		
4.19	Overall length	I ₁ (mm)		003	3 (027	3 1		
4.20	Length to face of forks	I ₂ (mm)		003	2 (027	21		
4.19 4.20 4.21 4.21	Overall width (standard/wide tread)	b ₁ /b ₂ (mm)			1 108 1 242		1 108 1 242		1 108 1 242		
1.2.2	Fork dimensions	s/e/I (mm)	_	1 000		0 1 000		1 000	100 4		
4.23	Fork carriage DIN 15173. Class A/B			'A	2			A.	2,		
4.24	Fork carriage width ●	b ₃ (mm)		77	9			77	97		
4.31	Ground clearance under mast, with load	m ₁ (mm)		35		5		35	8		
4.32	Ground clearance, centre of wheelbase, with load	m ₂ (mm)		92		2		92	9:		
4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide	Ast (mm)	<u> </u>	316	3 4			338	3 4		
4.34	Aisle width with pallets 800 mm x 1 200 mm long	Ast (mm)	3 5	512	3 6			534	3 6		
4.35					1 757		1 757			1 884	
	Outer turning radius	W _a (mm)									
4.36	Outer turning radius Inner turning radius, standard/wide tread	W _a (mm) b ₁₃ (mm)		01	50)1	5	01	1 8 56	31	
4.36	Inner turning radius, standard/wide tread	b ₁₃ (mm)	5	01	50				56		
4.36 5.1	Inner turning radius, standard/wide tread Travel speed with/without load	b ₁₃ (mm)	19,8	19,7	19,8	19,7	19,9	19,7	19,9	19,7	
5.1 5.2	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load	b ₁₃ (mm) km/h m/sec	19,8 0,52	19,7 0,72	19,8 0,52	19,7 0,72	19,9 0,52	19,7 0,72	19,9 0,49	19,7 0,72	
4.36 5.1 5.2 5.3	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load	b ₁₃ (mm) km/h m/sec m/sec	19,8 0,52 0,57	19,7 0,72 0,51	19,8 0,52 0,57	19,7 0,72 0,51	19,9 0,52 0,57	19,7 0,72 0,51	19,9 0,49 0,57	19,7 0,72 0,51	
4.36 5.1 5.2 5.3	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating	b ₁₃ (mm) km/h m/sec m/sec	19,8 0,52 0,57 13 460	19,7 0,72 0,51 14 271	19,8 0,52 0,57 13 460	19,7 0,72 0,51 14 271	19,9 0,52 0,57 13 315	19,7 0,72 0,51 14 271	19,9 0,49 0,57 13 315	19,7 0,72 0,51 14 271	
4.36 5.1 5.2 5.3	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating	b ₁₃ (mm) km/h m/sec m/sec	19,8 0,52 0,57	19,7 0,72 0,51	19,8 0,52 0,57	19,7 0,72 0,51	19,9 0,52 0,57	19,7 0,72 0,51	19,9 0,49 0,57	19,7 0,72 0,51	
5.1 5.2 5.3 5.5 5.6 5.7	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating †	km/h m/sec m/sec N N	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,9 0,52 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	19,9 0,49 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	
5.1 5.2 5.3 5.5 5.6 5.7 5.8	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating †	km/h m/sec m/sec N N %	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,9 0,52 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	19,9 0,49 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load	km/h m/sec m/sec N N	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785 39 4,9	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,9 0,52 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	19,9 0,49 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	
5.1 5.2 5.3 5.5 5.6 5.7 5.8	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating †	km/h m/sec m/sec N N %	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,8 0,52 0,57 13 460 22 100	19,7 0,72 0,51 14 271 16 785	19,9 0,52 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	19,9 0,49 0,57 13 315 21 914	19,7 0,72 0,51 14 271 16 785	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load Service brake	b ₁₃ (mm) km/h m/sec m/sec N N % %	19,8 0,52 0,57 13,460 22,100 34 4,9	19,7 0,72 0,51 14 271 16 785 39 4,9	19,8 0,52 0,57 13 460 22 100 34 4,9	19,7 0,72 0,51 14 271 16 785 39 4,9	19,9 0,52 0,57 13 315 21 914 33 4,9	19,7 0,72 0,51 14 271 16 785 39 4,9	19,9 0,49 0,57 13 315 21 914 33 4,9	19,7 0,72 0,51 14 271 16 785 39 4,9	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load Service brake	km/h m/sec m/sec N N S K K K K K K K K K K K K K K K K K	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14 271 16 785 39 4,9	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14 271 16 785 39 4,9	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating)	b ₁₃ (mm) km/h m/sec m/sec N N % %	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no	km/h m/sec m/sec N N % % % kw/	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating)	km/h m/sec m/sec N N S K K K K K K K K K K K K K K K K K	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr. 23 24 N	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10 6.1 6.2 6.3	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no	km/h m/sec m/sec N N % % % kw/	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate	b ₁₃ (mm) km/h m/sec m/sec N N S kW kW	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr	19,7 0,72 0,51 14 271 16 785 39 4,9 audic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr. 23 24 N	19,7 0,72 0,51 14 271 16 785 39 4,9 audic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10 6.1 6.2 6.3 6.4 6.5	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load, 50 minute rating Max. drawbar pull with/without load, 50 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate Battery weight (min/max)	b ₁₃ (mm) km/h m/sec m/sec N N % % % kW kW V/Ah	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr 23 24 N 80	19,7 0,72 0,51 14 271 16 785 39 4,9 audic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic 3,6 4,0	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr 23 24 N 80 1 320	19,7 0,72 0,51 14 271 16 785 39 4,9 audic	
5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.9 5.10 6.1 6.2 6.3 6.4 6.5	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load, 50 minute rating Max. drawbar pull with/without load, 50 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate Battery weight (min/max)	b ₁₃ (mm) km/h m/sec m/sec N N % % % kW kW V/Ah	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydi	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr 23 24 N 80	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic 3,6 4,0	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr 23 24 N 80 1 320	19,7 0,72 0,51 14,271 16,785 39 4,9 aulic	
4.36 5.1 5.2 5.3 5.5 5.5 5.7 5.8 5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6 6.6	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 50 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate Battery weight (min/max) Power consumption in accordance with VDI cycle	b ₁₃ (mm) km/h m/sec m/sec N N % % % kW kW V/Ah	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydi	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic 3,6 4,0 lo 375 1 500	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr 22: 24 80 1 320 6,	19,7 0,72 0,51 14,271 16,785 39 4,9 audic	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd 22 N 80 1 050 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic 3,6 4,0 lo	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr 23 24 N 80 1 320	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic 66 ,0 0 450 1 770 31	
4.36 5.1 5.2 5.3 5.5 5.5 5.7 5.8 5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6 6.6	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 30 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate Battery weight (min/max) Power consumption in accordance with VDI cycle	b ₁₃ (mm) km/h m/sec m/sec N N % % S kW kW kW	19,8 0,52 0,57 13,460 22,100 34 4,9 Hydi 22,24 N 80 1,050 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic 3,6 4,0 lo 375 1 500 31	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr 223 24 N 80 1 320 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic 6,6 0,0 0 450 1 770 31	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd 23 24 N 80 1 050 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic 3,6 4,0 lo 375 1 500 31	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr. 23 24 N 80 1 320 6,5	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic 6,6 0,0 0 450 1 770 31	
4.36 5.1 5.2 5.3 5.5 5.5 5.6 6.1 6.2 6.3 6.4 6.5 6.6 6.6 6.6	Inner turning radius, standard/wide tread Travel speed with/without load Lifting speed with/without load Lowering speed with/without load Drawbar pull with/without load, 60 minute rating Max. drawbar pull with/without load, 5 minute rating Gradeability with/without load, 30 minute rating † Max. gradeability with/without load 5 minute rating † Acceleration time with/without load 5 minute rating † Acceleration time with/without load ◆ Service brake Drive motor output (S2 60 minute rating) Lifting motor (S3 15% rating) Battery DIN 43531/35/36 A, B, C, no Battery voltage/capacity at 5 hr rate Battery weight (min/max) Power consumption in accordance with VDI cycle Drive control Working pressure for attachments	km/h m/sec m/sec N N % % % S kW kW V/Ah kg kWh/h	19,8 0,52 0,57 13,460 22,100 34 4,9 Hyd 22,24 N 80 1,050 6,3	19,7 0,72 0,51 14,271 16,785 39 4,9 raulic 3,6 4,0 to 375 1,500 31	19,8 0,52 0,57 13 460 22 100 34 4,9 Hydr 22 N 80 1 320 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic 6,6 0,0 0 450 1 770 31	19,9 0,52 0,57 13 315 21 914 33 4,9 Hyd 23 24 N 80 1 050 6,	19,7 0,72 0,51 14 271 16 785 39 4,9 raulic 3,6 4,0 lo 375 1 500 31	19,9 0,49 0,57 13 315 21 914 33 4,9 Hydr. 23 24 N 80 1 320 6,5	19,7 0,72 0,51 14 271 16 785 39 4,9 aulic 6,6 0,0 0 450 1 770 31	

Specification data is based on VDI 2198

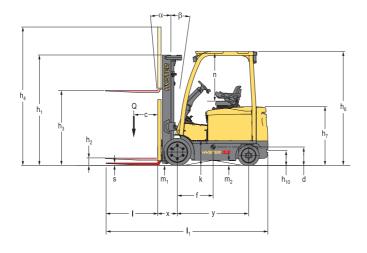
Equipment and weight:

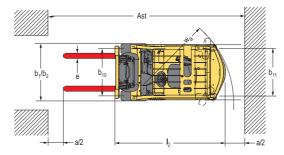
Weights (line 2.1) are based on the following specifications:

Complete truck with 3 490 mm (E2.2-2.5XN), 3 310 mm (E3.0-3.5XN) 2-stage limited free lift mast, 1 020 mm hook-type carriage with load backrest, 1 000 mm forks, overhead guard and standard cushion drive and steer tyres.

	_	_	_					
HYS	TER	HYS	TER	HYS	TER	1.1		
E3.0XN	(847 mm)	E3.2XN (*	I 015 mm)	E3.5XN (*	1 015 mm)	1.2	유	
	tery		tery	Bat	1.3	CHARACTERISTICS		
Se	eat	Se	eat	Se	1.4	CTE		
3 (000	3 2	200	3 5	1.5	RIS		
5	00	50	00	5	00	1.6	TICS	
3	37	38	37	3	87	1.8		
13	377	1.5	545	1.5	1 545			
					5 350			
_)50		40			2.1	WE.	
6 913	1 135	7 219	1 112	7 671	1 170	2.2	WEIGHTS	
1 978	3 069	2 180	2 951	2 159	3 181	2.3	S	
	J	\	/		/	3.1		
_	3 x 15		3 x 15		9 x 15	3.2	¥	
	x 10,5		x 10,5		x 10,5	3.3	WHEELS & TYRES	
2X	2	2X	2	2X	2	3.5	S & J	
905	1 039	905	1 039	929	1 013	3.6	TYRE	
	40	94			15	3.7	S	
5	5	5	5	5	5	4.1		
2.2	235	2.2	235	2.2	235	4.2		
1	00	10	00	11	00	4.3		
3 2	260	3 2	260	3 2	260	4.4		
3 9	955	3 9	955	3 9	955	4.5		
2.2	248	2.2	248	2.2	4.7			
	217		217	1.2	4.8			
	30		30	2	4.12			
	84		328		352	4.19	D∥V	
	84		328	23	4.20	IEN:		
1 108	1 242	1 108	1 242	1 158	4.21			
<u> </u>	0 1 000 A		0 1 000 A	125 5	4.22 4.23	U)		
	77	91		9	4.23			
	5		5	8	4.24			
	2		2	g	4.32			
	503	36		3 (4.33			
	702		361	3 8	4.34			
	915	2.0		2 (4.35			
5	31	60	30	6	30	4.36		
19,4	19,7	19,0	19,7	19,1	19,7	5.1		
0,42	0,63	0,40	0,63	0,37	0,63	5.2		
0,56	0,46	0,57	0,46	0,58	0,46	5.3	PE	
12 953	14 150	12 837	14 129	12 643	14 078	5.5	:RFC	
21 485	17 272	21 342	18 165	21 108	18 651	5.6	ERFORMANCE	
						5.7	NCE	
					27			
28	36	26	37	25	37	5.8		
4,9	4,9	4,9	4,9	4,9	4,9	5.9		
4,9			4,9	4,9		_		
4,9 Hydi	4,9 raulic	4,9 Hydr	4,9 raulic	4,9 Hydi	4,9 raulic	5.9 5.10		
4,9 Hydi	4,9 raulic	4,9 Hydr	4,9 raulic	4,9 Hydi	4,9 raulic	5.9 5.10 6.1		
4,9 Hydi	4,9 raulic 3,6	4,9 Hydr 23 24	4,9 raulic 3,6	4,9 Hydi 23 24	4,9 raulic 3,6 4,0	5.9 5.10 6.1 6.2		
4,9 Hydi	4,9 raulic 3,6 4,0	4,9 Hydr 23 24	4,9 raulic 8,6 4,0	4,9 Hydi 23 24	4,9 raulic 3,6 4,0	5.9 5.10 6.1 6.2 6.3		
4,9 Hydi	4,9 raulic 3,6	4,9 Hydr 23 24	4,9 raulic 3,6	4,9 Hydi 23 24	4,9 raulic 3,6 4,0	5.9 5.10 6.1 6.2	MOTOR	
4,9 Hydi	4,9 raulic 3,6 4,0	4,9 Hydi 23 22 N 80 1 550	4,9 raulic 3,6 4,0	4,9 Hydi 23 24 N 80 1 550	4,9 raulic 3,6 4,0	5.9 5.10 6.1 6.2 6.3 6.4		
4,9 Hydi	4,9 raulic 8,6 4,0 lo 450 1 770	4,9 Hydi 23 22 N 80 1 550	4,9 raulic 8,6 4,0 lo 600 2 000	4,9 Hydi 23 24 N 80 1 550	4,9 raulic 3,6 4,0 lo 600 2 000	5.9 5.10 6.1 6.2 6.3 6.4 6.5		
4,9 Hydi	4,9 raulic 8,6 4,0 lo 450 1 770	4,9 Hydr 23 24 N 80 1 550	4,9 raulic 8,6 4,0 lo 600 2 000	4,9 Hydr 23 24 N 80 1 550	4,9 raulic 3,6 4,0 lo 600 2 000	5.9 5.10 6.1 6.2 6.3 6.4 6.5		
4,9 Hydi	4,9 aulic 3,6 4,0 6 450 1 770	4,9 Hydri 23 24 N 80 1 550 7,	4,9 aulic 8,6 1,0 600 2 000 889	4,9 Hydri 23 24 N 80 1 550 8,	4,9 raulic 3,6 4,0 lo 600 2 000 58	5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6	MOTOR	
4,9 Hydi	4,9 aulic 3,6 4,0 10 450 1770 70	4,9 Hydri 23 24 N 80 1 550 7,	4,9 aulic 3,6 4,0 60 2000 89	4,9 Hydr 23 24 N 80 1 550 8,	4,9 raulic 3,6 4,0 lo 600 2 000 58	5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6	MOTOR	
4,9 Hydi	4,9 aulic 3,6 4,0 10 450 1 770 70	4,9 Hydri 23 24 N 80 1 550 7, AC Ele 11 20 6	4,9 aulic 3,6 4,0 60 2000 89 ectronic	4,9 Hydri 23 24 N 80 1 550 8, AC Ele	4,9 raulic 3,6 4,0 lo 600 2 000 58	5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6		

Truck dimensions





Ast = Wa + x + 16 + a (see lines 4.33 & 4.34)

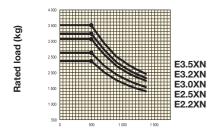
 $a = \hbox{Minimum operating clearance}$

(V.D.I. standard = 200 mm BITA recommendation = 300 mm)

 $l_6 = Load length$

Model	—	E2,2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	E3.0XN (847)	E3.2XN (1 015)	E3,5XN (1 015)
	d	613	618	615	618	616	618	617
Dimensions (mm)	f	728	773	764	774	825	869	905
Dimensions (mm)	k	458	458	458	458	458	458	458
	n	993	993	993	993	993	993	993

Rated capacities



Load centre (mm)

Load centre

Distance from front of forks to centre of gravity of load.

Rated load

Based on vertical 3-stage full free lift mast up to 4 310 mm for E2.2-2.5XN and 4 120 mm for E3.0-3.5XN and 977 mm Standard Carriage with Load Backrest.

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

- ¶ Bottom of forks
- → Without load backrest
- h₆ subject to +/- 5 mm tolerance
- Full Suspension (FLM80) specified.
 Compressed condition, add 40 mm for nominal position
- Add 43 mm with load backrest
- With 'HiP' high performance setting on
- Stacking aisle width (lines 4.33 & 4.34) is based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
- † Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053

Tables key:

- ★ Add 665 mm with load backrest extension
- Add 685 mm with load backrest extension
- Deduct 665 mm with load backrest extension
- Deduct 685 mm with load backrest extension
- Add 580 mm with load backrest extension
- Add 600 mm with load backrest extension
- >> Deduct 580 mm with load backrest extension
- ▲ Deduct 600 mm with load backrest extension
- Wide tread required. Standard tread possible but with reduced capacity. Contact your Hyster dealer.

Notice

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.

Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.



This truck conforms to the current EU requirements.

Mast and Capacity Information

Values shown are for standard equipment. When using non-standard equipment these values may change. Please contact your Hyster dealer for information.

Vista Masts E2.2-2.5XN

	Maximum fork height mm h ₃ +s	Back tilt	Overall lowered height mm	Overa ll extended height mm	Free lift (top of forks) mm h ₂ +s
Vista 2-Stage limited free lift	3 490	5°	2 235	4 050 ★	140
	4 130	5°	2 635	4 690 ★	140
	4 830	5°	2 985	5 390 ★	140
Vista 2-Stage full free lift	3 500	5°	2 235	4 060 ★	1 680 🔾
Vista 3-Stage full free lift	5 100	5°	2 235	5 640 *	1 695 🗆
	5 550	5°	2 385	6 090 *	1 845 🗔
	6 000	5°	2 585	6 540 *	2 045 🗔

Vista Masts E3.0-3.5XN

	Maximum fork height mm h ₃ +s	Back tilt	Overall lowered height mm	Overa ll extended height mm	Free lift (top of forks) mm h ₂ +s
Vista 2-Stage limited free lift	3 310	5°	2 235	3 955 o	150
	3 710	5°	2 535	4 355 o	150
	4 210	5°	2 785	4 855 o	150
Vista 2-Stage full free lift	3 310	5°	2 235	3 955 o	1 590 >>
Vista 3-Stage full free lift	4 770	5°	2 235	5 395 *	1 610 ▲
	5 220	5°	2 385	5 845 *	1 760 ▲
	5 970	5°	2 735	6 595 *	2 110 ▲

E2.2-3.5XN - Capacity chart in kg @ 500 mm load centre

	Cushion tyres															
	Maximum fork	١	Vithout	sideshi	ft	Wit	h integ	ral sides	shift	Maximum fork	Wit	hout sides	hift	With i	ntegral sid	eshift
	height mm h ₃ +s	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	height mm h ₃ +s	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)
Vista 2-Stage limited free lift	3 490 4 130 4 830	2 200 2 200 2 120	2 200 2 200 2 130	2 500 2 500 2 420	2 500 2 500 2 420	2 160 2 150 2 070	2 160 2 150 2 070	2 450 2 440 2 350	2 450 2 440 2 350	3 310 3 710 4 210	3 000 3 000 3 000	3 200 3 200 3 200	3 500 3 500 3 500	2 930 2 920 2 910	3 120 3 110 3 100	3 410 3 400 3 390
Vista 2-Stage full free lift	3 500	2 200	2 200	2 500	2 500	2 160	2 160	2 450	2 450	3 310	3 000	3 200	3 500	2 930	3 120	3 410
Vista 3-Stage full free lift	5 100 5 550 6 000	2 080 2 000 1 920	2 010	2 370 2 290 2 200 4	2 370 2 280 2 190	2 020 1 940 1 850	2 030 1 950 1 860	2 300 2 220 2 120 4	2 300 2 210 2 110	4 770 5 220 5 970	2 890 2 810 2 650 €	3 090 3 000 2 840 €	3 390 3 290 3 120 €	2 800 2 710 2 540 €	2 990 2 900 2 720 ■	3 280 3 180 3 000 €

E2.2-3.5XN - Capacity chart in kg @ 600 mm load centre

	Cushion tyres															
	Maximum fork	٧	Vithout	sideshi	ft	Wit	h integ	ral sides	shift	Maximum fork	Wit	hout sides	hift	With i	ntegral sid	leshift
	height mm h ₃ +s	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	height mm h ₃ +s	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)
Vista 2-Stage limited free lift	3 490 4 130 4 830	2 030 2 020 1 940	2 030 2 020 1 950	2 300 2 290 2 210	2 300 2 290 2 210	1 950 1 940 1 860	1 950 1 940 1 870	2 210 2 200 2 120	2 210 2 200 2 120	3 310 3 710 4 210	2 760 2 760 2 750	2 940 2 940 2 930	3 210 3 210 3 200	2 640 2 640 2 630	2 810 2 810 2 800	3 070 3 070 3 060
Vista 2-Stage full free lift	3 500	2 030	2 030	2 300	2 300	1 950	1 950	2 210	2 210	3 310	2 760	2 940	3 210	2 640	2 810	3 070
Vista 3-Stage full free lift	5 100 5 550 6 000	1 900 1 820 1 740	1 900 1 830 1 750	2 160 2 080 1 990 4	2 160 2 080 1 980	1 820 1 750 1 670		2 080 2 000 1 910 4	2 070 1 990 1 900	4 770 5 220 5 970	2 650 2 560 2 400 €	2 820 2 740 2 570 €	3 090 3 000 2 830 €	2 530 2 450 2 300 €	2 700 2 620 2 460 	2 960 2 870 2 710 €

Product Features

Dependability

- New robust mast design provides excellent visibility and reliable, high performance lifting.
- Strong chassis construction and reliable, long-lasting components deliver excellent durability and stability, increasing driver confidence and enhancing productivity.
- AC motor technology on traction and hoist, with built in thermal management system, allows the truck to work reliably over long runs and in demanding work cycles, reducing downtime significantly.
- The electrical system features a CANbus communications network and Hall Effect sensors for increased reliability.
- IP54 enclosed traction motors and IP65 protection of controls prevents ingress of water and dust particles, reducing the probability of truck downtime.

Productivity

- AC traction motor delivers smooth acceleration, fast travel and rapid direction changes with excellent torque performance. This is combined with regenerative braking to deliver efficient load handling in the toughest of applications.
- Compact dimensions deliver tight turning circles and class leading manoeuvrability when working in aisles or congested loading/unloading bays.
- Powerful 80 V battery, offering extended battery shift life and optional side battery removal, delivers superb traction and hoist performance, for fast, efficient, uninterrupted load handling and simple fast recharging keeps trucks on the move.
- Advanced design drive axle with self-adjusting power-assisted drum brakes and new steer axle, featuring HSM[™] (Hyster Stability Mechanism) give the driver confidence, which increases his productivity.

Ergonomics

- The ergonomically designed operator compartment provides a comfortable and highly productive environment for the operator, offering generous foot space and easy on/off access.
- Low noise and whole body vibration combined with a new full suspension seat with 80 mm suspension travel and a range of adjustments ensures the operator remains comfortable over long shifts.
- The fully adjustable tilt steering column with telescopic and memory tilt options allows the operator to get on and off the truck quickly and easily throughout the shift, ensuring maximum comfort and increased productivity.
- The new mini-lever module armrest with built in hydraulic controls, integrated directional control, emergency off switch and horn, offers the ultimate in comfort and control. Alternatively, seat-side manual levers also deliver easy load handling.
- A 'heads-up' display keeps the driver's field of vision clear but provides him with 'at a glance' information on truck operating conditions or performance settings.
- A rear grab handle with integrated horn for frequent reverse travel and an automatic park brake also contribute to ease of operation and excellent driver comfort.

Low Cost of Ownership

- A wide choice of truck capacity, battery size and wheelbase options offers customers the best combination of battery shift life, performance and manoeuvrability to match their application needs.
- Customisable performance settings allow energy efficiency to be ideally balanced with productivity, delivering high throughput at lower operating cost.
- Extended shift life reduces the need for battery recharging, saving time and money and increasing uptime.
- The Vehicle System Manager (VSM) allows adjustment of truck performance parameters and monitors key functions, leading to application matched performance and minimum downtime.
- Fast delivery of diagnostic information enables precise troubleshooting and easy maintenance planning and leads to lower operating costs.

Serviceability

- Standard 1 000 hour service interval.
- Service access is fast and unrestricted, with an easily removable two-piece floor plate providing access to brake fluid, hydraulic filter and valves, VSM, tilt cylinders and automatic park brake release.
- Battery is easily accessible thanks to the well designed hood, which opens to a wide angle with minimum effort.
- Access to diagnostic information via the display or plug-in point on the steering column allows service technicians to monitor truck operations and plan maintenance requirements.
- LED lights are designed to last the lifetime of the truck.









Strong Partners, Tough Trucks, for Demanding Operations Everywhere.

Hyster supplies a complete product range, including Warehouse trucks, IC and Electric Counterbalanced trucks, Container Handlers and Reach Stackers.

Hyster is committed to being much more than a lift truck supplier. Our aim is to offer a complete partnership capable of responding to the full spectrum of materials handling issues:

Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster. Our network of highly trained dealers provides expert, responsive local support.

They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your materials handling needs so you can focus on the success of your business today and in the future.



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