

**TECNA, THE MOST EFFICIENT
AND RELIABLE, LOYAL AND
SECURE PARTNER FOR THE
LOGISTICS AND MAINTENANCE
OF YOUR COMPANY.**

H: 2195 mm (+ softbländare)
Lyfthöjd: 4660 mm (trippelstativ)
Frilyft: 1415 mm



RANGE **TSD 35L**

TECNA
2000

Electric forklift truck

Four wheels, two front AC drive motor, 80 V, with TECNA technology Vector control.

TSD 20 · 2.0 Tn. C.G.C. a 500 mm. load center

TSD 25 S · 2.5 Tn. C.G.C. a 500 mm. load center

TSD 30 S · 3.0 Tn. C.G.C. a 500 mm. load center

TSD 25 · 2.5 Tn. C.G.C. a 500 mm. larga load center

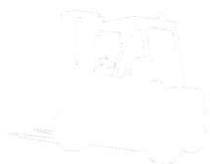
TSD 30 · 3.0 Tn. C.G.C. a 500 mm. larga load center

TSD 35 · 3.5 Tn. C.G.C. a 500 mm. load center

TSD 35 L · 3.5 Tn. C.G.C. a 600 mm. load center



RANGE
TSD



TSD 20 • 2.0 Tn C.G.C. a 500 mm. load center

TSD 25 S • 2.5 Tn C.G.C. a 500 mm. load center

TSD 30 S • 3.0 Tn C.G.C. a 500 mm. load center

TSD 25 • 2.5 Tn C.G.C. a 500 mm. larga load center

TSD 30 • 3.0 Tn C.G.C. a 500 mm. larga load center

TSD 35 • 3.5 Tn C.G.C. a 500 mm. load center

TSD 35 L • 3.5 Tn C.G.C. a 600 mm. load center

ALL TECHNOLOGICAL ADVANCES OF TECNA CONCENTRATED IN THIS NEW SERIES:



Security

Operation control system for speed reduction at curves (Anti turning)

System for lift speed reduction control (Anti turning).

System for speed reduction control in determined areas (High Security). (Optional).



Upright

Upright Duplex, Duplex F.L. and Triplex F.L., one perfect GRAN VISION (new generation).

Integral side shifter as Standard.



Ergonomics

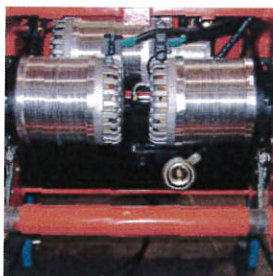
Operator compartment with the same dimensions, as those of a greater tonnage.

Manipulation by means of Joystic (option – levers).

Great comfort seat safety belt, weight adjustment and height and leaning-back positioning.

LCD display with constant control of the machine functions.

The OHG height is 2.200 mm, adjustable tall stature.



Productivity

Three-phase AC drive motors, 80 V 2 x 7,5 kW .

Three-phase AC lift motor, 80 V and 16,5 kW .

TECNA Vector control.

Tecna Batteries:

TSD 20/25S/30S - 80 V 620 A (49,6 kW)

TSD 25/30/35/35XL - 80 V 775 A (62 kW)

Energy regeneration when braking.



Display

Display with digital hour meter, battery indicator and constantly providing the driver information on the system conditions of the truck.

P.M service count - down.

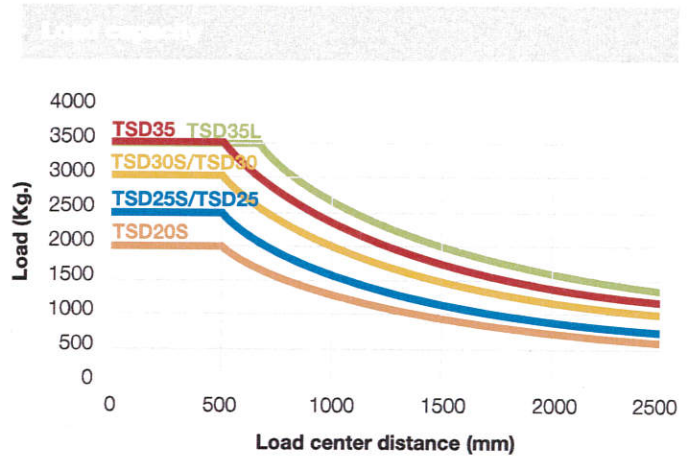
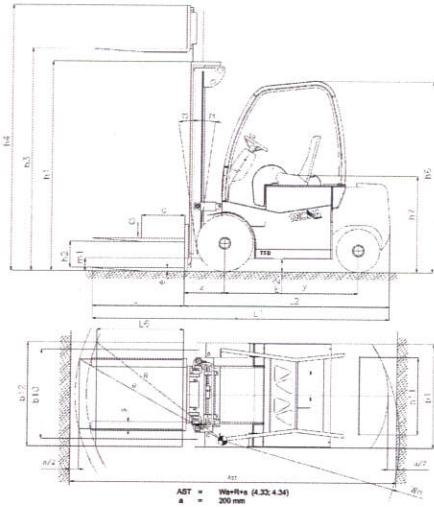
Programmable for optimum adaptation of truck characteristics to the operation request (Acceleration, speed, deceleration, braking, etc.)
Diagnosis information and warning indicators.

TECNA
2000

TECHNICAL SPECIFICATIONS ACCORDING TO VDI 2198

Distinguishing mark	1.1	Manufacturer (Abbreviation)	TECNA				TECNA				
			TSD20	TSD25S	TSD30S	TSD25	TSD30	TSD35	TSD35L		
Distinguishing mark	1.2	Manufacturer's type designation									
	1.3	Drive: Electric, Battery, Diesel, Petrol, Fuel gal		Battery			Battery				
	1.4	Operator type: Hand, Pedestrian, Standing, Seated		Seated			Seated				
	1.5	Load capacity / Rated load	Q (t)	2	2,5	3	2,5	3	3,5	3,5	
	1.6	Load center distance	c (mm)		500			500		600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	452 ¹⁾		457 ²⁾	452 ¹⁾	457 ²⁾		482 ²⁾	
	1.9	Wheelbase	y (mm)		1570			1720			
	Weight	2.1	Service weight (with standard battery)	kg	4425	4850	5385	4700	5075	5880	6175
		2.2	Axle loading, laden front/rear	kg	5729/696	6537/813	7363/1022	6543/657	7306/769	8410/970	8588/1087
2.3		Axle loading, unladen front/rear	kg	2500/1925	2500/2350	2500/2885	2640/2060	2605/2470	2875/3005	2850/3325	
Tyres, Chassis	3.1	Tyres: SE=Superelastic, N=Pneumatic		SE			SE				
	3.2	Tyre size, front		7.00-12			7.00-12		27x10-12		
	3.3	Tyre size, rear		21x8-9			21x8-9				
	3.5	Wheels, number front/rear (x=driven wheels)		2x2			2x2				
	3.6	Tread, front	b10 (mm)		1028		1028		1096		
	3.7	Tread, rear	b11 (mm)		890			890			
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	Grad	6x6			6x6			
4.2		Height, mast lowered	h1 (mm)	2236			2236		2281		
4.3		Free lift	h2 (mm)	150			150				
4.4		Lift height	h3 (mm)	3306			3306				
4.5		Height, mast extended	h4 (mm)	3964			3964		4024		
4.7		Height of overhead guard (cabin)	h6 (mm)	2200			2200				
4.8		Seat height	h7 (mm)	1150			1150				
4.12		Coupling height	h10 (mm)	--			--				
4.19		Overall width	l1 (mm)	3462		3467	3612	3617	3642	3742	
4.20		Length to face of forks	l2 (mm)	2362		2367	2512	2517	2542	2642	
4.21		Overall length	b1 (mm)		1216		1216		1370		
4.22		Fork dimensions	s/e/l (mm)	40x100x1100		45x100x1100	40x100x1100	45x100x1100		45x125x1100	
4.23		Fork carriage din 15173, class/type A, B		2A		3A	2A		3A		
4.24		Fork-carriage width	b3 (mm)		1100				1100		
4.31		Ground clearance, laden, below mast	m1 (mm)		150			150			
4.32		Ground clearance, centre of wheelbase	m2 (mm)		150			150			
4.33		Aisle width for pallets 1000(L6)x1200(B12)	Ast (mm)	3705		3710	3834	3839	3864	3956	
4.34		Aisle width for pallets 1200(L6)x800(B12)	Ast (mm)	3903		3908	4034	4039	4064	4156	
4.35		Turning radius	Wa (mm)		2051			2182		2274	
4.36	Internal turning radius	b13 (mm)		526			577				
Performances	5.1	Travel speed, laden/unladen	km/h		18/18		18/18	18/18	18,5/18,5	18,5/18,5	
	5.2	Lift speed, laden/unladen	m/s	0,59/0,57	0,59/0,52	0,59/0,48	0,59/0,52	0,59/0,48	0,56/0,42	0,56/0,40	
	5.3	Lowering speed, laden/unladen	m/s		0,48/0,46			0,48/0,46			
	5.5	Drawbar pull, laden/unladen	N	----	----	----	----	----	----	----	
	5.6	Max. Drawbar pull, laden/unladen	N	----	----	----	----	----	----	----	
	5.7	Gradeability, laden/unladen S2 30 min.	%	12,5/19,5	10,5/17,5	9/15,5	11/18	9,5/16,5	8/14	7,5/13	
	5.8	Max. Gradeability laden/unladen S2 5 min.	%	16,5/25,5	14/23	12/20	14,5/23,5	12,5/21,5	10,5/18,5	10/17,5	
	5.9	Acceleration time, laden/unladen 10m	s	----	----	----	----	----	----	----	
	5.10	Service brake			Hydr./Elect.			Hydr./Elect.			
Electric-Motor	6.1	Drive motor rating S2 60 min.	kW		2x8,5			2x8,5			
	6.2	Lift motor rating S3 15%	kW		24			24			
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no			43536 A			43536 A			
	6.4	Battery voltage, nominal capacity k5	V/Ah		80x620			80x775			
	6.5	Battery weight	kg		1558			1850			
	6.6	Energy consumption acc. To VDI cycle	kWh/h	----	----	----	----	----	----		
Addition data	8.1	Type of drive control			AC/Inverter			AC/Inverter			
	8.2	Operating pressure for attachments	bar		140			140			
	8.3	Oil volume for attachments	l/min		----			----			
	8.4	Sound level at the driver's ear acc. To DIN 12 053	dB (A)		----			----			
	8.5	Towing coupling, type DIN			----			----			

1) +20 mm with integral sidesighter included; 2) +30 mm with integral sidesighter included.
TECNA products and Specifications are submitted to modifications without previous notification.



Designation	Lift height h3 mm	Free lift h2 mm	Height lowered upright h1 mm		Height extended upright h4 mm		Tilt Forward/ Backward	
			TSD20-25-30 (D-E)	TSD 35 (F)	TSD 20-25-30 (D-E)	TSD 35 (F)		TSD 20-25-30 (D-E)
DUPLEX	3080	150	150	2123	2168	3738	3798	6/6
	3306 ¹⁾	150	150	2236	2281	3964	4024	6/6
D 21	3630	150	150	2398	2443	4288	4348	6/6
E 21	3930	150	150	2698	2743	4888	4948	6/6
F 21	4230	150	150	2848	2893	5188	5248	6/6
	4530	150	150	2848	2893	5188	5248	6/6
DUPLEX	3130	1430	1415	2123	2168	3823	3883	6/6
Free lift	3350	1543	1528	2236	2281	4043	4103	6/6
	3700	1720	1705	2413	2458	4393	4453	6/6
D 22	4100	1920	1905	2613	2658	4793	4853	6/6
E 22	4500	2120	2105	2813	2858	5193	5253	6/6
F 22	4900	2320	2305	3013	3058	5593	5653	6/6
	4660	1430	1415	2123	2168	5353	5413	6/6
TRIPLEX	5000	1543	1528	2236	2281	5693	5753	6/6
D 32	5500	1720	1705	2413	2458	6193	6253	6/6
E 32	6000	1920	1905	2613	2658	6693	6753	6/4
F 32	6500	2120	2105	2813	2858	7193	7253	6/4
	7000	2320	2305	3013	3058	7693	7753	6/2

Table of load capacities (kg)

Model	TSD 20 S				TSD 25 S / 25				TSD 30 S / 30				TSD 35				TSD 35 L																							
	Superelastic tyre								7.00-12								7.00-12								27x10-12								27x10-12							
	Tread, front								1028								1028								1096								1096							
Designation	Fork carriage		Integrated sideshift		Fork carriage		Integrated sideshift		Fork carriage		Integrated sideshift		Fork carriage		Integrated sideshift		Fork carriage		Integrated sideshift		Fork carriage		Integrated sideshift																	
	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)	c (mm)																	
DUPLEX	500	600	500	600	500	600	700	500	600	700	500	600	500	600	500	600	500	600	500	600	600	700	600	700																
	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
D 21	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
E 21	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
F 21	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
	1925	1800	1825	1675	2400	2250	2075	2300	2125	1950	2875	2725	2725	2525	3350	3175	3200	2950	3350	3200	3250	3000	3250	3000																
DUPLEX	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
Free lift	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
D 22	2000	1800	1850	1675	2500	2250	2075	2350	2125	1950	3000	2725	2775	2525	3500	3175	3250	2950	3500	3200	3250	3000	3250	3000																
E 22	1925	1800	1825	1675	2425	2250	2075	2325	2125	1950	2900	2725	2750	2525	3375	3175	3225	2950	3375	3200	3225	3000	3225	3000																
F 22	1775	1750	1625	1650	2200	2175	2075	2125	2075	1950	2650	2600	2500	2450	3075	3025	2950	2900	3100	3025	2950	2900	2950	2900																
TRIPLEX	1875	1800	1775	1675	2325	2250	2075	2250	2125	1950	2800	2725	2650	2525	3250	3175	3125	2950	3275	3200	3125	3000	3125	3000																
	1750	1700	1650	1625	2150	2125	2075	2075	2025	1950	2575	2525	2450	2400	3000	2950	2875	2825	3025	2950	2875	2825	2875	2825																
D 32	1550	1525	1475	1450	1900	1875	1850	1825	1800	1775	2250	2200	2125	2100	2625	2575	2500	2475	2625	2600	2525	2475	2525	2475																
E 32	1375	1375	1325	1300	1675	1650	1625	1600	1575	1550	1925	1900	1825	1800	2250	2225	2150	2150	2275	2225	2175	2150	2175	2150																
F 32	1225	1200	1175	1150	1450	1425	1400	1375	1375	1350	1650	1625	1550	1525	1925	1875	1825	1800	1925	1900	1850	1825	1850	1825																
	1075	1075	1025	1000	1250	1225	1200	1200	1175	1150	1375	1375	1325	1300	1625	1600	1550	1525	1625	1600	1550	1525	1550	1525																

1) Standard. Specifications are without obligations for typographical errors.