

TX Series

1.25 - 2.0 Tonne



STANDARD SPECIFICATIONS

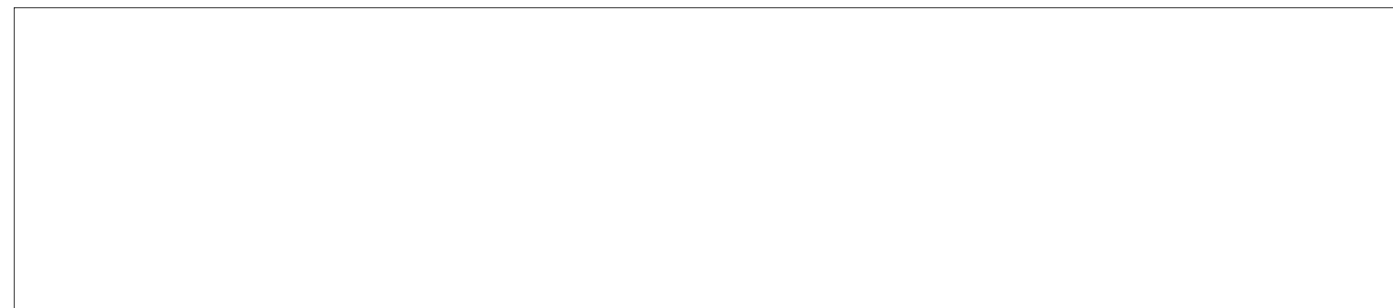
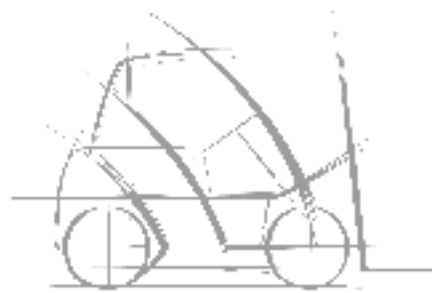
		Counterbalance trucks	Data sheet for materials handling equipment							VDI 2198	
		Designation according VDI 3586									
June 2005		Manufacturers Data and Design Characteristics								Registration note	
CHARACTERISTICS	1.1	Manufacturer		Nissan	Nissan	Nissan	Nissan	Nissan	Nissan	Nissan	
	1.2	Model name		TX-13	TX-15	TX-15	TX-16	TX-18	TX-18	TX-20	
	1.3	Power unit		Electric	Electric	Electric	Electric	Electric	Electric	Electric	
	1.4	Operation		Sit	Sit	Sit	Sit	Sit	Sit	Sit	
	1.5	Load capacity	t	1.25	1.5	1.5	1.6	1.75	1.8	2.0	
	1.6	Load centre	mm	500	500	500	500	500	500	500	
	1.8	Front overhang	mm	365	365	365	365	370	370	370	
	1.9	Wheel base	mm	1195	1195	1300	1410	1300	1410	1410	
	WEIGHTS	2.1	Service weight	kg	2815	3135	3010	3160	3210	3370	3480
		2.2	Axle load with load, front/rear	kg	3595/470	4060/575	4030/480	4230/530	4445/515	4645/525	4965/515
2.3		Axle load without load, front/rear	kg	1435/1380	1470/1665	1530/1480	1645/1515	1520/1690	1730/1640	1725/1755	
WHEELS & TYRES	3.1	Tyres front/rear (C=Cushion,SE=superelastic)	SE(C)/SE(C)								
	3.2	Tyre size, front		18x7-8	18x7-8	18x7-8	18x7-8	200/50-10	200/50-10		
	3.3	Tyre size, rear		15x4.5-8	15x4.5-8	15x4.5-8	140/55-9	140/55-9	140/55-9		
	3.5	Wheels, number front/rear (x=powered)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2		
	3.6	Tread, front	mm	913 (930)	913 (930)	913 (930)	933 (930)	913 (930)	930 (930)		
	3.7	Tread, rear	mm	176	176	176	176	176	176		
	DIMENSIONS	4.1	Tilt Mast/carriage, forward/backward	(°)	4/6	4/6	4/6	4/6	4/6	4/6	
4.2		Height mast fully lowered	mm	1955	1955	1955	1955	1955	1955		
4.3		Free lift	mm	95	95	95	95	95	95		
4.4		Lift height	mm	3000	3000	3000	3000	3000	3000		
4.5		Height mast fully extended	mm	3580	3580	3580	3580	3580	3580		
4.7		Overhead guard height	mm	2110	2110	2110	2110	2110	2110		
4.8		Seat height/standing height	mm	957	957	957	957	957	957		
4.12		Towing coupler height	mm	495	495	495	495	495	495		
4.19		Overall length	mm	2685	2685	2790	2900	2795	2905		
4.20		Length to fork face	mm	1785	1785	1890	2000	1895	2005		
4.21		Overall width ¹⁾	mm	1070 (1105)	1070 (1105)	1070 (1105)	1090 (1105)	1070 (1105)	1120 (1105)		
4.22		Fork dimensions	mm	35x100x900	35x100x900	35x100x900	35x100x900	40x100x900	40x100x900		
4.23		Carriage DIN 15173, Class / Form A,B		2A	2A	2A	2A	2A	2A		
4.24		Carriage width	mm	920	920	920	920	920	920		
4.31		Mast underclearance loaded	mm	75	75	75	75	75	75		
4.32	Underclearance centre wheelbase	mm	100	100	100	100	100	100			
4.33	Right angle stacking aisle with pallet 1000 x 1200 across forks	mm	3110	3110	3215	3325	3215	3330			
4.34	Right angle stacking aisle with pallet 800 x 1200 across forks	mm	2930	2930	3035	3145	3035	3150			
4.35	Turning radius	mm	1420	1420	1525	1635	1525	1635			
PERFORMANCE	5.1	Travelling speed with/without load	km/h	13.5/13.5	13.5/13.5	13.5/13.5	15.0/16.0	13.5/13.5	15.0/16.0		
	5.2	Lifting speed with/without load	mm/s	330/500	300/500	300/500	400/600	270/500	370/600		
	5.3	Lowering speed with/without load	mm/s	500/550	500/550	500/550	500/550	500/550	500/550		
	5.6	Drawbar pull, with/without load	kN	10.5/10.5	10.5/10.5	10.5/10.5	10.5/10.5	10.5/10.5	10.5/10.5		
	5.8	Gradeability with/without load	%	24.1/34.8	20.8/30.9	21.3/31.2	20.4/30.4	19.1/29.6	17.9/27.8		
	5.9	Acceleration with/without load	s	4.6/4.2	4.8/4.3	4.8/4.3	4.4/4.0	4.9/4.4	4.6/4.1		
DRIVE	6.1	Service brake	Hydraulic/Electric								
	6.1	Traction motor performance, 1hr. rating	kW	5.0X2	5.0X2	5.0X2	5.0X2	5.0X2	5.0X2		
	6.2	Lift motor performance, 20% rating	kW	8.0	8.0	8.0	11.0	8.0	11.0		
	6.3	Battery according	DIN43531A								
	6.4	Battery voltage/rated capacity (5h) ²⁾	V/Ah	48/375	48/430	48/460	48/625	48/460	48/750		
	6.5	Battery weight (±5%)	kg	550	650	710	930	710	1100		
OTHERS	8.1	Type of drive control	NISSAN AC TECH - MOS-FET inverter								
	8.2	Working pressure attachments	bar	120	120	120	120	120	120		

¹⁾ Figure in brackets refer to cushion tyres. ²⁾ Larger capacity batteries on request.

MAST SPECIFICATIONS & RATED CAPACITIES

Mast type	Mast name	Maximum fork height (mm) ¹⁾	Overall Height		Free Lift	Tilt angle	Load capacity ²⁾						
			Fully lowered (mm) ¹⁾	Fully extended Without backrest (mm) ¹⁾	Without backrest (mm) ¹⁾	Forward/backward/degrees	Load centre 500 mm						
							1.25 tonne (kg) ¹⁾	1.5 tonne ³⁾ (kg) ¹⁾	1.5 tonne (kg) ¹⁾	1.6 tonne (kg) ¹⁾	1.75 tonne (kg) ¹⁾	1.8 tonne (kg) ¹⁾	2.0 tonne (kg) ¹⁾
TWO STAGE WIDE VIEW	2W270	2700	1805	3280	95	4-6	1250	1500	1500	1600	1750	1800	2000
	2W300	3000	1955	3580	95	4-6	1250	1500	1500	1600	1750	1800	2000
	2W330	3300	2105	3880	95	4-6	1250	1500	1500	1600	1750	1800	2000
	2W350	3500	2240	4080	95	4-6	1250	1500	1500	1600	1750	1800	2000
	2W370	3700	2365	4280	95	4-6	1250	1500	1500	1600	1750	1800	2000
	2W400	4000	2555	4580	95	4-6	1250	1500	1500	1600	1700	1750	1950
	2W450	4500	2805	5080	95	4-6	1150	1450	1450	1500	1600	1650	1850
TWO STAGE FULL FREE	2F270	2700	1805	3280	1260	4-6	1250	1500	1500	1600	1750	1800	2000
	2F300	3000	1955	3580	1410	4-6	1250	1500	1500	1600	1750	1800	2000
	2F330	3300	2105	3880	1560	4-6	1250	1500	1500	1600	1750	1800	2000
	2F350	3500	2240	4080	1695	4-6	1250	1500	1500	1600	1750	1800	2000
	2F370	3700	2365	4280	1820	4-6	1250	1500	1500	1600	1700	1750	1950
	2F400	4000	2555	4580	2010	4-6	1200	1500	1500	1550	1650	1700	1900
THREE STAGE FULL FREE	3F385	3850	1805	4430	1235	5-5	1200	1500	1500	1550	1650	1700	1900
	3F430	4300	1955	4880	1410	5-5	1150	1450	1450	1500	1600	1650	1850
	3F475	4750	2105	5330	1560	5-5	1050	1400	1400	1450	1550	1600	1800
	3F515	5150	2240	5730	1695	5-5	950	1300	1300	1350	1450	1500	1700
	3F550	5500	2365	6080	1820	5-5	950	1200	1200	1300	1250	1400	1600
	3F600	6000	2555	6580	2010	5-5	800	900	900	1250	950	1300	1550
	3F650	6500	2805	7080	2260	5-5	550	700	750	1150	n.a.	1200	1500
THREE STAGE FULL FREE WIDE VIEW	3F700	7000	3055	7580	2510	5-5	350	500	550	1100	n.a.	1150	1450
	3V360	3600	1805	4145	1295	5-5	1150	1400	1400	1550	1500	1700	1850
	3V405	4050	1955	4595	1445	5-5	1100	1350	1350	1500	1500	1650	1800
	3V450	4500	2105	5045	1595	5-5	1050	1300	1300	1450	1500	1600	1700
	3V490	4900	2240	5445	1730	5-5	950	1250	1250	1350	1450	1500	1650
	3V525	5250	2365	5795	1955	5-5	950	1200	1200	1300	1250	1400	1550
	3V575	5750	2555	6295	2045	5-5	800	900	900	1250	950	1300	1500
	3V633	6330	2805	6875	2295	5-5	550	700	750	1150	n.a.	1200	1450
3V688	6880	3055	7425	2545	5-5	350	500	550	1100	n.a.	1150	1400	

¹⁾ 1 inch = 25.4 mm ¹ kg = 0.4536 lb ²⁾ With Super Elastic tyres ³⁾ Short wheel base



NISSAN FORKLIFT EUROPE B.V.

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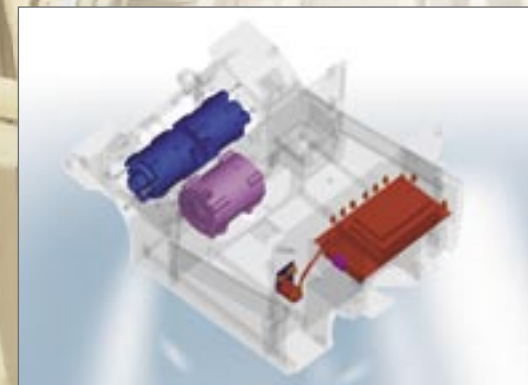


NISSAN TX Series

A new era in electric powered forklift trucks is born with the introduction of the all-new AC powered 3-wheel TX series from Nissan.

With new features and new levels of comfort, safety and design, it makes the operator even more secure - and your materials handling operation even more productive.

With models ranging from 1.25 to 2.0 tonnes to serve multiple applications in both industry and warehouse operations, the Nissan TX has been designed around the operator and his daily workplace. The spacious operator platform and its clearly positioned controls and instrument panel makes this series a pleasure to work with, not a chore.



NISSAN AC TECH

Its remarkable, modern and compact wedge-shape design isn't just for good looks, either. It makes the truck an amazingly manoeuvrable performer, especially in confined areas, while the standard double-rear-wheel provides the highest levels of stability and load capacity - particularly at higher lift heights. The result? Nissan's powerful 48 volt TX Series offers unparalleled productivity to achieve your daily materials handling goals.

In operation, the TX is a smooth operator too. Its innovative, state-of-the-art AC TECH controller provides optimum performance and maximum economy. Then there's Nissan's renowned product quality - an asset that comes with all Nissan Forklift trucks and provides the solid basis for long lasting, trouble free life.



FINGERTIP

LIFT efficiency

The Nissan TX three-wheeler is designed to deliver high productivity at very low cost of ownership. Key elements towards achieving this are:

- Supreme operator comfort and ergonomics.
- High productivity and extended working hours.
- High truck up-time.

Supreme operator comfort and ergonomics

An excellent operator's environment has always been paramount in Nissan's design philosophy.

A wide step and ample legroom make access to the wide-space cabin easy, while the multi-adjustable suspension seat and the adjustable steering wheel allow each operator to select his ideal driving position.

High productivity and extended working hours

Nissan's state-of-the-art Nissan AC TECH controller combines low energy consumption with high truck performance to make the TX go on working while other trucks are back in the charging bay.

Three regenerative braking systems, load sensing power steering and Auto Power Off are systems which increase the number of working hours per battery charge even further.

High truck up-time

Maintenance intervals with the new TX Series have been extended to 1200 operating hours, and thanks to Nissan's AC TECH controller and the six-disk wet type brakes, service on electric motors and brakes is reduced to a minimum.



WET-TYPE brakes

Effortless, natural operation is crucial in protecting the operator's health and maximising his potential for productivity. So, with standard hydraulic levers on Nissan's TX Series conveniently located right next to the seat, passenger car type pedal lay out to avoid confusion and smooth Fuzzy Logic Acceleration Control, all the operator has to do is to focus on the job in hand.

The TX's AC TECH controller includes a Built-In-Test-Equipment (BITE) module. Through the instrument panel, the service engineer can perform diagnostics and troubleshooting automatically. This permits the rapid location of any problem, so increasing the truck's potential for up-time.

Truck deceleration takes place automatically when the opposite travel direction is engaged or the foot is lifted from the accelerator pedal.

FINGERTIP control on the armrest and Steering Synchroniser, which provides a fixed position of the steering wheel knob relative to the position of the rear wheels, are options to improve natural operation and productivity even further.

Nissan TX, conceived with the demands of the operator in mind.

LIFT safety

Safety is vital to any forklift operation and it forms the very basis of the Nissan TX's design process.

The TX's RRS (Risk Reduction System) makes a major contribution to the operator's safety and well being and its wide range of designs and functions is incorporated as standard:

- Excellent all round visibility.
- Mast Lock System: Forks cannot be lowered and the mast cannot be tilted if the operator leaves the seat.
- Turn Control: Automatic restriction of travel speed and acceleration during turning.
- Lift Control: Restriction of lift speed at fast truck travel.
- Anti Rollback: Truck moves down the gradient only slowly, when accelerator is released.
- Parking brake with lock release button.

The Nissan AC TECH controller continuously monitors and communicates the forklift's truck status such as travel speed and steering wheel angle through the instrument panel. The five function keys can be used to adjust the truck's performance to ensure the safest operating parameters according to operator experience and the load or handling conditions.

Safety is further enhanced through the optional FINGERTIP Control on the armrest. The operator can concentrate fully on the truck's movements, with the left hand remaining on the steering wheel at all time and the right hand controlling all hydraulic functions, travel direction and horn.

Nissan TX, safety when every second counts.



Instrument panel

LIFT efficiency