

STANDARD SPECIFICATIONS

October 2011		Counterbalance trucks Designation according VDI 3586		Data sheet for materials handling equipment		VDI 2198 Registration note	
Manufacturers Data and Design Characteristics							
CHARACTERISTICS	1.1	Manufacturer	Nissan Forklift	Nissan Forklift	Nissan Forklift		
	1.2	Model name	ZX-60	ZX-70	ZX-80		
	1.3	Power unit: Electric, Diesel, Gasoline, LPG, others	Diesel	Diesel	Diesel		
	1.4	Operation: Sit, Hand, Pedestrian, Standing, Seated	Seated	Seated	Seated		
	1.5	Load capacity	Q (t)	6,0	7,0	8,0	
	1.6	Load centre distance	c (mm)	600	600	600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	615	625	720	
	1.9	Wheel base	y (mm)	2250	2250	2500	
	WEIGHTS	2.1	Service weight	kg	8800	9580	11230
2.2		Axle load with load, front/rear	kg	13150/1650	14670/1910	17120/2110	
2.3		Axle load without load, front/rear	kg	3910/4890	3860/5720	4900/6330	
WHEELS & TIRES	3.1	Tyres: cushion, super elastic, pneumatic, polyurethane	Pneumatic				
	3.2	Tyre size, front	8.25x15-14PR	8.25x15-14PR	9.00x20-14PR		
	3.3	Tyre size, rear	8.25x15-14PR	8.25x15-14PR	9.00x20-14PR		
	3.5	Wheels, number front/rear (x = driven wheels)	4x/2	4x/2	4x/2		
	3.6	Tread, front	b10(mm)	1470	1470	1600	
	3.7	Tread, rear	b11(mm)	1700	1700	1700	
	DIMENSIONS	4.1	Tilt of mast, forward/backward	α/β (°)	6/12	6/12	6/12
4.2		Height, mast lowered	h1 (mm)	2500	2500	2700	
4.3		Free lift	h2 (mm)	205	215	205	
4.4		Lift	h3 (mm)	3000	3000	3000	
4.5		Height, mast extended	h4 (mm)	4420	4420	4420	
4.7		Height of overhead guard	h6 (mm)	2530	2530	2640	
4.8		Seat height	h7 (mm)	1390	1390	1500	
4.12		Towing coupling height	h10 (mm)	485	485	570	
4.19		Overall length	l1 (mm)	4785	4860	5200	
4.20		Length to face of forks	l2 (mm)	3565	3640	3980	
4.21		Overall width	b1 (mm)	1995	1995	2165	
4.22		Fork dimensions	s/e/l (mm)	60x150x1220	70x150x1220	75x180x1370	
4.23		Fork carriage DIN 15173, class / type A, B		4A	4A	4A	
4.24		Fork carriage width	b3 (mm)	1835	1835	2000	
4.31		Ground clearance, loaded, below mast	m1 (mm)	195	195	245	
4.32		Ground clearance, centre of wheelbase	m2 (mm)	245	245	325	
4.33		Aisle width for pallets with standard fork length	Ast (mm)	5355	5425	5920	
4.35	Turning radius	Wa (mm)	3320	3380	3630		
4.36	Internal turning radius	b13 (mm)	200	200	200		
PERFORMANCE	5.1	Travel speed, with/without load	km/h	29/31	29/31	28.5/32	
	5.2	Lift speed, with/without load	m/s	500/520	500/520	450/470	
	5.3	Lowering speed, with/without load	m/s	450/500	450/500	450/450	
	5.5	Drawbar pull, with/without load	kN	54.9/21.6	54.9/21.6	59.8/27.5	
	5.7	Gradeability, with/without load	%	31/20	31/16	28/20	
	5.10	Service brake		Hydraulic			
	DRIVE	7.1	Engine manufacturer / type	ISUZU 4HK1-TC	ISUZU 4HK1-TC	ISUZU 4HK1-TC	
7.2		Engine rated power according to ISO 1585	kW	87,0	87,0	87,0	
7.3		Rated engine speed	min-1	2000	2000	2000	
7.4		Number of cylinders / displacement	cm3	4/5193	4/5193	4/5193	
OTHERS	8.1	Type of drive control	Automatic power shift: 2 forward / 2 reverse				
	8.2	Operating pressure for attachments	bar	200	200	200	

MAST SPECIFICATIONS & RATED CAPACITIES: ZX-60 & ZX-70

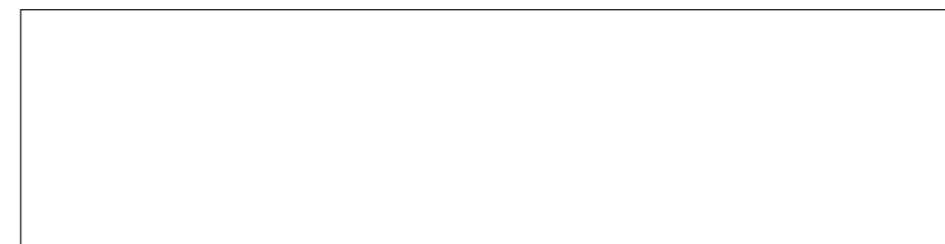
Mast Type	Mast Type	Maximum Fork height	Overall Height				Free Lift		Tilt angle Forward/backward	Load Capacity ²⁾	
			Fully lowered	Fully extended		Without backrest	With STD backrest	6.0 tonne		7.0 tonne	
				Without backrest	With STD backrest						
TWO STAGE WIDE VIEW	2W 250	2500	2250	3595	3920	205*	205*	6/12	6000	7000	
	2W 270	2700	2350	3795	4120	205*	205*	6/12	6000	7000	
	2W 275	2750	2375	3845	4170	205*	205*	6/12	6000	7000	
	2W 300	3000	2500	4095	4420	205*	205*	6/12	6000	7000	
	2W 330	3300	2650	4395	4720	205*	205*	6/12	6000	7000	
	2W 350	3500	2750	4595	4920	205*	205*	6/12	6000	7000	
	2W 400	4000	3050	5095	5420	205*	205*	6/12	6000	7000	
	2W 450	4500	3300	5595	5920	205*	205*	6/12	6000	7000	
	2W 500	5000	3550	6095	6420	205*	205*	6/6	6000	7000	
	2W 550	5500	3850	6595	6920	205*	205*	3/6	5700	6600	
TWO STAGE FULL FREE LIFT	2F 250	2500	2250	3595	3920	1205*	980*	6/12	6000	7000	
	2F 270	2700	2350	3795	4120	1305*	980*	6/12	6000	7000	
	2F 275	2750	2375	3845	4170	1330*	1005*	6/12	6000	7000	
	2F 300	3000	2625	4095	4420	1580*	1255*	6/12	6000	7000	
	2F 330	3300	2775	4395	4720	1730*	1405*	6/12	6000	7000	
	2F 350	3500	2875	4595	4920	1830*	1505*	6/12	6000	7000	
	2F 400	4000	3175	5095	5420	2130*	1805*	6/12	6000	7000	
	2F 450	4500	3425	5595	5920	2380*	2055*	6/12	6000	7000	
	3F 360	3600	2375	4675	5000	1330*	1005*	6/10	5500	6200	
	3F 400	4000	2500	5075	5400	1455*	1130*	6/10	5500	6200	
THREE STAGE FULL FREE LIFT	3F 435	4350	2625	5425	5750	1580*	1255*	6/10	5500	6200	
	3F 480	4800	2775	5875	6200	1730*	1405*	6/10	5500	6200	
	3F 500	5000	2875	6075	6400	1830*	1505*	6/10	5500	6200	
	3F 600	6000	3300	7075	7400	2255*	1930*	3/6	5000	5500	
	3F 700	7000	3675	8075	8400	2630*	2305*	3/6	3500	3700	
	3F 800	8000	4100	9075	9400	3055*	2730*	3/6	2200	2300	

¹⁾ 1 inch = 25.4 mm 1kg = 0.4536 lb ²⁾ Capacity with double pneumatic tires * For 7.0 tonne add 10 mm.

MAST SPECIFICATIONS & RATED CAPACITIES: ZX-80

Mast Type	Mast Type	Maximum Fork height	Overall Height				Free Lift		Tilt angle Forward/backward	Load Capacity ²⁾	
			Fully lowered	Fully extended		Without backrest	With STD backrest	8.0 tonne		Load center 600 mm	
				Without backrest	With STD backrest						
TWO STAGE WIDE VIEW	2W 250	2500	2450	3715	3920	205	205	6/12	8000		
	2W 270	2700	2550	3915	4120	205	205	6/12	8000		
	2W 275	2750	2575	3965	4170	205	205	6/12	8000		
	2W 300	3000	2700	4215	4420	205	205	6/12	8000		
	2W 330	3300	2850	4515	4720	205	205	6/12	8000		
	2W 350	3500	2950	4715	4920	205	205	6/12	8000		
	2W 400	4000	3250	5215	5420	205	205	6/12	8000		
	2W 450	4500	3500	5715	5920	205	205	6/12	8000		
	2W 500	5000	3750	6215	6420	205	205	6/6	7750		
	2W 550	5500	4050	6715	6920	205	205	3/6	7400		
TWO STAGE FULL FREE LIFT	2F 250	2500	2450	3715	3920	1300	1095	6/12	8000		
	2F 270	2700	2550	3915	4120	1400	1195	6/12	8000		
	2F 275	2750	2575	3965	4170	1425	1220	6/12	8000		
	2F 300	3000	2700	4215	4420	1550	1345	6/12	8000		
	2F 330	3300	2850	4515	4720	1700	1495	6/12	8000		
	2F 350	3500	2950	4715	4920	1800	1595	6/12	8000		
	2F 400	4000	3250	5215	5420	2100	1895	6/12	8000		
	2F 450	4500	3500	5715	5920	2350	2145	6/12	8000		
	3F 360	3600	2450	4795	5000	1300	1095	6/10	7000		
	3F 400	4000	2575	5195	5400	1425	1220	6/10	7000		
THREE STAGE FULL FREE LIFT	3F 435	4350	2700	5545	5750	1550	1345	6/10	7000		
	3F 480	4800	2850	5995	6200	1700	1495	6/10	7000		
	3F 500	5000	2950	6195	6400	1795	1590	6/10	7000		
	3F 600	6000	3375	7195	7400	2225	2020	3/6	6000		
	3F 700	7000	3750	8195	8400	2600	2395	3/6	4500		
	3F 800	8000	4175	9195	9400	3025	2820	3/6	2500		

¹⁾ 1 inch = 25.4 mm 1kg = 0.4536 lb ²⁾ Capacity with double pneumatic tires.



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NISSAN FORKLIFT EUROPE B.V.

<http://www.Nissan-nfe.com> CEN-ZX-01.NFE/11-10-POD Printed in the Netherlands

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NISSAN FORKLIFT

ZX Serie

6.0 – 80 tonne

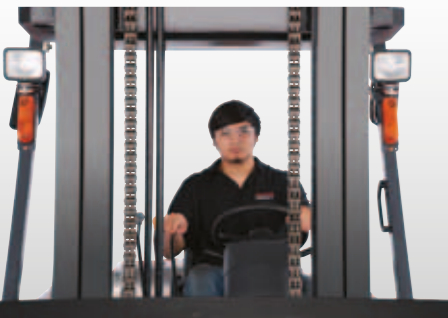
Ergonomic instrument panel

A model of ergonomic design, the instrument panel enhances driving ease and provides quick recognition of vehicle status.



Wide angle visibility

This optimal view provides the operator with a clear sight-line to perform manoeuvres, thereby improving productivity and reducing the risk of damaging the load.



Easy to service

Several simple and clever designed items make the ZX Series easy and quick to service. This includes the rear axle with built-in cylinder and boltless removable floorboard.



Smart, Powerful Technology

Return-To-Neutral

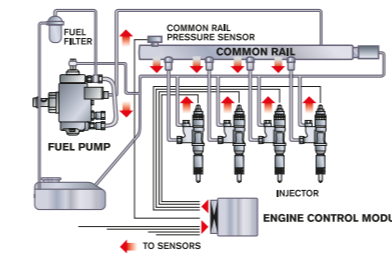
The seat actuated Return-to-Neutral system is engaged when the operator leaves the seat while the transmission is in gear. It disengages the forward and reverse transmission solenoids within three seconds to prevent further forklift movement.

Strong and safe mast

Nissan Forklift's mast design offers uncompromised strength, precision and visibility, with fast lifting up to 8 meters high.

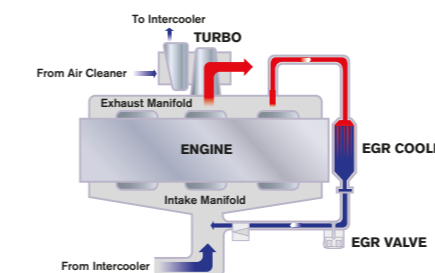
Common rail technology

By controlling extensive engine-related functions, the diesel Engine Control Module (ECM) ensures peak performance levels with extremely low emissions.



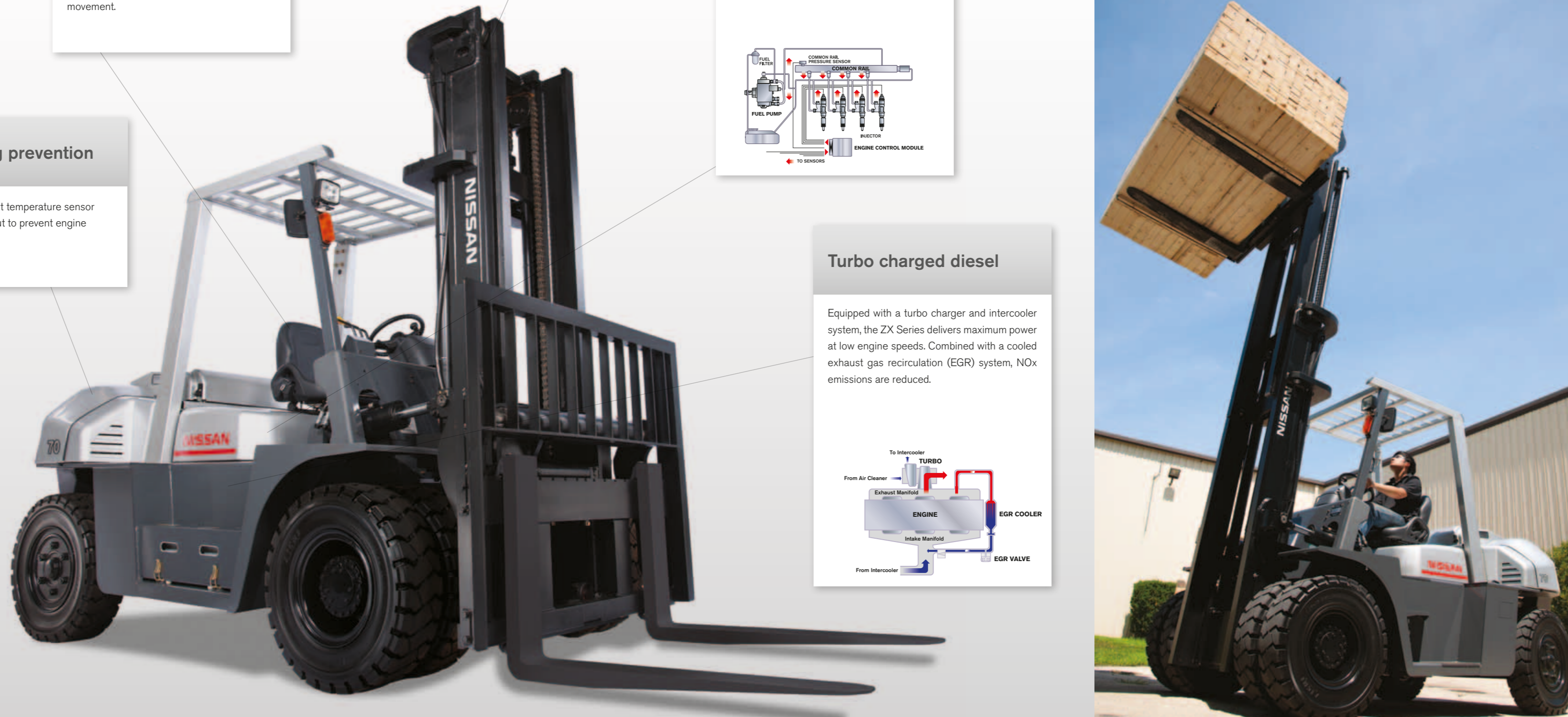
Turbo charged diesel

Equipped with a turbo charger and intercooler system, the ZX Series delivers maximum power at low engine speeds. Combined with a cooled exhaust gas recirculation (EGR) system, NOx emissions are reduced.



Overheating prevention

The automatic coolant temperature sensor reduces engine output to prevent engine overheating.



Heavyweight performer



The Nissan Forklift ZX Series delivers productivity and performance with a powerful diesel engine for long life and maximum efficiency. This powerful workhorse can lift large loads up to 8 tons effortlessly. In heavy industrial environments and under extreme conditions, is where the ZX excels.

Powering the heart of this machine is one of the most modern diesel engine technology available. The common rail fuel injection system uses the optimal amount of fuel at the perfect time for improved fuel economy. The high power and torque is available at low engine speeds thanks to the turbocharger and intercooler. Finally, the ZX Series complies easily with the latest European emission regulations.

Steering Synchroniser (optional)

For safer operation and greater productivity, a sensor checks the steering and tire angle to enable the steering wheel to be returned precisely to the correct position for straight-line steering.

