NEXEN

LIFT TRUCK TECHNOLOGY

Nexen Relevo
FDR50 (5.0t)
Diesel Fork Lift

Specification Sheet

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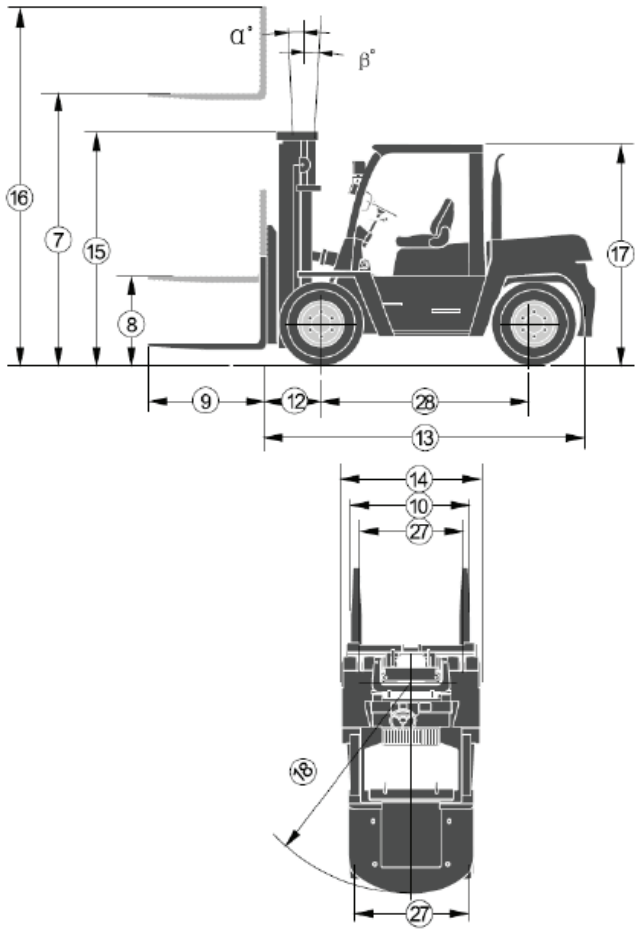
NEXEN RELEVO FDR50

CHARACTERISTICS	1.1	Manufacturer		**Nexen**	**Nexen**	**Nexen**	**Nexen**	**Nexen**
	1.2	Model designation		**FDR50**	**FDR50**	**FDR50**	**FDR50**	**FDR50**
		Model – Manufacturer designation		Relevo	Relevo	Relevo	Relevo	Relevo
		Engine		CHINA CY6102BG-2	CHINA LR4B3	ISUZU 6BG1QP	ISUZU 6BG1QP	CUMMINS QSB4.5-C110
		Transmission		Powershift	Powershift	Powershift	Powershift	Powershift
	1.3	Drive		Diesel	Diesel	Diesel	Diesel	Diesel
	1.4	Operation		Seated	Seated	Seated	Seated	Seated
	1.5	Load capacity / rated load	Q (kg)	5000	5000	5000	5000	5000
	1.6	Load centre distance	c (mm)	600	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	595.5	595.5	595.5	595.5	595.5
	1.9	Wheelbase	y (mm)	2250	2250	2250	2250	2300
WEIGHTS	2.1	Service weight 💻	kg	8000	8000	8000	8000	8000
	2.2	Axle loading, laden, front/rear 💻	kg	☎	☎	☎	☎	☎
	2.3	Axle loading, unladen, front/rear 💻	kg	☎	☎	☎	☎	☎
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid		L	L	L	L	L
	3.2	Tyre size, front		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR
	3.3	Tyre size, rear		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR
	3.5	Wheels, number front rear (X=driven wheels)		2/2	2/2	2/2	2/2	2/2
	3.6	Tread, front	b_{10} (mm)	1489	1489	1489	1489	1489
	3.7	Tread, rear	b_{11} (mm)	1460	1460	1460	1460	1460
DIMENSIONS	4.1	Mast tilt, α = forward / β = back (base duplex mast)	degrees	6/12	6/12	6/12	6/12	6/12
	4.2	Height of mast, lowered	h_1 (mm)	2500	2500	2500	2500	2500
	4.3	Free lift 🈳	h_2 (mm)	160	160	160	160	160
	4.4	Lift 🈳	h_3 (mm)	3000	3000	3000	3000	3000
	4.5	Height, mast extended ☑	h_4 (mm)	4420	4420	4420	4420	4420
	4.7	Height of overhead guard (cabin) ⇳	h_6 (mm)	2340	2340	2340	2340	2340
	4.8	Seat height / stand height ☐	h_7 (mm)	☎	☎	☎	☎	☎
	4.12	Coupling height	h_{10} (mm)	☎	☎	☎	☎	☎
	4.19	Overall length (inc. standard forks)	l_1 (mm)	☎	☎	☎	☎	☎
	4.2	Length to face of forks	l_2 (mm)	3460	3460	346	3460	3510
	4.21	Overall width, standard/wide/double	b_1/b_2(mm)	1990	1990	1990	1990	1990
	4.22	Fork dimensions	s/e/l (mm)	1200x150x60	1200x150x60	1200x150x60	1200x150x60	1200x150x60
	4.23	Fork carriage DIN 15173, class/type A,B		☎	☎	☎	☎	☎
	4.24	Fork carriage width ⇔	b_3 (mm)	☎	☎	☎	☎	☎
	4.31	Ground clearance, laden, below mast	m_1 (mm)	170	170	170	170	170
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	☎	☎	☎	☎	☎
	4.33	Aisle width for pallets 1000x1200 crossways ☝	Ast (mm)	☎	☎	☎	☎	☎
	4.34	Aisle width for pallets 800x1200 crossways ☝	Ast (mm)	☎	☎	☎	☎	☎
	4.35	Outer turning radius	W_a (mm)	3160	3160	3160	3160	3210
	4.36	Inner turning radius	b_{13} (mm)	☎	☎	☎	☎	☎
PERFORMANCE	5.1	Travel speed, unload	km/h	26	26	23	26	22
	5.2	Lift speed, laden	mm/sec	468	447	405	405	405
	5.3	Lowering speed, laden	mm/sec	☎	☎	☎	☎	☎
	5.5	Drawbar pull, laden/unladen 💻	N	☎	☎	☎	☎	☎
	5.6	Max. drawbar pull, laden/unladen 💻	KN	☎	☎	☎	☎	☎
	5.7	Gradeability, laden/unladen 💻	%	☎	☎	☎	☎	☎
	5.8	Max. gradeability, laden	%	20	20	20	20	20
	5.1	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
ENGINE	7.1	Engine manufacturer/type		CHINA CY6102BG-2	CHINA LR4B3	ISUZU BG1QP	ISUZU BG1QP	CUMMINS QSB4.5-C110
	7.2	Engine power acc. to ISO 1585 / DIN 6271	kW	81	64	84.6	84.6	82
	7.3	Rated speed	rpm	2500	2400	2200	2200	2200
	7.4	Number of cylinders/displacement	cm^3	6/5785	4/4580	6/6494	6/6494	4/4460
OTHER	8.1	Type of drive control		Automatic	Automatic	Automatic	Okamura	Automatic
	8.2	Operating pressure for attachments	bar	190	190	190	190	190
	8.3	Oil volume for attachments	l/min	☎	☎	☎	☎	☎
	8.4	Average noise level at operator's ear (Lpaz)	dB (A)	☎	☎	☎	☎	☎
		Guaranteed sound power 2001/14/EC (Lwaz))	dB	☎	☎	☎	☎	☎
	8.5	Towing coupling, type DIN		☎	☎	☎	☎	☎

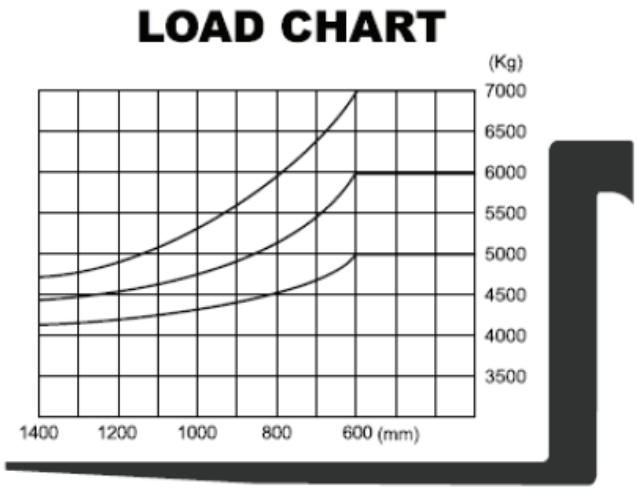
SPECIFICATION DATA ACCORDING TO VDI 2198

MAST SPECIFICATIONS

Type	Max fork height	Overall Height			Free Lift		Front Overhang	Tilt range		Capacity	
		Lowered	Extended		W/out Backrest	With Backrest		FWD	BWD	Load Capacity at 500mm	
			W/out Backrest	With Backrest						Single Tire	Double Tire
										5t	5t
	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg
Wide view mast	2500	1995	3330	3865	160	160	555	6	12	5000	5000
	2700	2095	3530	4065	160	160	555	6	12	5000	5000
	3000	2245	3830	4365	160	160	555	6	12	5000	5000
	3300	2395	4130	4665	160	160	555	6	12	5000	5000
	3500	2495	4330	4865	160	160	555	6	12	5000	5000
	3600	2545	4430	4965	160	160	555	6	12	5000	5000
	4000	2795	4830	5365	160	160	555	6	12	4750	50000
	4300	2960	5130	5665	160	160	555	6	6	4500	4750
	4500	3070	5330	5865	160	160	555	6	6	4250	4500
	4800	3235	5630	6165	160	160	555	6	6	3750	4000
	5000	3345	5830	6365	160	160	555	6	6	3500	37850
Wide view full free 2 stage mast	2500	1976	3365	3865	1114	610	562	6	12	5000	50000
	2750	2100	3615	4115	1238	735	562	6	12	5000	5000
	3000	2226	3865	4365	1364	860	562	6	12	5000	5000
	3300	2376	4165	4665	1514	1010	562	6	12	5000	5000
	3600	2526	4465	4965	1664	1160	562	6	12	5000	5000
Wide view full free 3 stage mast	4000	2080	4860	5365	1222	715	615	6	12	4500	4750
	4300	2180	5160	5665	1322	815	615	6	6	4250	4500
	4500	2248	5370	5880	1390	883	615	6	6	4000	4250
	4800	2340	5660	6170	1482	975	615	6	6	3750	4000
	5000	2410	5860	6370	1552	1045	615	6	6	3500	3750
	5500	2575	6360	6870	1718	1210	615	3	6	2850	3350
	6000	2790	6870	7380	1932	1425	615	3	6	2200	2950



RATED CAPACITIES



LEGEND

Load centre: distance from front forks surface to load gravity centre.
Rated load: based on calculated values for vertical masts.

NOTES

All specifications listed in the tables are affected by the vehicle equipment and condition and also by operating area nature and conditions. Please contact your Nexen forklift truck dealer in case of critical or specific specifications for a proposed application.

LEGEND

💻 - calculated value according to VDI 2198, EN 1726-1, DIN 15 172 and VDI 3973.
- measured between road surface. and top surface of the forks.
☑ - with load backrest.
- h6 subject to +/- 5mm tolerance.
☐ - Full-suspension seat in depressed position.
⇔ - with load backrest. Subtract 16mm if load backrest is removed
- Values based on the VDI 2198 standard calculation. Additional 100mm are recommended by the British Industrial Truck Association for extra operating margin at the rear of the truck.
- Consult your Nexen forklift truck dealer.

Ast = Wa + x + l_6 + a (refer to lines 4.33 and 4.34)
Wa – outer turning radius.
a = 200mm – minimum operating clearance (according to VDI 2198).
x - Load distance, centre of drive axle to fork.
l_6 – load length.

NOTICE

Handle elevated loads with care as the truck stability is reduced when the carriage is lifted up. Keep minimal mast tilt angle during loads elevation. Operators must be trained and adhere to the instructions included in the operating manual.