

NEXEN RELEVO FDR40 / FDR45 / FDR50s

CHARACTERISTICS	1.1	Manufacturer		NEXEN	NEXEN	NEXEN
	1.2	Model designation		FDR40	FDR45	FDR50s
		Model – Manufacturer designation		Relevo	Relevo	Relevo
		Engine		Mitsubishi S6S	Mitsubishi S6S	Mitsubishi S6S
		Transmission		Powershift	Powershift	Powershift
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel
	1.4	Operation: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Load capacity / rated load	Q (kg)	4000	4500	5000
	1.6	Load centre distance	c (mm)	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)			
WEIGHTS	1.9	Wheelbase	y (mm)	2100	2100	2100
	2.1	Service weight	kg	6220	6500	6720
	2.2	Axle loading, laden, front/rear	kg	9020 / 1200	9650 / 1350	10320 / 1400
WHEELS & TYRES	2.3	Axle loading, unladen, front/rear	kg	2760 / 3460	2840 / 3660	2960 / 3760
	3.1	Tyres: L=pneumatic, V=solid		L	L	L
	3.2	Tyre size, front		300-15-18 P.R.	300-15-18 P.R.	300-15-18 P.R.
DIMENSIONS	3.3	Tyre size, rear		7.00-12-12 P.R.	7.00-12-12 P.R.	7.00-12-12 P.R.
	3.5	Wheels, number front rear (X=driven wheels)		2x / 2	2x / 2	2x / 2
	3.6	Tread, front	b ₁₀ (mm)	1190	1190	1190
	3.7	Tread, rear	b ₁₁ (mm)	1130	1130	1130
	4.1	Mast tilt, α = forward / β = back (base duplex mast)	degrees	6 / 12	6 / 12	6 / 12
	4.2	Height of mast, lowered	h ₁ (mm)	2415	2415	2415
	4.3	Free lift	h ₂ (mm)	150	155	155
	4.4	Lift	h ₃ (mm)	3300	3300	3300
	4.5	Height, mast extended	h ₄ (mm)	4130	4130	4130
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2265	2265	2265
PERFORMANCE	4.8	Seat height / stand height	h ₇ (mm)			
	4.12	Coupling height	h ₁₀ (mm)			
	4.20	Length to face of forks	l ₂ (mm)	3215	3280	3280
	4.21	Overall width, standard/wide/double	b ₁ (mm)	1490	1490	1490
	4.22	Fork dimensions	l/w/t (mm)	1070/150/50	1070/150/50	1070/150/55
	4.23	Fork carriage DIN 15173, class/type A,B		IIA	IIA	IIA
	4.24	Fork carriage width $\leftrightarrow$	b ₃ (mm)	1380	1380	1380
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	175	175	175
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)			
	4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)			
2 ENGINE	4.34	Aisle width for pallets 800x1200 crossways	Ast (mm)			
	4.35	Outer turning radius	W _a (mm)	2920	2920	2920
	4.36	Inner turning radius	b ₁₃ (mm)			
OTHER	5.1	Travel speed, laden/unladen	km/h	25	25	25
	5.2	Lift speed, laden/unladen	m/sec	0.61	0.61	0.61
	5.3	Lowering speed, laden/unladen	m/sec	0.42	0.42	0.42
OTHER	5.5	Drawbar pull, laden/unladen	N			
	5.6	Max. drawbar pull, laden/unladen	KN	23	23	23
	5.7	Gradeability, laden/unladen	%			
OTHER	5.8	Max. gradeability, laden/unladen	%	20	20	18
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	6.1	Engine Manufacturer/type		Mitsubishi S6S	Mitsubishi S6S	Mitsubishi S6S
OTHER	6.2	Engine power acc. To ISO 1585 / DIN 6271	kW	52	52	52
	6.3	Rated speed	Rpm	2300	2300	2300
	6.4	Number of cylinders/displacement	Cm ³	6/4996	6/4996	6/4996
OTHER	8.1	Type of drive control		Automatic	Automatic	Automatic
	8.2	Operating pressure for attachments	bar	19	19	19
	8.3	Oil volume for attachments	l/min			
OTHER	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		Pin	Pin	Pin

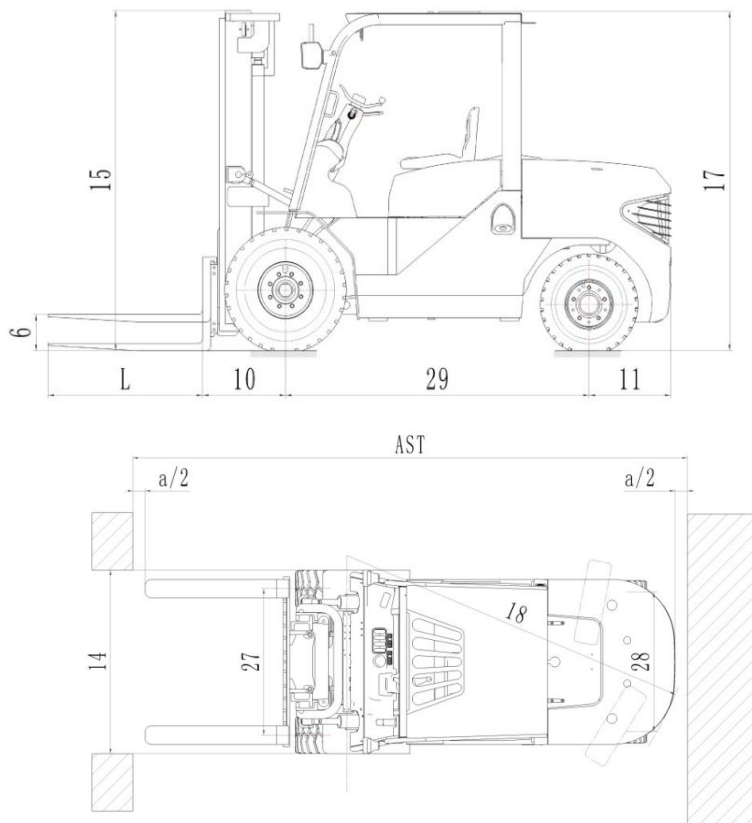
Specification data according to VDI 2198

NEXEN RELEVO FGR40 / FGR45 / FGR50s
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CHARACTERISTICS	1.1	Manufacturer		NEXEN	NEXEN	NEXEN
	1.2	Model designation		FGR40	FGR45	FGR50s
		Model – Manufacturer designation		Relevo	Relevo	Relevo
		Engine		GM 4.3L	GM 4.3L	GM 4.3L
		Transmission		Powershift	Powershift	Powershift
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		LPG	LPG	LPG
	1.4	Operation: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Load capacity / rated load	Q (kg)	4000	4500	5000
	1.6	Load centre distance	c (mm)	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)			
1.9	Wheelbase	y (mm)	2100	2100	2100	
WEIGHTS	2.1	Service weight	kg	6220	6500	6720
	2.2	Axle loading, laden, front/rear	kg	9020 / 1200	9650 / 1350	10320 / 1400
	2.3	Axle loading, unladen, front/rear	kg	2760 / 3460	2840 / 3660	2960 / 3760
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid		L	L	L
	3.2	Tyre size, front		300-15-18 P.R.	300-15-18 P.R.	300-15-18 P.R.
	3.3	Tyre size, rear		7.00-12-12 P.R.	7.00-12-12 P.R.	7.00-12-12 P.R.
	3.5	Wheels, number front rear (X=driven wheels)		2x / 2	2x / 2	2x / 2
DIMENSIONS	3.6	Tread, front	b ₁₀ (mm)	1190	1190	1190
	3.7	Tread, rear	b ₁₁ (mm)	1130	1130	1130
	4.1	Mast tilt, α = forward / β = back (base duplex mast)	degrees	6 / 12	6 / 12	6 / 12
	4.2	Height of mast, lowered	h ₁ (mm)	2415	2415	2415
	4.3	Free lift	h ₂ (mm)	150	155	155
	4.4	Lift	h ₃ (mm)	3300	3300	3300
	4.5	Height, mast extended	h ₄ (mm)	4130	4130	4130
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2265	2265	2265
	4.8	Seat height / stand height	h ₇ (mm)			
	4.12	Coupling height	h ₁₀ (mm)			
	4.20	Length to face of forks	l ₂ (mm)	3215	3280	3280
	4.21	Overall width, standard/wide/double	b ₁ (mm)	1490	1490	1490
	4.22	Fork dimensions	l/w/t (mm)	1070/150/50	1070/150/50	1070/150/55
	4.23	Fork carriage DIN 15173, class/type A,B		IIA	IIA	IIA
	4.24	Fork carriage width	b ₃ (mm)	1380	1380	1380
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	175	175	175
	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)	2920	2920	2920
4.36	Inner turning radius	b ₁₃ (mm)				
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	25	25	25
	5.2	Lift speed, laden/unladen	m/sec	0.61	0.61	0.61
	5.3	Lowering speed, laden/unladen	m/sec	0.42	0.42	0.42
	5.5	Drawbar pull, laden/unladen	N			
	5.6	Max. drawbar pull, laden/unladen	KN	23	23	23
	5.7	Gradeability, laden/unladen	%			
	5.8	Max. gradeability, laden/unladen	%	20	20	18
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
ENGINE	6.1	Engine Manufacturer/type		GM 4.3L	GM 4.3L	GM 4.3L
	6.2	Engine power acc. To ISO 1585 / DIN 6271	kW	74	74	74
	6.3	Rated speed	Rpm	2300	2300	2300
	6.4	Number of cylinders/displacement	Cm ³	6/4294	6/4294	6/4294
OTHER	8.1	Type of drive control		Automatic	Automatic	Automatic
	8.2	Operating pressure for attachments	bar	19	19	19
	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		Pin	Pin	Pin

Specification data according to VDI 2198

4-5t Mast Specifications																							
Type	Model	Max Fork Height	Overall Height									Free Lift				Front Overhang			Tilt Range		Capacity		
			Lowered			Extended						With Backrest		Without Backrest		4.0t	4.5t	5.0t	FWD	BWD	Load Capacity at 500m		
						Without Backrest			With Backrest												Single Tyre		
			4.0t	4.5t	5.0t	4.0t	4.5t	5.0t	4.0t	4.5t	5.0t	4.0t	4.5-5.0t	4.0t	4.5-5.0t						4.0t	4.5t	5.0t
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg
Wide view 2-stage mast	R330	3300	2415	2415	2415	4130	4130	4130	4520	4520	4520	150	155	150	155	590	590	595	6	12	4000	4500	5000
	R350	3500	2515	2515	2515	4330	4330	4330	4720	4720	4720	150	155	150	155	590	590	595	6	12	4000	4500	5000
	R375	3750	2640	2640	2640	4580	4580	4580	4970	4970	4970	150	155	150	155	590	590	595	6	12	3880	4380	4880
	R400	4000	2815	2815	2815	4830	4830	4830	5220	5220	5220	150	155	150	155	590	590	595	6	6	3800	4300	4800
	R450	4500	3065	3065	3065	5330	5330	5330	5720	5720	5720	150	155	150	155	590	590	595	6	6	3300	3800	4200
	R500	5000	3315	3315	3315	5830	5830	5830	6220	6220	6220	150	155	150	155	590	590	595	6	6	2800	3200	3600
	R550	5500	3615	3615	3615	6330	6330	6330	6720	6720	6720	150	155	150	155	590	590	595	3	6	2250	2600	2950
Full free 2-stage mast	R600	6000	3865	3865	3865	6830	6830	6830	7220	7220	7220	150	155	150	155	590	590	595	3	6	1700	2100	2400
	FR300	3000	2385	2385	2385	3840	3840	3840	4220	4220	4220	1545		1165		600	600	605	6	12	4000	4500	5000
	FR330	3300	2535	2535	2535	4140	4140	4140	4520	4520	4520	1695		1315		600	600	605	6	12	4000	4500	5000
	FR350	3500	2635	2635	2635	4340	4340	4340	4720	4720	4720	1795		1415		600	600	605	6	12	4000	4500	5000
Full free 3-stage mast	TFR392	3920	2240	2240	2240	5178	5178	5178	5570	5570	5570	1400		1020		630	630	635	6	6	3400	3800	4200
	TFR450	4500	2436	2436	2436	5340	5340	5340	5720	5720	5720	1595		1216		630	630	635	6	6	3300	3700	4100
	TFR480	4800	2535	2535	2535	5640	5640	5640	6020	6020	6020	1695		1315		630	630	635	6	6	3000	3400	3800
	TFR500	5000	2635	2635	2635	5840	5840	5840	6220	6220	6220	1795		1415		630	630	635	6	6	2700	3100	3500
	TFR540	5400	2760	2760	2760	6240	6240	6240	6620	6620	6620	1920		1540		630	630	635	3	6	2100	2500	2850
	TFR600	6000	3000	3000	3000	6840	6840	6840	7220	7220	7220	2160		1780		630	630	635	3	6	1600	2000	2300
	TFR650	6500	3215	3215	3215	7340	7340	7340	7720	7720	7720	2375		1995		630	630	635	3	6	1200	1500	1700



TRUCK DIMENSIONS:

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.

All three wheel forklift trucks could be ordered with electric or hydraulic steering wheel.

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. Subtract 660mm if load backrest is removed

- h_6 subject to +/- 5mm tolerance

- Full-suspension seat in depressed position

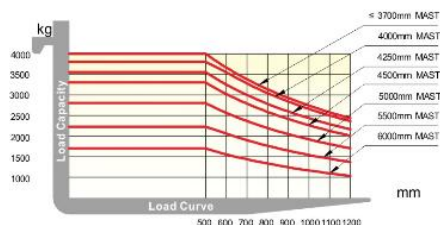
- with load backrest. Subtract 16mm if load backrest is removed

- 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

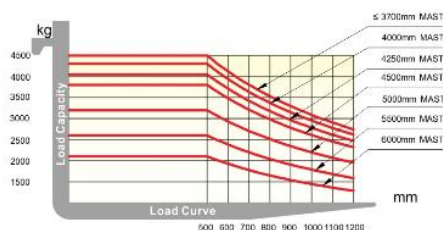
- Consult your Nexen forklift truck dealer

- Centre of gravity of unladen truck

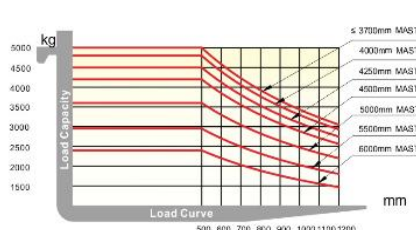
RATED CAPACITIES:



4.0T Load Chart



4.5T Load Chart



5.0T Load Chart

$Ast = W_a + x + l_6 + a$ (refer to lines 4.33 and 4.34)

W_a – outer turning radius

x = 200mm – minimum operating clearance (according to VDI 2198)

l_6 – Load distance, centre of drive axle to fork

a – 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.

LEGEND:

Load centre: distance from front forks surface to load gravity centre

Rated load: based on calculated values for vertical masts (ISO 1074) up to 4500 for all variants with pneumatic single tyres