

Nexen Relevo 12T - 16T

Specification Sheet



NEXEN RELEVO FDR120 - FDR160

CHARACTERISTICS	1.1	Manufacturer		NEXEN	NEXEN	NEXEN
	1.2	Model designation		FDR120	FDR140	FDR 160
		Model – Manufacturer designation		Relevo	Relevo	Relevo
		Engine		Cummins QSB6.7	Cummins QSB6.7	Cummins QSB6.7
		Transmission		Okamura	Okamura	Okamura
	1.3	Drive		Diesel	Diesel	Diesel
	1.4	Operation		Seated	Seated	Seated
	1.5	Load capacity / rated load	Q (kg)	12000	14000	16000
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	760	785	800
WEIGHTS	1.9	Wheelbase	y (mm)			
	2.1	Service weight	kg	15600	17600	19200
	2.2	Axle loading, laden, front/rear	kg			
WHEELS & TYRES	2.3	Axle loading, unladen, front/rear	kg			
	3.1	Tyres: L=pneumatic, V=solid		L	L	L
	3.2	Tyre size, front		10.00-20-14PR	11.00-20-18PR	12.00-20-20PR
	3.3	Tyre size, rear		10.00-20-14PR	11.00-20-18PR	12.00-20-20PR
	3.5	Wheels, number front rear (X=driven wheels)		4 / 2	4 / 2	4 / 2
DIMENSIONS	3.6	Tread, front	b ₁₀ (mm)	1800	1800	1800
	3.7	Tread, rear	b ₁₁ (mm)	1920	1890	1890
	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)	3180	3270	3290
	4.3	Free lift	h ₂ (mm)			
	4.4	Lift	h ₃ (mm)	3000	3100	3100
	4.5	Height, mast extended	h ₄ (mm)			
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2910	2940	2960
	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)	4500	4710	4820
	4.20	Length to face of forks	l ₂ (mm)	6000	6210	6320
	4.21	Overall width, standard/wide/double	b ₁ /b ₂ (mm)	2420	2490	2490
	4.22	Fork dimensions	s/e/l (mm)	90/180/1500	85/200/1500	90/200/1500
	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)	250	250	250
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	315	330	350
	4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)			
	4.34	Aisle width for pallets 800x1200 crossways	Ast (mm)			
PERFORMANCE	4.35	Outer turning radius	W _a (mm)	4150	4350	4450
	4.36	Inner turning radius	b ₁₃ (mm)			
	5.1	Travel speed,	km/h	28	29	30
	5.2	Lift speed, laden	mm/sec	350	350	330
	5.3	Lowering speed, laden	mm/sec	350	350	330
	5.5	Drawbar pull, laden/unladen	N			
	5.6	Max. drawbar pull, laden/unladen	KN	100	100	100
	5.7	Gradeability, laden/unladen	%			
	5.8	Max. gradeability, laden	%	25	25	25
	5.10	Service brake		Hydraulic wet disk brake	Hydraulic wet disk brake	Hydraulic wet disk brake
ENGINE	7.1	Engine manufacturer/type		Cummins QSB6.7	Cummins QSB6.7	Cummins QSB6.7
	7.2	Engine power acc. to ISO 1585 / DIN 6271	kW	119	119	119
	7.3	Rated speed	rpm	2300	2300	2300
	7.4	Number of cylinders/displacement	cm ³	6	6	6
OTHER	8.1	Type of drive control		Automatic	Automatic	Automatic
	8.2	Operating pressure for attachments	bar	200	200	200
	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

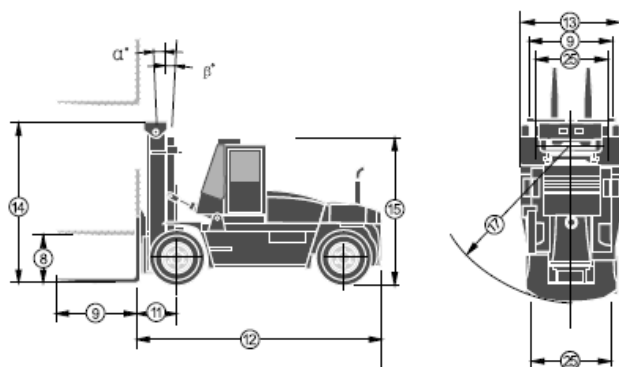
FDR 140

Max fork height	Overall Height		Tilt range	
	Lowered	Extended	FWD	BWD
mm		With backrest		
mm	mm	mm	Deg	Deg
3300	3500	5150	6	12
3600	3650	5450	6	12
4000	3850	5850	6	12
4300	4050	6200	6	6
4500	4150	6400	6	6
4800	4300	6700	6	6
5000	4400	6900	6	6
5500	4700	7450	3	6
6000	4950	7950	3	6
6500	5250	8500	3	6

FDR 160

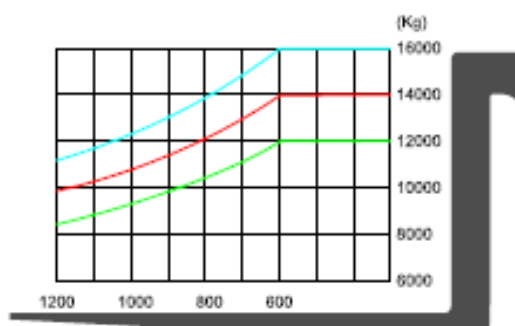
Max fork height	Overall Height		Tilt range	
	Lowered	Extended	FWD	BWD
mm		With backrest		
mm	mm	mm	Deg	Deg
3000	3500	5000	6	12
3300	3650	5300	6	12
3600	3800	5600	6	12
4000	4000	6000	6	12
4300	4200	6350	6	6
4500	4300	6550	6	6
4800	4450	6850	6	6
5000	4550	7050	6	6
5500	4850	7600	3	6
6000	5100	8100	3	6
6500	5400	8650	3	6

Specifications subject to change without notice.



RATED CAPACITIES:

LOAD CHART



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:

NNT – Nexen New Transmission
OPTIMAL+ – S New Transmission
STANDARD – Nexen D-range Transmission

- 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.

- h_6 subject to ± 5 mm 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

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

W_a – 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.