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DCG 160-917 FORKLIFT

16.0T DIESEL HEAVY DUTY FORKLIFT



TECHNICAL INFORMATION

				DCG 100-6T	DCG 120-6T										
MAIN DATA	Model designation			DCG 100-6T	DCG 120-6T	DCG 127-6T	DCG 140-6T	DCG 150-6T	DCG 100-12T	DCG 120-12T	DCG 150-12T	DCG 160-6T	DCG 160-9T	DCG 160-12T	DCG 180-6T
	Power source			Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
	Rated capacity / rated load	kg		10000	12000	12700	14000	15000	10000	12000	15000	16000	16000	16000	18000
	Load centre distance	mm	L4	600	600	600	600	600	1200	1200	1200	600	900	1200	600
	Load distance, centre of drive axle to fork	mm	L2	895	900	900	910	980	990	990	1000	980	990	1000	990
Wheelbase	mm	L3	3000	3000	3000	3250	3250	3250	3500	3750	3500	3500	3500	3750	3500
WEIGHTS	Service weight	kg		16200	16700	17200	17500	19800	19100	20300	22100	19600	21600	23100	20800
	Axle loading, unloaded front	kg		8700	8800	8800	9000	10300	10500	10700	10900	10400	10600	11200	10400
	Axle loading, loaded front	kg		23700	26700	27850	29500	23600	27200	30200	34700	33600	35200	36600	36600
	Axle loading, unloaded rear	kg		7500	7900	8400	8500	9500	8600	9600	11200	9200	11000	11900	10400
	Axle loading, loaded rear	kg		2500	1900	2050	2000	2200	1900	2100	2400	2000	2400	2500	2200
WHEELS	Type, front / rear			Pneumatic/Pneumatic		Pneumatic/Pneumatic									
	Tyre size, front	inch		11.00x20/16PR		12.00x20/20PR									
	Tyre size, rear	inch		11.00x20/16PRR		12.00x20/20PRR									
	Number of wheels, front / rear (x = driven wheels)			4x / 2		4x / 2									
	Track width, front / rear	mm	S	1840 / 1960		1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960	1855 / 1960
Tyre pressure	MPa		0.9		0.9	0.9	0.9	0.9	0.9	0.9	0.9	1	1	1	
DIMENSIONS	Mast tilt, θ = forward / β = backward	°	θ / β	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10	5 / 10
	Height of mast lowered	mm	H3	4015	4015	4035	4035	4195	4195	4195	4195	4195	4195	4195	4195
	Lift height	mm	H4	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
	Height of mast extended	mm	H5	6515	6515	6535	6535	6695	6695	6695	6695	6695	6695	6695	6695
	Truck height – Essential cabin roof	mm	H6	2960	2960	2985	2985	2985	2985	2985	2985	2985	2985	2985	2985
	Seat height	mm	H8	1745	1745	1770	1770	1770	1770	1770	1770	1770	1770	1770	1770
	Height when tilting Essential cab	mm	T1	3195	3195	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220
	Width when tilting Essential cab	mm	T2	3470	3470	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
	Truck length (to face of forks)	mm	L	4720	4725	4725	4985	5055	5065	5315	5575	5305	5315	5575	5315
	Truck width	mm	B	2480	2480	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
	Fork dimensions, width	mm	b	200	200	200	200	220	220	220	250	200	220	250	220
	Fork dimensions, thickness	mm	a	65	70	70	80	80	90	90	100	80	90	100	90
	Fork dimensions, length of fork arm	mm	l	1200	1200	1200	1200	1200	1200	1200	1200	1200	1800	2400	1200
	Fork carriage width	mm	b3	2450	2450	2450	2450	2500	2500	2500	2500	2500	2500	2500	2500
	Width over fork arms, minimum / maximum	mm	V	2330 / 570	2330 / 570	2330 / 570	2330 / 570	2360 / 600	2360 / 640	2360 / 640	2360 / 700	2360 / 600	2360 / 640	2360 / 700	2360 / 640
Sideshift ± @ width over forks	mm	V1 / V	440 / 1450	440 / 1450	440 / 1450	440 / 1450	440 / 1480	430 / 1500	430 / 1500	415 / 1530	440 / 1480	430 / 1500	415 / 1530	430 / 1500	
Ground clearance, laden, below mast	mm		250	250	250	250	250	250	250	250	250	250	250	250	
Ground clearance, machine	mm		330	330	350	350	350	350	350	350	350	350	350	350	
Min. aisle width for 90° stacking with forks	mm	A1	6470	6470	6475	6665	6735	7945	8370	8770	7160	7770	8770	7160	
Turning radius	mm	R1	4180	4180	4180	4360	4360	4360	4785	5175	4785	4785	5175	4785	
Internal turning radius	mm	R2	75	75	75	125	125	125	420	600	420	420	600	420	
OTHERS	Operating pressure for hydraulics	MPa		17,0	17,5	18,0	19,0	16,5	12,5	15,0	17,0	17,0	17,5	18,0	19,0
	Hydraulic oil tank, capacity	l		220	220	220	220	220	220	220	220	220	220	220	220
	Fuel tank, capacity	l		170	170	170	170	170	170	170	170	170	170	170	170
	AdBlue tank, capacity	l		15	15	15	15	15	15	15	15	15	15	15	15

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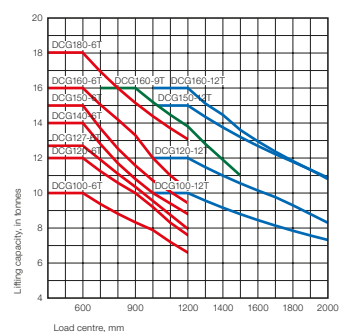


DRIVETRAIN

ENGINE	Cummins B4.5 ZF 3WG161 (123 kW)	
	Manufacturer's type designation	Cummins B4.5 (Turbo-Intercooler)
	Fuel, type of engine	Diesel, 4-stroke
	Rating ISO 3046 / at revs	kW / rpm 123 / 2200
	Peak torque ISO 3046 / at revs	Nm / rpm 763 / 1200
	Number of cylinders / displacement	cm ³ 4 / 4506
	Fuel consumption, normal driving	l/h 7-9
	AdBlue consumption, normal driving	% of diesel 4-6
	Emission standard	EU Stage V / USA EPA Tier 4 final
GEARBOX & MISC.	ZF 3WG161	
	Manufacturer's type designation	ZF 3WG161
	Clutch, type	Torque converter
	Gearbox, type	Hydrodynamic Powershift
	Numbers of gears, forward / reverse	3 / 3
	Alternator, type / power	W AC / 1960
	Starting battery, voltage / capacity	V / Ah 2x12 / 145
	Driving axle, manufacturer / type	Kessler D61/D81 / Differential and hub reduction

Cummins QSB4.5 ZF 3WG161 (119 kW)	
Manufacturer's type designation	Cummins QSB4.5 (Turbo-Intercooler)
Fuel, type of engine	Diesel, 4-stroke
Rating ISO 3046 / at revs	kW / rpm 119 / 2200
Peak torque ISO 3046 / at revs	Nm / rpm 624 / 1500
Number of cylinders / displacement	cm ³ 4 / 4457
Fuel consumption, normal driving	l/h 7-9
AdBlue consumption, normal driving	% of diesel N/A
Emission standard	EU Stage IIIA
ZF 3WG161	
Manufacturer's type designation	ZF 3WG161
Clutch, type	Torque converter
Gearbox, type	Hydrodynamic Powershift
Numbers of gears, forward / reverse	3 / 3
Alternator, type / power	W AC / 1960
Starting battery, voltage / capacity	V / Ah 2x12 / 145
Driving axle, manufacturer / type	Kessler D61/D81 / Differential and hub reduction

LIFTING CAPACITIES



PERFORMANCE

		DCG100-6T	DCG120-6T	DCG127-6T	
PERFORMANCE CUMMINS B4.5	Lifting speed	Unloaded (m/s)	0.45	0.35	0.35
		At 80 % of rated load (m/s)	0.40	0.30	0.30
	Lowering speed	Unloaded (m/s)	0.40	0.40	0.40
		At rated load (m/s)	0.40	0.40	0.40
	Travelling speed,	Unloaded (km/h)	29	29	30
		At rated load (km/h)	28	28	28
	Gradeability, max.	Unloaded (%)	94	89	79
		At rated load (%)	46	42	38
	Gradeability, at 2 km/h	Unloaded (%)	66	64	58
		At rated load (%)	36	33	30
	Drawbar pull	Max. (kN)	109	109	105
	Noise level, inside	LpA2*, Essential cabin (dB(A))	76	76	76
	LpA2*, Essential cabin OHG (dB(A))	-	-	-	
Noise level, outside	LWA** (dB(A))	107	107	107	

DCG140-6T	DCG150-6T	DCG100-12T	DCG120-12T	DCG150-12T	DCG160-6T	DCG160-9T	DCG160-12T	DCG180-6T
0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
30	30	30	30	30	30	30	30	30
28	27	28	28	27	27	27	27	27
77	64	67	62	55	65	57	52	60
36	32	39	35	30	31	29	28	28
56	48	50	47	42	49	43	40	45
28	25	31	27	24	25	23	22	22
105	105	105	105	105	105	105	105	105
76	76	76	76	76	76	76	76	76
-	-	-	-	-	-	-	-	-
107	107	107	107	107	107	107	107	107

PERFORMANCE CUMMINS QSB4.5	DCG100-6T DCG120-6T DCG127-6T				
	Lifting speed	Unloaded (m/s)	0.45	0.35	0.35
		At 80 % of rated load (m/s)	0.40	0.30	0.30
	Lowering speed	Unloaded (m/s)	0.40	0.40	0.40
		At rated load (m/s)	0.40	0.40	0.40
	Travelling speed,	Unloaded (km/h)	29	29	30
		At rated load (km/h)	27	27	27
	Gradeability, max.	Unloaded (%)	77	74	67
		At rated load (%)	41	36	33
	Gradeability, at 2 km/h	Unloaded (%)	61	58	53
	At rated load (%)	34	30	28	
Drawbar pull	Max. (kN)	98	98	94	
Noise level, inside	LpA2*, Essential cabin (dB(A))	76	76	76	
	LpA2**, Essential cabin OHG (dB(A))	-	-	-	
Noise level, outside	LWA** (dB(A))	108	108	108	

DCG140-6T	DCG150-6T	DCG100-12T	DCG120-12T	DCG150-12T	DCG160-6T	DCG160-9T	DCG160-12T	DCG180-6T
0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
30	30	30	30	30	30	30	30	30
27	26	27	27	26	26	26	26	26
65	55	57	53	46	56	49	45	51
31	28	34	31	26	27	26	25	25
52	45	47	43	39	45	40	37	42
26	24	29	26	22	23	22	21	21
94	94	94	94	94	94	94	94	94
76	76	76	76	76	76	76	76	76
-	-	-	-	-	-	-	-	-
108	108	108	108	108	108	108	108	108

* Noise level according to EN12053
** Noise level according to 2000/14/EC