

DCG 100-12 FORKLIFT

10.0T DIESEL FORKLIFT

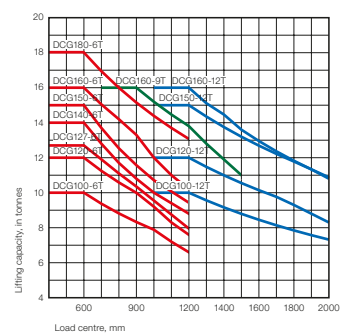


DRIVETRAIN

Cummins B4.5 ZF 3WG161 (123 kW)		
ENGINE	Manufacturer's type designation	Cummins B4.5 (Turbo-Intercooler)
	Fuel, type of engine	Diesel, 4-stroke
	Rating ISO 3046 / at revs	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.	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	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
	Manufacturer's type designation	ZF 3WG161
	Clutch, type	Torque converter
	Gearbox, type	Hydrodynamic Powershift
	Numbers of gears, forward / reverse	3 / 3
	Alternator, type / power	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
	Lowering speed	At 80 % of rated load (m/s)	0.40	0.30	0.30
		Unloaded (m/s)	0.40	0.40	0.40
	Travelling speed,	At rated load (m/s)	0.40	0.40	0.40
		Unloaded (km/h)	29	29	30
	Gradeability, max.	At rated load (km/h)	28	28	28
		Unloaded (%)	94	89	79
	Gradeability, at 2 km/h	At rated load (%)	46	42	38
		Unloaded (%)	66	64	58
	Drawbar pull	At rated load (%)	36	33	30
		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	

		DCG100-6T	DCG120-6T	DCG127-6T	
PERFORMANCE CUMMINS QSB4.5	Lifting speed	Unloaded (m/s)	0.45	0.35	0.35
	Lowering speed	At 80 % of rated load (m/s)	0.40	0.30	0.30
		Unloaded (m/s)	0.40	0.40	0.40
	Travelling speed,	At rated load (m/s)	0.40	0.40	0.40
		Unloaded (km/h)	29	29	30
	Gradeability, max.	At rated load (km/h)	27	27	27
		Unloaded (%)	77	74	67
	Gradeability, at 2 km/h	At rated load (%)	41	36	33
		Unloaded (%)	61	58	53
	Drawbar pull	At rated load (%)	34	30	28
		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	

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

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

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

HIRE

SALES

SERVICE

LEASE

TRANSPORT

DCG 100-12 FORKLIFT

10.0T DIESEL FORKLIFT



TECHNICAL INFORMATION

			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	
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	1200	1200	1200	600	900	1200	600
	Load distance, centre of drive axle to fork		mm	L2	895	900	900	910	980	990	1000	980	990	1000	990
Wheelbase		mm	L3	3000	3000	3000	3250	3250	3250	3500	3750	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										12.00x20/20PR HD
	Tyre size, rear		inch	11.00x20/16PRR	12.00x20/20PR										12.00x20/20PR HD
	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, $\varnothing$ = forward / $\varnothing$ = backward		°	$\varnothing$ / $\varnothing$	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
	Lift height		mm	H4	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
	Truck height – Essential cabin roof		mm	H6	2960	2960	2985	2985	2985	2985	2985	2985	2985	2985	2985
	Seat height		mm	H8	1745	1745	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
	Width when tilting Essential cab		mm	T2	3470	3470	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
	Truck width		mm	B	2480	2480	2540	2540	2540	2540	2540	2540	2540	2540	2540
	Fork dimensions, width		mm	b	200	200	200	200	220	220	250	200	220	250	220
	Fork dimensions, thickness		mm	a	65	70	70	80	80	90	90	100	80	90	100
	Fork dimensions, length of fork arm		mm	l	1200	1200	1200	1200	1200	1200	1200	1200	1800	1800	1200
	Fork carriage width		mm	b3	2450	2450	2450	2450	2500	2500	2500	2500	2500	2500	2500
	Width over fork arms, minimum / maximum		mm	V	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 / 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	
Ground clearance, machine		mm		330	330	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	
Turning radius		mm	R1	4180	4180	4180	4360	4360	4360	4785	5175	4785	4785	5175	
Internal turning radius		mm	R2	75	75	75	125	125	125	420	600	420	420	600	
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	
	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

WA

NT

QLD

NSW

VIC

SA