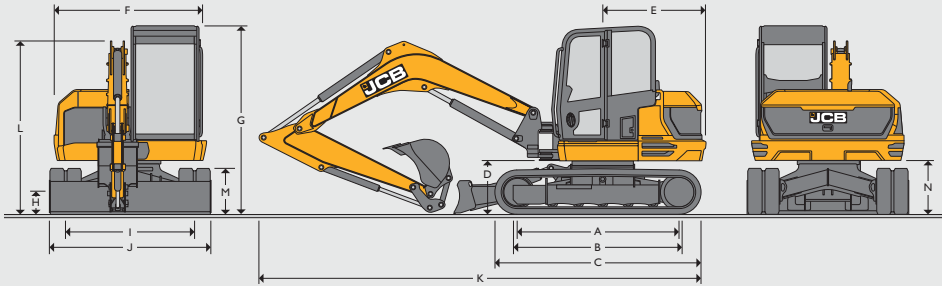


STATIC DIMENSIONS



Machine Model		85Z-I	86C-I	86C-I TAB
A Sprocket Idler Centers	ft/in	7' 7"	7' 7"	7' 7"
B Track Length on Ground	ft/in	7' 7"	7' 7"	7' 7"
C Undercarriage overall length - rubber	ft/in	9' 7"	9' 7"	9' 7"
Undercarriage overall length - steel	ft/in	9' 5"	9' 5"	9' 5"
D Swing Bracket clearance	ft/in	2' 6"	2' 6"	2' 6"
E Tailswing radius	ft/in	3' 8"	4' 9"	5' 3"
F Overall width of superstructure	ft/in	7' 1"	7' 2"	7' 2"
G Height over cab	ft/in	8' 9"	8' 9"	8' 9"
H Ground clearance	ft/in	1' 2"	1' 2"	1' 2"
I Track gauge	ft/in	6' 1"	6' 1"	6' 1"
J Width over tracks (450 shoes)	ft/in	7' 6"	7' 6"	7' 6"
K Transport length with standard arm	ft/in	19' 2"	21' 1"	21' 8"
L Transport height with standard arm	ft/in	8' 9"	8' 9"	8' 9"
M Track height	ft/in	2' 2"	2' 2"	2' 2"
N Counterweight clearance	ft/in	2' 5"	2' 5"	2' 5"

ENGINE

Machine Model		85Z-I	86C-I	86C-I TAB
Model		Stage IIIB Tier 4 Final KDI 2504 TCR		
Fuel		Diesel		
Cooling		Water cooled		
Gross power ISO 14396	HP @ 2200 rpm	64.4		
Net power	HP @ 2200 rpm	60.8		
Gross torque ISO 14396	Nm @ 1500 rpm	305		
Displacement	cc/litres	2500		
Gradeability	degrees	30		
Starter motor	kW (HP)	2		
Battery	volt/Ah	12V, 750		
Alternator	volt/amps	12V, 100		

UNDERCARRIAGE

Machine Model		85Z-I	86C-I	86C-I TAB
No of top rollers		1	1	1
No of bottom rollers		5	5	5
Track width	in	18	18	18
Track width optional	in	24	24	24
Ground clearance	in	14	14	14
Track tensioning		Grease		
Travel speed - low	mph	1.6	1.6	1.6
Travel speed - high	mph	3.1	3.1	3.1
Tractive effort	lbf	13,713	14,613	14,613

HYDRAULIC SYSTEM

Machine Model		85Z-I	86C-I	86C-I TAB
Nominal output @2,200	gpm	41.8	41.8	41.8
Excavator/track main relief pressure	psi	4351	4351	4351
Slew main relief pressure	gpm	60	60	60
Auxiliary low flow	gpm	7	7	7
Auxiliary high flow	gpm	26	26	26
Auxiliary low flow	psi	2756	2756	2756
Auxiliary high flow	psi	2756	2756	2756

WEIGHTS

Machine Model		85Z-I	86C-I	86C-I TAB
Operating Weight (450mm (18in) rubber tracks)	lbs	18,298	18,960	
Transport weight (450mm (18in) rubber tracks)	lbs	18,133	18,794	
With FOGS guard - Stage 1	lbs	31	31	31
With FOGS guard - Stage 2	lbs	132	132	132
With steel tracks (450mm (18in))	lbs	359	359	359
With steel tracks (600mm (24in))	lbs	809	809	809
With Bridgestone geogrips	lbs	399	399	399
With wide dozer (2470mm)	lbs	40	40	40
With narrow dozer (2200mm)	lbs	-11	-11	-11
Ground pressure (450mm (18in) rubber tracks)	lbs/in2	5.7	5.8	
Ground pressure (450mm (18in) steel tracks)	lbs/in2	5.7	6	
Ground pressure (600mm (24in) steel tracks)	lbs/in2	4.4	4.6	

OPERATOR STATION

Machine Model		85Z-I	86C-I	86C-I TAB
Cab/canopy height	in	61	61	61
Cab/canopy height with FOGS guard LEVEL 1	in	65	65	65
Cab/canopy height with FOGS guard LEVEL 2	in	68	68	68
Cab/canopy length	in	76	76	76
Cab/canopy width	in	41	41	41
Distance from seat base to roof	in	44	44	44
Door aperture width	in	24	24	24

SERVICE CAPACITIES

Machine Model		85Z-I	86C-I	86C-I TAB
Fuel Tank	gal	30	30	30
Engine coolant	gal	3.2	3.2	3.2
Engine oil	gal	3	3	3
Hydraulic system	gal	31	31	31
Hydraulic tank	gal	17	17	17

EEC NOISE LEVELS (95/27/EC DYNAMIC)

Machine Model		85Z-I	86C-I	86C-I TAB
Cab/canopy external	dB	96	96	96
Cab internal	dB	74*	74*	74*

**Internal noise during default eco mode

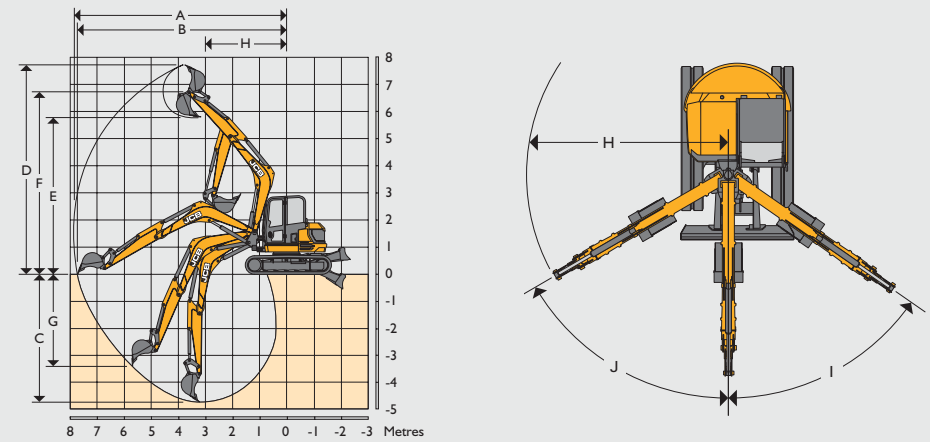
STANDARD EQUIPMENT

Tilting cab, fully glazed ROPS & TOPS certified cab with JCB impact protection front screen, 2 speed intermittent wiper with wash/wipe, roof mounted front worklights, 3 speed heater/demister with 9 adjustable air vents, Color LCD display, digital clock, adjustable sun visor, internal lockable toolbox, cup holder, coat hook, 12V accessory socket, interior light, full audio/visual warning systems, radio ready kit, auto idle throttle, below idle system, 2 digging modes (ECO & Heavy), ISO servo controls with electro-hydraulic dozer lever, electro-proportional thumb controlled high flow double acting auxiliary, 10 selectable auxiliary flow rates, joystick mounted hammer switch, electronic single/double acting auxiliary changeover valve, neutral start, full control isolation, 2 go hydraulic isolation, operator presence seat switch, seat belt activation switch, midback suspension seat, 2 piece removable floor mat, beacon ready kit, two speed tracking, auto-kickdown track motors, 18in short pitch rubber tracks, double element air cleaner, heavy-duty alternator, heavy-duty battery, battery isolator, hydraulic slew braking with disc type park brake, ORFS hydraulics, Color coded hydraulic hoses, bushed swing bracket, 500 hour dig end greasing intervals, heavy duty boom cylinder guard, protected boom worklight, 2,000mm dipper (85Z), 2,100mm dipper (86C), 2 position bucket tipping link - speed & power, quick release auxiliary couplers, 100% steel bodywork

OPTIONAL EQUIPMENT

AC, ROPS & TOPS canopy with polycarbonate impact protection screen, FOPS guard stage 1 or 2, 18in or 24in steel tracks, 18in GeoGrip road liner tracks, fan & chaff guards, high back seat or deluxe heated high back air-suspension seat, radio installation, electro-proportional thumb controlled low flow auxiliary, hose burst check valve (HBCV) lifting kit (dozer, boom & arm), bucket-to-grab change over valve, mechanical quickhitch, hydraulic quickhitch, hydraulic quickhitch ready pipework, GP digging buckets, ditch/grading buckets, hydraulic hammers, rotating/strobe beacon, travel alarm, white noise alarm, face fan, toolkit, greasegun & cartridge, fire extinguisher, exterior cab mounted mirrors, interior mirror, electric refuelling pump, JCB immobilizer (unique key or keypad system), dozer float, angled dozer blade, TAB boom, dualpattern controls (ISO/SAE change-over), front screen guard (fine or coarse), rear roof mounted worklight, twin pair of front roof mounted worklights, short & long dipper options, Livelink, special paint options, block heater 110/240V

WORKING RANGE



		85Z-I	86C-I	86C-I TAB
Boom length	ft/in	9' 5"	11' 1"	TAB
Arm length	ft/in	5' 4" / 6' 6" / 6' 9"	5' 4" / 6' 9" / 7' 4"	5' 4" / 6' 9" / 7' 4"
A Max digging reach	ft/in	21' 6" / 22' 7" / 23' 1"	22' 4" / 23' 8" / 24' 2"	23' 8" / 25' 7" / 26' 2"
B Max digging reach on ground	ft/in	21' / 22' 1" / 22' 5"	21' 8" / 23' 2" / 23' 7"	24' 3" / 25' 2" / 25' 7"
C Max digging depth - dozer up	ft/in	10' 6" / 11' 8" / 12' 1"	12' 9" / 14' 4" / 14' 9"	13' 2" / 14' 7" / 15' 2"
Max digging depth - dozer down	ft/in	11' 9" / 11' 8" / 12' 2"	12' 9" / 14' 3" / 14' 8"	13' 2" / 14' 6" / 15' 1"
D Max digging height	ft/in	21' 3" / 22' 2" / 22' 4"	22' 5" / 23' 6" / 23' 9"	25' 5" / 26' 8" / 27' 3"
E Max dump/load-over height	ft/in	15' 3" / 16' 2" / 16' 5"	16' 6" / 17' 7" / 18' 1"	19' 4" / 20' 7" / 21' 1"
F Max height to bucket pin	ft/in	18' 2" / 19' 1" / 19' 3"	19' 4" / 20' 5" / 20' 9"	22' 4" / 23' 7" / 24' 2"
G Max vertical wall digging depth	ft/in	8' 3" / 9' 3" / 9' 6"	9' / 10' 3" / 10' 8"	11' / 12' 4" / 12' 9"
H Min. front swing radius (no offset)	ft/in	9' 3" / 9' 8" / 10'	8' 4" / 8' 8" / 8' 9"	7' 3" / 7' 5" / 7' 5"
Min. front swing radius (fully offset)	ft/in	8' 1" / 8' 6" / 8' 7"	7' 6" / 8' / 8' 1"	6' 3" / 6' 4" / 6' 5"
I Boom swing left	degrees	55	55	55
J Boom swing right	degrees	60	60	60
Bucket rotation	degrees	200	200	200
Arm rotation	degrees	114	122	126
Bucket digging force	lbf	12,837	12,837	12,837
Arm digging force	lbf	9,847	9,509	9,509 / 9,060 / 11,218
Slew speed	rpm	10	10	10

DOZER

Machine Model		85Z-I	86C-I	86C-I TAB
Dozer length	ft/in	4' 9"	4' 9"	4' 9"
Max height above ground	ft/in	1' 5"	1' 5"	1' 5"
Dig depth below ground	in	18	18	18
Approach angle	in	1.1	1.1	1.1
Width	in	91	91	91
Height	in	19	19	19
Reach in front of tracks	in	24	24	24

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 5' 4" ARM, NO BUCKET

86C

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
16							3,402	3,635	3,719				3,276	3,774	3,499	14
13							3,377	3,607	3,693	3,377	3,609	2,798	2,443	3,649	2,668	17
10				5,121	5,216	5,236	4,162	4,239	4,162	3,682	3,779	2,862	3,027	3,702	2,546	18
7				7,460	7,577	5,853	5,007	5,101	3,968	4,008	4,162	2,844	2,829	3,779	2,282	19
3				6,812	869	5,357	4,663	5,811	3,688	3,472	4,489	2,745	2,679	3,874	2,266	19
0				6,962	8,746	5,225	4,581	6,158	3,622	3,358	4,623	2,712	2,862	3,990	2,282	18
-3	7,507	8,020	8,208	7,518	7,710	5,176	4,597	5,734	3,589	3,340	4,182	2,579	3,241	397	2,579	17
-7	9,623	10,280	10,335	6,387	6,823	5,190	4,431	4,797	3,450				2,795	3,931	3,020	15

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 6' 9" ARM, NO BUCKET

86C

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
16							2,725	2,910	2,978				2,659	3,272	2,881	16
13							2,809	3,000	3,069	2,899	3,097	2,837	2,103	3,223	2,315	19
10				4,057	2,282	4,436	3,549	3,624	3,587	3,318	3,358	3,318	2,729	3,318	2,083	20
7				6,272	6,407	6,272	4,449	4,526	4,334	3,664	3,741	2,778	2,480	3,358	1,951	20
3				7,577	8,076	5,309	5,370	5,505	3,622	3,406	4,257	2,679	2,480	3,472	1,936	20
0				6,746	8,708	5,011	4,564	6,100	3,505	3,391	4,641	2,597	2,531	3,567	2,034	20
-3	6,352	6,786	6,942	6,466	8,076	5,027	4,398	5,966	3,373	3,258	4,508	2,513	2,745	3,664	2,167	19
-7	10,942	11,021	10,027	6,852	7,648	5,035	4,325	5,333	3,338	3,168	3,686	2,507	2,273	3,629	2,491	17
-10	7,582	8,100	8,287	4,907	5,243	5,198							3,234	3,455	3,536	13

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 7' 4" ARM, NO BUCKET

86C

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
16										2,868	3,064	2,829	2,500	3,126	2,718	17
13							2,610	2,789	2,853	2,749	2,937	2,848	2,006	3,093	2,216	19
10							3,188	3,406	3,486	2,989	3,194	2,787	1,766	3,120	1,964	20
7				5,769	6,164	5,672	4,101	4,383	3,715	3,347	3,642	2,685	1,645	3,179	1,839	21
3				7,031	8,353	5,201	4,491	5,348	3,501	3,239	4,114	2,575	1,609	3,261	1,803	21
0				6,806	8,492	4,989	4,343	5,933	3,353	3,153	4,429	2,489	1,658	3,371	1,854	20
-3	6,038	6,451	6,601	6,757	8,885	4,943	4,279	5,994	3,291	3,113	4,440	2,449	1,799	3,459	2,002	19
-7	10,168	10,862	9,934	6,806	7,866	4,989	4,292	5,452	3,303	3,132	3,882	2,469	2,138	3,534	2,352	17
-10	8,516	9,098	9,310	5,351	5,717	5,132	3,508	3,746	3,419				3,053	3,419	3,265	14



Lift capacity front and rear.



Lift capacity full circle.

Notes:

- 1.) lifting capacities are based on ISO 10567 that is 75% of minimum tipping load or 87% of hydraulic lift capacity whichever is the less, lifting capacities highlighted are based on hydraulic capacity
- 2.) Lift capacities assume that the machine is on firm level ground and equipped with an approved lifting point
- 3.) A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities
- 4.) Lift capacities may be limited by local regulations - please refer to your dealer

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 5' 4" ARM, NO BUCKET**85Z**

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
13							3,497	3,735	3,214						1,984	16
10				4,539	4,848	4,943	4,297	4,411	3,159	2,778	4,162	2,167	2,579	4,162	1,803	17
7				6,226	7,688	4,535	3,920	5,542	3,042	2,729	4,603	2,116	2,332	4,334	1,836	18
3				5,589	9,667	4,200	3,622	6,426	2,844	2,564	4,872	2,050	2,266	4,449	1,819	18
0				5,192	9,819	3,935	3,472	6,770	2,679	2,480	5,007	1,951	2,332	4,623	1,969	17
-3	9,498	10,148	8,199	4,894	8,574	3,836	3,373	6,252	2,597				2,646	4,641	2,802	16
-7				5,875	6,396	4,204	3,662	3,911	2,811				3,146	3,880	2,579	13
-10																

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 6' 6" ARM, NO BUCKET**85Z**

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
13							2,917	3,115	3,188	2,835	3,371	2,205	2,205	3,477	2,017	17
10							3,759	3,836	3,664	2,829	3,799	2,200	2,299	3,816	1,803	18
7				6,693	6,925	4,747	3,968	5,064	3,075	2,862	4,297	2,134	2,116	3,990	1,587	19
3				5,672	9,284	4,251	3,655	6,138	2,895	2,597	4,758	2,002	2,035	4,065	1,605	19
0				5,456	9,916	3,935	3,538	6,751	2,712	2,546	5,064	2,017	2,183	4,277	1,737	18
-3	7,934	8,477	7,866	5,159	9,092	3,788	3,457	6,656	2,630	2,546	4,949	1,918	2,366	4,334	1,903	17
-7	11,021	11,021	8,053	5,681	7,383	4,008	3,576	4,855	2,646				2,520	3,675	2,262	15
-10																

LIFT CAPACITIES - 18 IN RUBBER TRACKS, 11' BOOM, 6' 9" ARM, NO BUCKET**85Z**

Load Point	7'			10'			13'			16'			Capacity at Maximum Reach			
																
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Distance
FT	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	LBS	FT
16							3,018	3,223	3,247				2,870	3,558	2,612	15
13							2,811	3,003	3,073	2,886	3,287	2,258	2,169	3,428	1,995	18
10							3,278	3,501	3,188	2,859	3,408	2,231	1,867	3,426	1,722	19
7				5,769	6,164	4,680	3,951	4,511	3,018	2,782	3,825	2,154	1,726	3,477	1,590	20
3				5,913	8,957	4,231	3,757	5,600	2,826	2,692	4,297	2,061	1,691	3,558	1,554	20
0				5,692	9,936	4,023	3,624	6,239	2,696	2,623	4,583	1,991	1,753	3,655	1,605	19
-3	7,665	8,190	7,919	5,653	9,473	3,986	3,574	6,175	2,646	2,599	4,407	1,967	1,953	3,739	1,779	18
-7	11,021	11,021	8,095	5,721	7,743	4,050	3,609	5,117	2,681				2,456	3,713	2,213	15
-10																



Lift capacity front and rear.



Lift capacity full circle.

Notes:

- 1.) lifting capacities are based on ISO 10567 that is 75% of minimum tipping load or 87% of hydraulic lift capacity whichever is the less, lifting capacities highlighted are based on hydraulic capacity
- 2.) Lift capacities assume that the machine is on firm level ground and equipped with an approved lifting point
- 3.) A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities
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