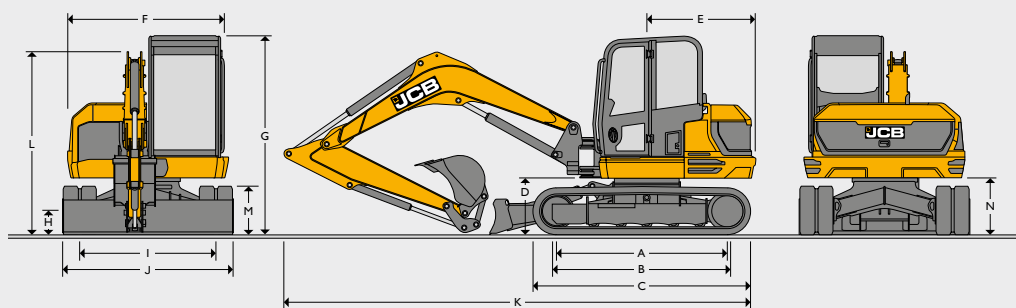


STATIC DIMENSIONS



Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
A Sprocket idler centres	mm 2325				
B Track length on ground	mm 2325				
C Undercarriage overall length – rubber	mm 2950				
Undercarriage overall length – steel	mm 2900				
D Kingpost clearance	mm 793				
E Tailswing radius	mm 1145	mm 1490	mm 1600	mm 1145	mm 1601
F Overall width of superstructure	mm 2168	mm 2187		mm 2187	
G Height over cab	mm 2706				
H Ground clearance	mm 350				
I Track gauge	mm 1850				
J Width over tracks (450 shoes)	mm 2300				
K Transport length with standard dipper	mm 5833	mm 6435	mm 6655	mm 6585	mm 6860
L Transport height with standard dipper	mm 2706				
M Track height	mm 650				
N Counterweight clearance	mm 762				

ENGINE

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
Model	Stage V KDI 2504 TCR				
Fuel	Diesel				
Cooling	Water cooled				
Gross power ISO 14396 kW (hp) @ 2200 rpm	48		55		
Net power kW (hp) @ 2200 rpm	45.4		52.4		
Gross torque ISO 14396 Nm @ 1500 rpm	305				
Displacement cc / litres	2500				
Gradeability degrees	30				
Starter motor kW (hp)	3.2				
Battery volt / Ah	12V, 750				
Alternator volt / amps	12V, 100				

UNDERCARRIAGE

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
No of top rollers	1				
No of bottom rollers	5				
Track width mm	450				
Track width optional mm	600				
Ground clearance mm	350				
Track tensioning	Grease				
Travel speed – low kph	2.5				2.4
Travel speed – high kph	5			4.6	4.4
Tractive effort kN	61	65		58	59.8

HYDRAULIC SYSTEM

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
Nominal output @ 2200 lpm	158.4			148	
Excavator/track main relief pressure bar	300				
Slew main relief pressure lpm	226				
Auxiliary low flow lpm	40				
Auxiliary high flow lpm	100				
Auxiliary low flow bar	190				
Auxiliary high flow bar	190				

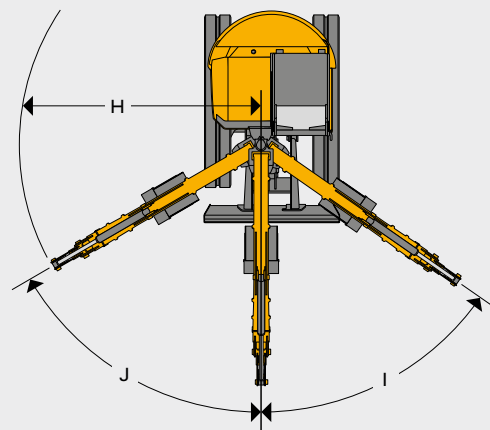
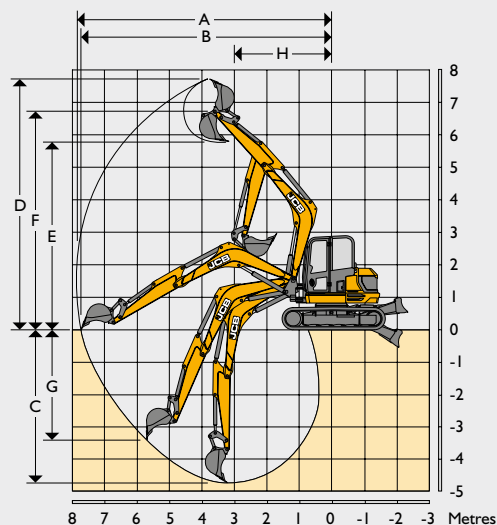
WEIGHTS

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
Operating weight* (450mm rubber tracks) kg	8300	8600	9750	8900	9750
Shipping** weight (450mm rubber tracks) kg	7950	8720	9400	8550	9400
With FOGS guard roof – Stage 1 kg	+14			+14	
With FOGs guard roof – Stage 1 HVAC kg	+49			+49	
With FOGS guard front – Stage 2 kg	+38			+97	
With FOGS guard roof – Stage 2 kg	+60				
With steel tracks (450mm) kg	+195			+184	
With steel tracks (600mm) kg	+408			+367	
With Bridgestone geogrips kg	+134			+134	
With wide dozer (2470mm) kg	+18			+18	
With narrow dozer (2220mm) kg	-17			-5	
With 4 way dozer kg	+205			+217	
Mechanical Quickhitch kg	+95			+95	
Hydraulic Quickhitch kg	+67				
With Long Dipper (2250mm) kg	+16			+16	
With short dipper (1650mm) kg	-48			-48	
Ground bearing pressure (450mm rubber tracks) kg/cm ²	0.40	0.41	0.45	0.41	0.46
Ground bearing pressure (450mm steel tracks) kg/cm ²	0.40	0.42	0.46	0.42	0.47
Ground bearing pressure (600mm steel tracks) kg/cm ²	0.31	0.32	0.35	0.31	0.35

*Operating weight to ISO 6016 including Cab, Rubber Tracks, Standard dipper, 450mm bucket (85z-2, 86c-2, 86c-2 TAB), 600mm bucket (90z), 900mm (100c adding 43kg of weight), full tanks, and a 75kg operator.

**Shipping weight to ISO 6016 is mass of the base machine without an operator, with fuel level at 10% of tank capacity.

WORKING RANGE



		85z-2	86c-2	86c-2 TAB	90z-2	100c-2	
Boom length	mm	2900	3360	Boom in = 2828 Boom out = 3917	3360	3682	
Dipper length	mm	1650 / 2100 / 2250					
A	Max digging reach	mm	6596 / 7029	6815 / 7244 / 7387	7246 / 7844 / 7989	6940 / 7542 / 7495	7065 / 7475 / 7560
B	Max digging reach on ground	mm	6401 / 6848	6635 / 7075 / 7225	7409 / 7691 / 7840	6807 / 7269 / 7389	6888 / 7315 / 7438
C	Max digging depth – dozer up	mm	3234 / 3684	3931 / 4381 / 4531	4022 / 4472 / 4622	3931 / 4381 / 4531	4221 / 4670 / 4820
	Max digging depth – dozer down	mm	3615 / 3715	3922 / 4372 / 4522	4013 / 4463 / 4613	4218 / 4668 / 4818	4491 / 4940 / 5090
D	Max digging height	mm	6487 / 6836	6848 / 7181 / 7293	7776 / 8180 / 8315	6853 / 7181 / 7297	7018 / 7321 / 7478
E	Max dump / load-over height	mm	4674 / 5023	5061 / 5395 / 5506	5900 / 6304 / 6439	4970 / 5320 / 5419	5186 / 5490 / 5660
F	Max height to dipper nose pivot pin	mm	5547 / 5896	5914 / 6248 / 6359	6832 / 7236 / 7371	5914 / 6248 / 6357	6128 / 6435 / 6537
G	Max vertical wallcut depth	mm	2525 / 2941	2736 / 3151 / 3289	3366 / 3782 / 3920	3239 / 2890 / 3821	1877 / 2257 / 3507
H	Min. front swing radius (no offset)	mm	2847 / 3047	2554 / 2679 / 2721	2223 / 2272 / 2288	2958 / 3102 / 3156	2705 / 2863 / 2906
	Min. front swing radius (fully offset)	mm	2478 / 2660	2310 / 2427 / 2466	1919 / 1963 / 1978	2364 / 2508 / 2562	2162 / 2360 / 2408
I	Boom swing left	degrees	55				
J	Boom swing right	degrees	60				
	Bucket rotation	degrees	188				
	Dipper rotation	degrees	114	122	126	114	122
	Bucket tearout	kN	57.1			57.1	72.2
	Dipper tearout	kN	49.9 / 42.3 / 40.3				
	Slew speed	rpm	10			7.9	8.2

DOZER

Machine model	85z-2	86c-2	86c-2 TAB	90z-1	100c-1
Dozer length	mm	1497			
Max height above ground	mm	471			
Dig depth below ground	mm	461			
Approach angle	degrees	27.8			
Width	mm	2320			
Height	mm	473			
Reach in front of tracks	mm	615			

OPERATOR STATION

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
Cab/canopy height	mm	1554			
Cab/canopy height with FOGS guard LEVEL 1	mm	1643			
Cab/canopy height with FOGS guard LEVEL 2	mm	1730			
Cab/canopy length	mm	1942			
Cab/canopy width	mm	1040			
Distance from seat base to roof	mm	1120			
Door aperture width	mm	612			

SERVICE CAPACITIES

Machine model	85z-2	86c-2	86c-2 TAB	90z-2	100c-2
Fuel tank	l	112			
Engine coolant	l	11		12.1	
Engine oil	l	11.2			
Hydraulic system	l	118			
Hydraulic tank	l	66			

NOISE/VIBRATION (85Z-2, 86C-2)

			Uncertainty	Measurement Conditions
Noise at the operator station (Lpa)	76 dB	(KpA)	0 dB	ISO 6396: 2008
Noise emission from the machine (Lwa)	95 dB	(KwA)	3dB	ISO 6395: 1988
Hand Arm Vibration (m/s²)				
Tracking duty	≤ 2.5	(K)		EN ISO 5349-2: 2001*
Low idle and excavating duty	≤ 2.5	(K)		EN ISO 5349-2: 2001*
Whole body vibration (m/s ²)	0.3	(K)		ISO 2631-1: 1997*

*Based upon a test cycle defined in SAE J 1166

NOISE/VIBRATION (90Z-2, 100C-2)

			Uncertainty	Measurement Conditions
Noise at the operator station (Lpa)	78 dB	(KpA)	0 dB	ISO 6396: 2008
Noise emission from the machine (LwA)	97 dB	(KwA)	1 dB	ISO 6395: 1988
Hand arm vibration (m/s²)				
Tracking duty	≤ 2.5	(K)		EN ISO 5349-2: 2001*
Low idle	≤ 2.5	(K)		EN ISO 5349-2: 2001*
Whole body vibration (m/s ²)	0.4	(K)		ISO 2631-1: 1997*

*Based upon a test cycle defined in SAE J 1166

EQUIPMENT

SERVICE AND MAINTENANCE

500 hours dig end greasing intervals	•
Greasegun & cartridge	+
Toolkit	+
Block heater 110/240V	+
2 speed auto-kickdown motors	•
Colour coded hydraulic hoses	•
Auto warm	•
Electric refuelling pump	+
CESAR datatag (UK only)	•

TRACKS AND UNDERCARRIAGE

450mm or 600mm steel tracks	+
450mm Geo Grip Road Liner tracks	+
4-way angled dozer blade	+
Dozer float	+
450mm short pitch rubber tracks	+

OPERATOR STATION

Interior mirror	+
Air-conditioning	+
Adjustable sunblind	•
High back seat or deluxe heated high back air suspension seat	+
Radio installation with media socket	+
Media socket	+
Face fan	+
Tilting cab	•
Intermittent wiper with wash/wipe	•
Roof mounted front and rear worklights	•
3 speed heater/demister with 9 adjustable air vents	•
Colour LCD display	•
Digital clock	•
Internal lockable toolbox	•
Interior light	•
Cup holder	•
Coat hooks	•
12v accessory socket	•
Full audio/visual warning systems	•
Radio ready kit	•
Auto idle throttle	•

OPERATOR STATION (CONTINUED)

Below idle system	•
Four digging powerbands	•
Electronic single/double acting auxiliary changeover valve	•
Midback suspension seat	•
2 piece removable floormat	•
10 different attachment flow settings	•
One touch idle	•

HYDRAULICS

Low flow, double acting auxiliary	+
High flow double acting auxiliary	•
Bucket-to-grab change over valve	+
Electronic single/double acting auxiliary changeover valve	•
Dual pattern controls (ISO/SAE change-over)	+
ISO servo controls with electro-hydraulic dozer lever	•
Hydraulic slew braking with disc type park brake	•
ORFS hydraulics	•
Tool Select	•
Tilt rotate ready installation	+
Auto vent	•

PROTECTION AND SAFETY

FOGS guard stage 1 or 2	+
Fan & chaff guards	+
Battery isolator*	•
Beacon kits	+
LED worklights (with follow me home function)	+
Travel alarm	+
Fire extinguisher	+
JCB Immobiliser (unique key or keypad system)	+
Rearview camera	+
Rearview angled mirror	+
Dipper/crowd Ram guards	+
White noise alarm	+
Front screen guard (fine or course)	+
Neutral start	•
Full control isolation	•
"2 go" hydraulic isolation	•
Livelink	•
Health check system	•

EXTERNAL EQUIPMENT

Advanced lift overload system	+
Mechanical quickhitch	+
Hydraulic quickhitch	+
Hydraulic quickhitch ready pipework	+
General purpose digging buckets	+
Ditch/grading buckets	+
Hydraulic breakers	+
Exterior cab mounted mirrors	•
Thumb ready dipper	+
Special paint options	+
Worklight guards (cab)	+
Twin pair of front roof mounted worklights	+
Short & long dipper options	+
Beacon ready kit	•
2 position speed & power bucket tipping link	•
Bushed kingpost	•
Protected boom worklight	•
100% steel bodywork	•

STANDARD • OPTIONAL +

* Region specific