



Operating weight: 2729kg Battery capacity: 20kwh Shovel capacity: 0.5m³



# A LOT LESS FOR YOUR MONEY

Our new zero emission 403E electric wheel loader, is the latest addition to the JCB E-Tech range. With less noise and a compact design, it is perfect for use in multiple applications including in noise sensitive areas, indoors, underground and other enclosed spaces. Plus, with a payload of 898kg\*, the 403E provides excellent lift performance, despite its small size.







### **LESS VIBRATION**

The 403E is a comfortable place to work, and no mechanical engine means that vibrations are reduced to a minimum.

### **LESS POLLUTION**

With zero emissions at point of use, the 403E gives you the ability to work in enclosed environments, as well as helping to reduce your carbon footprint.





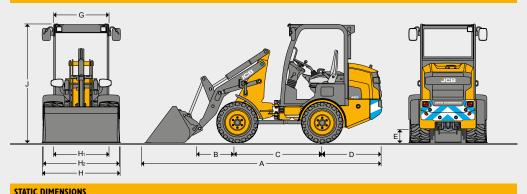
## **LESS MAINTENANCE**

The 403E's electrical components are maintenance free, so less time and money is spent on daily checks and servicing, increasing uptime & maximising productivity.

#### **LESS HASSLE**

With flexible charging options, you can simply plug your 403E into the normal household grid or CEE socket when you need to charge the battery.

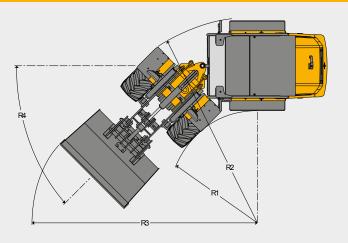
# STATIC DIMENSIONS



SIA	IIC DIMENSIONS								
			Standard	Lift Arms	High Li	ft Arms			
			Agri Shovel	Construction Shovel	Agri Shovel	Construction Shovel			
Α	Overall length	mm	4406	4209	4721	4526			
В	Axle to pivot pin	mm	6	81	9'	96			
С	Wheelbase	mm		16	00				
D	Axle to counterweight face	mm	1118						
Е	Minimum ground clearance	mm	241						
G	Width over cab roof	mm	1010						
Н	Max. width over tyres – narrow / wide	mm	1080 / 1418						
Ηι	Max. wheel track – narrow / wide	mm	822 / 1018						
H2	Max. width over fenders – narrow / wide	mm		1088,	/ 1336				
J	Height over cab	mm	2210						
	Height over cab with beacon	mm	2350						
	Height over foldable canopy – raised	mm	2245						
	Height over foldable canopy – lowered	mm	1855						
	Max. front axle weight	kg		11	00				
	Max. rear axle weight	kg		18	20				
	Max. total weight (front and rear axles combined)	kg		29	20				

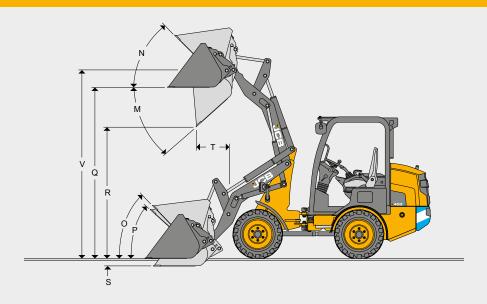
TRANSMISSION 403			
Туре		- 2	ZF
Travel speed		20	lkph
		Forward	Reverse
Hi range	kph	20	15
Low range	kph	8	8
Creep	kph	0.5 to 5	0.5 to 5

# TURNING CIRCLE



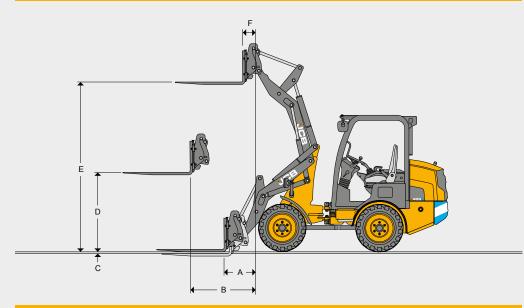
TURNING CIRCLE						
Tyre		RI (Inner Tyre Radius)	R2 (Outer Tyre Radius)			
TR315 and SP HD	mm	1365	2825			
MP567 and AS504	mm	1398	2793			
MP567 and AS504	mm	1649	2542			
Shovel type		R3 (Outer Shovel Radius)				
		Standard Arms	High Lift Arms			
0.4m³ Agricultural shovel	mm	3098	3383			
0.5m³ Agricultural shovel	mm	3219	3383			
0.34m³ Construction shovel	mm	3005	3161			
0.43m³ Construction shovel	mm	3143	3268			
		R4 (Articulation Angle)				
	degrees	45	45			

# LOADER DIMENSIONS



DADER DIMENSIONS									
			Standard L	oader Arm			High Lift L	oader Arm	
Shovel mounting			Quic	khitch		Quickhitch			
Shovel type		Agric	ultural	Constr	ruction	Agricu	ultural	Consti	ruction
Shovel capacity (SAE heaped)	m <sup>3</sup>	0.4	0.5	0.34	0.43	0.4	0.5	0.34	0.43
Shovel capacity (struck)	m <sup>3</sup>	0.32	0.4	0.27	0.34	0.32	0.4	0.27	0.34
Shovel width	mm	1200	1480	1200	1480	1200	1480	1200	1480
Shovel weight	kg	132	153	133	154	132	153	133	154
Maximum material density *	kg/m³	1436	1124	1744	1351	1190	929	1440	1112
Tipping load straight *	kg	1622	1615	1671	1664	1378	1373	1414	1409
Tipping load full turn *	kg	1242	1237	1280	1274	1076	1072	1104	1100
Payload *	kg	621	618	640	637	538	536	552	550
Maximum breakout force	kN	12.6	12.6	16	16	12.6	12.6	16	16
1 Dump angle maximum	degrees	42	42	42	42	45	45	45	45
N Roll back angle full height	degrees	45	45	45	45	47	47	47	47
Roll back at carry	degrees	46	46	46	46	46	46	46	46
Roll back at ground level	degrees	46	46	46	46	46	46	46	46
Load over height	mm	2612	2612	2612	2612	2820	2820	2820	2820
Dump height (45 deg dump)	mm	2008	2008	2140	2140	2187	2187	2327	2327
Dig depth	mm	115	115	115	115	194	194	194	194
Reach at dump height	mm	506	506	359	359	568	568	434	434
Pin height	mm	2882	2882	2882	2882	3090	3090	3090	3090
Reach maximum (45 deg dump) – horizontal arm	mm	1769	1819	1644	1694	2117	2167	1992	2042
Operating weight with canopy enclosure and wide industrial tyres (includes 75kg operator)	kg	2708	2729	2709	2730	2722	2743	2723	2744
Weight for transport	kg	2633	2654	2634	2655	2647	2668	2648	2669

## LOADER DIMENSIONS – FORK FRAME WITH FORKS



## LOADER DIMENSIONS – FORK FRAME WITH FORKS

			Standard Arms	High Lift Arms
	Fork carriage width	mm	1100	1100
	Length of tines	mm	1070	1070
Α	Reach at ground level	mm	489	815
В	Reach at arms horizontal	mm	1029	1266
С	Top of tine above ground with arms down	mm	40	40
D	Arms, horizontal height	mm	1265	1265
Е	Arms, max. height	mm	2702	2910
F	Reach at max. height	mm	199	311
	Tipping load straight*	kg	1270	Ш
	Tipping load full turn (45°)*	kg	972	867
	Payload*	kg	778	694
	Attachment weight	kg	179	179
	Operating weight with canopy enclosure and wide industrial tyres (includes 75kg operator and full fuel tank)*	kg	2746	2760
	Weight for transport	kg	2671	2685

<sup>\*</sup> At the centre of gravity distance 500mm. Based on 80% of FTTL as defined in ISO 14397-1:2007.

OPERATOR ENCLOSURE									
		Standar	d Arms		High Lift Arms				
		Shovel		Forks		Shovel		Forks	
Туре	Operating weight kg	STL kg	FTTL kg	STL kg	FTTL kg	STL kg	FTTL kg	STL kg	FTTL kg
Canopy/folding canopy	0	0	0	0	0	0	0	0	0
Heavy counterweight	+121	+189	+150	+148	+118	+164	+131	+133	+106

TYRE SIZE													
					Standar	d Arm	ıs	High Lift Arms				Dimen	nsions
				She	ovel	Fo	rks	Shovel		Forks			
Tyre size	Manufacturer	Туре	Op weight kg	STL kg	FTTL kg	STL kg	FTTL kg	STL kg	FTTL kg	STL kg	FTTL kg	Vertical mm	Width mm
31x15.50-15	BKT	Skidpower HD Wide Industrial Tyre	0	0	0	0	0	0	0	0	0	0	0
31x15.50-15	BKT	TR315 Wide Agricultural Tyre	-28	-30	-44	-22	-36	-25	-38	-21	-31	-2	+74
10/75-15.3	BKT	AS504 Agricultural Tyre (Narrow off-Set)	-68	-69	-79	-55	-64	-60	-68	-50	-56	-11	-250
10/75-15.3	BKT	AS504 Agricultural Tyre (Wide off-Set)	-68	-69	-79	-55	-64	-60	-68	-50	-56	-11	+2
10/75-15.3	BKT	MP567 Industrial Tyre (Narrow off-Set)	-60	-61	-72	-48	-58	-53	-62	-44	-51	0	-236
10/75-15.3	BKT	MP567 Industrial Tyre (Wide off-Set)	-60	-61	-72	-48	-58	-53	-62	-44	-51	0	+16

LOADER HYDRAULICS		
Pump type		Gear
Pump I max. flow	I/min	40.9
Pump I max. pressure	bar	180
Max. auxiliary flow rate - single line	I/min	40.9
Max. auxiliary flow rate - second line	I/min	40.9
Hydraulic cycle times at engine revs		
Arms raise (full bucket)	seconds	4.68
Bucket dump (full bucket)	seconds	3.3
Arms lower (empty bucket)	seconds	3.1
Total cycle	seconds	11.08

AXLES		
Туре		Standard
Make and model		ZF MT-L 3010 II (front), ZF MT-L 3010 II (rear)
Overall axle ratio		35.515 : 1
Chassis angle	degrees	± 6

All available with open differential or open differential with manual locking.

SERVICE FILL CAPACITIES		
Hydraulic system	litres	41
Axle oil (front)	litres	3.2
Axle oil (rear)	litres	3.9

ELECTRICAL OUTPUT			
System voltage	volts	12	
Battery capacity	Ah	80	

BRAKING	
Working brake	Multi-plate in-board oil immersed discs on front axle
Parking brake	Cable to drum on front axle

CHARGING	
On-board charger allowing direct connection to AC mains power supply	
Indicative Charge Time - 20-80%, subject to environmental conditions.	8hrs @230V
Off-board fast charge - 0-100% @ 415V	Under 2 hours
Charging cable plug type	16A 110V (yellow) 16A 230V (blue) 16A 415V (red)

MOTOR	
Drive Motor Type	3 Phase AC Asynchronous
Drive Motor Power	10.6 kW continuous, 33.4 kW peak
Hydraulic Motor Type	3 Phase AC Permanent Magnet
Hydraulic Motor Power	9 kW continuous, 20 kW peak

POWER SOURCE	
Battery Type	Manganese laminated Lithium-ion
Gross Capacity	20 kWh
System Voltage	96V
Zero Emissions at point of use	

NOISE AND VIBRATION			
		Uncertaincy	Measurement conditions.
Noise at the operator station LpA	69 dB	+/- I dB	Determined in accordance with the test method defined in ISO 6396 and the dynamic test condition defined on $2000/14/EC$ .
Noise emission from the machine LWA	85 dB	+/- I dB	Guaranteed equivalent sound power (external noise) determined in accordance with the dynamic test conditions defined in 2000/14/EC.
Whole body vibration m/s <sup>2</sup>	1.10	+/- 0.11 dB	ISO 2632-1:1997 normalised to an 8h reference period and based upon a test cycle comprising of loader work (soil).
Hand-arm vibration m/s <sup>2</sup>	<2.5	N/A	ISO 5349-2:2001 dynamic test conditions.

EQUIPMENT			
SERVICE AND MAINTENANCE		FRONT PRIMARY DISPLAY	
Grease gun	+	Warning lights	•
Wheel nut wrench	•	Direction indicators	•
		Battery charging condition	•
ELECTRICAL		Hazard lamps	•
Worklights front, reverse light rear	+	Park brake state	•
LED worklights (loader arm mounted)	+	Road lights	•
LED worklights	+	Main beam lights	•
(x2 front, x1 rear, x1 rear reverse light)	•	Hi and low speed	•
Amber rotating beacon	+	Machine hours	•
Road lights	+	Buzzer alerts	•
Number plate bracket with light	+	Operator presence	•
DRIVETRAIN		HYDRAULIC SYSTEM	
20kph transmission	•	Hydraulic quickhitch with in-cab isolation	•
20kph transmission, manual diff-lock	+	Auxiliary hydraulic service	•
Varispeed (creep speed)	•	Secondary auxiliary hydraulic service	+
3-speed transmission modes: Snail/Tortoise/Hare	•	Front loader float	•
		Indicator glass for hydraulic oil level	•
OPERATOR STATION		Hydraulic oil cooler	•
Canopy	•	Free flow return line	+
Canopy with front and rear screen (including wipers)	+	Adjustable constant auxiliary flow	•
Foldable canopy	+	Shovel and fork loader end modes	•
Left hand side gate	+	Switchable Loader modes: Shovel mode / Pallet fork mode	•
Ecit Harid Side gate	т		

Joystick auxiliary controls 12V in cab power socket ROPS/FOPS safety structure Front primary display dash

Steering wheel spinner knob

LCD display with rotary input controller

Joystick isolation switch

Cup holder

Horn

EXTERNAL EQUIPMENT	
Front fenders	•
Rear fenders (with wide tyres)	•
High lift loader arms	+
Belly guard protection plate	•
Recovery hitch	•
Lifting / tie down lugs	•
Articulation strut	•
Heavy counterweight (121kg)	+

STANDARD • OPTIONAL +





ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

### **ELECTRIC WHEEL LOADER 403E**

Operating weight: 2729kg Battery capacity: 20kwh Shovel capacity: 0.5m³

JCB Sales Limited, Rocester, Staffordshire, United Kingdom ST14 5JP.
Tel: +44 (0)1889 590312 Email: salesinfo@jcb.com
Download the very latest information on this product range at: www.jcb.com

©2022 JCB Sales. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB Sales. All references in this publication to operating weights, sizes, capacities and other performance measurements are provided for guidance only and may vary dependant upon the exact specification of machine. They should not therefore be relied upon in relation to suitability for a particular application. Guidance and advice should always be sought from your JCB Dealer. JCB reserves the right to change specifications without notice. Illustrations and specifications shown may include optional equipment and accessories. The JCB logo is a registered trademark of JC Barnford Excavators Ltd.

