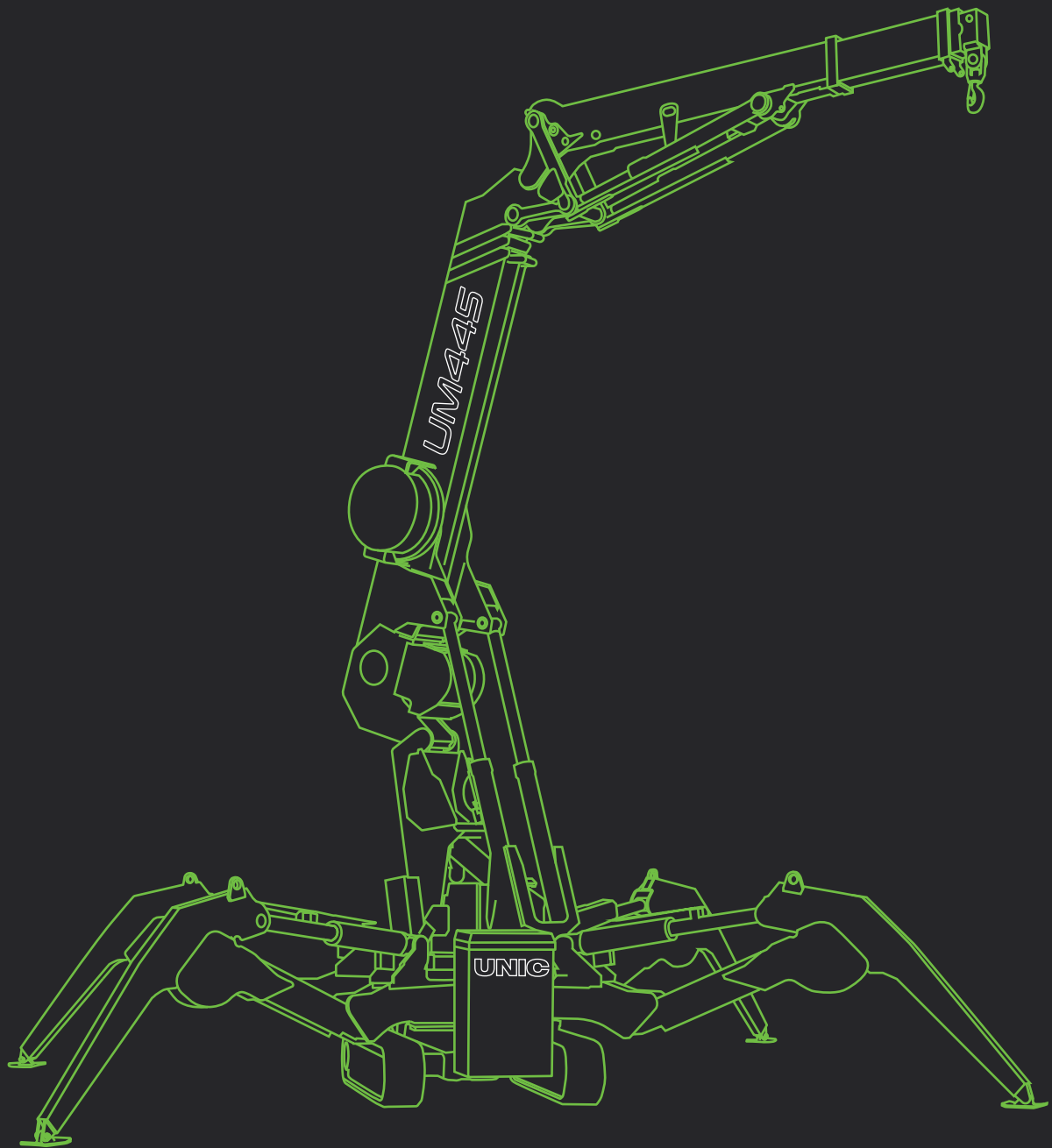


ECO SPIDER CRANES



UNIC
CRANES EUROPE

UM445
LITHIUM-ION MINI CRANE
ECO-UNIC

UM445

(4.0t x 1.8m) / (3.67t x 2.0m)

- Total width 0.75m
- Non-marking tracks
- Max working radius 15.7m
- Max lifting height 17.5m
- Powered by a maintenance free 160Ah lithium-ion battery
- Continuous operation while charging
- Auto-levelling system making setup easy
- Pick & carry capacity: 500kg
- Five-section derricking boom & four-section telescoping jib
- Unique pop-up column reduces rear swing overhang
- Full colour, high resolution i4500 SLI system
- Five position, three extension variable outrigger system
- Backpack radio remote control with high-resolution display
- Intelligent power activation for economy and ecology
- Low noise output
- Zero emissions



Full safe load indicator



LITHIUM-ION MINI CRANE

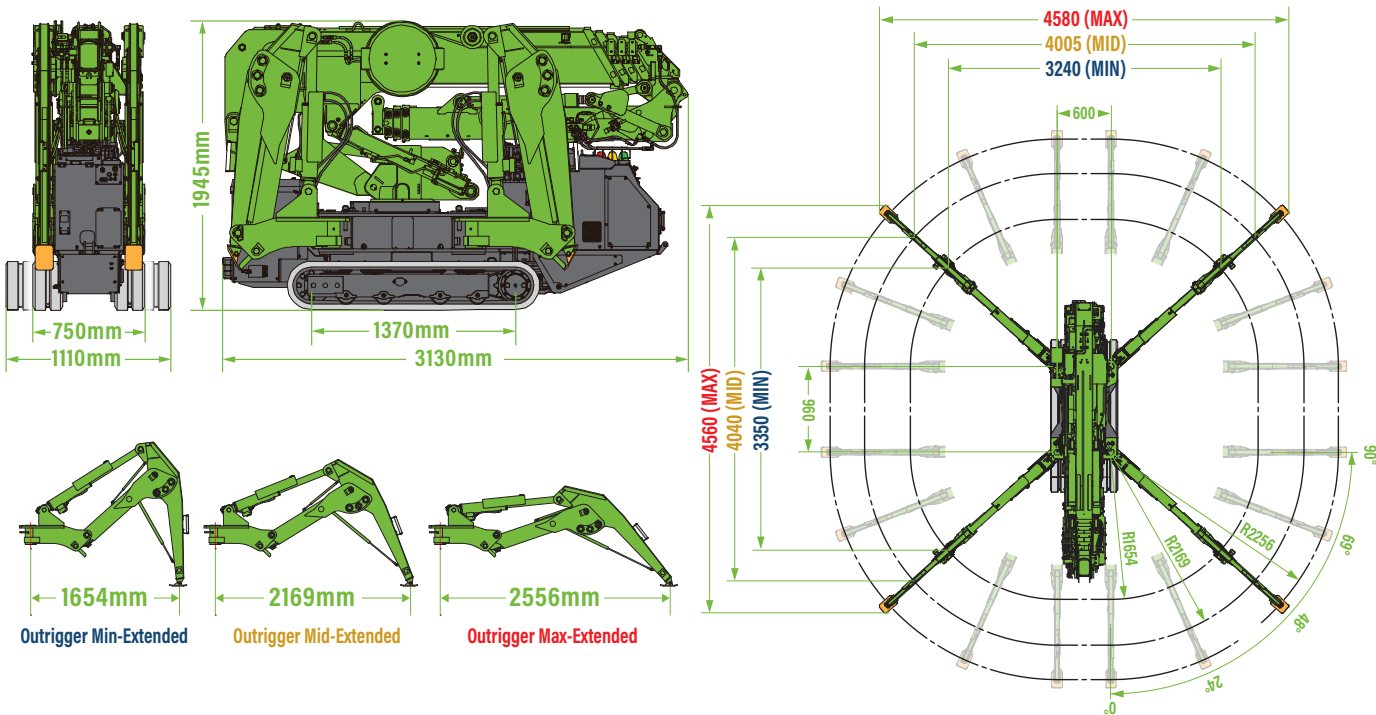
WITH HYDRAULIC JIB



Spec Sheet



CRANE & OUTRIGGER RADIUS DIMENSIONS



Powered by lithium-ion technology and a high-capacity battery pack with the ability to charge while in operation, the UM445 Pop-Up Crane ensures sustained power, contributing to reduced carbon emissions and eco-friendly, green lifting practices.

Its extendable tracks provide heightened stability and manoeuvrability, facilitating seamless navigation across many terrains. Standard features include a 2.9m – 10.0m main boom and a hydraulic telescoping luffing jib/searcher hook attachment with a maximum capacity of 1500kg, extension range from 2.0m to 5.7m, and a luffing range of -10° to 160° offset. With these capabilities, the UNIC UM445 achieves an impressive maximum lifting height of 17.5m and a maximum working radius of 15.7m.

The flexible variable outrigger design, featuring five offsettable angles and three extensions, allows operation in tighter spaces without compromising load ratings. The pop-up turret design reduces the rear overhang, enabling the crane to work closer to walls and obstacles.

Fully radio remote-controlled, the UM445 ensures a swift and precise setup for lifting operations, travelling, setup, outrigger deployment, auto-levelling, and pick and carry modes. Additionally, the UM445 comes with non-marking tracks as standard to prioritise surface protection.

BELLYPACK RADIO REMOTE CONTROL WITH FULL COLOUR DISPLAY



The ergonomic Bellypack Radio Remote is the latest way for operators to manoeuvre their UNIC crane. Observe and control the spider crane functions with the aid of a full colour 4.3" high-resolution display and six linear levers, giving operators smooth and precise movements.

The Bellypack comes with secure communications and auto-frequency management between the transmitter and receiver, ensuring no other remote can unintentionally affect the crane.

CRANE SPECIFICATIONS

Crane capacity	max:	4.0t x 1.8m
Max working radius	max:	9.8m (15.7m with hydraulic jib, 15.6m with searcher hook)
Max lifting height	approx:	10.9m (16.4m with hydraulic jib, 17.5m with searcher hook)
Rope length	rope:	8mm x 59m
Dimensions	folded:	3130mm (l) x 750mm (1110mm) (w) x 1945mm (h)
Weight	unladen:	3830kg
Point loadings	Due to the many variables involved, point loadings are only available on request	
Hook speed	approx:	6.0 (9.0)/min (4-fall), 12.0 (18.0)/min (2-fall), 24.0 (36.0)/min (1-fall)
Main boom	boom length:	2.895 - 10.075m
	telescoping speed:	7.18m/34 seconds
	boom type:	5 section, hydraulically telescoping boom, hexagonal box construction
Jib	max capacity:	1500kg
	jib length:	1.98 - 5.74m
	telescoping speed:	3.76m/21 seconds
	jib type:	4 section, hydraulically telescoping jib, box construction
Slewing angle/speed	approx:	360° (continuous) 1.2 rpm
Traction system	drive:	hydrostatic 2-speed, stepless forward and reverse
	travel speed:	0 - 2.0km/h
	gradeability:	± 20° (vertical) 10° (traverse)
	track ground length:	1370mm
	track ground pressure:	68.2kPa (0.70kg/cm²)
	track width:	200mm
Battery	type:	lithium-ion battery
	pack voltage:	DC 51.2V
	pack capacity:	160Ah
	pack composition:	4 series x 3 parallel
Battery charger	input voltage:	AC95-265V (50-60Hz), single-phase
	input current:	16A (AC200V), 15A (AC100V)
	output voltage:	DC 56.0V
	output current:	60A (AC200V), 30A (AC100V)
	charging time:	3.0 hr (AC200V), 6.2 hr (AC100V)
Standard equipment	computer controlled moment limiter (safe load indicator), radio remote control with feedback display, overwinding alarm, computer controlled intelligent voice warning system, multi-function operation by radio remote control, intelligent power activation, automatic hook stow, overload warning lamps, variable outriggers, virtual wall, slew, height and radius range limitation, non-marking tracks, 4-fall hook block, single-line hook, extendable tracks, backpack radio remote control with 4.3" high-resolution display	

DESIGNED FOR ENCLOSED AREA LIFTING

The pop-up turret design enables the crane to be used closer to walls and obstacles than ever before by reducing the rear overhang, providing maximum versatility. The new, increased flexible variable outrigger design features five different off settable angles and three different extensions, allowing the UNIC UM445 to work in tighter, more restricted areas while maintaining excellent load ratings.



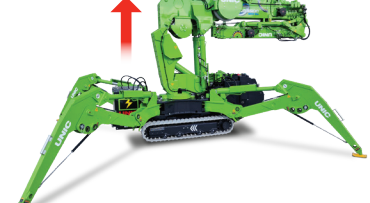
UNIQUE FEATURE OF THE UM445 POP-UP SPIDER CRANE



1 The compact UM445 with its expandable tracks for improved stability can be manoeuvred easily into position by the operator. Taking the width from 1110mm to 750mm gives users the option to manoeuvre through suitable doorways.



2 The variable outriggers of the UM445 give operators the ability to position the outriggers where needed in confined areas or around obstacles on-site. Additionally, with the variable outriggers users can unlock even more performance with Max+ capacities.



3 The position of the unique pop-up column means the UM445 has increased stability. It also offers the ability to work closer to walls and obstacles than its closest competitor, due to the minimal overhang of the column.



4 The 1500kg capacity 4-section telescopic hydraulic jib of the UM445 takes the maximum hook height from 10.5m to 17.5m, and the maximum working radius from 9.82m to 15.7m.

UM445

(4.0t x 1.8m) / (3.67t x 2.0m)

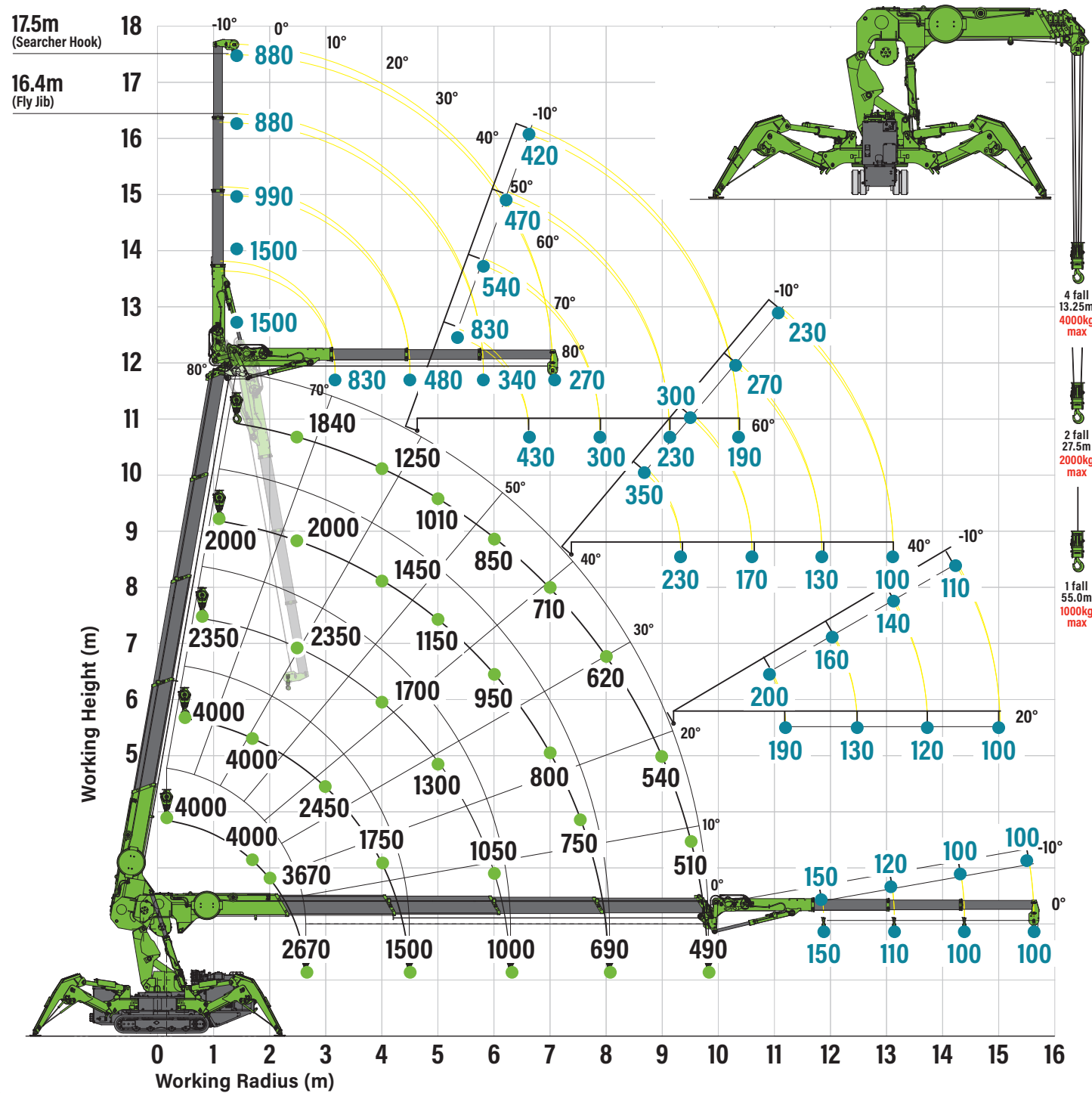
LITHIUM-ION MINI CRANE WITH HYDRAULIC JIB



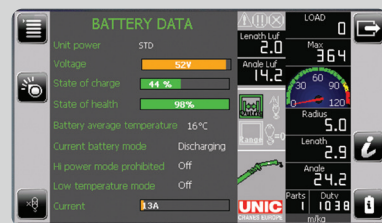
Spec Sheet

UNIC
CRANES EUROPE

RATED LOADS (kg) & HOOK FALLS



Charge the UM445 while working with a 110/240v supply



Battery data & diagnostics information

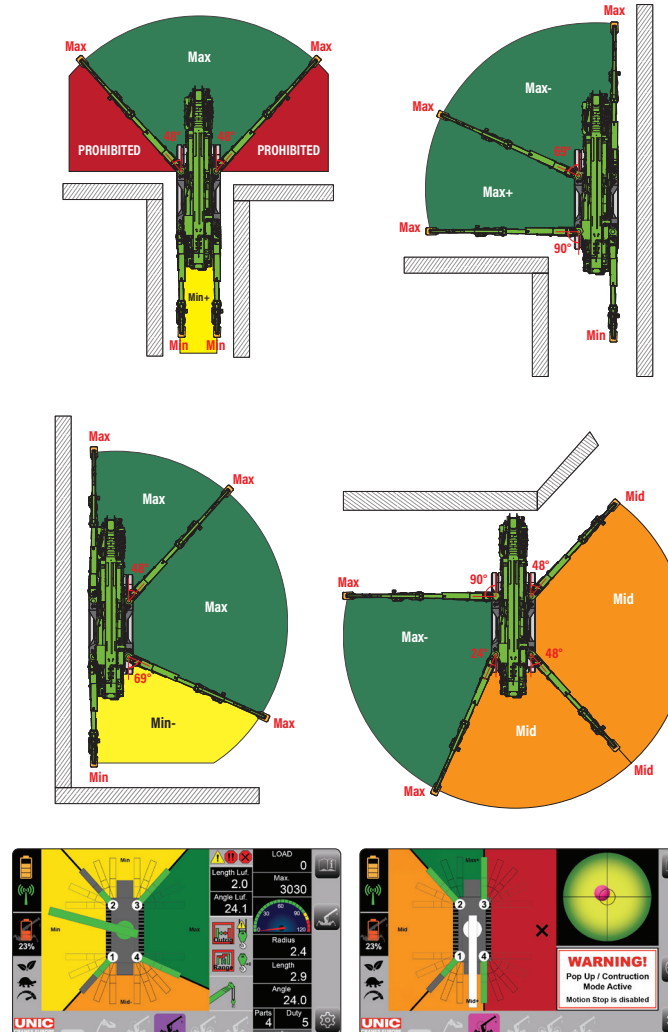
NON-MARKING EXTENDABLE TRACKS



The extendable tracks enable enhanced stability and manoeuvrability, allowing the crane to navigate various terrains with ease.

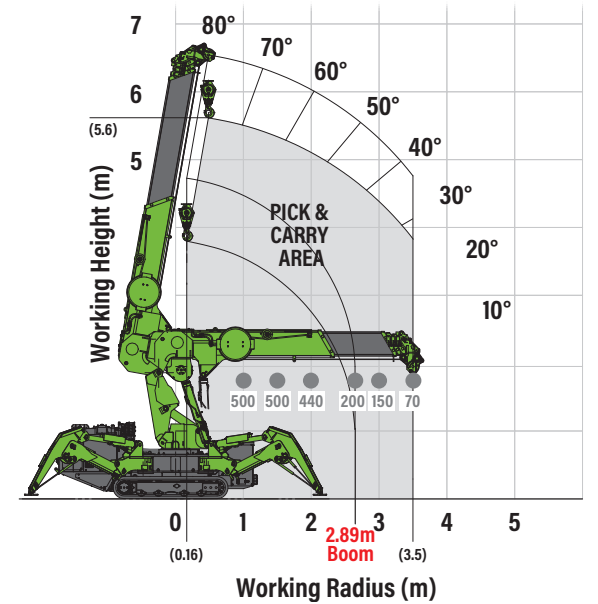
Non-marking tracks are included as standard, to reduce the impact on delicate surfaces, ensuring a tidy and professional work environment.

VARIABLE OUTRIGGER - WORKING EXAMPLES

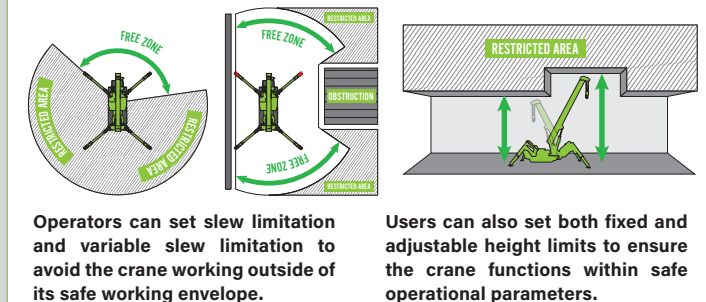


WORKING RANGE - PICK & CARRY

The crane's versatile pick and carry function enhances productivity, enabling both lifting and transporting of loads efficiently on site.

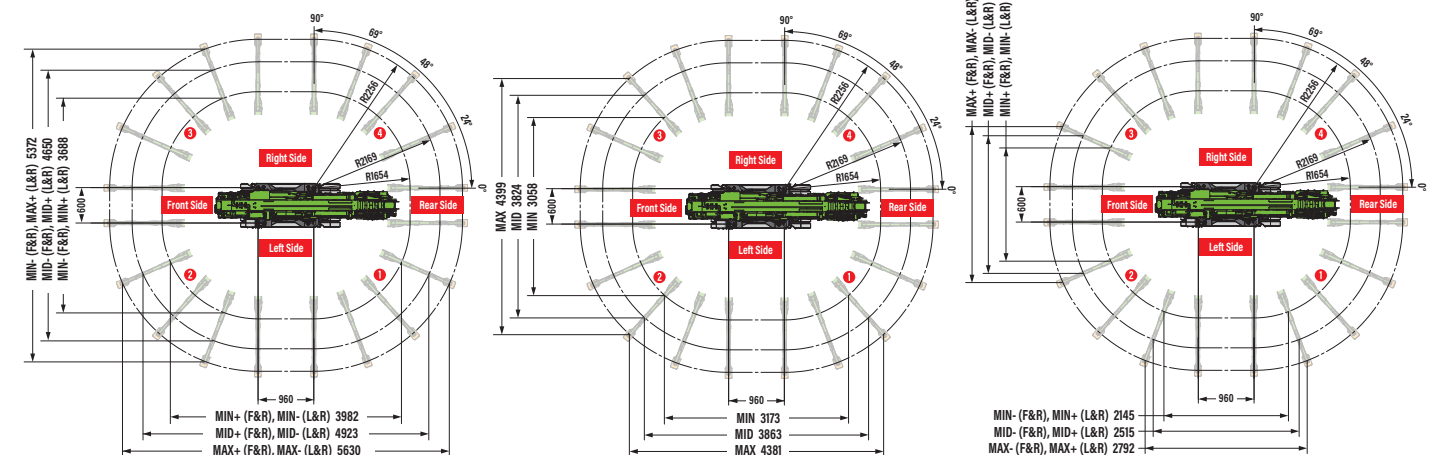


SLEW AND HEIGHT LIMITATION AS STANDARD



VARIABLE OUTRIGGER WORKING MODES

The variable outrigger design features five different offsettable angles and three different extensions for each outrigger, allowing the UNIC UM445 to work in tighter, more restricted areas. The working modes around the crane change, depending on the outrigger angles and extensions.





- Total width 0.69 / 0.75m
- Max working radius 8.41m
- Multi-position configurable outriggers (VO)
- Operator control of outrigger extension
- Intelligent voice warning system
- Preliminary stability warning system with motion cut
- Radio remote control as standard
- Optional working area limitation
- Optional slew limitation

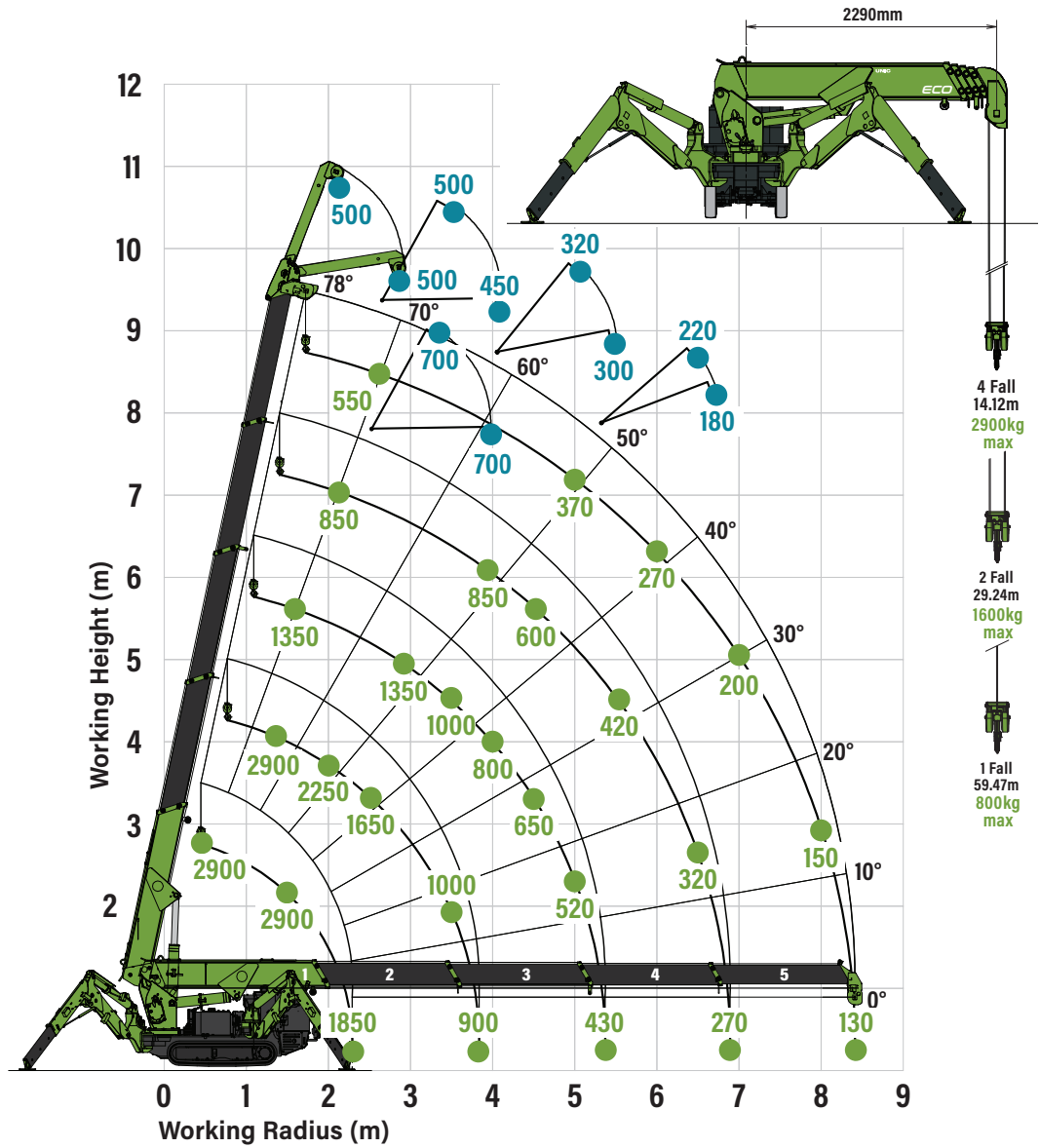


The Eco-UNIC mini crane range offers fume-free lifting power that is suitable for lifting in sensitive environments. Featuring both tracked and wheeled variants of the Eco-295 models these cranes include an on-board rechargeable 48v battery for environmentally friendly and low noise operation. Our tracked cranes travel over rough terrain and operate on uneven surfaces with ease while our standard wheeled variants feature low-marking wheels for working on light-coloured or polished surfaces. Ideal for food processing plants, listed buildings, shopping centres, and airports.

CRANE SPECIFICATIONS

Crane capacity	capacity:	2.9t x 1.4m
Max working radius	max:	8.41m
Max lifting height	max:	8.9m
Rope length	max:	14.12m (4 fall), 29.24m (2 fall), 59.47m (1 fall)
WBE dimensions	folded:	2730mm (l) x 750mm (w) x 1560mm (h)
CBE dimensions	folded:	2720mm (l) x 690mm (w) x 1525mm (h)
WBE weight	unladen:	2425kg (2490kg with fly jib)
CBE weight	unladen:	2350kg (2415kg with fly jib)
Point loadings	Due to the many variables involved, point loadings are only available on request	
Hook speed	approx:	91m/min (with 4 layers and 4 falls)
Telescopic system	boom length: telescoping speed: boom type:	2.53 - 8.65m 6.12m/31 seconds 5 section, hydraulically telescoping boom, hexagonal box construction
Derricking angle/speed	approx:	0 - 78° /17 seconds
Slewing angle/speed	approx:	360° (continuous) 1.5 rpm
WBE travelling system	drive: travel speed: steering angle: min. turning radius: gradeability: front wheels: rear wheels:	hydraulic motor wheeled drive 0 - 2.6km/h 50° left and 50° right outer 1990mm x inner 510mm ± 20° (vertical) 10° (traverse) 4.00-8 (wheel RIM 3.00 D-8) 3.50-5 (wheel RIM 3.00 SP-5)
WBE power source	power: voltage:	3.1kW (AC motor) 48v DC rechargeable battery
CBE travelling system	drive: travel speed: gradeability: track ground length: track ground pressure: track width:	hydrostatic, stepless forward and reverse 0 - 2.3 km/h 20° (vertical), 10° (traverse) 1050mm 48kPa (0.49 kg/cm²) 180 mm
CBE power source	power: voltage:	4.0kW (AC motor) 48v DC rechargeable battery
Battery charger	charger:	110v (32A) or 200/240v single phase (16A)
Standard equipment	computer controlled moment limiter (safe load indicator), radio remote control, overwinding alarm, computer controlled intelligent voice warning system, multi-function operation by radio remote control, intelligent throttle activation, automatic hook stow, overload warning alarms, overload warning lamps	
Optional equipment	1 fall hook block, 2 fall hook block, 300kg capacity small searcher hook, 700kg capacity searcher hook, 700kg capacity fly jib with single part line, variable outriggers, slew limitation, data logger, backpack radio remote control	

RATED LOADS (kg) & HOOK FALLS



SEARCHER HOOK
SMALL - 300kg



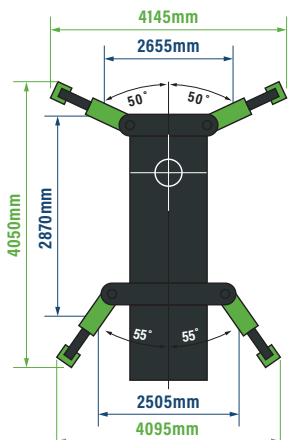
Capacity	300kg
Length	500 mm
Weight	15 kg
Angles	0°, 20°, 40°, 60°

FLY JIB & SEARCHER
HOOK - 700kg



Capacity	700kg
Length	1500mm
Weight	40kg
Tilt angles	0°, 20°, 40°, 60°

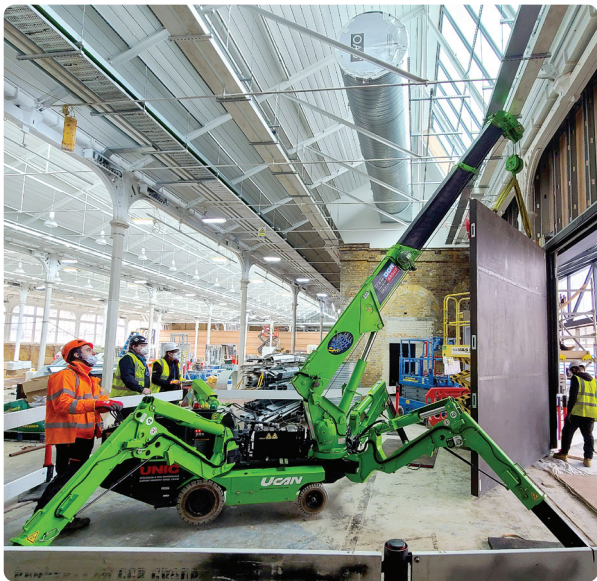
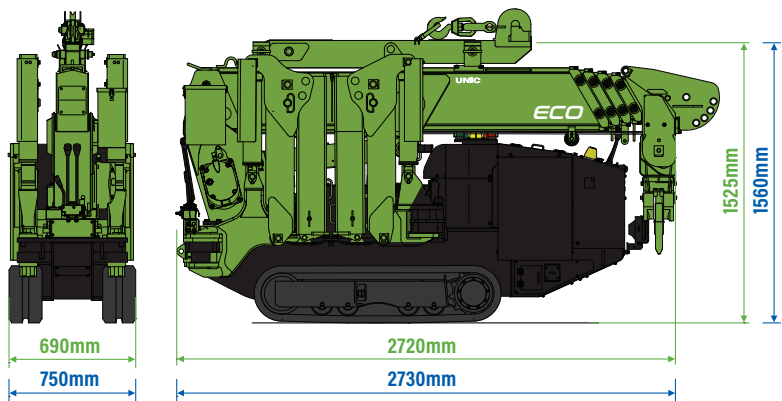
OUTRIGGER MIN & MAX



MAX OUTRIGGERS MIN OUTRIGGERS

DIMENSIONS

CBE Model / WBE Model



OPTIONS



Backpack radio remote control

Variable outriggers

UNIC
CRANES EUROPE

GGR UNIC House, Haddenham, UK

+44 (0)1844 202 071 sales@uniccranes.com www.uniccranes.com



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