



### Standard Features

- Manual emergency lower system
- Platform swing gate
- Extended platform
- Foldable platform
- Multi-disc wet brake
- Manual brake release
- Pothole protection
- Non-marking tires
- AC power to platform
- Tilt alarm
- Buzzer
- Safety brackets
- Charging indicator
- Forklift pockets
- Diagnosis system
- Maintenance free battery
- Dual flashing beacon

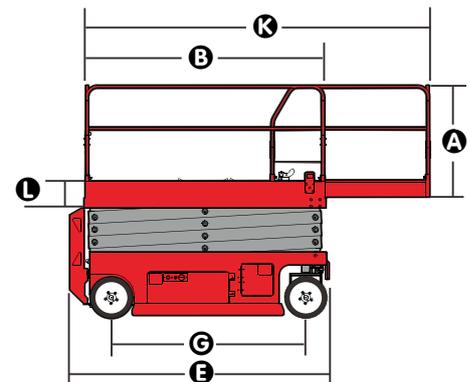
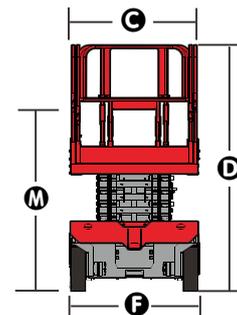
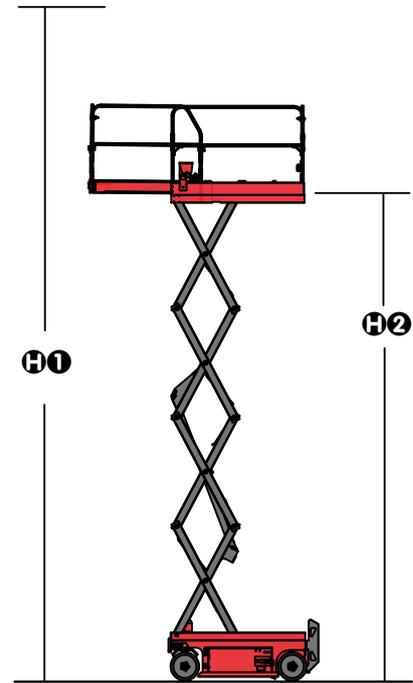
### Options Features

- Air line to platform
- Power socket to platform
- Platform work light
- Overload sensor
- Horn
- Anti-collision system
- Top limit protection auto-stop device
- Motion Alarm



# XE-N SERIES

MODEL	XE65N	XE80N
Working height max <b>H1</b>	6.5 m	7.8 m
Platform height max <b>H2</b>	4.5 m	5.8 m
Platform height min	0.93 m	1.03 m
Length - Platform extension	0.9 m	
Lifting capacity	270 kg	230 kg
Lift capacity on the extension	115 kg	
Dimension of the platform <b>BxGxA</b>	1.64 x 0.75 x 1.1 m	
Platform length - extended <b>K</b>	2.54 m	
Platform skirting board height <b>L</b>	0.15 m	
Overall length and width <b>BxG</b>	1.93 x 0.77 m	
Height stowed <b>D</b>	2.04 m	2.13 m
Height - guardrails folded <b>M</b>	1.69 m	1.78 m
Wheelbase <b>G</b>	1.32 m	
Ground clearance <b>H</b>	0.06 m	
Ground clearance - deployed potholes	0.02 m	
Turning radius - inside	0.8 m	
Turning radius - outside	1.56 m	
Rising time / lowering time	11 / 8.5 s	14 / 11 s
Drive speed - stowed	3.8 km /h	
Drive speed - raised	0.7 km/h	
Gradeability	30%	
Tilt sensor - front to back	3°	
Tilt sensor - side to side	2°	
Driving motor power	Hydraulic / Electric	
Hydraulic tank capacity	15 L	
Tire size	356 x 114 x 254 mm	
Max. platform occupancy	2 pers	
Power source	4 x 6 V / 225 Ah	
Weight - ANSI/CSA Standard	1164 kg	1315 kg
- CE/AUS Standard	1235 kg	1490 kg



» Mantall provides user with both hydraulic drive (HD) and electrical drive (ED) walking modes, in order to meet the demands of different customers.

# XE-C SERIES

## ELECTRIC SELF-PROPELLED SCISSOR LIFTS

# Mantall®

### Standard Features

- Manual emergency lower system
- Platform swing gate
- Extended platform
- Foldable platform
- Multi-disc wet brake
- Manual brake release
- Pothole protection
- Non-marking tires
- AC power to platform
- Tilt alarm
- Buzzer
- Safety brackets
- Charging indicator
- Forklift pockets
- Diagnosis system
- Maintenance free battery
- Dual flashing beacon

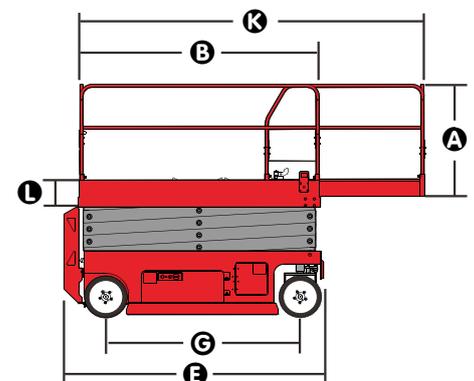
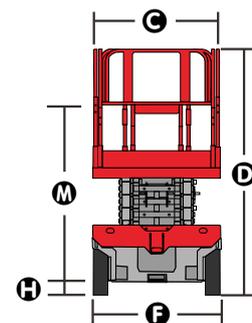
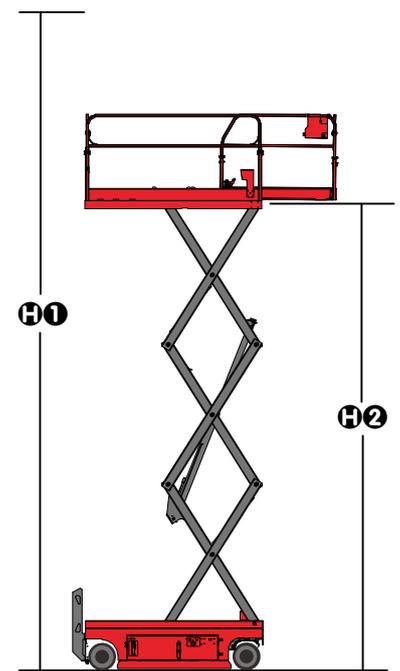
### Options Features

- Air line to platform
- Power socket to platform
- Platform work light
- Overload sensor
- Horn
- Anti-collision system
- Top limit protection auto-stop device
- Motion Alarm



# XE-C SERIES

MODEL	XE80C	XE100C
Working height max <b>H1</b>	8 m	10 m
Platform height max <b>H2</b>	6 m	8 m
Length - Platform extension	1 m	
Lifting capacity	350 kg	230 kg
Lift capacity on the extension	120 kg	
Dimension of the platform <b>B x C x A</b>	2.25 x 0.8 x 1.1 m	
Platform length - extended <b>K</b>	3.2 m	
Platform skirting board height <b>L</b>	0.15 m	
Overall length and width <b>E x F</b>	2.5 x 0.8 m	
Height stowed <b>D</b>	2.17 m	2.3 m
Height - guardrails folded <b>M</b>	1.72 m	1.86 m
Wheelbase <b>G</b>	1.85 m	
Ground clearance <b>H</b>	0.1 m	
Ground clearance - deployed potholes	0.019 m	
Turning radius - inside	0	
Turning radius - outside	2.12 m	
Rising time / lowering time	27 / 29 s	35 / 17 s
Drive speed - stowed	3.4 km/h	
Drive speed - raised	0.7 km/h	
Gradeability	30%	25%
Tilt sensor - front to back	3°	
Tilt sensor - side to side	2°	
Drive model	Hydraulic / Electric	
Hydraulic tank capacity	15 L	
Tire size	356 x 114 x 254 mm	
Max. platform occupancy	2 pers	
Power source	24 V / 225Ah	
Weight - ANSI/CSA Standard	1690 kg	1855 kg
- CE/AUS Standard	1910 kg	2000 kg



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# **XE-W SERIES**

## **ELECTRIC SELF-PROPELLED SCISSOR LIFTS**

# **Mantall®**

### **Standard Features**

- Manual emergency lower system
- Platform swing gate
- Extended platform
- Foldable platform
- Multi-disc wet brake
- Manual brake release
- Pothole protection
- Non-marking tires
- AC power to platform
- Tilt alarm
- Buzzer
- Safety brackets
- Charging indicator
- Forklift pockets
- Diagnosis system
- Maintenance free battery
- Dual flashing beacon

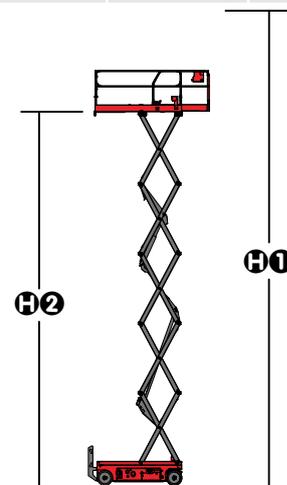
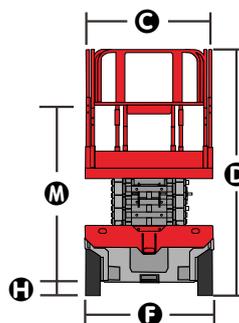
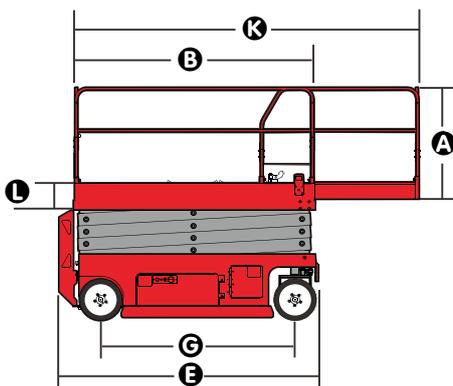
### **Options Features**

- Air line to platform
- Power socket to platform
- Platform work light
- Overload sensor
- Horn
- Anti-collision system
- Top limit protection auto-stop device
- Motion Alarm



# XE-W SERIES

MODEL	XE80W	XE100W	XE120W	XE140W	XE160W	XE160W(II)
Working height max <b>H1</b>	8 m	10 m	12 m	14 m	16 m	15.7 m
Platform height max <b>H2</b>	6 m	8 m	10 m	12 m	14 m	13.7 m
Length - Platform extension	1 m	1 m	1 m	1 m	1 m	0.9 m
Lifting capacity	550 kg	450 kg	400 kg	350 kg	230 kg	227 kg
Lift capacity on the extension	120 kg				100 kg	113 kg
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	2.25 x 1.14 X 1.12 m					2.64 x 1.12 x 1.1 m
Platform length - extended <b>K</b>	3.3 m					3.54 m
Platform skirting board height <b>L</b>	0.172 mm					/
Overall length and width <b>E</b> x <b>F</b>	2.51 x 1.2 m					2.84 x 1.25 m
Height stowed <b>D</b>	2.19 m	2.31 m	2.43 m	2.55 m	2.67 m	2.68 m
Height - guardrails folded <b>M</b>	1.51 m	1.63 m	1.75 m	1.87 m	1.99 m	2.08 m
Wheelbase <b>G</b>	1.85 m					2.21 m
Ground clearance <b>H</b>	0.1 m					0.15 m
Ground clearance - deployed potholes	0.019 m					/
Turning radius - inside	0					0
Turning radius - outside	2.3 m					2.75 m
Rising time / lowering time	32 / 30 s	45 / 30 s	55 / 37 s	61 / 42 s	80 / 46 s	88 / 60 s
Drive speed - stowed	3.4 km/h					3.5 km/h
Drive speed - raised	0.7 km/h					0.8 km/h
Gradeability	30%			25%		
Tilt sensor - front to back	3°				1.5°	3°
Tilt sensor - side to side	2°				1°	1.5°
Drive model	Hydraulic / Electric					
Hydraulic tank capacity	15 L			25 L		20 L
Tire size	406 x 127 mm					
Max. platform occupancy	2 pers					2 pers
Power source	4 x 6 V / 225 Ah					
Weight - ANSI/CSA Standard	2010 kg	2125 kg	2490 kg	2690 kg	3280 kg	/
- CE/AUS Standard	2200 kg	2610 kg	2900 kg	3245 kg	3600 kg	3345 kg



# **XE-W/OR SERIES** **ELECTRIC SELF-PROPELLED SCISSOR LIFT**

# **Mantall®**



## **Standard Features**

- Foldable platform
- Diagnosis system
- 4 wheel drive
- Tilt alarm system
- Fault diagnosis system
- Explosion-proof of the oil tube
- Automatic brake system
- 406 x 152 non-marking solid rubber tires
- Hour meter
- Proportional control
- Lifting hoists
- Emergency lower down
- Safety maintenance support bar
- Main power switch
- Automatic levelling hydraulic outriggers
- Maintenance-free battery

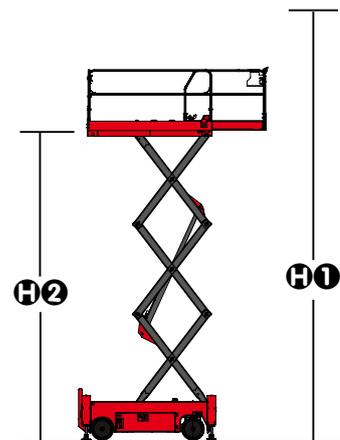
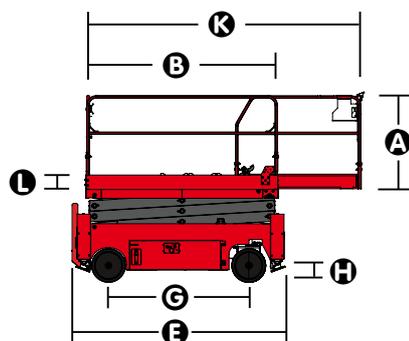
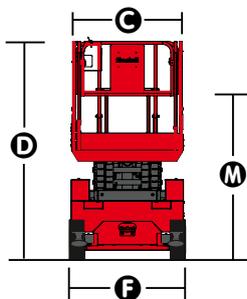
## **Options Features**

- Airline to platform
- Platform work lights
- Special hydraulic oil
- Top Limit Protection Auto-stop device
- Power socket to the platform
- Overload sensor



# XE-W/OR SERIES

MODEL	XE80W/OR	XE100W/OR	XE120W/OR	XE140W/OR	XE160W/OR
Working height max <b>H1</b>	8 m	10 m	12 m	14 m	16 m
Platform height max <b>H2</b>	6 m	8 m	10 m	12 m	14 m
Length - Platform extension	1 m	1 m	1 m	1 m	1 m
Lifting capacity	550 kg	450 kg	400 kg	350 kg	230 kg
Lift capacity on the extension	120 kg			100 kg	
Dimension of the platform <b>BxCxA</b>	2.3 x 1.15 X 1.1 m				
Platform length - extended <b>K</b>	3.3 m				
Platform skirting board height <b>L</b>	0.17 m				
Overall length and width <b>ExF</b>	2.55 x 1.2 m	2.8 x 1.2 m			
Height stowed <b>D</b>	2.25 m	2.4 m	2.53 m	2.65 m	2.82 m
Height - guardrails folded <b>M</b>	1.64 m	1.76 m	1.88 m	2.05 m	2.17 m
Wheelbase <b>G</b>	1.68 m	1.88 m			
Ground clearance <b>H</b>	0.15 m	0.14 m			
Turning radius - inside	0				
Turning radius - outside	2.4 m	2.64 m			
Rising time / lowering time	32 / 30 s	45 / 30 s	55 / 37 s	75 / 50 s	86 / 50 s
Drive speed - stowed	3.4 km/h				
Drive speed - raised	0.7 km/h				
Gradeability	35%	30%	25%		
Tilt sensor - front to back	3°			1.5°	
Tilt sensor - side to side	2°			1°	
Outrigger level ability - front to back	4.5°	4°			
Outrigger level ability - side to side	10°				
Hydraulic tank capacity	25 L	38 L			
Max. platform occupancy	2 pers				
Tire size	406 x 152 mm				
Power source	4 x 6 V / 225 Ah				
Weight	2270 kg	2880 kg	3110 kg	3295 kg	3575 kg



# XEM-MINI SERIES

## PUSH AROUND MINI SCISSOR LIFT

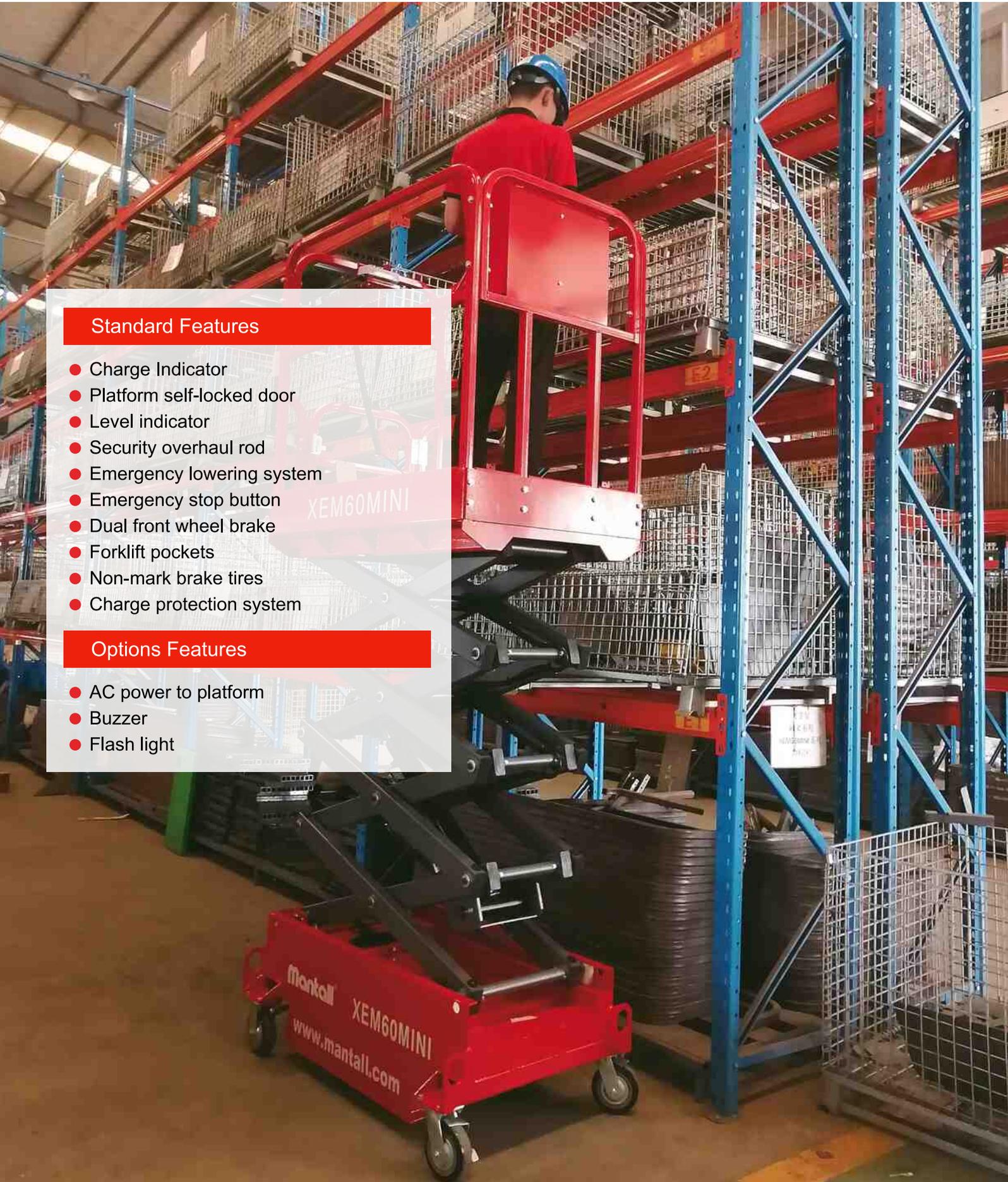
# Mantall®

### Standard Features

- Charge Indicator
- Platform self-locked door
- Level indicator
- Security overhaul rod
- Emergency lowering system
- Emergency stop button
- Dual front wheel brake
- Forklift pockets
- Non-mark brake tires
- Charge protection system

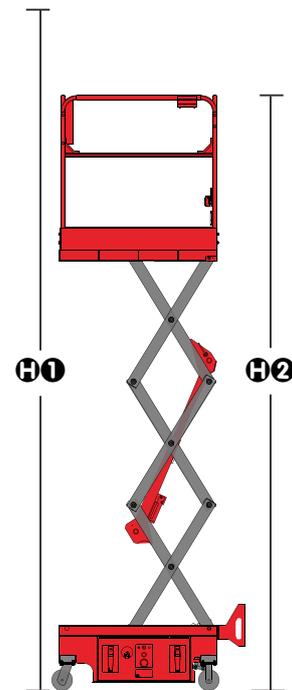
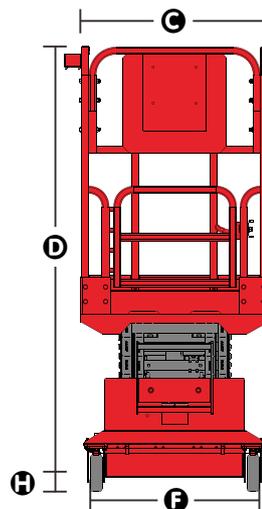
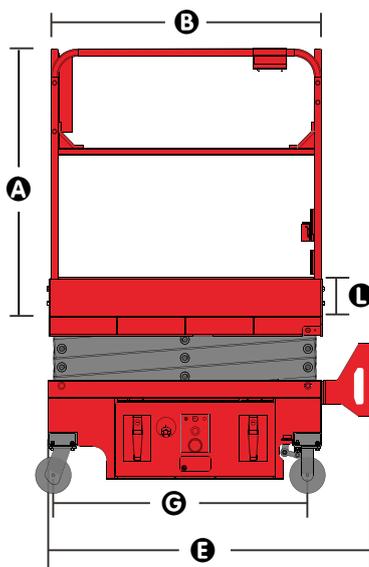
### Options Features

- AC power to platform
- Buzzer
- Flash light



# XEM-MINI SERIES

MODEL	XEM50MINI	XEM60MINI
Working height max <b>H1</b>	5 m	6 m
Platform height max <b>H2</b>	3 m	4 m
Lifting capacity	240 kg	
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	1.15 x 0.76 x 1.1 m	
Platform skirting board height <b>L</b>	0.15 m	
Overall length and width <b>E</b> x <b>F</b>	1.37 x 0.76 m	
Height stowed <b>D</b>	1.85 m	1.94 m
Wheelbase <b>G</b>	1.07 m	
Ground clearance <b>H</b>	0.06 m	
Tilt sensor - front to back	2°	
Tilt sensor - side to side	1°	
Rising time / lowering time	28 / 24 s	35 / 18 s
Hydraulic tank capacity	2 L	
Non-marking tyres	150 mm	
Max. platform occupancy	2 pers	
Power source	12 V / 100 AH	
Weight	480 kg	550 kg



# **XE-MINI/ED PLUS SERIES**

## **ELECTRIC SELF-PROPELLED MINI SCISSOR LIFTS**

# **Mantall®**

### **Standard Features**

- Proportional Controls
- Self-lock gate on platform
- Extended Platform
- Drivable at full height
- Non-marking Tires
- 4 x 2WD
- Automatic brake system
- Emergency lowering system
- Emergency stop button
- Explosion-proof of the tubing
- Diagnosis system
- Tilt sensor with Alarm
- Horn
- Flash light
- Hour meter
- Safety Brackets
- Forklift Pockets

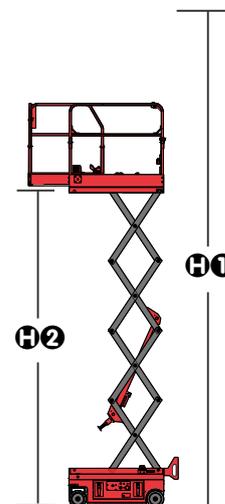
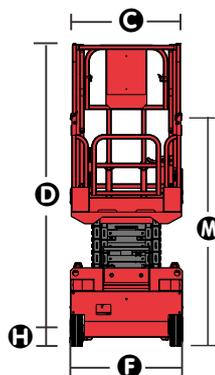
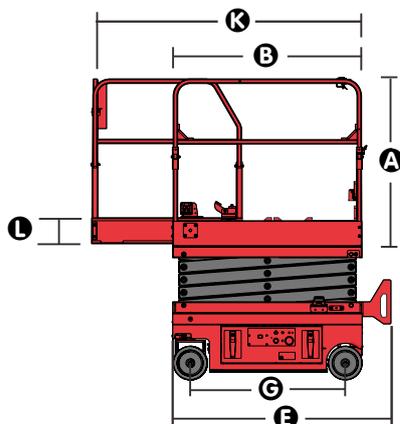
### **Options Features**

- Overload sensor
- AC power to platform



# XE-MINI/ED PLUS SERIES

MODEL	XE50MINI/ED PLUS	XE60MINI/ED PLUS
Working height max <b>H1</b>	5.4 m	6.4 m
Platform height max <b>H2</b>	3.4 m	4.4 m
Length - Platform extension	0.55 m	
Lifting capacity	240 kg	
Lift capacity on the extension	100 kg	
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	1.28 x 0.76 x 1.1 m	
Platform length - extended <b>K</b>	1.83 m	
Platform skirting board height <b>L</b>	0.17 m	
Overall length and width <b>E</b> x <b>F</b>	1.49 x 0.76 m	
Height stowed <b>D</b>	1.95 m	2.03 m
Height - guardrails folded <b>M</b>	1.5 m	1.59 m
Wheelbase <b>G</b>	1.05 m	
Ground clearance <b>H</b>	0.06 m	
Ground clearance - deployed potholes	0.015 m	
Turning radius - inside	0.35 m	
Rising time / lowering time	20 / 17 s	23 / 19 s
Drive speed - stowed	3 km/h	
Drive speed - raised	0.8 km /h	
Gradeability	25 %	
Tilt sensor - front to back	3°	
Tilt sensor - side to side	2°	
Hydraulic tank capacity	2 L	
Non-marking tyres	230 mm	
Max. platform occupancy	2 pers	
Power source	24 V	
Weight	760 kg	820 kg



# **XE-CT SERIES**

## **CRAWLER TYPE SCISSOR LIFT**

# **Mantall**<sup>®</sup>



### **Standard Features**

- 0.9 x 1.84m platform
- Tilt alarm system
- Fault diagnosis system
- Explosion-proof of the tubing
- Automatic brake system
- Safety brackets
- 200 x 72 hard rubber crawler
- Hour meter, power display
- External charging indicator
- AC socket in the platform
- All motion alarm
- Fault code display
- Flash light
- Buzzer
- Proportional control
- Emergency lower
- Manual brake release
- Maintenance free battery

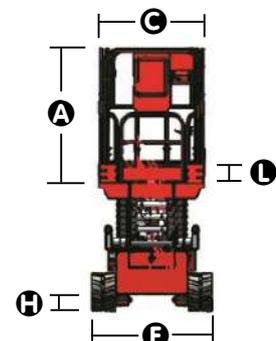
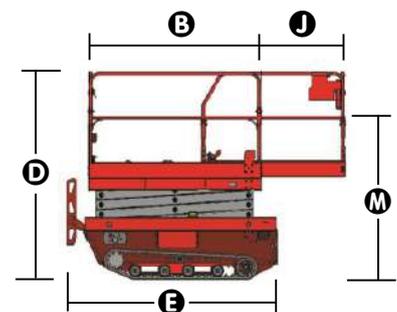
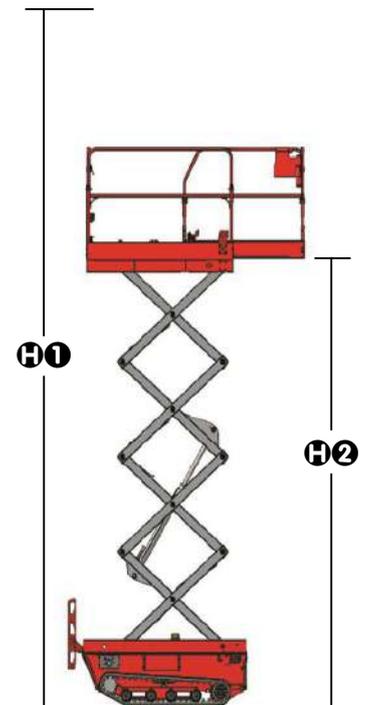
### **Options Features**

- Handheld fault diagnostic device
- Overload sensor

# XE-CT SERIES

The XE-CT series of crawler type scissor lift adopts rubber tracked chassis; the imitation tank structure design; allows aerial work platform to work on the soft ground, breaking the limitation that the aerial work platform must be constructed on the hard ground. The seamless track of the Mantall XE-CT series lift will not cause damage to the ground or leave traces when turning at 0 degrees. The rubber crawler walking system has characteristic of low noise, low vibration and comfortable ride, especially suitable for high-speed transfer occasions, achieving full-surface passing performance.

MODEL	XE60CT	XE80CT
Working height max <b>H1</b>	6.8 m	8.0 m
Platform height max <b>H2</b>	4.8 m	6.0 m
Max. Outreach <b>J</b>	0.9 m	
Lifting capacity	230 kg	
Lift capacity on the extension	115 kg	
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	1.84 x 0.9 x 1.1 m	
Platform skirting board height <b>L</b>	0.13 m	
Overall length and width <b>E</b> x <b>F</b>	2.26 x 1.01 m	
Height stowed <b>D</b>	2.12 m	2.22 m
Height - guardrails folded <b>M</b>	1.75 m	1.85 m
Ground clearance <b>H</b>	0.13 m	
Rising time / lowering time	24 / 22 s	32 / 30 s
Drive speed - stowed	1.7 km/h	
Drive speed - raised	0.7 km/h	
Gradeability	40%	
Tilt sensor - front to back	3°	
Tilt sensor - side to side	2°	
Drive model	Electric	
Hydraulic tank capacity	7 L	
Crawler size	Y200 x 72 - 49 Section	
Power source	24 V / 225 Ah	
Weight - ANSI/CSA Standard	2 pers	
Power source	1140 kg	1235 kg



- » Mantall crawler-type electric scissor lift has characteristics of zero emission, no noise, and has powerful climbing function.
- » The carrying capacity could be up to 230Kg, and lifting process is stable, safe and reliable.
- » Strong driving force and fast traction speed.
- » With on-board diagnostic system, intelligent fault alarm system and other functions.

# **XE-CT/OR SERIES**

## **CRAWLER TYPE SCISSOR LIFT**

# **Mantall<sup>®</sup>**



### **Standard Features**

- 0.9 x 1.84m platform
- Tilt alarm system
- Fault diagnosis system
- Explosion-proof of the oil tube
- Automatic brake system
- Safety maintenance support bar
- 200 x 72 hard rubber crawler
- Hour meter
- External charging indicator
- AC socket in the platform
- All motion alarm
- Fault code display
- Flash light
- Buzzer
- Proportional control
- Emergency lower down
- Manual brake release
- Maintenance free battery

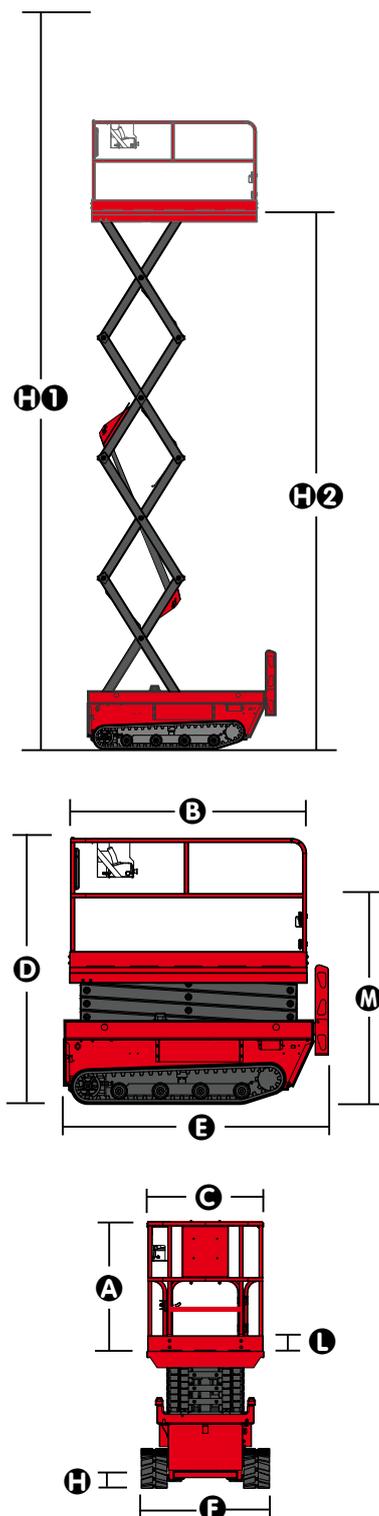
### **Options Features**

- Handheld fault diagnostic device
- Overload sensor

# XE-CT/OR SERIES

The XE-CT series of crawler type scissor lift adopts rubber tracked chassis; the imitation tank structure design; allows aerial work platform to work on the soft ground, breaking the limitation that the aerial work platform must be constructed on the hard ground. The seamless track of the Mantall XE-CT series lift will not cause damage to the ground or leave traces when turning at 0 degrees. The rubber crawler walking system has characteristic of low noise, low vibration and comfortable ride, especially suitable for high-speed transfer occasions, achieving full-surface passing performance.

MODEL	XE60CT OR	XE80CT OR
Working height max <b>H1</b>	6.8 m	8 m
Platform height max <b>H2</b>	4.8 m	6 m
Max. Outreach	0.9 m	
Lifting capacity	230 kg	
Lift capacity on the extension	115 kg	
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	1.84 x 0.9 x 1.1 m	
Platform skirting board height <b>L</b>	0.13 m	
Overall length and width <b>E</b> x <b>F</b>	2.26 x 1.12 m	
Height stowed <b>D</b>	2.12 m	2.22 m
Height - guardrails folded <b>M</b>	1.75 m	1.85 m
Ground clearance <b>H</b>	0.13 m	
Rising time / lowering time	24 / 22 s	32 / 30 s
Drive speed - stowed	1.7 km/h	
Drive speed - raised	0.7 km/h	
Gradeability	40%	
Tilt sensor - front to back	3°	
Tilt sensor - side to side	2°	
Outrigger level ability - front to back	4.5°	
Outrigger level ability - side to side	10°	
Drive model	Electric	
Hydraulic tank capacity	10 L	
Crawler size	Y200 x 72 -49 Section	
Max. platform occupancy	2 pers	
Power source	24 V / 225 Ah	
Weight	1445 kg	1525 kg



- » Mantall crawler-type electric scissor lift has characteristics of zero emission, no noise, and has powerful climbing function.
- » The carrying capacity could be up to 230Kg, and lifting process is stable, safe and reliable.
- » Strong driving force and fast traction speed.
- » With on-board diagnostic system, intelligent fault alarm system and other functions.

# XD SERIES

## SELF-PROPELLED ROUGH TERRAIN SCISSOR LIFT

# Mantall®



### Standard Features

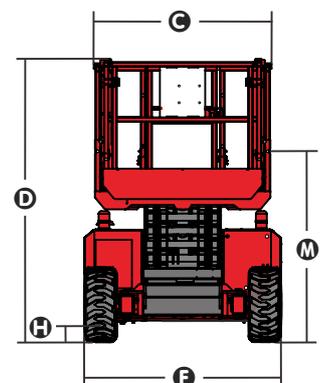
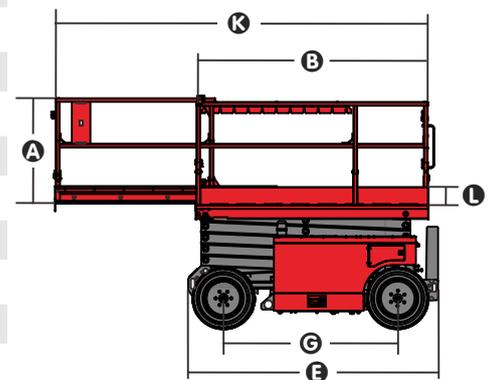
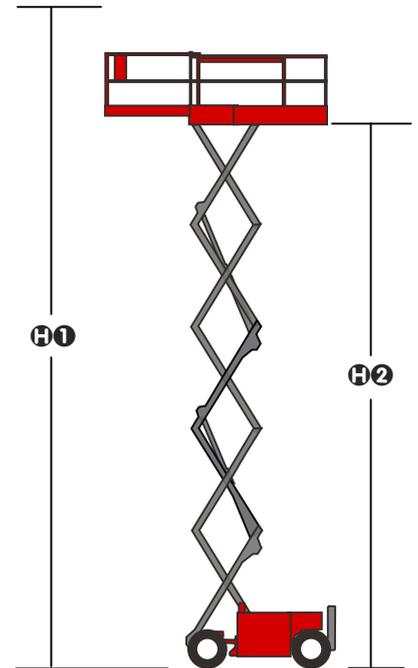
- Foldable guardrail
- Diagnosis system
- AC power to platform
- 4 wheel drive
- Tilt level sensor with an audible alarm
- Lowering alarm
- Horn
- Hour meter
- Emergency pump
- Proportional controls
- Solid rough tire
- Safety brackets
- Dual flashing beacon

### Options Features

- Automatic leveling hydraulic outriggers
- Air line to platform
- Motor cold starting components
- Overload sensor
- Moveable alarm components
- Non-mark rough tire

# XD SERIES

MODEL	XD100RT	XD120RT	XD140RT
Working height max <b>H1</b>	10 m	12 m	14 m
Platform height max <b>H2</b>	8 m	10 m	12 m
Length - Platform extension		1.5 m	
Lifting capacity	567 kg	454 kg	345 kg
Lift capacity on the extension		136 kg	
Dimension of the platform <b>BxCxA</b>		2.5 x 1.6 x 1.15 m	
Platform length - extended <b>K</b>		4 m	
Platform skirting board height <b>L</b>		0.15 m	
Overall length and width <b>ExF</b>		2.67 x 1.76 m	
Overall length with outriggers		3.18 m	
Height stowed <b>D</b>	2.4 m	2.52 m	2.65 m
Height - guardrails folded <b>M</b>	1.7 m	1.83 m	1.98 m
Wheelbase <b>G</b>		1.89 m	
Ground clearance <b>H</b>		0.17 m	
Turning radius - inside		1.58 m	
Turning radius - outside		3.89 m	
Rising time / lowering time	40/35 s	45/37 s	50/42 s
Drive speed - stowed		4.0 km/h	
Drive speed - raised		0.8 km/h	
Gradeability		40%	
Tilt sensor - front to back		3°	
Tilt sensor - side to side		2°	
Outrigger level ability - front to back		9°	
Outrigger level ability - side to side		13°	
Control mode		Control proporcional	
Drive model		4-wheel drive	
Hydraulic tank capacity		68 L	
Fuel tank capacity		57 L	
Max. platform occupancy - indoor/outdoor	4/4 pers	4/2 pers	3/2 pers
Solid tyres		675 x 280 mm	
Power source		Kubota / Yanmar	
Weight	3660 kg	3930 kg	4220 kg
Weight - with outriggers	4120 kg	4390 kg	4680 kg



- » The metric system height is 2 meters higher than platform height, the imperial height is 6 feet than platform height
- » CE/AU market, XD can be used in indoor and outdoor, to accommodate two person
- » Climbing ability is suitable for driving on the slope, the slope classification reference operation manual
- » Weight according to the options and standards vary from country to country

# **XDW SERIES**

## **SELF-PROPELLED ROUGH TERRAIN SCISSOR LIFT**

# **Mantall**®

### **Standard Features**

- Foldable guardrail
- Diagnosis system
- AC power to platform
- 4 wheel drive
- Tilt level sensor with an audible alarm
- Lowering alarm
- Horn
- Hour meter
- Emergency pump
- Proportional controls
- Solid rough tire
- Safety brackets
- Dual flashing beacon

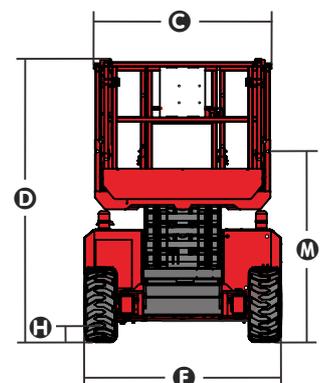
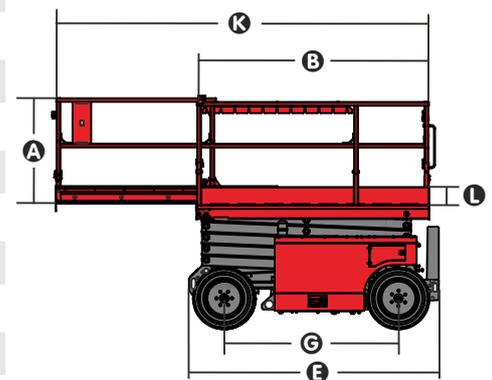
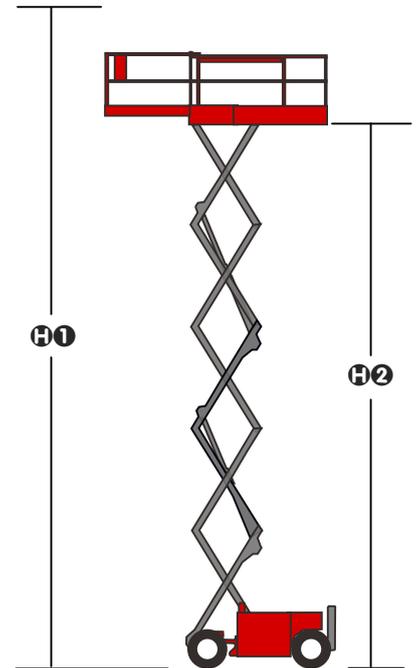
### **Options Features**

- Automatic leveling hydraulic outriggers (XDW120RT/XDW150RT)
- Air line to platform
- DC power supply
- Motor cold starting components
- Overload sensor
- Moveable alarm components
- Non-mark rough tire



# XDW SERIES

MODEL	XDW120RT	XDW150RT	XDW180RT
Working height max <b>H1</b>	12 m	15 m	18 m
Platform height max <b>H2</b>	10 m	13 m	16 m
Length - Platform extension	1.2 m		
Lift capacity with single extension	1000 kg	680 kg	
Lift capacity with double extension	900 kg	570 kg	
Lift capacity on the extension	230 kg		
Dimension of the platform	3.9 x 1.9 x 1.15 m		
Platform length - single extended <b>K</b>	5.1 m		
Platform length - double extended	6.3 m		
Platform skirting board height <b>L</b>	0.15 m		
Overall length - single extended <b>B</b>	4.47 m	/	
Overall length - double extended <b>B</b>	3.98 m	/	
Overall length with outriggers <b>B</b>	4.88 m		
Overall width <b>F</b>	2.3 m		
Height stowed <b>D</b>	2.77 m	2.99 m	3.2 m
Height - guardrails folded <b>M</b>	2 m	2.19 m	2.47 m
Wheelbase <b>G</b>	2.97 m		
Ground clearance <b>H</b>	0.32 m		
Turning radius - inside	2.72 m		
Turning radius - outside	5.89 m		
Rising time / lowering time	60 / 45 s	68 / 50 s	75 / 55 s
Drive speed - stowed	5 km/h		
Drive speed - raised	1 km/h		
Drive height	All height	9.6 m	
Gradeability	45%	40%	
Outrigger level ability - front to back	7°		
Outrigger level ability - side to side	11°		
Control mode	Control proporcional		
Drive model	4-wheel drive		
Hydraulic tank capacity	115 L		
Fuel tank capacity	115 L		
Max. platform occupancy	3 pers		
Tire size	33 x 12 - 20 in		
Power source	Yanmar 4TNV88		
Weight	6282 kg	6950 kg	8810 kg



# **XE-RT SERIES**

## **SELF-PROPELLED ROUGH TERRAIN SCISSOR LIFT**

# **Mantall®**



### **Standard Features**

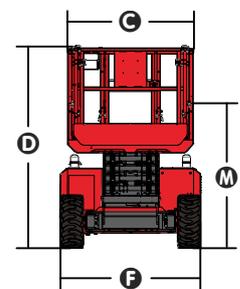
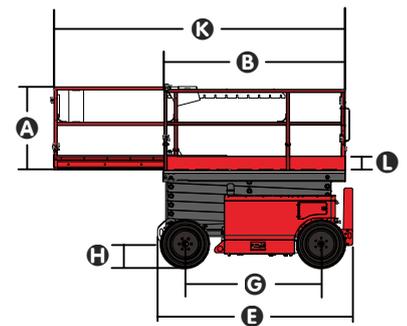
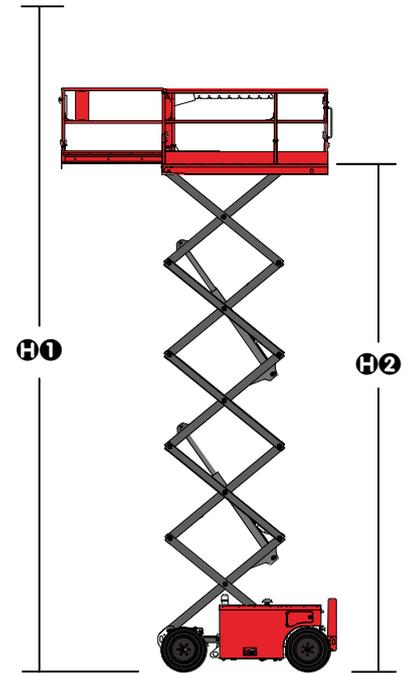
- Foldable guardrail
- Diagnosis system
- AC power to platform
- 2 wheel drive
- Tilt level sensor with an audible alarm
- Lowering alarm
- Horn
- Hour meter
- Emergency pump
- Proportional controls
- Solid rough tire
- Explosion-proof of the tubing
- Safety Brackets
- Dual flashing beacon

### **Options Features**

- Automatic leveling hydraulic outriggers
- Air line to platform
- Lithium battery
- Non-mark rough tire
- Overload sensor

# XE-RT SERIES

MODEL	XE100RT	XE120RT	XE140RT
Working height max <b>H1</b>	10 m	12 m	14 m
Platform height max <b>H2</b>	8 m	10 m	12 m
Length - Platform extension		1.5 m	
Lifting capacity	567 kg	454 kg	345 kg
Lift capacity on the extension		136 kg	
Dimension of the platform <b>B</b> x <b>C</b> x <b>A</b>	2.5 x 1.6 x 1.15 m		
Platform length - extended <b>K</b>	4 m		
Platform skirting board height <b>L</b>	0.15 m		
Overall length and width <b>E</b> x <b>F</b>	2.67 x 1.76 m		
Overall length with outriggers	3.18 m		
Height stowed <b>D</b>	2.4 m	2.52 m	2.65 m
Height - guardrails folded <b>M</b>	1.7 m	1.83 m	1.98 m
Wheelbase <b>G</b>	1.89 m		
Ground clearance <b>H</b>	0.17 m		
Turning radius - inside	1.58 m		
Turning radius - outside	3.89 m		
Rising time / lowering time	40 / 35 s	45 / 37 s	50 / 42 s
Drive speed - stowed	4.0 km/h		
Drive speed - raised	0.8 km/h		
Gradeability	35%	30%	
Tilt sensor - front to back	3°		
Tilt sensor - side to side	2°		
Outrigger level ability - front to back	9°		
Outrigger level ability - side to side	13°		
Control mode	Control proporcional		
Drive model	2-wheel drive		
Hydraulic tank capacity	68 L		
Tire size	675 x 280 mm		
Max. platform occupancy - indoor/outdoor	4/4 pers	4/2 pers	3/2 pers
Power source	48V 220AH		
Weight	3710 kg	3980 kg	4270 kg
Weight - with outriggers	4170 kg	4440 kg	4730 kg



» Electric rough terrain scissor lift has zero emission and no noise characteristics .It also has strong climbing function .

» Super-large bearing capacity of 560Kg, stable lifting, safe and reliable.

» Four-wheel drive has strong power and fast walking speed.

» With on-board diagnosis system, intelligent fault alarm system and other functions.

# AMP SERIES

## PORTABLE TYPE AERIAL WORK PLATFORM

# Mantall®



### Standard Features

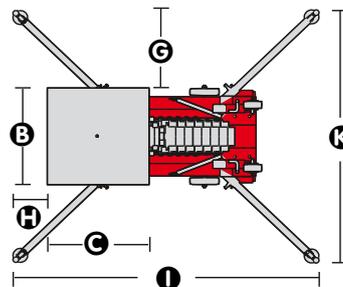
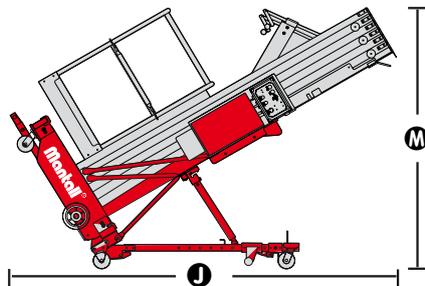
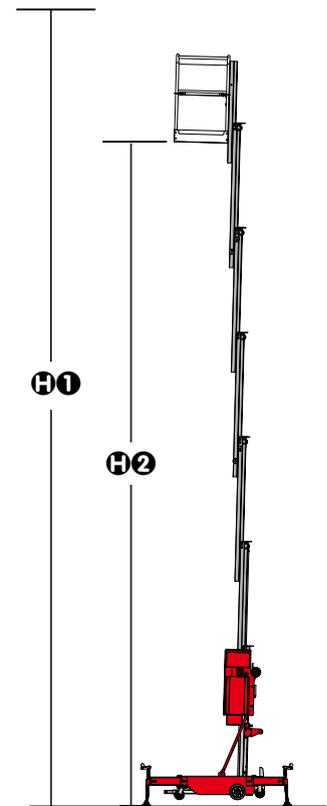
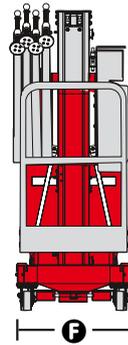
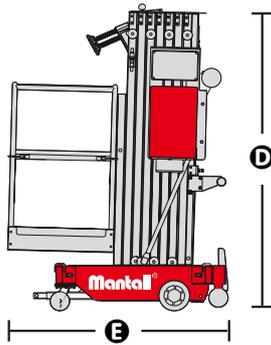
- Aluminum Platform Basket
- Polyurethane Non-mark tires
- Leverage Ro-Ro device
- Lifting ears
- Two controls: Platform Control and Ground Control
- Lower Beeper warning
- Tilt Device (only for AMP40)
- Emergency Lower Down
- Outrigger Storage Frame
- Maintenance-free battery

### Options Features

- Door Type Standard/narrow/wide Platform
- Fiber Glass Platform
- Goods collection platform
- Narrow/Rough Ground Chassis
- DC Power
- Tool Box
- Platform Positioning Laser light
- Fluorescent Tubes Box
- Working Flashing Beacon
- Top Limit Protection Auto-stop device
- Equipment Protection cover

# AMP SERIES

MODEL	AMP20	AMP26	AMP32	AMP40
Working height max <b>H1</b>	8.0 m	10.0 m	12.0 m	14.0 m
Platform height max <b>H2</b>	6.0 m	8.0 m	10.0 m	12.0 m
Lift capacity	159 kg		120 kg	
Basket Size <b>BxG</b>	0.69 x 0.68 m			
Stowed Size <b>ExFxD</b>	1.27x0.74x1.97m	1.36x0.78x1.97m	1.42x0.78x1.97m	1.46x0.78x2.76m
Height, tilted back <b>M</b>	/	/	/	1.98m
Length, tilted back <b>J</b>	/	/	/	2.87m
Outrigger footprint <b>IxK</b>	1.77x1.49m		1.99x1.72m	2.27x1.98m
Wall access front/side <b>HxG</b>	0.18/0.45m	0.18/0.45m	0.23/0.55m	0.42/0.65m
Power source (AC/DC)	220V/110V/12V	220V/110V/12V	220V/110V/12V	220V/110V/12V
Weight (AC/DC)	355 / 405 kg	400 / 440 kg	427 / 477 kg	548 / 595 kg



# ALP SERIES

## SUPER MATERIAL LIFT

# Mantall®



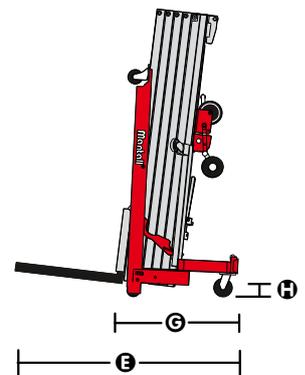
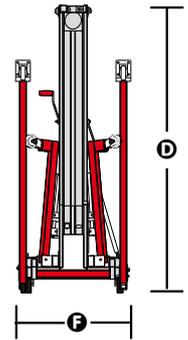
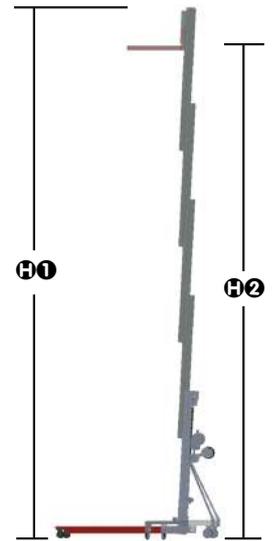
### Standard Features

- Incorporates a silent ratchet system
- Transportation Wheels
- Roller wheels with brake
- Standard Forks
- Telescopic mast design
- Solid Steel Base

### Options Features

- Adjustable Forks
- Flat Forks
- Boom
- Pipe Cross Forks
- Load Platform
- Anti-fall function

Model	ALP-10	ALP-15	ALP-20	ALP-25
<b>Working height</b>				
Standard forks-up <b>H1</b>	3.48m	5.00m	6.45m	7.95m
Standard forks-down <b>H2</b>	2.96m	4.48m	5.93m	7.43m
Adjustable forks-up	3.48m	5.00m	6.45m	7.95m
Adjustable forks-down	2.96m	4.48m	5.93m	7.43m
Flat forks	2.96m	4.48m	/	/
Height-stowed <b>D</b>	2.02m	2.03m	2.05m	2.07m
Length-stowed <b>E</b>	0.75m	0.75m	0.77m	0.83m
Length-operating <b>K</b>	2.2m			
Width-stowed <b>F</b>	0.79m			
- stabilizers lowered	1.9m			
Width-straddle base				
Ground clearance-center <b>H</b>	0.05m			
Load height minimum	0.15m			
<b>Productivity</b>				
Load capacity				
46cm load center	454kg	363kg	363kg	295kg
61cm load center	454kg	363kg	272kg	204kg
1.07m load center	181kg	227kg	159kg	113kg
Power	Single speed winch			
Weight Standard	163kg	199kg	203kg	236kg



# CMP-CT SERIES

## DOUBLE MASTS AERIAL WORK PLATFORM

# Mantall®



### Standard Features

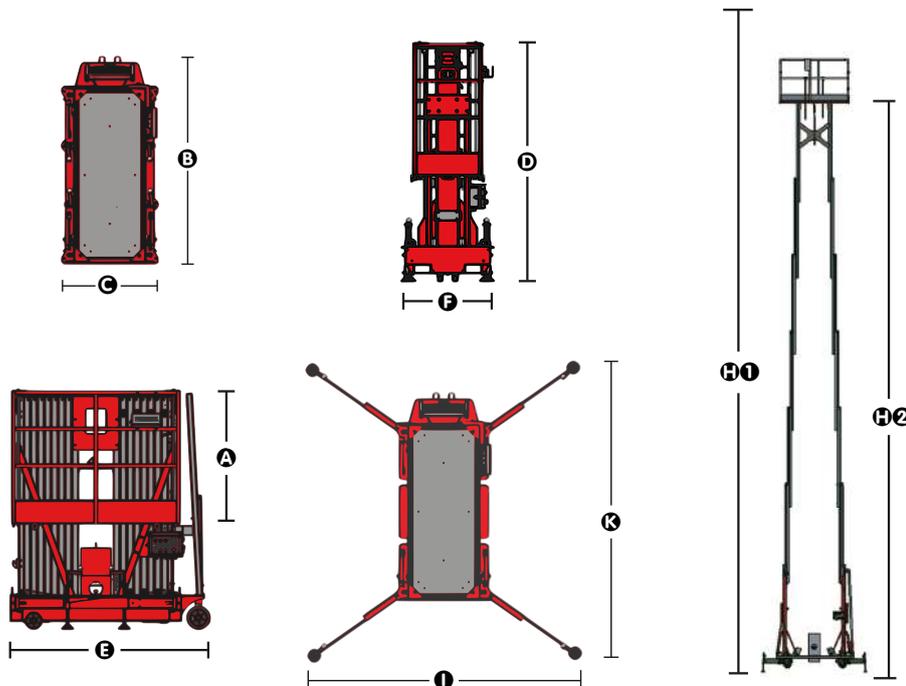
- Polyurethane Non-mark tires
- Forklift Pockets
- Foldable Inclined Ladder
- Two controls: Platform Control and Ground Control
- Lower Beeper warning
- Emergency Lower Down
- Maintenance-free battery

### Options Features

- Narrow/Rough Ground Chassis
- DC Power
- Tool Box
- Platform Positioning Laser light
- Fluorescent Tubes Box
- Working Flashing Beacon
- Top Limit Protection Auto-stop device
- Auxiliary drive wheel
- Equipment Protection cover

# CMP-CT SERIES

MODEL	CMP12CT	CMP14CT	CMP16CT
Working height max <b>H1</b>	12 m	14 m	16 m
Platform height max <b>H2</b>	10 m	12 m	14 m
Lift capacity	250 kg	200 kg	150 kg
Platform Size <b>B</b> x <b>C</b> x <b>A</b>	1.44 x 0.6 x 1.1 m		
Overall length <b>E</b>	1.74 m	1.81 m	1.81 m
Width <b>F</b>	0.81 m		
Stowed height <b>D</b>	1.86 m	2.08 m	2.36 m
Outrigger expansion <b>I</b> x <b>K</b>	2.45 x 2.34 m		
Minimum ground clearance	0.07 m		
Power unit (AC)	220V / 1.5kW		
Power unit (DC)	12VDC / 1.6kW		
Battery	12V/120Ah		
Charger	12V/15A		
Caster (front wheels)	8 in		
Caster (rear wheels)	6 in		
Weight (AC/DC)	760 / 830 kg	844 / 880 kg	909 / 940 kg



# CMP-S SERIES

## DOUBLE MASTS AERIAL WORK PLATFORM

# Mantall®



### Standard Features

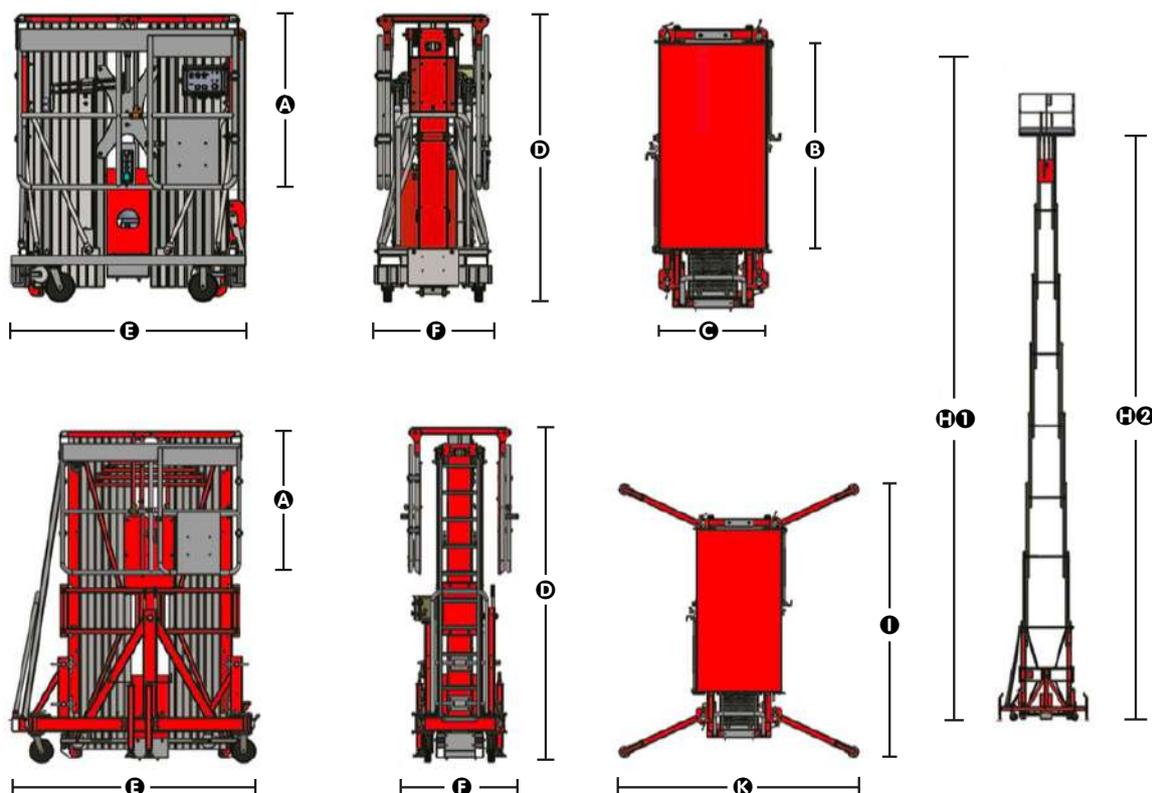
- Aluminum platform basket
- Polyurethane non-mark tires
- Forklift pockets
- Foldable inclined ladder
- Two controls: platform control and ground control
- Lower beeper warning
- Rotation platform (CMP18 only)
- Emergency lower down
- Outrigger storage frame
- Maintenance-free battery

### Options Features

- Door type wide platform
- Narrow/Rough ground chassis
- Wide chassis
- DC power
- Tool box
- Platform positioning laser light
- Fluorescent tubes box
- Working flashing beacon
- Top limit protection auto-stop device
- Auxiliary drive wheel
- Equipment protection cover

# CMP-S SERIES

MODEL	CMP10-S	CMP12-S	CMP14-S	CMP18-RB
Working height max <b>H1</b>	10 m	12 m	14 m	18 m
Platform height max <b>H2</b>	8 m	10 m	12 m	16 m
Lift capacity	272 kg	272 kg	200 kg	150 kg
Platform Size <b>B</b> x <b>C</b> x <b>A</b>	1.37 x 0.7 x 1.1 m		1.5 x 0.7 x 1.1 m	1.49 x 0.78 x 1.1 m
Overall length <b>E</b>	1.48 m		1.6 m	2 m
Width <b>F</b>		0.8 m		0.85 m
Stowed height <b>D</b>		1.98 m		2.77 m
Outrigger expansion <b>I</b> x <b>K</b>	1.9 x 2.1 m		2.5 x 2.1 m	2.98 x 2.81 m
Minimum ground clearance		0.04 m		0.02 m
Power unit (AC)		220V / 1.5kW		
Power unit (DC)		12VDC / 1.6kW		
Battery		12V/120Ah		
Charger		12V/15A		
Caster (front wheels)		8 in		8 in
Caster (rear wheels)		8 in		6 in
Stowed size after rotation	/	/	/	2.7 x 0.85 x 1.98 m
Weight	760 kg	802 kg	1100 kg	1540(AC)/1560(DC) kg



# IMP SERIES

## SELF-PROPELLED AERIAL WORK PLATFORM

# Mantall®



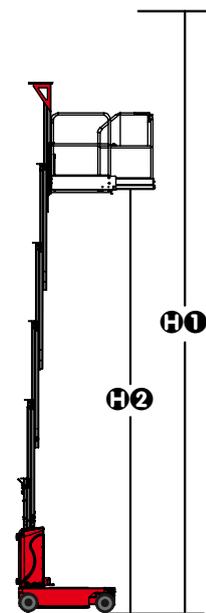
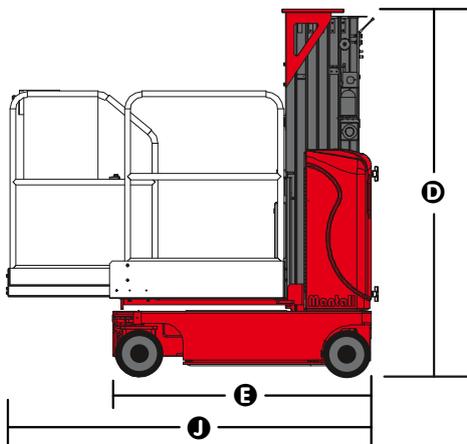
### Standard Features

- The working height can reach up to 8m
- The lift capacity can reach to 160kg
- Standard platform with median sliding rod
- Auxiliary platform lowering system
- The platform entrance height for a minimum of 0.38 meters
- Ground emergency lowering valve
- Proportional raising and Driving control
- Diagnosis system
- AC power to platform
- Adjustable work tray
- Lowering and tilting alarm
- Turn inter-radius is 0
- Double wheel brake
- Hydraulic brake release
- Pothole guards
- The rear shield mounted with hinge, Conveniently to close to all major electrical and hydraulic components
- Transportation fixing hole
- Wide type forklift handling notch
- Non-mark solid tire

### Options Features

- Door type standard/narrow/wide platform
- Extendable platform
- Fiber glass platform
- Goods collection platform
- Motion alarm
- Tool box
- Platform positioning laser lights
- Fluorescent tubes box
- Working flashing beacon
- Top limit protection auto-stop device
- Equipment protection cover

MODEL	IMP55	IMP65	IMP80
Working height max <b>H1</b>	5.5 m	6.5 m	8 m
Platform height max <b>H2</b>	3.5 m	4.5 m	6 m
Lift capacity	230 kg		160 kg
Lift capacity on extension	115 kg		
Platform Size	0.9 x 0.75 m		
Platform length - extended	1.5 x 0.75 m		
Stowed Size <b>E x F x D</b>	1.4 x 0.8 x 1.6 m		1.4 x 0.8 x 2 m
Overall length - extension <b>J</b>	1.9 m		
Ground clearance	0.06 m		
Turning radius - Inside	0		
Turning radius - Outside	1.42 m		
Raising / Lowering time	20 / 18 s		24 / 21 s
Driving speed - stowed	4.0 km/h		
Driving speed - raised	0.8 km/h		
Gradeability	30%		
Control	Electrical hydraulic control		
Hydraulic tank capacity	8.5 L		
Tire (Non-mark)	250 x 80 x 200 mm		
Power source	DC 24V/225Ah		
Weight	716 kg	993 kg	1110 kg



# IMP80J/100J

## SELF-PROPELLED AERIAL WORK PLATFORM

# Mantall®



### Standard Features

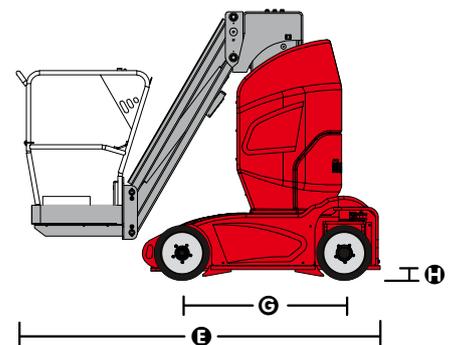
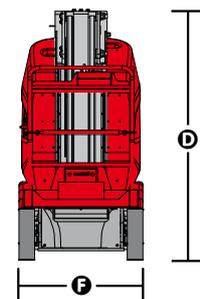
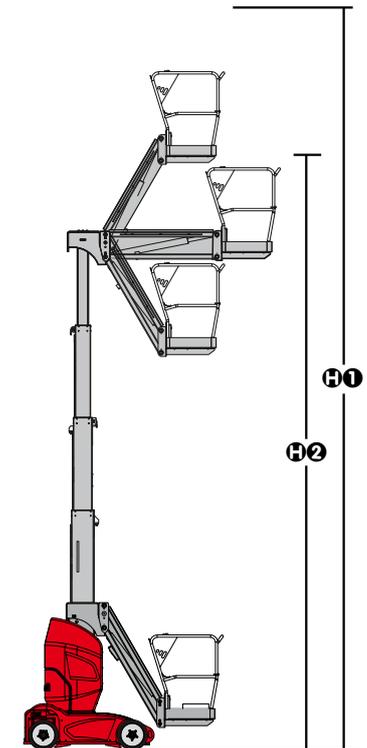
- Lifting capacity 200kg
- Standard Platform with median sliding rod
- Auxiliary Platform lowering System
- Ground Emergency Lowering Valve
- Proportional Raising and Driving Control
- Diagnosis system
- AC wiring to platform
- Lowering and tilt alarm
- Turn Inter-radius is 0
- Double wheel brake
- Hydraulic brake release
- Fixed Pothole guards
- The rear shield mounted with hinge, Conveniently to close to all major electric and hydraulic components.
- Transportation fixed hole
- Wide forklift hole
- Solid Non-marking tires

### Options Features

- Fiber glass platform
- Goods collection platform
- Motion alarm
- Tool Box
- Platform Positioning Laser light
- Fluorescent Tubes Box
- Working Flashing Beacon
- Top Limit Protection Auto-stop device
- Maintenance-free battery
- Equipment Protection cover
- Can not be drive when charging

# IMP80J/100J

Model	IMP80J	IMP100J
Max. Working height <b>H1</b>	8 m	10 m
Max. Platform height <b>H2</b>	6 m	8 m
Lift capacity	200 kg	
Max. Outreach	3.15 m	
Platform size (L x W x H)	0.91 x 0.85 x 1.14 m	
Stowed size <b>E x F x D</b>	2.76 x 0.99 x 1.99 m	
Wheelbase <b>G</b>	1.2 m	
Ground clearance <b>H</b>	0.075 m	
Ground clearance - deployed pothole	0.025 m	
Min. Turning radius - inside	0 m	
Min. Turning radius - outside	1.82 m	
Drive speed, stowed	4.5km/h	
Drive speed, raised	0.7km/h	0.5km/h
Jib Swing	-60° / +60°	
Gradeability	23%	
Max. Vertical tilt	2.5°	
Tire Size	406 x 125 mm	
Power source	DC 24V/240Ah	
Weight	2800 kg	2880 kg



IMP Series Self-propelled Single Mast Aerial Work Platform has compact design, light weight, quickly up and down and self-propelled, can greatly improve its work efficiency. With unique 'Zero inside turning radius', it is flexible and used in narrow space. Mantall IMP100J is full with modernistic feeling, using the streamlined design and the appearance of lines are strong. It is suitable for indoor narrow space, self-weight is light and stowed size is small (2.69m length\*0.99m width\*1.99m height). It has a working height of 10m and 3.2m working radius.

# IMP120J

## SELF-PROPELLED AERIAL WORK PLATFORM

# Mantall®



### Standard Features

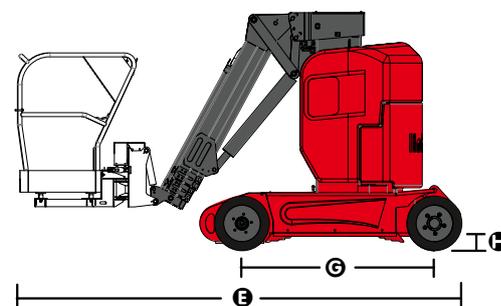
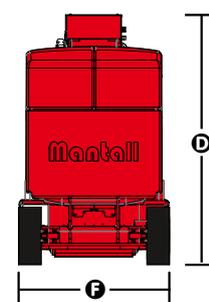
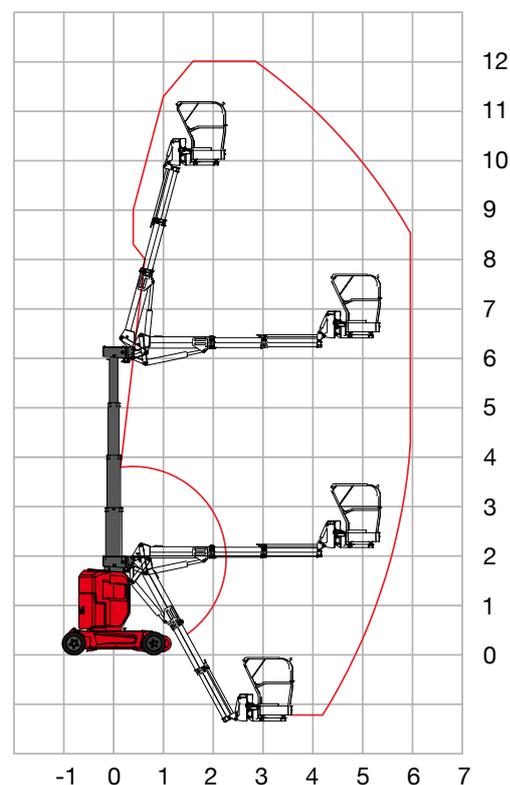
- 345 degree discontinuous rotation
- Jib swing:-60 degree/+75 degree
- Platform swing:left 45 degree/right 45 degree
- Non-marking rubber tires (size 457\*178\*308)
- 2.5 degree tilt alarm
- Lifting ears (4 pieces)
- Hour meter
- Proportional control
- Horn
- Fault diagnosis system
- Automatic brake system
- Explosion-proof of the oil tube
- Manual brake release
- Overload sensor
- Platform foot switch
- Emergency lowering down system

### Options Features

- Handheld fault diagnostics
- Air line to the platform
- Platform working light
- AC power to the platform
- Tool Bracket
- All Motion Alarm
- Top limit Protection Auto-stop device
- Maintenance free battery
- Fiberglass platform

# IMP120J

Model	IMP120J
Max. Working height	12 m
Max. Platform height	10 m
Lift Capacity	200 kg
Max. Outreach	6 m
Max. Up and Over height	5.9 m
Platform size ( LxWxH)	1.1 x 0.8 x 1.1 m
Stowed Size $\text{E} \times \text{F} \times \text{D}$	4.03 x 1.2 x 1.99 m
Wheelbase $\text{G}$	1.6 m
Ground clearance $\text{H}$	0.12 m
Ground clearance - deployed potholes	0.74 m
Min. Turning radius-(inside)	0.75 m
Min. Turning radius-(outside)	2.6 m
Driving speed-stowed	6 km/h
Turntable rotation	345°
Jib Swing	-60° / +75°
Platform Swing	left and right 45°
Gradeability	25%
Max. tilt angle	2.5°
Tire Size	457 x 178 x 308
Total weight	4770 kg



» The Mantall IMP120J has a maximum working height of 12 meters and a load capacity of 200KG. IMP120J can be used in multiple dimensions in a narrow space.

» The maximum working radius is 6 meters and can be used under -1 meter working conditions. The maximum span height is 5.9 meters. The inner diameter of the rotation is 0.75 meters: the rotary table can be flexibly rotated by 345 degrees, and the rotation of the platform is  $\pm 45$  degrees.

» The arm swings up and down: -60 degrees / +75, machine body width is only 1.2 meters, which makes the user's working range significantly increased. The IMP120J uses AC motor drive to greatly reduce the maintenance cost of the user. With 30% climbing ability, driving 6 kilometers per hour, mobile transportation is very convenient. With a stable control system, the company can operate multiple actions at the same time, effectively improving user productivity.

» The IMP120J uses an electric automatic leveling system to make the user feel more stable and safe. The MP120J's tilting, overloading and other security protection systems allow users to use the device in a safe situation.

# HT200/215J

## SELF-PROPELLED TELESCOPIC BOOMS

# Mantall®

### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- 360° Turntable rotation
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload sensor
- Engine restart protection
- Automatic engine failure shutdown
- Spin out engine tray

### Options Features

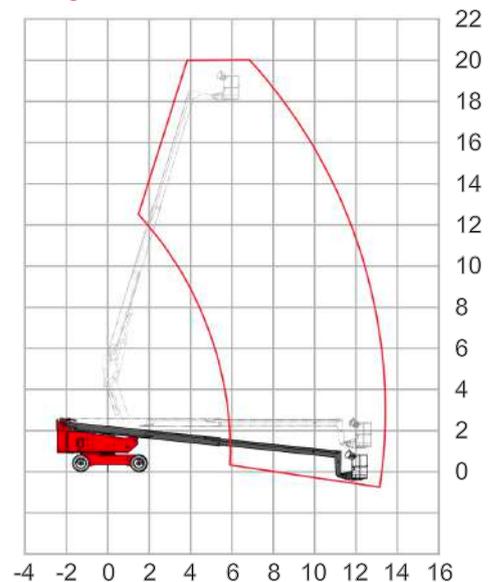
- Platform swing gate
- Platform alternate leverage
- Welder connecting packages
- Welder wire connecting to the platform
- Airline to platform
- Hydraulic oil cooler
- Hydraulic oil for extremely cold areas
- Pipeline for extremely cold area
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights
- Front driving light
- Traction packages
- AC power source
- Preheater
- Cold start components
- AC generator set
- Diesel exhaust gas purification muffler
- Diesel Fireproof Star Silencer
- Air pre filter



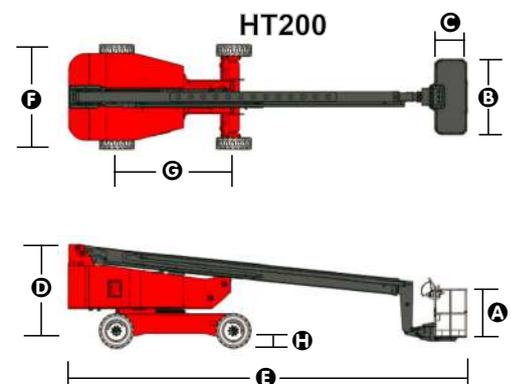
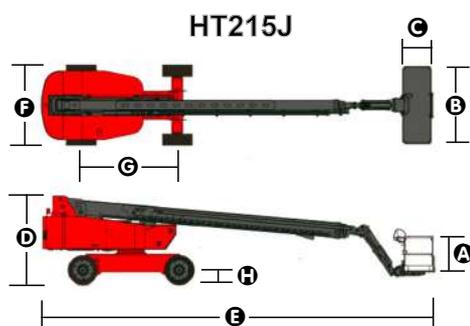
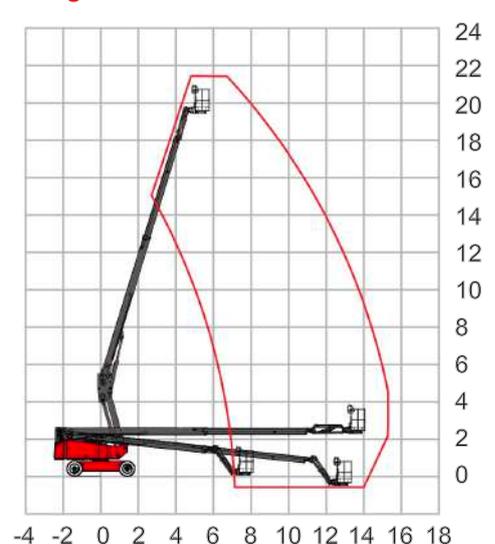
# HT200/215J

MODEL	HT200	HT215J
Max. Working height	20 m	21.5 m
Max. Platform height	18 m	19.5 m
Max. Outreach	13.4 m	14.65 m
Max. Lift capacity	230 kg	
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.1 m	
Height - stowed <b>D</b>	2.5 m	
Length - stowed <b>E</b>	9.5 m	10.6 m
Width <b>F</b>	2.5 m	
Wheelbase <b>G</b>	2.8 m	
Ground clearance <b>H</b>	0.3 m	
Turntable rotation	360°	
Turntable tailswing	1.2 m	
Platform rotation	180°	
Jib Swing	/	130°(+75°/-55°)
Drive speed - stowed	5.1 km/h	
Drive speed - raised	1 km/h	
Gradeability	45%	
Min. Turning radius-(inside)	2.9 m	
Min. Turning radius-(outside)	6.15 m	6.12 m
Drive wheels number	4	
Steering wheel number	2	
Controls	Electro Hydraulic proportional control	
System voltage	DC 12V	
Hydraulic tank capacity	150 L	
Fuel tank capacity	100 L	
Tire size	36 x 14-20 Rubber solid tires	
Power	Cummins engine QSF2.8T3 43kw	
Total weight (4WD)	9375 kg	9510 kg

Range of motion HT200



Range of motion HT215J



# HT270/285J

## SELF-PROPELLED TELESCOPIC BOOMS

# Mantall®



### Options Features

- Platform swing gate
- Platform alternate leverage
- Welder connecting packages
- Welder wire connecting to the platform
- Airline to platform
- Hydraulic oil cooler
- Hydraulic oil for extremely cold areas
- Pipeline for extremely cold area
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights
- Front driving light
- Traction packages
- AC power source
- Preheater
- Cold start components
- AC generator set
- Diesel exhaust gas purification muffler
- Diesel Fireproof Star Silencer
- Air pre filter

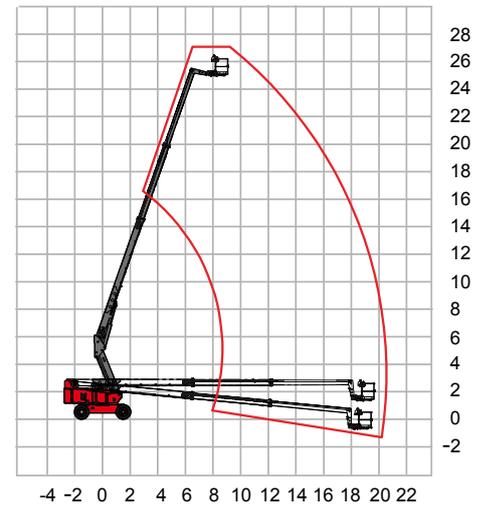
### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- 360° Turntable rotation
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload sensor
- Engine restart protection
- Automatic engine failure shutdown
- Spin out engine tray

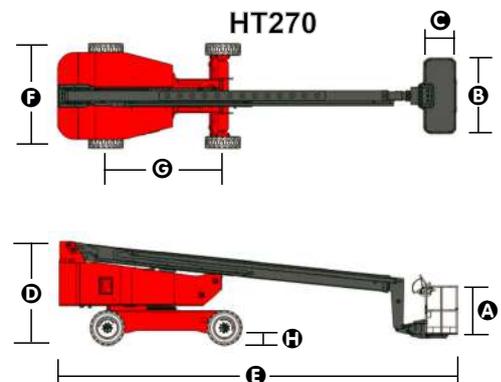
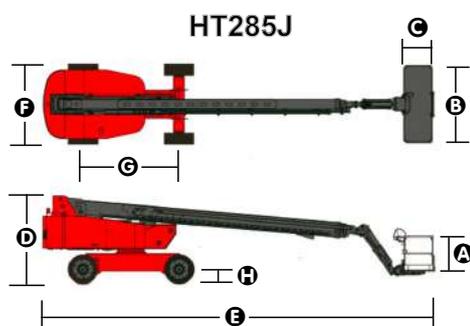
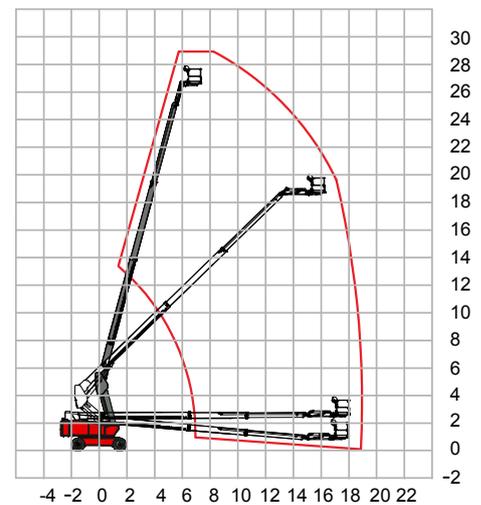
# HT270/285J

MODEL	HT270	HT285J
Max. Working height	27 m	28.5 m
Max. Platform height	25 m	26.5 m
Max. Outreach	20.2 m	21.6 m
Max. Lift capacity	230 kg	
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.1 m	
Height - stowed <b>D</b>	2.8 m	
Length - stowed <b>E</b>	11.168 m	12.05m
Width <b>F</b>	2.3/2.5m	
Wheelbase <b>G</b>	3.0 m	
Ground clearance <b>H</b>	0.4 m	
Turntable rotation	360°	
Turntable tailswing	1.5 m	
Platform rotation	180°	
Jib Swing	/	130°(+75°/-55°)
Drive speed - stowed	5.1 km/h	
Drive speed - raised	1 km/h	
Gradeability	45%	
Min. Turning radius-(inside)	3.6 m	
Min. Turning radius-(outside)	6.88 m	6.88 m
Drive wheels number	4	
Steering wheel number	2	
Controls	Electro Hydraulic proportional control	
System voltage	DC 12V	
Hydraulic tank capacity	180 L	
Fuel tank capacity	130 L	
Tire size	36 x 14-20 Rubber solid tires	
Power	Cummins engine QSF2.8T 54kW	
Total weight(With oscillating axle)	16100 kg	16600 kg
Total weight(Without oscillating axle)	15400 kg	15500 kg

## Range of motion HT270



## Range of motion HT285J



# HT330/350J

## SELF-PROPELLED TELESCOPIC BOOMS

# Mantall®

### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- 360° Turntable rotation
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload sensor

### Options Features

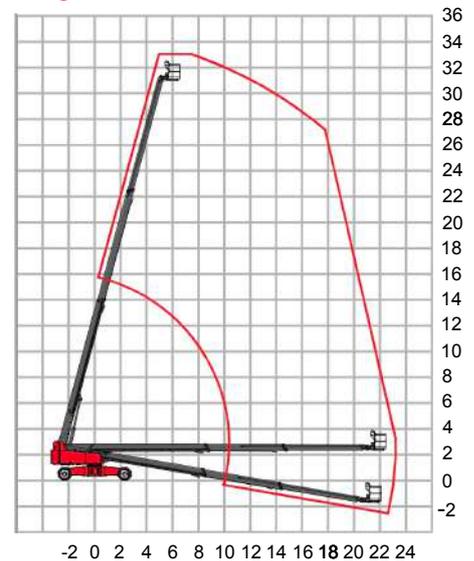
- Platform swing gate
- Platform alternate leverage
- Welder connecting packages
- Welder wire connecting to the platform
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights
- Traction packages
- AC power source
- Oscillating axle



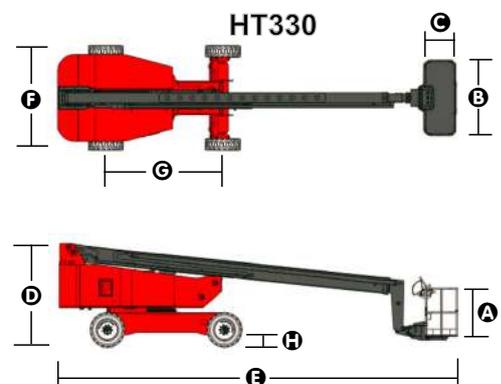
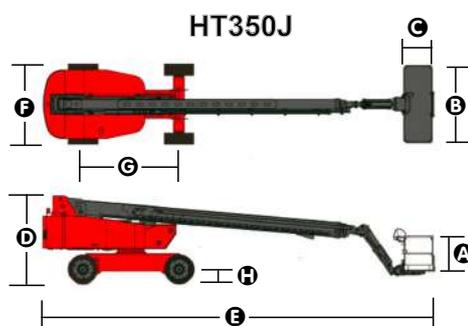
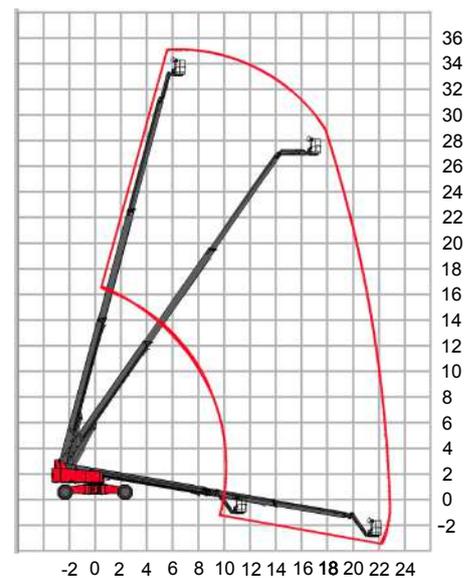
# HT330/350J

MODEL	HT330	HT350J
Max. Working height	33 m	35 m
Max. Platform height	31 m	33 m
Max. Outreach	23 m	23 m
Max. Lift capacity	300 kg	340 kg
Platform size <b>B</b> x <b>C</b> x <b>A</b>	2.44 x 0.91 x 1.1 m	
Height - stowed <b>D</b>	3.05 m	3.11 m
Length - stowed <b>E</b>	14.1 m	15.311 / 13.1 m
Width <b>F</b>	2.49 / 3.95m	
Wheelbase <b>G</b>	4.846 / 4.633m	
Ground clearance <b>H</b>	0.33 m	
Turntable rotation	360°	
Turntable tailswing	1.4 m	
Platform rotation	180°	
Jib Swing	/	130°
Drive speed - stowed	4.2 km/h	
Drive speed - raised	1.1 km/h	
Gradeability	40%	
Min. Turning radius-(inside)	4.08 m	
Min. Turning radius-(outside)	6.89 m	
Drive wheels number	4	
Steering wheel number	4	
Controls	Electro Hydraulic proportional control	
System voltage	DC 12V	
Hydraulic tank capacity	240 L	
Fuel tank capacity	240 L	
Tire size	385/65-24	
Power	Cummins engine QSF2.8T-C72 54kW	
Total weight (4WD)	20500 kg	22100 kg

Range of motion HT330



Range of motion HT350J



# HT390/410J

## SELF-PROPELLED TELESCOPIC BOOMS

# Mantall®

### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- 360° Turntable rotation
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload sensor

### Options Features

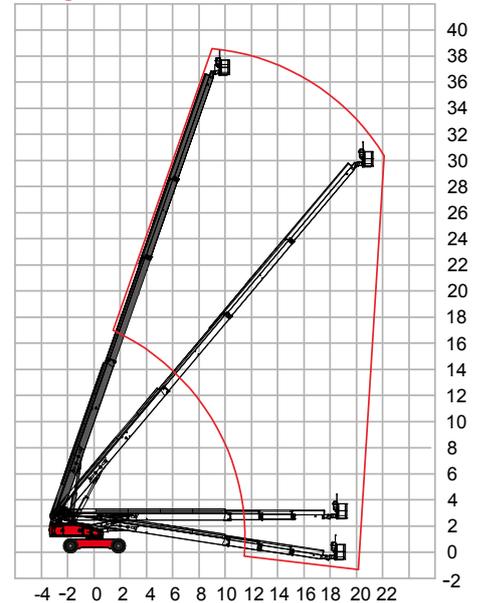
- Platform swing gate
- Platform alternate leverage
- Welder connecting packages
- Welder wire connecting to the platform
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights
- Traction packages
- AC power source
- Oscillating axle



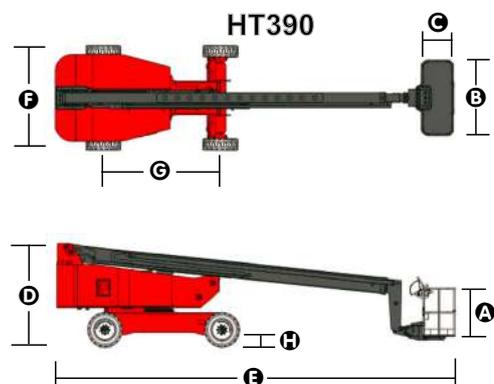
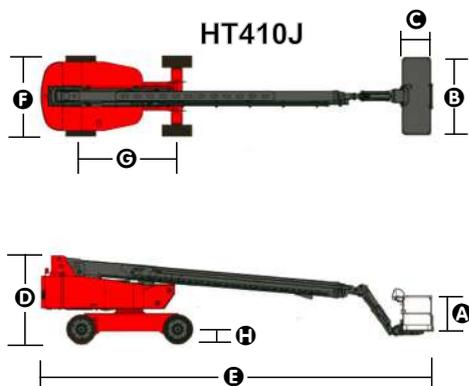
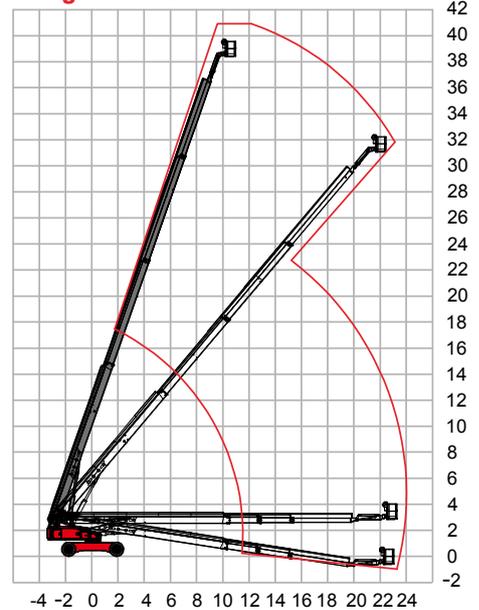
# HT390/410J

MODEL	HT390	HT410J
Max. Working height	38.5 m	41 m
Max. Platform height	36.5 m	39 m
Max. Lift capacity	340 kg	340 kg
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.1 m	
Height - stowed <b>D</b>	3.55 m	3.55 m
Length - stowed <b>E</b>	16.2 m	16.6 m
Width <b>F</b>	2.5m (3.8m)	
Wheelbase <b>G</b>	3.8 m	
Ground clearance <b>H</b>	0.52 m	
Turntable rotation	360°	
Platform rotation	180°	
Jib Swing	/	130° (+75°/55°)
Drive speed - stowed	4.24 km/h	
Drive speed - raised	0.55 km/h	
Gradeability (2WD)	25%	
Gradeability (4WD)	40%	
Drive wheels number	2	4
Steering wheel number	2	4
Controls	Electro Hydraulic proportional control	
System voltage	DC 12V	
Tire size	445/65-24; Rubber Solid Tire	
Power	Cummins engine QSF2.8T-C72 54kW	
Total weight (4WD)	24000 kg	26500 kg

Range of motion HT390



Range of motion HT410J



# HZ140RT/140JRT

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®



### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

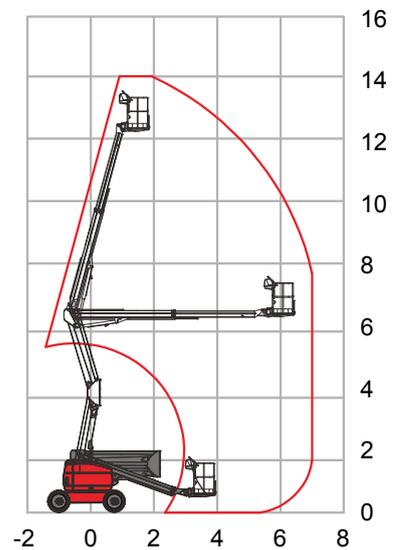
### Options Features

- 2.4m platform
- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights

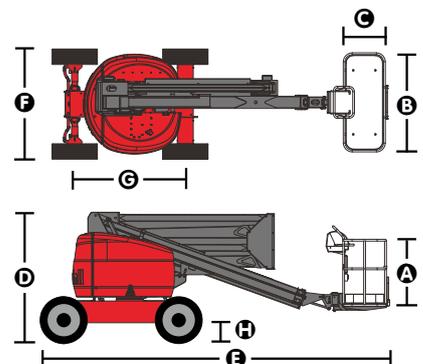
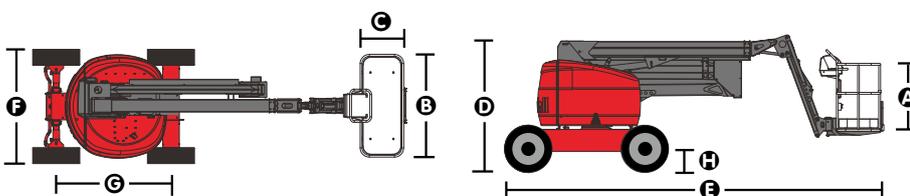
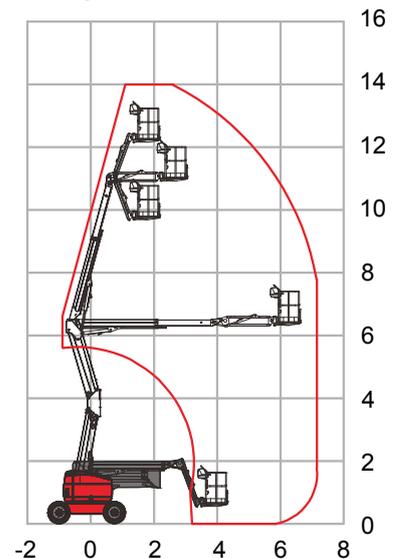
# HZ140RT/140JRT

MODEL	HZ140RT	HZ140JRT
Max. Working height	14 m	
Max. Platform height	12 m	
Max. Outreach	7.01 m	7.08 m
Max. Up and over clearance	6.27 m	6.5 m
Max. Lift capacity	230 kg	
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.17 m	
Height - stowed <b>D</b>	2.3 m	
Length - stowed <b>E</b>	5.63 m	6.58 m
Width <b>F</b>	2.00 m	
Wheelbase <b>G</b>	2.00 m	
Ground clearance <b>H</b>	0.36 m	
Turntable rotation	360° discontinuously	
Turntable tailswing	0	
Platform rotation	0 / 180°	
Jib Swing	0/140°(HZ140JRT only)	
Platform Level	Hydraulic level	
Drive speed - stowed	3.0km/h (7.0km/h 4wd)	
Drive speed - raised	1.0km/h	
Gradeability	30% (45%4WD)	
Max. tilt angle	3°	
Max. lateral force N	400 N	
Max. Wind speed allowed	12.5 m/s	
Min. Turning radius-(inside)	2.30 m	
Min. Turning radius-(outside)	4.0 m	
Drive wheels number	2 / 4 WD	
Steering wheel number	2	
Controls	Electrical proportional control	
System voltage	DC 12V	
Hydraulic tank capacity	70 L	
Fuel tank capacity	65 L	
Tire size	33 x 12 - 20	
Power	Perkins 404D Diesel Engine	
Total weight	5.6 t	6.3 t

Range of motion HZ140RT



Range of motion HZ140JRT



# HZ160RT/160JRT

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®

### Standard Features

- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

### Options Features

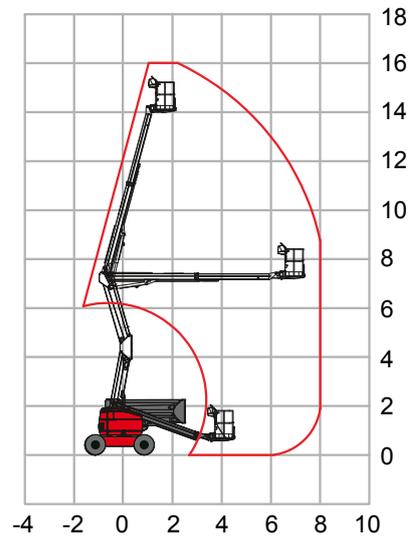
- 2.4m platform
- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights



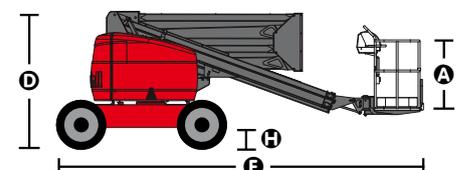
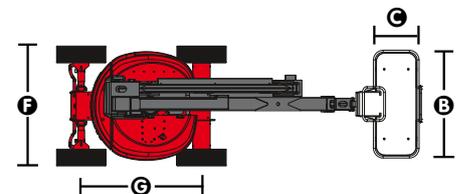
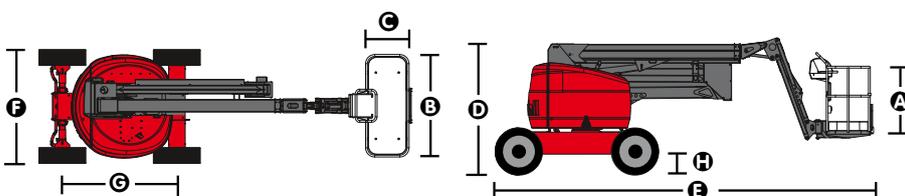
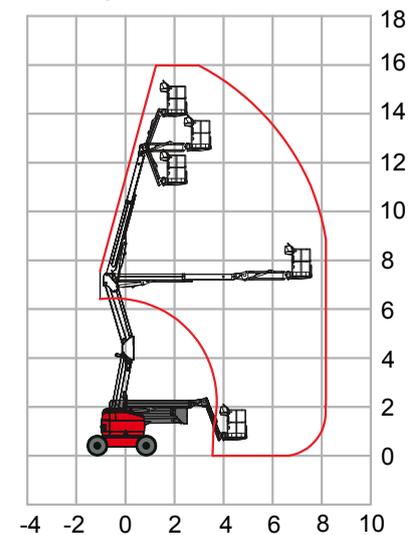
# HZ160RT/160JRT

MODEL	HZ160RT	HZ160JRT
Max. Working height	16 m	
Max. Platform height	14 m	
Max. Outreach	8.19 m	8.4 m
Max. Up and over clearance	7.09 m	7.71 m
Max. Lift capacity	230 kg	
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.17 m	
Height - stowed <b>D</b>	2.3 m	
Length - stowed <b>E</b>	6.14 m	6.87 m
Width <b>F</b>	2.00 m	
Wheelbase <b>G</b>	2.00 m	
Ground clearance <b>H</b>	0.36 m	
Turntable rotation	360° discontinuously	
Turntable tailswing	0	
Platform rotation	0 / 180°	
Jib Swing	0/140°(HZ140JRT only)	
Platform Level	Hydraulic level	
Drive speed - stowed	4.9km/h (7.0km/h 4wd)	
Drive speed - raised	1.0km/h	
Gradeability	30% (45%4WD)	
Max. tilt angle	3°	
Max. lateral force N	400 N	
Max. Wind speed allowed	12.5 m/s	
Min. Turning radius-(inside)	1.7 m	
Min. Turning radius-(outside)	4.0 m	
Drive wheels number	2 / 4 WD	
Steering wheel number	2	
Controls	Electrical proportional control	
System voltage	DC 12V	
Hydraulic tank capacity	70 L	
Fuel tank capacity	65 L	
Tire size	33 x 12 - 20	
Power	Perkins 404D Diesel Engine	
Total weight	6.35 t	6.8 t

Range of motion HZ160RT



Range of motion HZ160JRT



# HZ180JRT/200JRT/260JRT

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®



### Standard Features

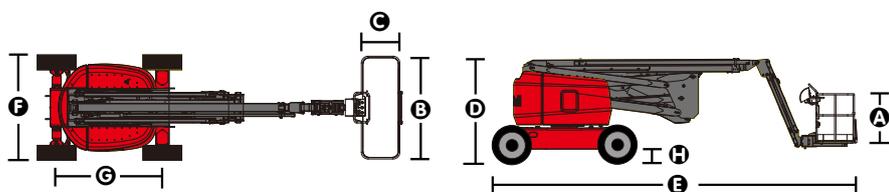
- Self-levelling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

### Options Features

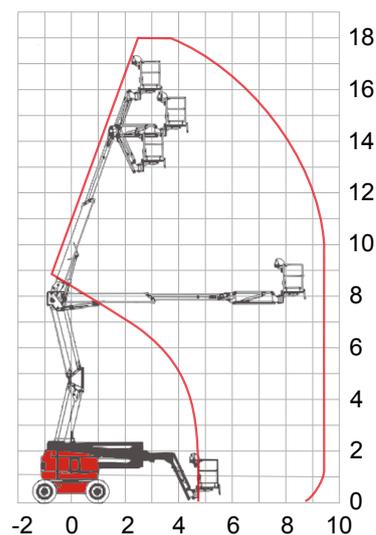
- 2.4m platform
- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights

# HZ180JRT/200JRT/260JRT

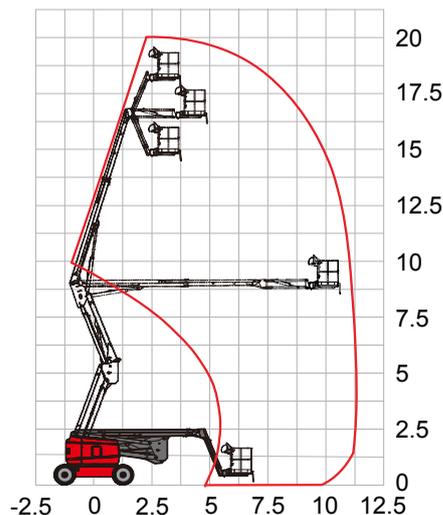
MODEL	HZ180JRT	HZ200JRT	HZ260JRT
Max. Working height	18 m	20 m	26 m
Max. Platform height	16 m	18 m	24 m
Max. Outreach	9.5 m	11.1 m	15.1 m
Max. Up and over clearance	7.6 m	8.9 m	10.3 m
Max. Lift capacity	230 kg		
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.8 x 0.76 x 1.1 m	2.4 x 0.9 x 1.1 m	
Height - stowed <b>D</b>	2.50 m		2.70 m
Length - stowed <b>E</b>	8 m	8.60 m	9m
Width <b>F</b>	2.30 m		2.50 m
Wheelbase <b>G</b>	2.10 m	2.50 m	2.8 m
Ground clearance <b>H</b>	0.36 m	0.35 m	0.33 m
Turntable rotation	360° continuously		
Turntable tailswing	0		
Platform rotation	0 / 180°		
Jib Swing Angle	0 / 135°	0 / 137°	0 / 135°
Platform Levelling	Hydraulic level		
Drive speed - stowed	4.8 km/h		
Drive speed - raised	1.0 km/h		
Gradeability	30% (45%4WD)		30%
Max. tilt angle	3°		
Max. lateral force N	400 N		
Max. Wind speed allowed	12.5 m/s		
Min. Turning radius - inside	1.7 m	2.2 m	2.1 m
Min. Turning radius - outside	4.5 m	5.4 m	4.5 m
Drive wheels number	4 WD	2 / 4 WD	2 WD
Steering wheel number	2		
Controls	Electrical proportional control		
System voltage	DC 12V		
Hydraulic tank capacity	170 L		
Fuel tank capacity	140 L	85 L	140 L
Tire size	355 x 55D - 625		385 x 55D - 24 Solid
Power	Yanmar 4TNV88		CumminsQSFT2.8-C
Total weight	8.42 t	11.985 t	13 t



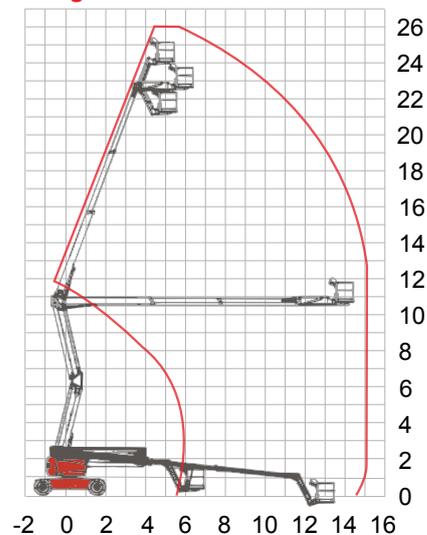
Range of motion HZ180JRT



Range of motion HZ200JRT



Range of motion HZ260JRT



# HZ120/140/140J

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®



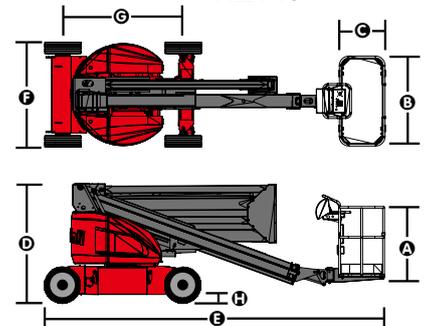
### Standard Features

- Self-leveling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

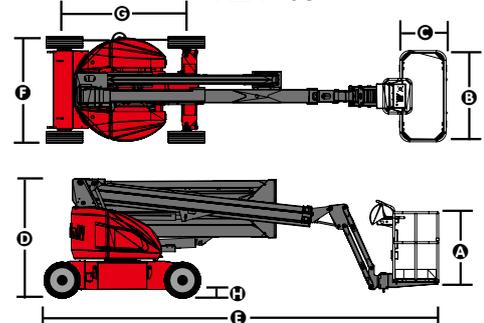
### Options Features

- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights

**HZ140**



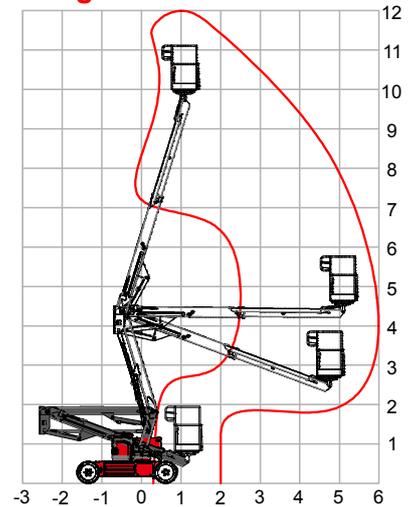
**HZ140J**



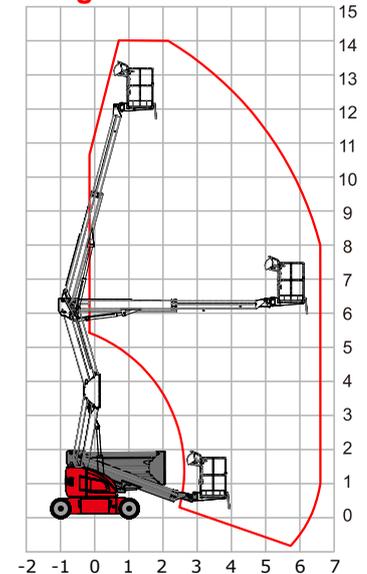
# HZ120/140/140J

MODEL	HZ120	HZ140/HZ140J
Max. Working height	12 m	14 m
Max. Platform height	10 m	12 m
Max. Outreach	6 m	7.04 / 7.259 m
Max. Up and over clearance	4.2 m	6.33 m
Max. Lift capacity	200 kg	230 kg
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.16 x 0.65 x 1.1 m	1.5 x 0.76 x 1.1 m
Height - stowed <b>D</b>	1.96 m	2.0 m
Length - stowed <b>E</b>	4.2 m	5.36 / 6.17 m
Width <b>F</b>	1.5 m	1.75 m
Wheelbase <b>G</b>	1.96 m	2.0 m
Ground clearance <b>H</b>	0.18 m	0.14 m
Turntable rotation	360° discontinuously	
Turntable tailswing	0	
Platform rotation	/	180°
Jib Swing	/	0 / 140° (HZ140J only)
Platform Level	Hydraulic levelling	
Drive speed - stowed	4.0 km/h	3.7 km/h
Drive speed - raised	1.0 km/h	
Gradeability	25%	30%
Max. tilt angle	3°	
Max. lateral force N	400 N	
Max. Wind speed allowed	12.5 m/s	
Min. Turning radius-(inside)	1.9 m	2.3 m
Min. Turning radius-(outside)	4.2 m	3.5 m
Drive wheels number	2	
Steering wheel number	2	
Controls	Electrical hydraulic proportional control	
System voltage	DC 24V	
Hydraulic tank capacity	32 L	35 L
Tire size	22 x 7 x 16 in	600 x 190 mm
Power	DC 48V / 225Ah	DC 48V / 320Ah
Total weight	4.0 t	5.6 / 6.34 t

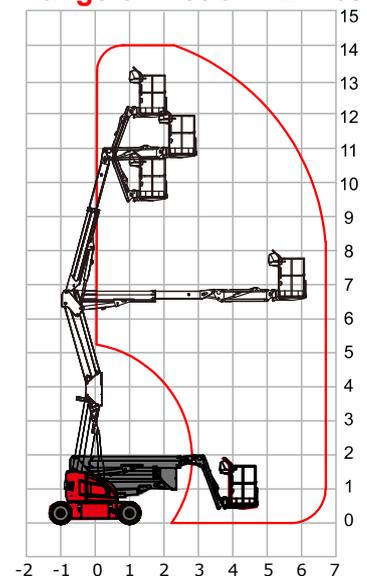
Range of motion HZ120



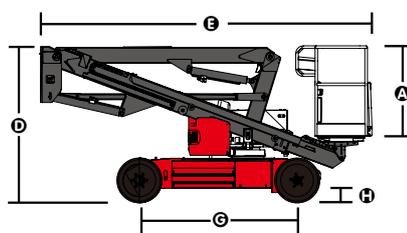
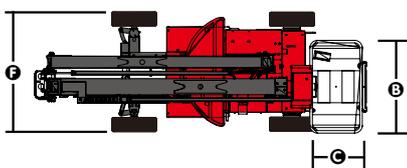
Range of motion HZ140



Range of motion HZ140J



HZ120



# HZ160/160J

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®

### Standard Features

- Self-leveling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

### Options Features

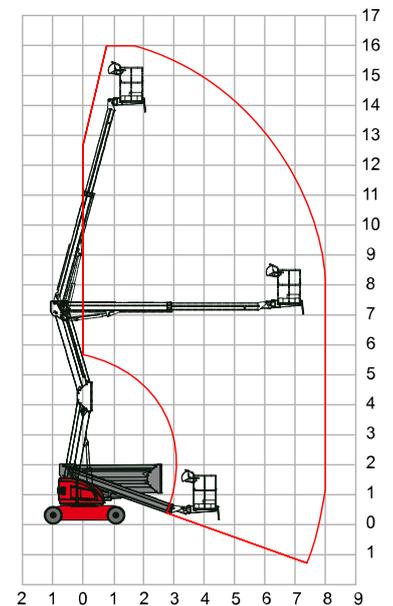
- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights



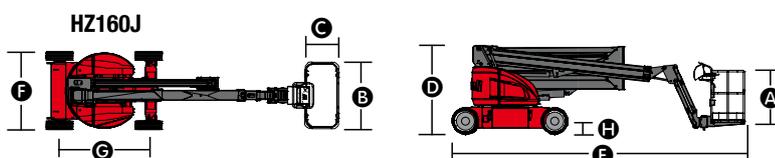
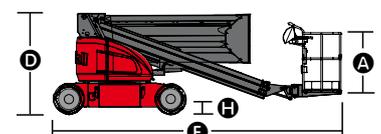
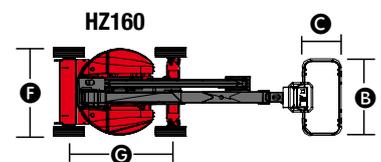
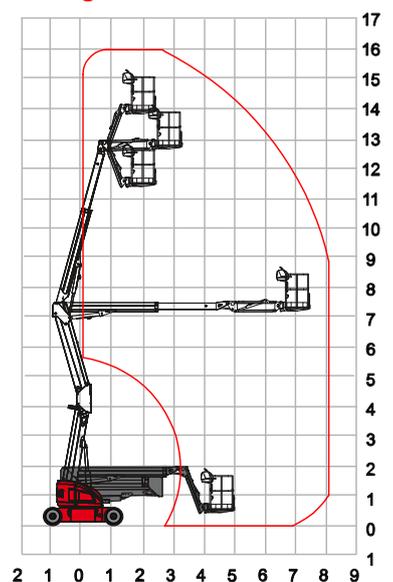
# HZ160/160J

MODEL	HZ160	HZ160J
Max. Working height	16 m	16 m
Max. Platform height	14 m	14 m
Max. Outreach	8.22 m	8.32 m
Max. Up and over clearance	6.92 m	7.47 m
Max. Lift capacity	230 kg	
Platform size <b>B</b> x <b>C</b> x <b>A</b>	1.5 x 0.76 x 1.1 m	
Height - stowed <b>D</b>	2.00 m	
Length - stowed <b>E</b>	5.88 m	6.47 m
Width <b>F</b>	1.75 m	
Wheelbase <b>G</b>	2.00 m	
Ground clearance <b>H</b>	0.14 m	
Turntable rotation	360° discontinuously	
Turntable tailswing	0	
Platform rotation	180°	
Jib Swing	0/140°(HZ160J only)	
Platform Level	Hydraulic level	
Drive speed - stowed	4.8 km/h	
Drive speed - raised	1.0 km/h	
Gradeability	30%	
Max. tilt angle	3°	
Max. lateral force N	400 N	
Max. Wind speed allowed	12.5 m/s	
Min. Turning radius-(inside)	1.1 m	
Min. Turning radius-(outside)	3.50 m	
Drive wheels number	2	
Steering wheel number	2	
Controls	Electrical hydraulic proportional control	
System voltage	DC 24V	
Hydraulic tank capacity	35 L	
Tire size	600 x 190 mm	
Power	DC 48V / 320 Ah	
Total weight	6.49 t	6.64 t

Range of motion HZ160



Range of motion HZ160J



# HZ200J

## SELF-PROPELLED ARTICULATED BOOMS

# Mantall®



### Standard Features

- Self-leveling platform
- Hydraulic rotation platform
- Hall effect fully proportional controls
- Driving confirm
- AC wiring to platform
- Horn
- Hour meter
- Tilt alarm
- Positive traction drive
- Dual Speed motor
- Emergency pump
- CAN intelligent control
- Overload Sensor

### Options Features

- Platform swing gate
- Platform alternate leverage
- Airline to platform
- Hydraulic oil cooler
- Hostile environment packages
- Anti-crash air packages
- Tool tray
- Alarm packages
- Platform work lights

MODEL	HZ200J
Max. Working height	20 m
Max. Platform height	18 m
Max. Outreach	11 m
Max. Up and over clearance	7.71 m
Max. Lift capacity	230 kg
Platform size <b>B</b> x <b>G</b> x <b>A</b>	1.8 x 0.76 x 1.1 m
Height - stowed <b>D</b>	2.5 m
Length - stowed <b>E</b>	7.8 m
Width <b>F</b>	2.5 m
Wheelbase <b>G</b>	2.5 m
Ground clearance <b>H</b>	0.3 m
Turntable rotation	360° discontinuously
Turntable tailswing	0.58 m
Platform rotation	180°
Jib Swing	0 / 135°
Platform Level	Hydraulic level
Drive speed - stowed	4.0 km/h
Drive speed - raised	1.0 km/h
Gradeability	45%
Max. tilt angle	3°
Max. lateral force N	400 N
Max. Wind speed allowed	12.5 m/s
Min. Turning radius-(inside)	2.51 m
Min. Turning radius-(outside)	5.69 m
Drive wheels number	2
Steering wheel number	2
Controls	Electrical hydraulic proportional control
System voltage	DC 24V
Hydraulic tank capacity	68 L
Tire size	355 / 55D - 625
Power	DC 48V / 420Ah
Total weight	6 t

### Range of motion HZ200J

