Technical sheet :

280 TJ ST5

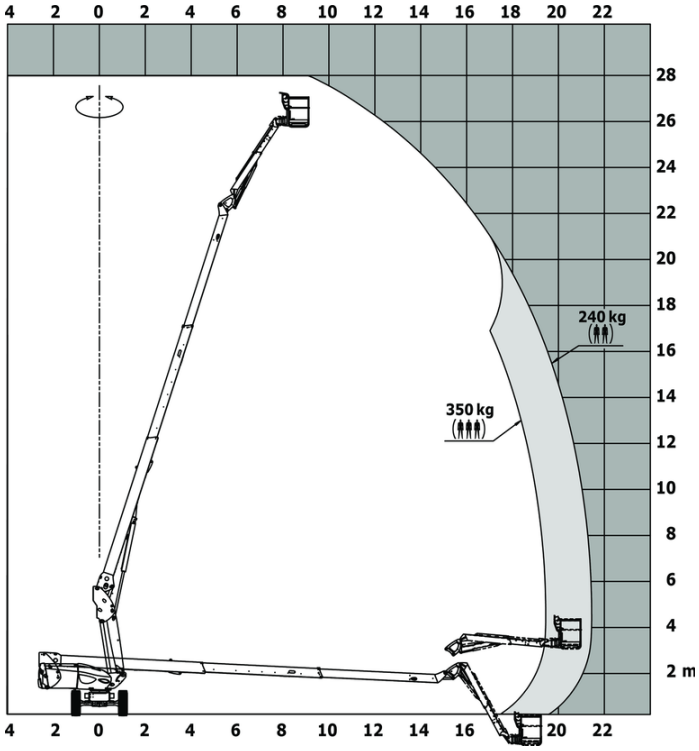
MANITOU
HANDLING YOUR WORLD

Capacities		Metric	Imperial
Working height	h21	27.73 m	91 ft
Floor height (access)	h20	0.40 m	1 ft 4 in
Platform height	h7	25.73 m	84 ft 5 in
Max. outreach		21.45 m	70 ft 4 in
Pendular arm rotation (top / bottom)		+56.80 ° / -62 °	+56.80 ° / -62 °
Platform capacity / capacity (maximum)	Q	240 kg / 350 kg	529 lb / 772 lb
Turret rotation		360 °	360 °
Platform rotation (right / left)		90 ° / 90 °	90 ° / 90 °
Number of people (indoor / outdoor)		3 / 2	3 / 2
Weight and dimensions			
Platform weight*		16500 kg	36376 lb
Platform dimensions (length x width)	lp / ep	2.30 m x 0.90 m	7 ft 7 in x 2 ft 11 in
Overall length	l1	11.36 m	37 ft 3 in
Overall width	b1	2.48 m	8 ft 2 in
Overall height	h17	2.73 m	8 ft 11 in
Overall length (stowed)	l9	8.09 m	26 ft 7 in
Overall height (stowed) **	h18	2.71 m	8 ft 11 in
Jib length	l13	3.80 m	12 ft 6 in
Telescopic jib length retracted / extended		2800 mm / 4300 mm	110 in / 169 in
Counterweight offset (turret at 90°)	a7	1.43 m	4 ft 8 in
Counterweight Oversize / Reach		1.45 m	4 ft 9 in
External turning radius	Wa3	4.35 m	14 ft 3 in
Ground clearance at centre of wheelbase	m2	0.41 m	1 ft 4 in
Wheelbase	y	2.80 m	9 ft 2 in
Performances			
Drive speed - stowed		4.50 km/h	3 mph
Drive speed - raised		0.80 km/h	0.50 mph
Gradeability		35 %	35 %
Permissible leveling		4 °	4 °
Wheels			
Tires type		Solid Tires Cured-On	Solid Tires Cured-On
Drive wheels (front / rear)		2 / 2	2 / 2
Steering wheels (front / rear)		2 / 2	2 / 2
Braking wheels (front / rear)		2 / 2	2 / 2
Engine/Battery			
Engine brand / model		Yanmar - 4TNV88C	Yanmar - 4TNV88C
Engine norm		Stage V	Stage V
I.C. Engine power rating / Power		46 Hp / 34.30 kW	46 Hp / 34.30 kW
Miscellaneous			
Ground Pressure		21.30 dan/cm2	309 PSI
Hydraulic Pressure		400 bar	5802 PSI
Hydraulic tank capacity		94 l	25 US gal
Fuel tank		76 l	20 US gal
Noise to environment (LwA)		< 106 dB	< 106 dB
Vibration on hands/arms		< 0.50 m/s²	< 0.50 m/s²
Standards compliance			
This machine is in compliance with:		European directives: 2006/42/EC- Machinery (revised EN280:2013) - 2004/108/EC (EMC) - 2006/95/EC (Low voltage)	European directives: 2006/42/EC- Machinery (revised EN280:2013) - 2004/108/EC (EMC) - 2006/95/EC (Low voltage)

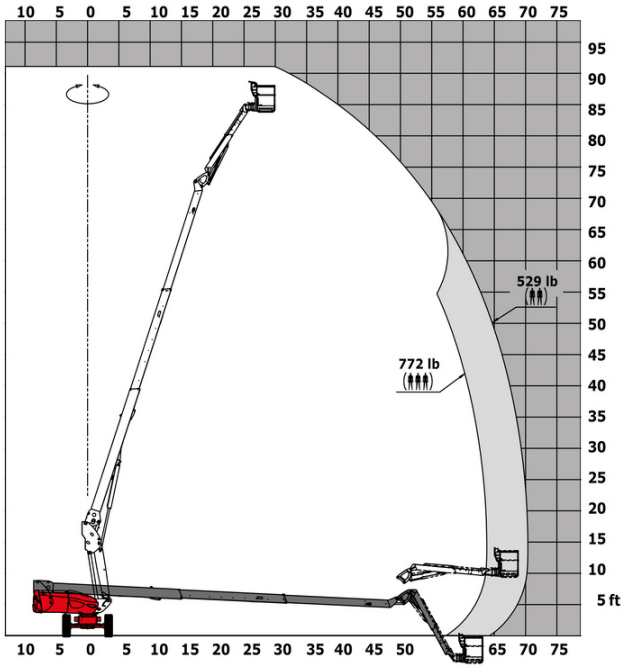
*Varies according to options and standards of the country to which the machine is delivered
** According to "REDUCE cycle"

280 TJ ST5 - Load chart

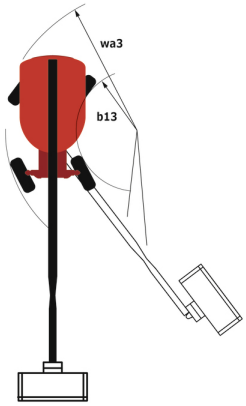
Load Chart for MEWP Metric

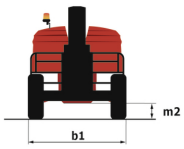


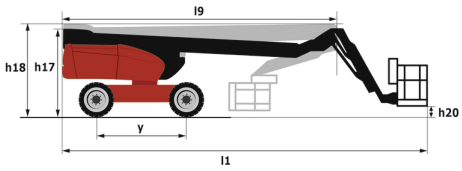
Load Chart for MEWP (Imperial)



280 TJ ST5 - Dimensional drawing







Equipment

Standard
230V Predisposition
4 simultaneous movements
4 wheel drive
4 wheel steer with crab mode
Audible alarm and illuminated indicator lamp (leveling, overload, lowering)
Backup electrical pump
CAN bus technology
Connected machine
Continuous turret rotation
Dead man pedal
Differential locking on rear axle
Emergency stop button in platform and on frame
Engine on swivel chair
Engine with DPF
Front axle with limited slip
Fuel gauge with low level indicator
Horn in the platform
Hour meter
LED rotating beacon
Large basket with three entries
Oscillating front axle
Remote control for transport
Stop & Go system
Telescopic jib
Turret orientation information
X Y function

Optional
Additional storage boxes
Battery blanket
Battery cut-off
Biodegradable hydraulic oil - Grade 32
Cold weather protection oil
Engine Block Heater
Highly capacity battery
Hydraulic oil heater
Large basket 2.30m with lateral door
Lockable fuel cap
Narrow basket 1.80m
Non marking solid tyres
On-board generator (3,5 or 5 kW)
Panel cradle
Personalized paintwork
Pipe cradle
Safety kit - Harness + helmet
Safety valve
Screen protection on the lower box control
Secondary Protection System (SPS)
Socket 230 V + differential circuit breaker
Spark arrester
Working light

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