



HERCULES

100.10 | 130.10 | 190.10 | 210.10 | 230.10



PERFORMANCE

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Maximum capacity	22040 lb (9997 kg)	28660 lb (13000 kg)	41888 lb (19000 kg)	46290 lb (20997 kg)	50706 lb (23000 kg)
Maximum lifting height	31.2 ft (9.5 m)	31.2 ft (9.5 m)	33.5 ft (10.2 m)	33.5 ft (10.2 m)	33.3 ft (10.15 m)
Maximum horizontal extension	16.7 ft (5.1 m)	16.7 ft (5.1 m)	16.9 ft (5.2 m)	16.89 ft (5.1 m)	16.8 ft (5.1 m)
Fork swiveling angle	144°	144°	120°	120°	113°
Pull-out force	21806 lbf (9700 daN)	21806 lbf (9700 daN)	36419 lbf (16200 daN)	42489 lbf (18900 daN)	42489 lbf (18900 daN)
Towing force	24729 lbf (11000 daN)	24729 lbf (11000 daN)	43838 lbf (19500 daN)	43838 lbf (19500 daN)	43838 lbf (19500 daN)
Maximum climb angle	36%	36%	36.5%	36.5%	35%
Unladen mass	35274 lb (16000 kg)	39683 lb (18000 kg)	54013 lb (24500 kg)	60627 lb (27500 kg)	63934 lb (29000 kg)
Max speed (referred to wheels with maximum permitted diameter)	21.1 mph (34 km/h)	21.1 mph (34 km/h)	14.3 mph (23 km/h)	14.3 mph (23 km/h)	13.7 mph (22 km/h)

BOOM

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Lifting	16.5 s	20 s	20 s	25.2 s	28.6 s
Descent	13.2 s	13 s	20.5 s	23.5 s	24.1 s
Extension	13.2 s	13 s	20.1 s	20.1 s	20.1 s
Retraction	8.3 s	15 s	9.8 s	9.8 s	9.8 s
Forward swiveling	5.3 s	6.5 s	5.6 s	8.1 s	15.3 s
Reverse swiveling	4 s	5 s	4.3 s	5.3 s	10.5 s

ENGINE

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Brand	FPT	FPT	FPT	FPT	FPT
Nominal power	168 HP (125 kW)	168 HP (125 kW)	168 HP (125 kW)	168 HP (125 kW)	168 HP (125 kW)
@rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm
Peak power	172 HP (128 kW)	172 HP (128 kW)	172 HP (128 kW)	172 HP (128 kW)	172 HP (128 kW)
@rpm	1900 rpm	1900 rpm	1900 rpm	1900 rpm	1900 rpm
Operation	4-stroke	4-stroke	4-stroke	4-stroke	4-stroke
Injection	Electronic, Common Rail	Electronic, Common Rail	Electronic, Common Rail	Electronic, Common Rail	Electronic, Common Rail
Number and arrangement of cylinders	4, Vertical in line	4, Vertical in line	4, Vertical in line	4, Vertical in line	4, Vertical in line
Displacement	274 in ³ (4485 cm ³)	274 in ³ (4485 cm ³)	274 in ³ (4485 cm ³)	274 in ³ (4485 cm ³)	274 in ³ (4485 cm ³)
Consumption	348.74 lb/Hp h (212 g/kWh)	348.74 lb/Hp h (212 g/kWh)	348.74 lb/Hp h (212 g/kWh)	348.74 lb/Hp h (212 g/kWh)	348.74 lb/Hp h (212 g/kWh)
@rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm
Emission standard	Stage V	Stage V	Stage V	Stage V	Stage V
Exhaust gas treatment	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)
Cooling system	Liquid	Liquid	Liquid	Liquid	Liquid
Intake	16-valve turbocharger with aftercooler	16-valve turbocharger with aftercooler	16-valve turbocharger with aftercooler	16-valve turbocharger with aftercooler	16-valve turbocharger with aftercooler

DIFFERENTIAL AXLES

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Type of axles	2 steering, with 4 epicycloidal reduction gears	2 steering, with 4 epicycloidal reduction gears	2 steering, with 4 epicycloidal reduction gears	2 steering, with 4 epicycloidal reduction gears	2 steering, with 4 epicycloidal reduction gears
Type of steering	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels	4 wheels / transversal / 2 wheels
FRONT AXLE	With transverse leveling device (8° + 8°) with control in the cab and 45% self-locking differential	With transverse leveling device (8° + 8°) with control in the cab and 45% self-locking differential	With transverse leveling device (8° + 8°) with control in the cab	With transverse leveling device (8° + 8°) with control in the cab	With transverse leveling device (6° + 6°) with control in the cab
Rear axle	Swinging	Swinging	Swinging	Swinging	Swinging
Service braking	Oil bath with servo brake on front and rear axle with double hydraulic system	Oil bath with servo brake on front and rear axle with double hydraulic system	Oil bath with servo brake on front and rear axle with double hydraulic system	Oil bath with servo brake on front and rear axle with double hydraulic system	Oil bath with servo brake on front and rear axle with double hydraulic system
Parking braking	Negative actuation with electrical control	Negative actuation with electrical control	Negative actuation with electronic control	Negative actuation with electronic control	Negative actuation with electronic control

HYDRAULIC SYSTEM

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Hydraulic pump type	"Load Sensing" variable flow pump for boom movements. Gear pump for power steering drive and for the cooling fan	"Load Sensing" variable flow pump for boom movements. Gear pump for power steering drive and for the cooling fan	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary services operation.	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary services operation.	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary services operation.
Hydraulic pump capacity	42.3 gal/min (160 l/min)	42.3 gal/min (160 l/min)	59.4 gal/min (225 l/min)	59.4 gal/min (225 l/min)	59.4 gal/min (225 l/min)
Max. operating pressure	4496 psi (31 MPa)	4496 psi (31 MPa)	5076 psi (35 MPa)	5076 psi (35 MPa)	5076 psi (35 MPa)
Distributor control	Proportional 4 in1 Joystick	Proportional 4 in1 Joystick	Proportional 4 in1 Joystick	Proportional 4 in1 Joystick	Proportional 4 in1 Joystick with FNR

REFUELING

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Hydraulic system (total)	64.99 gal (246 l)	78.72 gal (298 l)	87.18 gal (330 l)	91.67 gal (347 l)	95.10 gal (360 l)
FUEL TANK	54.68 gal (207 l)	54.68 gal (207 l)	54.68 gal (207 l)	54.68 gal (207 l)	54.68 gal (207 l)
AdBlue tank	8.98 gal (34 l)	8.98 gal (34 l)	8.98 gal (34 l)	8.98 gal (34 l)	8.98 gal (34 l)

TRANSMISSION

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Transmission type	Hydrostatic with variable displacement pump	Hydrostatic with variable displacement pump	Hydrostatic with variable displacement pump	Hydrostatic with variable displacement pump	Hydrostatic with variable displacement pump
Reversal	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic
Inching	With electronic pedal for controlled forward movement	With electronic pedal for controlled forward movement	With electronic pedal for controlled forward movement	With electronic pedal for controlled forward movement	With electronic pedal for controlled forward movement

TOWING CAPACITY

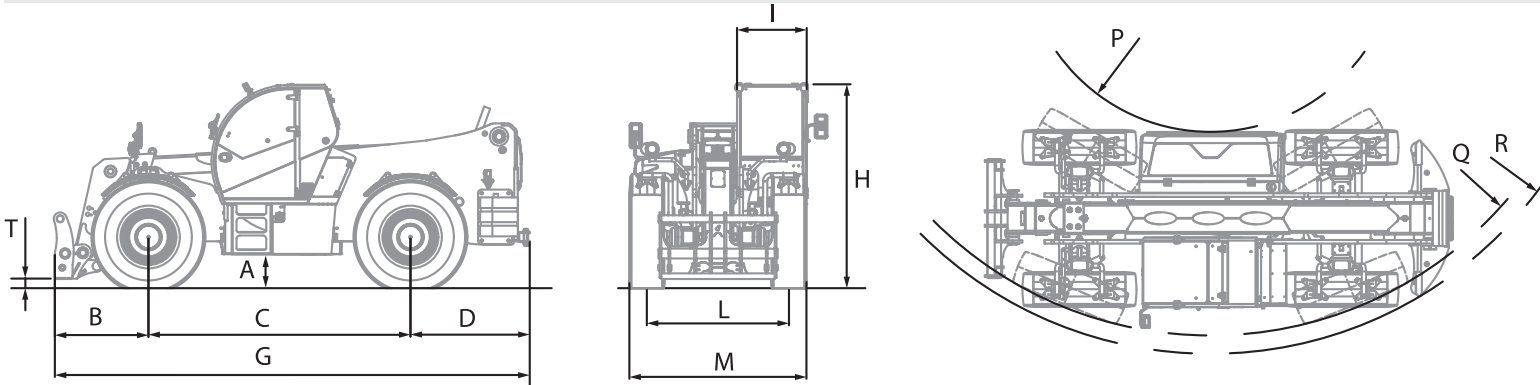
Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
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TIRES

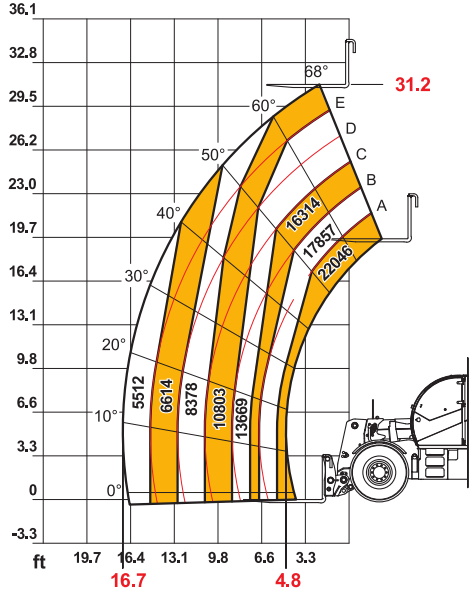
Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
Standard tires	17,5x25"	17,5x25"	16.00 - 25"	18.00 - 25"	18,00R25"

DIMENSIONS

Vehicle model	HERCULES 100.10	HERCULES 130.10	HERCULES 190.10	HERCULES 210.10	HERCULES 230.10
A	19.3 in (490 mm)	19.3 in (490 mm)	20.9 in (530 mm)	20.9 in (530 mm)	18.5 in (470 mm)
B	50.0 in (1270 mm)	50.0 in (1270 mm)	52.0 in (1320 mm)	52.0 in (1320 mm)	52.0 in (1320 mm)
C	129.9 in (3300 mm)	129.9 in (3300 mm)	151.6 in (3850 mm)	151.6 in (3850 mm)	151.6 in (3850 mm)
D	58.3 in (1480 mm)	58.3 in (1480 mm)	64.2 in (1630 mm)	64.2 in (1630 mm)	64.2 in (1630 mm)
G	238.2 in (6050 mm)	238.2 in (6050 mm)	267.7 in (6800 mm)	267.7 in (6800 mm)	267.7 in (6800 mm)
H	113.8 in (2890 mm)	113.8 in (2890 mm)	115.4 in (2930 mm)	115.4 in (2930 mm)	117.3 in (2980 mm)
I	38.6 in (980 mm)	38.6 in (980 mm)	38.6 in (980 mm)	38.6 in (980 mm)	38.6 in (980 mm)
L	77.8 in (1975 mm)	77.8 in (1975 mm)	79.3 in (2015 mm)	80.5 in (2045 mm)	85.8 in (2180 mm)
M	95.3 in (2420 mm)	95.3 in (2420 mm)	100.4 in (2550 mm)	100.4 in (2550 mm)	106.3 in (2700 mm)
P	42.1 in (1070 mm)	42.1 in (1070 mm)	139.0 in (3530 mm)	139.0 in (3530 mm)	139.0 in (3530 mm)
Q	155.5 in (3950 mm)	155.5 in (3950 mm)	255.9 in (6500 mm)	255.9 in (6500 mm)	257.1 in (6530 mm)
R	164.6 in (4180 mm)	164.6 in (4180 mm)	255.9 in (6500 mm)	265.7 in (6750 mm)	265.7 in (6750 mm)
T	5.3 in (134 mm)	5.3 in (134 mm)	7.1 in (181 mm)	7.1 in (181 mm)	7.1 in (181 mm)



MAX 22046 lb

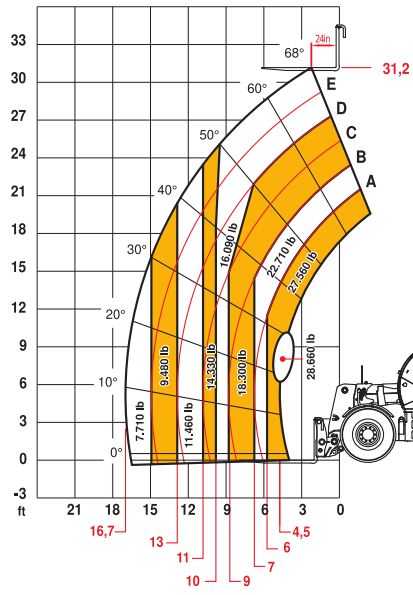


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100.10

MAX 28.660 lb



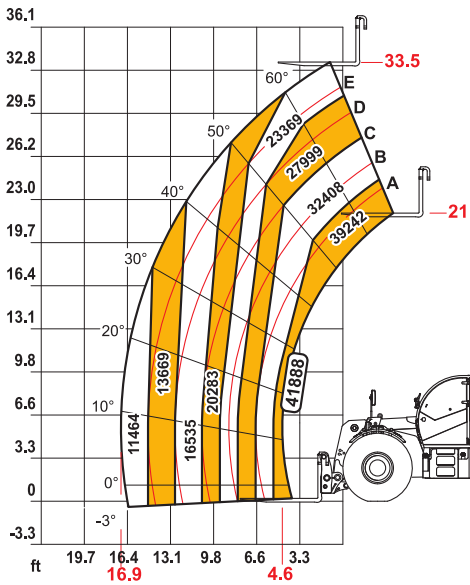
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130.10

ANSI B56.6

MAX 41888 lb

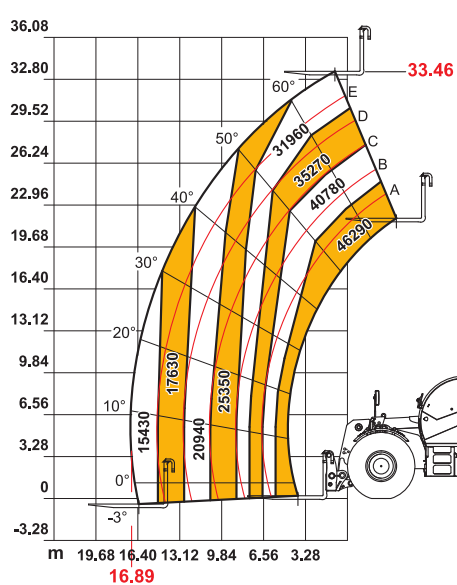


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190.10

MAX 46290 lb

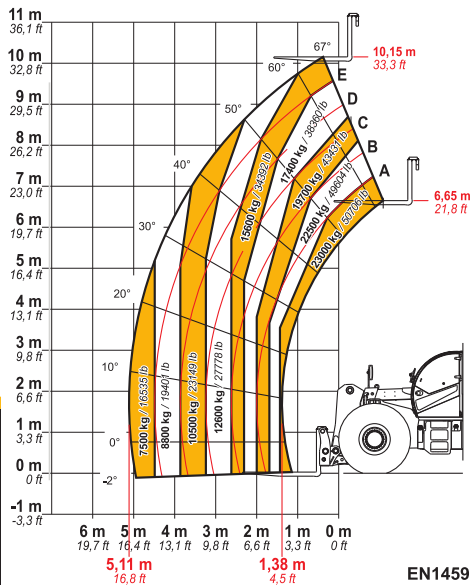


AXBI452/550



210.10

MAX 23000 kg / 50706 lb



DOCD10000810



230.10

EN1459 Annex-B

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