## DiECi



**HERCULES** 

130.10 | 190.10 | 210.10 | 230.10



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Vehicle and void   150,002   1910   1900	DEDECRIMANCE				
Manimum Canaphay	PERFORMANCE Vahisla madal	HEDCHI EC 130 10	Harsulas 100 10	Harsulas 210.10	Harsulas 220 10
Memorn Inform Jergin   Memorn Inform Jergin   Memorn Information   Mem					
Manimor Informative determor   1,1 m (1,4 m)   1,2 m (1,5 m)	, ,	•	-	3	-
Trick   1487   1597					
Part					
Table   Tabl					
Minimum cultur purple					
Marimum of mile ange					
Manageon	-	-	-	-	<b>3</b> · ,
Medican analyse					
Melican   Meli	permitted diameter)	34 km/n (21.1 mpn)	23 km/n (14.3 mpn)	23 km/n (14.3 mpn)	22 km/n (13.7 mpn)
Setting of the Sabeth   13 s   20 s	ВООМ				
Description   20   20   20   20   20   20   20   2	Vehicle model	HERCULES 130.10	Hercules 190.10	Hercules 210.10	Hercules 230.10
Description   13 s   20 1 s	Getting off the basket	13 s	20.5 s	23,5 s	24.1 s
March   Marc	Lifting	20 s	20 s	25.2 s	28.6 s
Marcules (1966)   5.5   5.5   5.5   5.5   5.5   5.5	Extension	13 s	20.1 s	20.1 s	20.1 s
Reverse sevelenge  FORCINE  Verhales model  FORCINES  Verhales model  FORCINES  Verhales model  FORCINES  Verhales model  FORCINES  FORE	Retraction	15 s	9.8 s	9.8 s	9.8 s
Verhicker model   HERCLUES 130.10   Hercules 130.11   Hercules 210.10   Hercules 220.10   Hercules 220	Forward swiveling	6.5 s	5.6 s	8.1 s	15.3 s
Verlicide models	Reverse swiveling	5 s	4.3 s	5.3 s	10.5 s
Verlicide models	ENGINE				
PT		HERCIII ES 130 10	Hercules 190 10	Hercules 210.10	Hercules 230 10
Nominal power   12.5 M W 106 HP   12.5 M V 107 HP   2200 rpm   2000 rpm   2000 rpm   2000 rpm   2000 rpm   2000 rpm   19.6 M V 172 HP   12.6 M V 172 HP					
justime 2000 pm 2000 pm 2000 pm 2000 pm 2000 pm 1984 with 2719 p 1000 pm 1980					
Peel power   128 MV (1721 PF)   138 MV (1721 PF)   139 MV (1721 PF)	·				
istrem 1900 pr.m			•	•	•
Special politication   Belctronic, Common Rali   Belctronic, Common	•				
Electronic, Common Rail   Electronic, Comm		•	•		
Nomber and arrangement of of Index Affection I Inine Affection Affection I Inine Affection I Inine Affection Affection I Inine Affection Affection I Inine Affection Affec	Operation				
Displacement  448S cmf (274 inf) 448S cmf (274 inf) 670cmsumption 212 g/WMh (248 / 18 brly p) 2200 rpm	•		,	,	
Consumption 212 g/Wh/ 1548.74 lb/Hp h) 2200 rpm 200 rpm 2200 rpm 200 rpm 20	Number and arrangement of cylinders				
Segme	Displacement	4485 cm³ (274 in³)	4485 cm³ (274 in³)	4485 cm³ (274 in³)	
Emission standardist  Emission standardist  DOC+SCROF (with AdBlue)  DOC+SCROF (with AdBlue)  DOC+SCROF (with AdBlue)  Liquid	Consumption	212 g/kWh (348.74 lb/Hp h)	212 g/kWh (348.74 lb/Hp h)	212 g/kWh (348.74 lb/Hp h)	
Echaust gas treatment: DOC+SCReF (with AdBlue) Liquid	@rpm	2200 rpm	2200 rpm	2200 rpm	2200 rpm
Liquid   Liquid   Liquid   Liquid   Liquid   Liquid   Liquid   Imake   16-valve turbocharger with   16-valve turbocharger with dust separator   16-valve turbocharger with   16-valve turboc	Emission standards				_
Intake   16-valve turbocharger with aftercooler aftercooler aftercooler aftercooler aftercooler aftercooler aftercooler with dast separator with dast such as a separator with dast separator with dast separator with dast sepa	Exhaust gas treatment	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)	DOC+SCRoF (with AdBlue)
aftercooler aftercooler aftercooler aftercooler aftercooler aftercooler aftercooler with dust separator was all prefitted with control was all wit	Cooling system				
with dust separator with control on the displacement pump	Intake	aftercooler	aftercooler	aftercooler	aftercooler
Vehicle model   HERCULES 130.10   Hercules 190.10   Hercules 210.10   Hercules 230.10   Harcules 230.10   Hydrostatic with variable displacement pump disp	Air filter				
Hydrostatic with variable displacement pump brighted displacement pump displacement pump bright displacement pump displacement pump displacement pump displacement pump brighted displacement pump displa	TRANSMISSION				
displacement pump displacement pump displacement pump displacement pump displacement pump Hydrostatic with continuous automatic adjustment automatic adjustm	Vehicle model	HERCULES 130.10	Hercules 190.10	Hercules 210.10	Hercules 230.10
automatic adjustment automatic adjustment automatic adjustment automatic adjustment Reversal Electro-Hydraulic With electronic pedal for controlled forward movement forward movem	Transmission type		,		,
Inching With electronic pedal for controlled forward movement forward move	Hydraulic motor	Hydrostatic with continuous	Hydrostatic with continuous	Hydrostatic with continuous	Hydrostatic with continuous
Inching With electronic pedal for controlled forward movement forward move	Reversal	•	•	•	·
DIFFERENTIAL AXLES	Inching	•	•	•	•
Vehicle model   HERCULES 130.10   Hercules 190.10   Hercules 210.10   Hercules 230.10	Gearbox			Servo-controlled 2-speed	
Vehicle model   HERCULES 130.10   Hercules 190.10   Hercules 210.10   Hercules 230.10	DIFFERENTIAL AXLES				
Type of axles  2 steering, with 4 epicycloidal reduction gears  2 steering, with 4 epicycloidal reduction gears  Type of steering  4 wheels / transversal / 2 wheels  With transverse leveling device (8° + 8°) with control in the cab and 45% self-locking differential  Rear axle  Swinging  Service braking  Oil bath with servo brake on front and rear axle with double hydraulic system  Parking braking  Negative actuation with electrical control  Webcicle model  HERCULES 130.10  Hercules 190.10  Hercules 190.10  Hercules 210.10  Hercules 210.10  Hercules 220.10  "Load Sensing" variable flow pump for boom movements. And power steering, Gear pump for boom movements. Gear pump for boom movements. And power the cooling fan  Hydraulic pump capacity  Hydraulic pump capacity  Type  Togo Tronal 4 in 1 Joystick  Proportional 4 in 1 Joystick  Proportional 4 in 1 Joystick  Hydraulic servo-controlled "Flow Sharing" with electronic Sharing serve controlled "Flow Sharing" with electronic Sharing serve control		HERCULES 130 10	Hercules 190 10	Hercules 210 10	Hercules 230 10
Type of steering  4 wheels / transversal / 2 wheels  With transverse leveling device (8° + 8°) with control in the cab and 45% self-locking differential  Rear axle  Swinging  Service braking  Oil bath with servo brake on front and rear axle with double hydraulic system  Negative actuation with electrical control  Wheels / transverse leveling device (8° + 8°) with control in the cab  Negative actuation with electrical control  Whydraulic pump type  Phydraulic pump capacity  Distributor type  "Flow Sharing" servo controlled #poptaulic  Proportional 4in1 Joystick  "For Narior of Sarior	Type of axles	2 steering, with 4 epicycloidal	2 steering, with 4 epicycloidal	2 steering, with 4 epicycloidal	2 steering, with 4 epicycloidal
With transverse leveling device (8° + 8") with control in the cab and 45% self-locking differential  Rear axle  Swinging  Oil bath with servo brake on front and rear axle with double hydraulic system  Parking braking  Negative actuation with electrical control  HERCULES 130.10  Hercules 190.10  Hercules 190.10  Hercules 190.10  Hercules 210.10  Hercules 210.10  Hercules 230.10  Hercules 29.10  H	Type of steering	-	=	-	-
Rear axle  Swinging  Spical  Area xale with double hydraulic  system  Negative actuation with electronic  control  Negative actuation with electronic  control  Hercules 210.10  Hercules 210.10  Hercules 210.10  Hercules 230.10  "Load Sensing" variable flow pump for boom movements. And power steering of boom movements. And power steering. Gear pump for auxiliary services operation.  Services operation.  225 l/min (59.4 gal/min)	Front axle	With transverse leveling device (8° + 8°) with control in the cab and	With transverse leveling device (8°	With transverse leveling device (8°	With transverse leveling device (6°
Service braking Oil bath with servo brake on front and rear axle with double hydraulic system Parking braking Negative actuation with electrical control  Negative actuation with electronic control  Hercules 210.10  Hercules 210.10  Hercules 230.10  "Load Sensing" variable flow pump for boom movements. Gear pump for boom movements. And power steering drive and for the cooling fan  Hydraulic pump capacity  160 //min (42.3 gal/min)  225 //min (59.4 gal/min)  225 //min (59.6 psi)  Negative actuation with electronic control  Proportional 4in1 Joystick  Proportional 4in1 Joystick with FNR  Proportional 4in1 Joystick with FNR  Distributor type  "Flow Sharing" servo controlled hydraulic servo-controlled "Flow Sharing" with electronic  Sharing" with electronic  Sharing" with electronic	Rear avle	•	Swinging	Swinging	Swinging
Parking braking  Negative actuation with electronic control	Service braking	Oil bath with servo brake on front and rear axle with double hydraulic	Oil bath with servo brake on front and rear axle with double hydraulic	Oil bath with servo brake on front and rear axle with double hydraulic	Oil bath with servo brake on front and rear axle with double hydraulic
Vehicle modelHERCULES 130.10Hercules 190.10Hercules 210.10Hercules 230.10Hydraulic pump type"Load Sensing" variable flow pump for boom movements. Gear pump for boom movements. Gear 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 capacity160 l/min (42.3 gal/min)225 l/min (59.4 gal/min)225 l/min (59.4 gal/min)225 l/min (59.4 gal/min)Max. operating pressure31 MPa (4496 psi)35 MPa (5076 psi)35 MPa (5076 psi)35 MPa (5076 psi)35 MPa (5076 psi)Distributor controlProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickDistributor type"Flow Sharing" servo controlled hydraulicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronic	Parking braking	Negative actuation with electrical	Negative actuation with electronic	Negative actuation with electronic	Negative actuation with electronic
Vehicle modelHERCULES 130.10Hercules 190.10Hercules 210.10Hercules 230.10Hydraulic pump type"Load Sensing" variable flow pump for boom movements. Gear pump for boom movements. Gear 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 capacity160 l/min (42.3 gal/min)225 l/min (59.4 gal/min)225 l/min (59.4 gal/min)225 l/min (59.4 gal/min)Max. operating pressure31 MPa (4496 psi)35 MPa (5076 psi)35 MPa (5076 psi)35 MPa (5076 psi)35 MPa (5076 psi)Distributor controlProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickProportional 4in1 JoystickDistributor type"Flow Sharing" servo controlled hydraulicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronicHydraulic servo-controlled "Flow Sharing" with electronic	HYDRAULIC SYSTEM				
Hydraulic pump type  "Load Sensing" variable flow pump for boom movements. Gear pump for boom movements. And power steering. Gear pump for boom movements. And power steering. Gear pump for boom movements. And power steering. Gear pump for auxiliary services operation.  Hydraulic pump capacity  160 I/min (42.3 gal/min)  225 I/min (59.4 gal/min)  225 I/min (59.4 gal/min)  225 I/min (59.4 gal/min)  225 I/min (59.4 gal/min)  35 MPa (5076 psi)  225 I/min (59.4 gal/min)  35 MPa (5076 psi)  Distributor control  Proportional 4in1 Joystick  Proportional 4in1 Joystick  Proportional 4in1 Joystick  Proportional 4in1 Joystick  Hydraulic servo-controlled "Flow Sharing" with electronic  Hydraulic servo-controlled "Flow Sharing" with electronic		HEDCHI EC 120 10	Haveulas 100 10	Harsulas 210 10	Haveulas 220 10
Hydraulic pump capacity  160 l/min (42.3 gal/min)  225 l/min (59.4 gal	Hydraulic pump type	"Load Sensing" variable flow pump for boom movements. Gear pump for power steering drive and for	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary	"Load Sensing" variable flow pump for boom movements. And power steering. Gear pump for auxiliary
Max. operating pressure  31 MPa (4496 psi)  35 MPa (5076 psi)  4 Proportional 4in 1 Joystick  5NR  Distributor type  "Flow Sharing" servo controlled  4 Hydraulic servo-controlled "Flow  4 Hydraulic servo-controlled "Flow  5 Hydraulic servo-controlled "Flow  5 Hydraulic servo-controlled "Flow  6 Sharing" with electronic  7 Hydraulic servo-controlled "Flow  7 Hydraulic servo-controlled "Flow  7 Hydraulic servo-controlled "Flow  8 Hydraulic servo-controlled "Flow  9 Hydra			22. Tices operation.	•	•
Distributor control Proportional 4in1 Joystick Proportional 4in1 Joystick Proportional 4in1 Joystick Proportional 4in1 Joystick with FNR  Distributor type "Flow Sharing" servo controlled Hydraulic servo-controlled "Flow Hydraulic servo-controlled "Flow Hydraulic servo-controlled "Flow Hydraulic servo-controlled "Flow Sharing" with electronic Sharing" with electronic	Hydraulic pump capacity	-	225 l/min (59.4 gal/min)		
Distributor type "Flow Sharing" servo controlled Hydraulic servo-controlled "Flow Hydraulic servo-c	Hydraulic pump capacity  Max operating pressure	160 l/min (42.3 gal/min)	-	-	_
	Hydraulic pump capacity  Max. operating pressure  Distributor control	160 l/min (42.3 gal/min) 31 MPa (4496 psi)	35 MPa (5076 psi)	35 MPa (5076 psi)	35 MPa (5076 psi) Proportional 4 in 1 Joystick with

FILLING				
Vehicle model	HERCULES 130.10	Hercules 190.10	Hercules 210.10	Hercules 230.10
Hydraulic system (total)	298 I (78.72 gal)	330 l (87.18 gal)	347 l (91.67 gal)	360 l (95.10 gal)
Diesel tank	207 l (54.68 gal)			
AdBlue tank	34 l (8.98 gal)			
TYRES				
Vehicle model	HERCULES 130.10	Hercules 190.10	Hercules 210.10	Hercules 230.10
Standard tires	17.5x25"	16.00 - 25"	18.00 - 25"	18.00R25"
DIMENSIONS				
Vehicle model	HERCULES 130.10	Hercules 190.10	Hercules 210.10	Hercules 230.10
A	490 mm (19.3 in)	530 mm (20.9 in)	530 mm (20.9 in)	470 mm (18.5 in)
В	1270 mm (50.0 in)	1320 mm (52.0 in)	1320 mm (52.0 in)	1320 mm (52.0 in)
С	3300 mm (129.9 in)	3850 mm (151.6 in)	3850 mm (151.6 in)	3850 mm (151.6 in)
D	1480 mm (58.3 in)	1630 mm (64.2 in)	1630 mm (64.2 in)	1630 mm (64.2 in)
G	6050 mm (238.2 in)	6800 mm (267.7 in)	6800 mm (267.7 in)	6800 mm (267.7 in)
Н	2890 mm (113.8 in)	2930 mm (115.4 in)	2930 mm (115.4 in)	2980 mm (117,3 in)
1	980 mm (38.6 in)			
L	1975 mm (77.8 in)	2015 mm (79.3 in)	2045 mm (80.5 in)	2180 mm (85.8 in)
M	2420 mm (95.3 in)	2550 mm (100.4 in)	2550 mm (100.4 in)	2700 mm (106.3 in)
Р	1070 mm (42.1 in)	3530 mm (139.0 in)	3530 mm (139.0 in)	3530 mm (139.0 in)
Q	3950 mm (155.5 in)	6500 mm (255.9 in)	6500 mm (255.9 in)	6530 mm (257.1 in)
R	4180 mm (164.6 in)	6500 mm (255.9 in)	6750 mm (265.7 in)	6750 mm (265.7 in)
T	134 mm (5.3 in)	181 mm (7.1 in)	181 mm (7.1 in)	181 mm (7.1 in)
	A		P/	/









