

DIECI
UNITED STATES



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HERCULES



100.10

120.10

190.10

210.10

| PERFORMANCE | 100.10 | 120.10 | 190.10 | 210.10 |
|-----------------------------------|----------------|----------------|----------------|----------------|
| Maximum capacity lb(kg) | 22046(10000) | 26455(12000) | 41880(19000) | 46290(21000) |
| Maximum lifting height ft(m) | 31.2(9.5) | 31.2(9.5) | 33.5(10.2) | 33.46(10.2) |
| Maximum horizontal outreach ft(m) | 16.7(5.10) | 16.7(5.10) | 16.9(5.15) | 16.89(5.15) |
| Outreach at maximum height ft(m) | 2.0(0.6) | 2.0(0.6) | 1(0.3) | 0.66(0.2) |
| Fork swivelling angle | 144° | 144° | 120° | 120° |
| Pull-out force lbf(daN) | 21806.6(9700) | 21806.6(9700) | 36419.2(16200) | 42489.1(18900) |
| Towing force lbf(daN) | 24729.1(11000) | 24729.1(11000) | 29225.3(13000) | 47210.1(21000) |
| Gradeability | 39 % | 39 % | 35 % | 35 % |
| Total weight empty lb(kg) | 35274(16000) | 37479(17000) | 54013(24500) | 60627(27500) |
| Max speed mph(km/h) | 21.7(35) | 21.7(35) | 14.3(23) | 14.3(23)* |
| Levelling | 8°+8° | 8°+8° | 8°+8° | 8°+8° |

* = If road circulation approval is required, the maximum speed will be limited according to the regulations in the country of use

| BOOM | 100.10 | 120.10 | 190.10 | 210.10 |
|--|--------|--------|----------|-----------|
| Times: empty / with a regenerative valve (in seconds) | | | | |
| Lifting | 16.5 | 18.3 | 20.0/8.8 | 25.2/12.6 |
| Descent | 11.1 | 13.2 | 20.5 | 23.5 |
| Extension | 13.2 | 13.2 | 14.4 | 14.4 |
| Retraction | 8.3 | 8.3 | 8.7 | 8.7 |
| Forward swivelling | 5.3 | 5.3 | 5.6 | 8.1 |
| Reverse swivelling | 4.0 | 4.0 | 4.3 | 5.3 |

Patented compensation system

| ENGINE | |
|---|------------------------------|
| Model: | Iveco FPT |
| Maximum power HP @ rpm: | 175 @ 1900 |
| Revolutions per minute (rpm): | 2200 |
| Operation: | 4 stroke diesel |
| Injection: | Common-Rail |
| Anti-pollution regulation: | Stage 3b (Ad Blue) |
| Number and arrangement of cylinders: | 4, vertical in line |
| Engine size in ³ (cm ³): | 273.7(4485) |
| Specific consumption lb/Btu(g/kWh) @ rpm: | 1343.7(208) @1900 |
| Electronic/Manual accelerator | Aftercooler Turbo compressor |
| Air pre-heater for cold climates | Liquid cooling system |

| HYDRAULIC PLANT | 100.10 | 190.10 |
|---|-----------------------|-----------------------|
| | 120.10 | 210.10 |
| Gear Pump USA gal/1' - psi(l/1' - bar): | 14-2900,8(53-200) | |
| Variable delivery pump (Load Sensing) USA gal/1' - psi(l/1' - bar): | 42.27-4351,1(160-300) | 44.91-5076,3(170-350) |
| Control valve with joystick: | 4 in 1 | 4 in 1 |
| Simultaneous movements: | 3 | 3 |
| Proportional control distributor "Load Sensing" with "Flow Sharing" | | |
| Only on the following models: 210.10 - 190.10 | | |
| Lifting with "Regenerative" system | | |

| STANDARD DEVICES | |
|---|--|
| Anti-tipping device with peyorative movement block. | |
| Hydraulic socket for any accessory on the boom head with drainage. | |
| Soundproof closed cab, ROPS-FOPS approved, with heater. | |
| High-efficiency, self-cleaning engine air filter with cyclone filters. Digital speedometer. | |
| Only on the following models: 100.10 - 120.10 | |
| Self-blocking front axle differential (limited slip 45%). | |
| Only on the following models: 100.10 - 120.10 | |
| Hydraulically lockable center differential. | |

| REFUELLING | 100.10 | 190.10 |
|-------------------------|-----------|-----------|
| | 120.10 | 210.10 |
| Oil tank USA gal(l) | 64.9(246) | 79.2(300) |
| Fuel tank USA gal(l) | 54.6(207) | 73.9(280) |
| Ad Blue Tank USA gal(l) | 7.9(30) | 7.9(30) |

| TYRES | 100.10 | 120.10 | 190.10 | 210.10 |
|---------------|-----------|-----------|-----------|-----------|
| Tyres | 17.5 R25" | 17.5 R25" | 23.5 R25" | 23.5 R25" |
| * Alternative | | | 20.5 R25" | |

DIFFERENTIAL AXLES

Steering axles: 2, with planetary reduction gears
Steering types: 4 wheels / transversal / 2 wheels
Front axle: level
Back axle: oscillating
Oil bath service braking on the 4 wheels with double hydraulic plant.
Negative action parking brake

Only on the following models: 100.10 - 120.10

Hydraulically lockable center differential.

TRANSMISSION

Hydrostatic transmission with variable flow pump.
Hydrostatic engine with automatic variation.
Electrical - hydraulic inversion.
Inching pedal for controlled advancement.
Servocontrolled 2-speed gearbox.

OPTIONALS AND ACCESSORIES

A/C; Webasto Heater; Water Heater; Driver's seat with pneumatic suspension; Light on boom head; Quick coupling for accessories; Radio; Anti-theft system; Glass protection. Led work lights.
(For additional customizations, contact the area dealer)

| DIMENSIONS | 100.10 | 120.10 | 190.10 | 210.10 |
|-------------|-----------|-----------|----------------------|-----------|
| A/A* | 19(490) | 19(490) | 21(530)/19(470)* | 21(530) |
| B | 50(1270) | 50(1270) | 52(1320) | 52(1320) |
| C | 130(3300) | 130(3300) | 152(3850) | 152(3850) |
| D | 58(1480) | 58(1480) | 64(1630) | 64(1630) |
| E/E* | 215(5460) | 215(5460) | 248(6290)/243(6170)* | 248(6290) |
| F | 238(6050) | 238(6050) | 268(6800) | 268(6800) |
| G | 39(980) | 39(980) | 39(980) | 39(980) |
| H/H* | 114(2890) | 114(2890) | 115(2930) | 115(2930) |
| I | 78(1975) | 78(1975) | 81(2045)/79(2015)* | 81(2045) |
| L | 95(2420) | 95(2420) | 106(2700)/102(2590)* | 106(2700) |
| M | 58(1480) | 58(1480) | 139(3530) | 139(3530) |
| N | 171(4350) | 171(4350) | 256(6500)/254(6445)* | 256(6500) |
| O | 180(4580) | 191(4850) | 256(6500) | 256(6500) |

Measurements expressed in: in(mm) A* - E* - H* = Measurements referring to optional wheels

