



# MASSIVE FARM TRACTORS 290 – 80HP

## PERFORMANCE

Engine Power at 2200 rpm	80 (B.S) HP (58.1 KW)
Torque at 1400 rpm	75 DIN PS (55.9 KW) 279Nm (206 lbf ft)
PTO Power at rated Engine Speed	74.8 HP (55.7 KW)
PTO Power at 540 rev/ min	65.5 HP (49 KW)

## ENGINE

Model	MASSIVE POWER 4.248 A
No. of Cylinders/Type	4 /Diesel
Injection	Direct
Bore	101 mm
Stroke	127 mm (5.0 in)
Capacity	4.07 lit
Aspiration	Natural
Compression Ratio	16:1
Starting Aid	Thermostart
Throttle Control	Hand and Foot
Cooling	Water
Air Cleaner Type	Oil Bath or Dual, dry element

## ELECTRICS

Voltage	12 V, Negative Earth
Battery	110 Ah
Alternator/Starter	45 Amp / 2.8 KW
Light	Round Head Lights, Side Lights Brake Light, Direction Indicators, Rear work Lamp
Safety Start	Transmission & PTO
Other	Horn 7 Pin Trailer Socket

## POWER TAKEOFF

Type	Live PTO
Operation	Dual Clutch, Pedal operated
Speed	540 rev/min
@ engine speed	1789 rev/min
Shaft Diameter	35 mm (1.375in)
No. of Splines	6

## WHEELS & TYRES

Front	7.50 - 16 (6PR)
Rear	16.9 -30 (6PR) Pressed
Other	13.6 - 38 (6PR) Pressed

## TRANSMISSION

Sliding Spur, 8 Forward, 2 Reverse  
At 2000 rated engine speed with  
16.9/14x30 rear tyres

Gear	8 Speed (km/hr)	
Forward 1	(first low)	2.3
Forward 2		3.4
Forward 3		4.7
Forward 4		6.3
Forward 5	(first high)	9.3
Forward 6		13.6
Forward 7		18.6
Forward 8		25.0
Reverse 1	(low)	3.2
Reverse 2	(high)	12.7

## HYDRAULICS

Functions	Draft Control Position Control, Response Control, Constant Pumping
Pump Type	Reciprocating Ferguson Pump
Maximum Oil Flow	16.7 lit/min
Maximum Pressure	207 bar (3000 lbt/in <sup>2</sup> )
Max. Lift Capacity with lower links	2290 Kg Heavy Duty Cat2, fixed
horizontal	Ball end, Linkage check chain at lower end

## CLUTCH

Type	Dual
Operation	305 x 254 mm (12 x 10 in)
Lining Material	Cerametallic

## FRONT AXLE

Type	Heavy Duty, Adjustable
Steering	Mechanical - Power Assisted (Optional)

## TRACK ADJUSTMENT

Front	1372 - 1778 mm (54 – 70 in)
Rear	1422 - 2134 mm (56-84 in)

## REAR AXLE & BRAKES

Front Drive	Outboard Epicyclic
Brake Type	Oil cooled 5 Plate Discs
Actuation	Mechanical
Braking Area	2219 sq.cm(344 in <sup>2</sup> )
Parking Brake	Hand Lever Operated
Differential Lock	Mechanical

## INSTRUMENTATION

Gauges	Tachometer/Hourmeter, Fuel Level, Battery Level, Water Temperature
Warning Lights	Direction Indicators, Electric Charge, Headlight Main Beam, Oil Pressure,

## WEIGHT & DIMENSIONS

Weight with full fuel, Oil and water.

Weight - Total	2585Kg (5697 lb)
Rear	1464Kg (3227 lb)
Front	1121 Kg (2470 lb)
Dimensions	
Length - Overall	3890 mm (153.0 in)
Width - minimum	2020 mm (79.5 in)
Height - over exhaust	2520 mm (99.2 in)
over steering Wheel	1700mm (67.0 in)
Wheel base	2286 mm (90.0 in)
Turning Circle	
with brakes	7.6 m (300 in)
without brakes	8.5 m (323 in)
Ground Clearance	381 mm
Under Drawbar	381 mm (15.0 in)
Under Front axle	486 mm (19.0 in)
Under rear axle	648 mm (25.5 in)

## CAPACITIES

Fuel Tank	90 Liter (20.0 Imp.gal)
Engine Sump	8.0 Liter (14.4 Imp .pt)
Cooling System	14.2 Liter (25.0 Imp.pt)
Hydraulic System	40.0 liter (8.7 Imp.pt)

## OPERATOR AREA

Seat:	Cushioned or spring suspension
Fenders	Flat Top