

# 398/4 tractor

100 BS hp. 4 wheel drive



MASSEY FERGUSON

398/4

## PERFORMANCE

Rated engine power  
@ 2200 rev/min \*100 BS hp (75,0 kW)  
†93 DIN PS (68,5 kW)

Max engine torque  
@ 1400 rev/min \*349 Nm (†273 lbf ft)

Max PTO power @  
rated engine speed #86,0 PS (63,3 kW)  
\*BS Au 141a †DIN 70020  
# Manufacturer's estimate

## ENGINE

Make/type	Perkins/AT4.236
No. of cylinders	4
Injection	Direct
Bore	98,4 mm (3.875 in)
Stroke	127,0 mm (5.0 in)
Capacity	3,86 litre (236 in <sup>3</sup> )

Compression ratio	15.5:1
Aspiration	Turbocharged, with wastegate
Starting Aid	Thermostart
Throttle control	Hand and foot
Cooling	Water
Air cleaner	Oil bath or Dual dry element
Air pre-cleaner	over-bonnet, centrifugal or under-bonnet (dry only)
Fuel filter	Single, high capacity
Exhaust	Vertical or horizontal

## ELECTRICS

Voltage	12V negative earth
Alternator/starter	45 Amp/2,2 kW
Lights	Headlights, sidelights, brake lights, direction indicators, rear work lamp

Other	Horn, 7 pin trailer socket
-------	----------------------------

## CLUTCH

Type	Split torque
Diameter	330 mm (13 in)
Lining material	Cerametalic

## POWER TAKE OFF

Operation	Hydraulic, independent clutch, operated by single hand lever
IPTO speeds	540 rev/min @ 1893 engine rev/min 1000 rev/min @ 1900 engine rev/min
Shaft diameter	35 mm (1.38 in)
No. of splines (rev/min)	6 (540), 21 (1000)



## 398/4 tractor

**TRANSMISSION**

Synchro 12	12 forward, 4 reverse speeds, synchromesh, manual change
------------	--

**Road speeds** - at rated engine speed  
16.9-38 rear tyres.

	mile/h	km/h
Forward 1	1.3	2,1
2	1.7	2,7
3	2.0	3,2
4	2.5	4,0
5	3.6	5,8
6	4.6	7,4
7	5.4	8,6
8	6.8	11,0
9	8.1	13,0
10	10.2	16,5
11	14.7	23,8
12	18.8	30,2
Reverse 1	2.0	3,2
2	2.5	4,0
3	8.1	13,0
4	10.2	16,5

**HYDRAULICS**

Functions	Draft control, Position control, Response control, Intermix
Max. oil flow	
- high flow pump	27,6 litre/min (6.07 Imp. gal/min)
Max pressure	207 bar (3000 lbf/in <sup>2</sup> )
Max. lift capacity at link ends, links horizontal	
- less assistor ram	2586 kg (5701 lb)
- with 1 assistor ram	3059 kg (6744 lb)
- with 2 assistor rams	3678 kg (8109 lb)
Lower links	Cat 2 fixed ball end Cat 2 quick-attach hook end. Cat 2 high tear-out fixed ball end Cat 2 high tear-out hook end. Linkage check chains

**AUXILIARY HYDRAULICS**

Pump location	Engine mounted
Pump type	Dual element, gear
Max oil flow	36,0 litre/min (7.92 Imp. gal/min) @ 175 bar (2500 lbf/in <sup>2</sup> )
Combined flow	63,6 litre/min (13.99 Imp. gal/min)
Control	Selector valve
Spool valves	Up to 3 single/double acting, with spring-to-neutral, detent, detent/kick-out or float facilities available

**STEERING**

Type	hydrostatic
------	-------------

**4WD FRONT AXLE**

Axle type	Parallel drive
Engagement	Mechanical
Differential	Hydro-mechanical
Max. turning angle	50°

**BRAKES**

Type	Oil cooled, 4 plate disc
Braking area	1774 cm <sup>2</sup> (275 in <sup>2</sup> )
Operation	Hydraulic
Parking brake	Hand lever operated
Trailer brakes	Optional

**OPERATOR AREA**

Seat	Spring suspension or cushioned
Fenders	Flat top, with tool box

**INSTRUMENTATION**

**Gauges:** Tachometer/hourmeter, fuel, water temperature

**Warning lights** (\*varies by tractor specification): Direction indicators, electric charge, headlight main beam, diff. lock engaged, handbrake, low fuel, low engine oil pressure, engine air cleaner blockage\*, transmission oil pressure\*, transmission oil filter blockage\*, 4WD engaged

**WHEELS AND TYRES**

Front	13.6-28 6PR pressed
Rear	16.9-38 8PR pressed or cast PAVT OR

Front	14.9-24 6PR pressed
Rear	18.4-34 8PR pressed or cast PAVT

**TRACK ADJUSTMENTS**

Front	1526-2094 mm (60-82 in)
Rear - pressed	1533-2233 mm (60-88 in)
- cast PAVT	1518-2428 mm (60-96 in)
- cast manual	1409-2120 mm (55-84 in)

**WEIGHTS AND DIMENSIONS**

With full fuel, oil and water. 13.6-28 front and 16.9-38 Pressed rear tyres/wheels.

Weight - front	1517 kg (3337 lb)
- rear	1578 kg (3472 lb)
- total	3095 kg (6809 lb)
Overall length	3811 mm (150.0 in)
Width - minimum	1973 mm (77.7 in)
Height, over	
- exhaust	2585 mm (101.8 in)
- steering wheel	1831 mm (72.1 in)
Wheelbase	2350 mm (121.3 in)
Turning circle	
- less brakes	9391 mm (370 in)
Ground clearance, under	
- drawbar	433 mm (17.0 in)
- 4WD axle	449 mm (17.7 in)

**CAPACITIES**

Fuel tank	108 litre (23.8 Imp.gal)
Engine sump	7,7 litre (13.6 Imp. pt)
Cooling system	15,5 litre (27.3 Imp.pt)
Hydraulic system	47,4 litre (10.3 Imp gal)

**VARIABLE EQUIPMENT**

Trailer tipping pipe. 3rd spool valve. Standard or high clearance front axle. Chain stabilisers. Rigid stabilisers. Heavy duty swinging drawbar. Auto hitch. Height adjustable 2-axle trailer hitch. Cushioned seat. Hydraulic trailer brakes. Lift assistor rams. Front weights. Wheel weights. O.E.C.D. tested safety frame. Seatbelt (for use with safety frame). Sunroof. Sun canopy. Tilt-adjustable steering column. Range of wheel and tyre options.



MASSEY FERGUSON

Specifications are subject to change without notice and may vary from country to country. Please check with your distributor or dealer at the time of placing your order.