

MASSEY-HARRIS IN THE USA



Red Orchard
Pacemaker

Note: When first introduced the green Pacemaker was termed the Massey-Harris "Standard Tractor" for a short period. Later non twin power red Pacemakers and Challengers were sometimes known as "Standard" Pacemakers and Challengers.



Green Orchard Pacemaker unfortunately painted red

Also there was a low profile version of the tractor which had a 60 in. tread and low profile styling which included a low position seat and steering wheel.



A low profile 1930 design type General Purpose orchard tractor

Tread: 48 in.

Turning radius: 5 ft. with brakes.

Weight: Approximately 3750 lb.

Fenders: Four steel fenders with aprons giving full protection.

Belt pulley: Not furnished regularly on orchard model.

Extra equipment: As for wide track models but not including power lift.

M-H 44 and 44K Orchard

The 44 Orchard was a normal 44 modified for work in orchards. The most significant feature of this model was the streamlined shielding. The steering angle and seat height are lower than on a conventional 44. Tyres are 6.00 x 16 front and 13 x 26 rear. The tread is 46 in. for shorter turning and ease of handling.



44 Orchard tractor



44 Vineyard tractor

M-H 44 and 44K Vineyard

The 44 vineyard was similar to the 44 orchard but without the shielding, lower steering and lower seat.

Rating: 3-4 plough.

Engine:

Model	Massey-Harris H-260
Type	Overhead
Cylinders	4
Compression ratio	5.65:1 (distillate 4.65:1)
Displacement cu. in.	260
Bore x stroke in.	3.875 x 5.5
Piston rings	3 compression, 1 oil control
Fuel	Gasoline or distillate
Engine speed rpm	1350 for belt and drawbar

Cooling system: Tubular radiator with by-pass thermostat. 17 in. diameter fan and 22 qt. capacity.

Engine lubrication: Full pressure, spur gear pump, 8 qt. capacity, removable cartridge oil filter.

Fuel tank: 19 gall.

Ignition: Battery and auto spark.



A 555 tractor which was only made in standard form

Weights lb.:

Gasoline standard tread	7435
Gasoline western special	6945
Diesel (with PSB pump) standard tread	7525
Diesel riceland special	6510
Diesel western special	7035
Gasoline riceland special	6420

Hydraulic system: Optional.

Regular equipment: Lights, rubber tyres, self starter, thermostat, oil gauge, water temperature indicator, internal PTO shaft, air cleaner, oil filter, ammeter, voltage regulator, drawbar, fenders, muffler, power steering (optional).

Special order equipment: Spark plug tyre pump, wheel weights, de-luxe seat, Depth-o-Matic hydraulics, standard or independent PTO, belt pulley.

Brakes: Individual rear wheel brakes with pedal lock for simultaneous operation.

Belt pulley (optional): 16 x 8.5 in. face, 730 rpm at 1350 engine rpm to give 3059 belt ft./min.

PTO (extra equipment): 521 rpm at 1350 engine rpm.

Note: The Western Special and Rice models had 18 + 26 rear tyres.

M-H Pony 812

All data presented here is from an 812 manual and for a Simca engined tractor with the exception of the Peugeot engine data which is from a Peugeot engine manual for the 812 and 820 tractors.

Rating: One plough

Engine:

Both the Simca type 555 and 702 engines were reportedly fitted to the 812 tractor as noted in the above section. Later a Peugeot engine was fitted which was carried through to the 820 tractor.

Make	Simca	Peugeot
Type	4 stroke	4 stroke
Bore x stroke mm	72 x 75	75 x 73
Cylinders	4	4
Displacement cc	1221	1290
Compression ratio	6.2:1	6.8:1
Speed rpm	1600*	2000
hp	16	18
Fuel	Petrol	Petrol

*1800 also quoted.

Tyres: Front 4 x 15, rear 8 x 24 or special order 9 x 24.

Speeds km/hr:

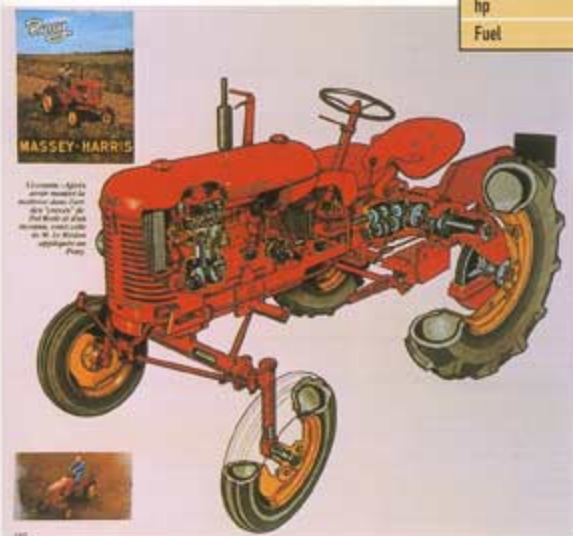
1st	4.41
2nd	5.78
3rd	11.27
Reverse	5.18

Clutch: Single dry plate.

PTO: 28.57 mm diameter. Runs at 540 rpm.

Pulley: 152.4 mm diameter. Runs at 1990 rpm to give 964 belt m/min.

Brakes: Independent, foot operated.



The 812 Pony shown in cutaway form

Dimensions in.:

	B-NO-40	B-NO-25
Wheelbase	70	70
Normal tread	44	44
Overall length	112	112
Overall width	58	54
Overall height	46	46
Ground clearance	7	7
Overall turning radius (outside clearance)	9 ft. 8 in.	9 ft. 8 in.
Standard weight lb.	5640	3720
Rated drawbar pull lb.	4000	2500
Front tyres	6.00 x 19	6.00 x 19
Rear tyres	6.00 x 20 dual	6.50 x 20 single

Standard equipment: Electric vibration type horn, pinle hook coupler, front bumper, rear bumper, paint - Ford grey, lusterless grey or lusterless olive drab, special comfort seat.

Optional equipment: Electric lights, oversize pneumatic tyres, solid rubber tyres.

6.2 Ferguson Tractors

Ferguson TO-20

Capacity: Two 14 in. ploughs with Ferguson hydraulically operated equipment.

Engine:

Make	Continental Z120
Type	Overhead valve
Cylinders	4
Piston rings	3 compression and 1 oil control
Bore x stroke in.	3.187 x 3.75
Compression ratio	6.1:1
Piston displacement cu. in.	120
Engine speed rpm	400-2200
hp ratings	Max. belt 26.5, rated belt 22.53, Max. drawbar 21.77, rated drawbar 14.33.
Fuel	Gasoline
Governed speed range rpm	1200-2000



Ferguson TO-20 Serial Number 1 at the Ontario Farm Museum

MASSEY FERGUSON MADE IN ITALY



C 4000, CS 4000, CL 4000

Engine:

Fuel	Diesel
Cylinders	3
Bore x stroke mm	91.4 x 127
hp	42
Engine speed rpm	2000



The C 4000 crawler tractor

Dimensions m:

Maximum length	2.54
Width	1.28
Height over bonnet	1.23
Ground clearance	0.27
Gauge of track	1
Weight in working order kg	2100

Speeds km/hr:

Gear	Speed
1	2.05
2	3.39
3	5.2
4	7.24
5	13.78
Reverse	2.05



An early version of the 4000 range known as the Lan-Loader

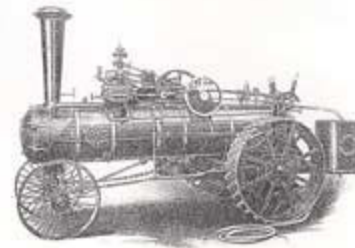
Specifications of the CS 4000 which are different to the basic model:

Minimum width 1.05 m, gauge of track 0.85 m, width of track plates 200 mm.

Specifications of the CL 4000 which are different to the basic model:

Maximum width 1.43 m, gauge of track 1.15 m, width of track plates 280 mm.

A 1917 catalogue indicates that rear mount ploughing engines were also made. The 22-68 with simple 9 x 11 in. engine weighed 23,000 lb. and the 25-76 with simple 9.3 x 11 in. engine weighed 27,000 lb.



Top Left: A 1916 25hp steam tractor
Bottom left: The style of 1906 13 1/2 and 20 hp simple tractor locomotive engines
Top right: Style of 20 and 25 hp engines
Middle right: 51 bhp steam tractor
Bottom right: 60 bhp steam tractor

Notes on other models obtained from an enthusiast are as follows:

10-20: Four cylinder Waukesha engine with bore x stroke of 4.25 x 5.75 in. 750 rpm, chain type steering and weighed 5400 lb.

11-22: Four cylinder Erd engine with bore x stroke of 4 x 6 in. 880 rpm, automotive type steering, same chassis as 10-20, weight 5400 lb.

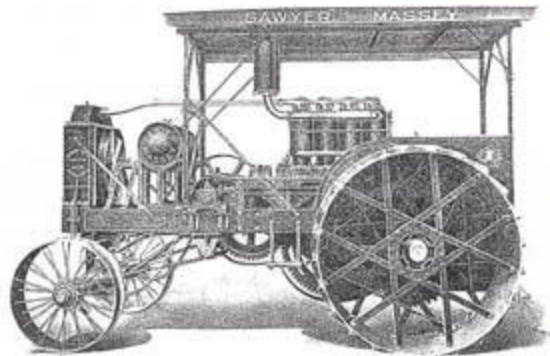
16-32: Early model used four cylinder Sawyer-Massey engine with bore x stroke 5.25 x 7 in. 680 rpm and weighed 11,850 lb. Later model used Minneapolis Steel and Machinery Co. Motor with bore x stroke of 5 x 7.5 in.

17-34: Used same Minneapolis engine as 16-32 and weighed 11,800 lb.

22-45: Used four cylinder Sawyer-Massey engine with bore x stroke of 6.25 x 8 in. and 600 rpm.

25-45 and 25-50: Re-ratings of the 22-45.

30-60: Limited number built with an all gasoline manifold and high compression pistons.



A 27-50 gasoline tractor



A 20-40 gasoline tractor

12.6 Portable Gasoline Engines

Sawyer-Massey also offered portable gasoline engines. These were single cylinder and of 10, 15 or 20 hp. Unfortunately, no photographs of these have been found.

This item has been seen by 19 people!



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