185MB/190LB baler

High capacity large rectangular balers

MASSEY FERGUSON

- **High capacity 'centre line' large rectangular balers**
- **MF 185 produces both straw and silage bales 0,8 m wide x 0,9 m in diameter; MF 190 produces straw bales 1,2 m wide x 1.3 m in diameter**
- **Crop flows in a straight line through the baler, so crop handling is simpler, more reliable, with less crop damage**
- **Design features a prepacking chamber, which ensures consistent bale density and excellent bale shape**
- **Wide, low profile pick-up handles big swaths with ease, while gentle action minimises crop disturbance**
- **Both models have a pair of gauge wheels, so the pick-up rides close to the ground for a clean sweep of the windrow**
- **Knotters tie two knotts per bale, so even the largest, high density bales stay in shape**
- **Knotter design is simple and rugged, giving consistent results, with easy adjustment**
- **Relatively low PTO horsepower requirement**
- **Optional bale ejector is available for the MF 185**

The leader in big bale systems

The MF185/190 balers are based on a design that goes back to 1978 – in fact to the very first large baler systems. This proven design is now available in two sizes, so family farms, dairies and livestock operations of all sizes – as well as contractors and large hay producers can benefit from the convenience and efficiency of the large bale system.

Advanced design for higher output

The MF 185/190 were designed for productivity – starting the moment the pickup tines touch the crop. The wide, low-profile pickup ensures that windrows are picked clean and delivered with minimal disturbance to the charge chamber.

Both models utilize the centre-line design and the 'preformed flake' concept that ensures consistent bale density and uniform flake size throughout the bale. As soon as the crop enters the pickup, centring augers gently feed it to the packer chamber throat opening where it is swept in by a set of packer fingers mounted on a triple throw crankshaft. This gives the packer a raking action that mixes the hay and ties the flake together as it feeds the crop into the fixed-volume charge chamber.

A set of holding fingers retain the charge in the chamber until the density reaches a predetermined level. At that point, the stuffer forks engage to sweep the preformed flake into the bale chamber where it is compressed by the plunger. Since one charge makes one flake, bale density is always consistent and bales come out rock solid regardless of crop conditions or ground speed.

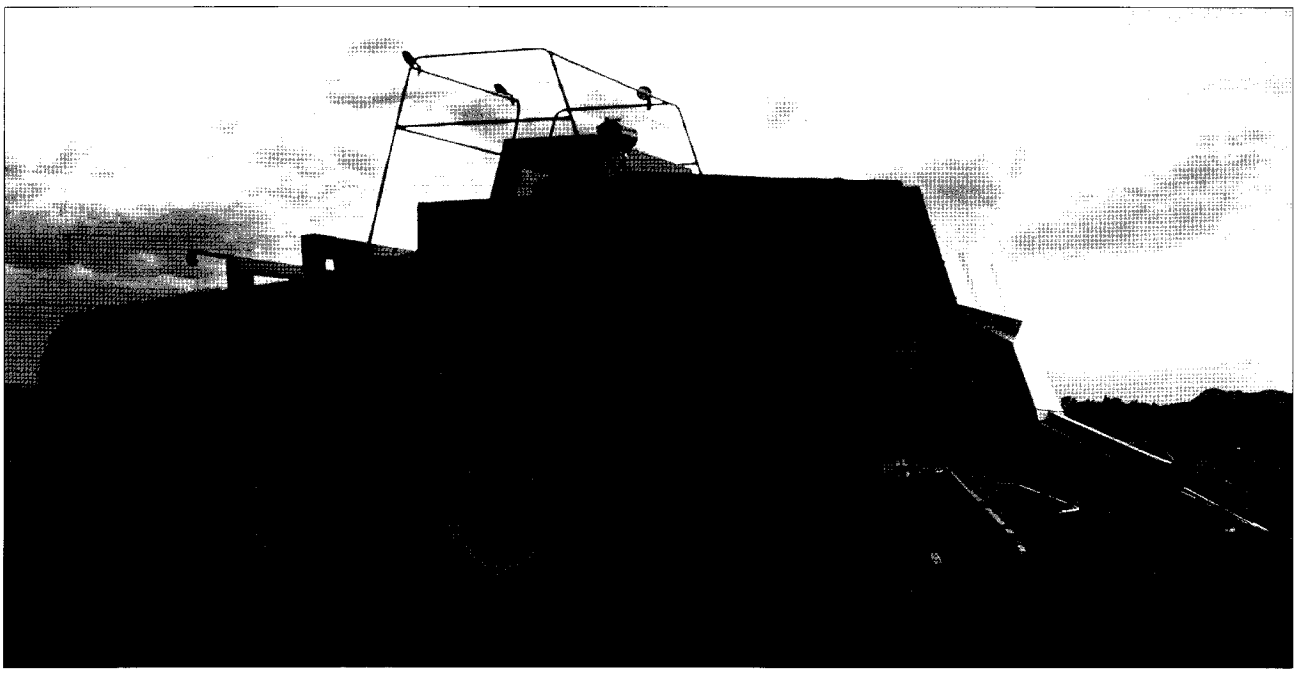
MF 185/190 ...Quality features

Only five simple chain drives are needed to perform all operating functions on the MF 185/190 balers for greater reliability and less maintenance. In addition, the packer drive and the pickup drive are slip clutch protected, while the stuffer drive, knotter assemblies and needle drive are shear bolt protected.

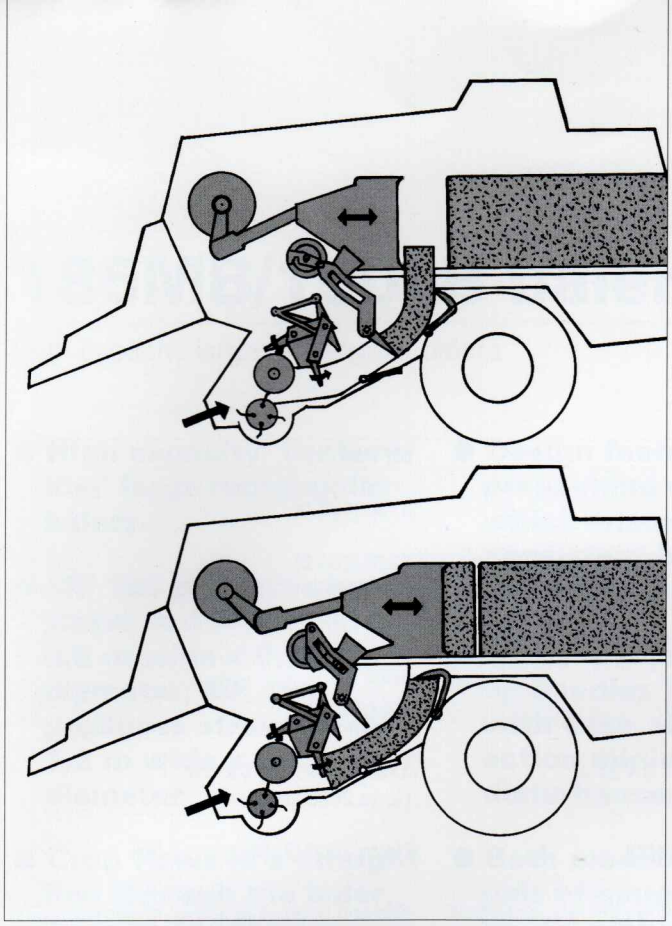
The heart of the 185/190 baler drive is a rugged, dual-reduction (185) or triple-reduction (190) gearbox that directs power from the tractor PTO to the rest of the baler without the need for extra chain drives or maintenance. Except for periodic oil changes and regular oil level checks, the gearbox is virtually maintenance free.

You're always in control

The MF 185/190 are both easy to operate, thanks to a microprocessor-based monitor and control console that mounts in the tractor cab. An LCD display with back lighting and sealed touch switches enables the operator to control bale density from the tractor seat and monitor a wide range of baler functions.



MF 190



A. Every component on the wide, low-profile pickup is designed for a clean sweep of the windrow — like the curved teeth that get the short, fine hay that straight-tooth pickups often miss. Multiple rows of teeth and narrow-channel strippers further ensure against crop loss.

B. A pair of 16-inch gauge wheels — one on each end of the pickup — is standard equipment on both models. As a result, the pickup rides close to the ground, without bouncing, to gather in all of the crop.

C. A three-joint, equal-angle driveline permits quiet operation on turns and helps reduce vibration and undue wear. The heavy-duty PTO shaft on the MF 190 can even be specified for a 1 3/8- or 1 3/4-inch format.

D. A built-in flywheel brake lets the operator stop the flywheel operation, or lock the baler components in position for greater safety when servicing or inspecting the machine.

E. Mechanically triggered markers on the baler, in conjunction with the in-cab electronic monitor, inform the operator of a knotter miss.

F. A large-capacity twine box on each side of the machine allows you to carry enough twine for a full working day of non-stop baling.

G. Two hydraulic cylinders regulate bale density by exerting pressure on the left, right and top sides of the bale chamber.

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		MF 185	MF 190
Dimensions and weights			
Overall width, with flotation tyres	mm (in)	2729 (107.4)	3190 (125.5)
Overall length			
– without bale chute	mm (in)	6782 (267)	7226 (284.5)
– with bale chute	mm (in)	8532 (336)	8900 (350)
Overall height			
– to top of knotter shielding	mm (in)	2655 (104.5)	3150 (124)
– to top of hand rail	mm (in)	3170 (124.8)	3680 (145)
Weight	kg (lb)	10700 (4853)	18300 (8440)
Bale Size			
Cross section (width x height)	mm (in)	800 x 875 (31.5 x 34.4)	1180 x 1270 (46.5 x 50)
Length	mm (in)	Up to 2500 (98)	Up to 2800 (108)
Weight of straw bale @ 14% moisture content	kg (lb)	Up to 500 (1100)	Up to 1000 (2200)
Main drive			
Protection		Slip and overrun clutches, shearbolt	Slip and overrun clutches, shearbolt
Gearbox type		Enclosed, double reduction	Enclosed, triple reduction
Plunger			
Speed	strokes/min	41	25
Length of stroke	mm (in)	710 (27.9)	780 (30.7)
Rollers – number / type		7 / Sealed ball bearing	7 / Sealed ball bearing
Pickup			
Width – panel to panel	mm (in)	1968 (77.4)	2475 (97.5)
– tine to tine	mm (in)	1781 (70.1)	1978 (77.9)
Number of tine bars / tines		4 / 112	5 / 120
Tine spacing	mm (in)	66 (2.6)	86 (3.4)
Protection		Slip and overrun clutches	Slip and overrun clutches
Pickup lift		Hydraulic cylinder	Hydraulic cylinder
Feeding System			
Packers		Fork type, 4 tine	Fork type, 6 tine
Protection		Splined slip clutch	Splined slip clutch
Charge chamber volume	m^3 (ft^3)	0.19 (6.7)	0.40 (12.5)
Tying Mechanism			
Number / type of knotters		4 / Double knot, twine tie	6 / Double knot, twine tie
Twine type / capacity		Polypropylene or sisal / 16 balls	Polypropylene or sisal / 24 balls
Tyres			
Flotation		21.5L x 16.1	28L x 26
Pickup		4 x 16	4 x 16
Lights		Three work lights, hazard/turn indicator lights, tail lights	
Control and Monitoring System		Microprocessor based, electronic	Microprocessor based, electronic
Tractor Requirements			
PTO horsepower	hp (kW)	90 (67) min. [150 (112) max.]	135 (101) min. [150 (112) recommended]
PTO	rev/min	1000	1000
Hydraulics		2 double acting auxiliary valves	2 double acting auxiliary valves
Electrical system		12 Volt DC	12 Volt DC

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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.

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