

Massey Ferguson

Massey Ferguson is an agricultural machinery manufacturer, established in 1953 through the merger of farm equipment makers Massey-Harris of Canada and the Ferguson Company of Ireland. It was based in Coventry then moved to Beauvais in 2003 when the Coventry factory was shut down.

History

Massey Manufacturing Co.

In 1847, <u>Daniel Massey</u> established the **Newcastle Foundry and Machine Manufactory** in what is now <u>Newcastle</u>, <u>Ontario</u>. [3] The company made some of the world's first <u>mechanical</u> threshers, at first by assembling parts from the United States, but eventually designing and building its own equipment. Daniel Massey's son, <u>Hart Massey</u>, renamed the enterprise the **Massey Manufacturing Co**.

In 1879, the company moved to <u>Toronto^[4]</u> and it soon became one of the city's leading employers. It was located on King Street West at Strachan Avenue, occupying the former Toronto exhibition grounds, the site of Toronto's Crystal Palace, just south of the Provincial Lunatic Asylum and north of the Central Prison. The huge complex of factories, consisting of a 4.4-hectare (11-acre) site with plant and head office at

915 King Street West (now part of Liberty Village), became one of the best-known features of the city. The company expanded further and began to sell its products internationally. Through extensive advertising campaigns, it became one of the most well-known brands in Canada. A labor shortage throughout the country also helped to make the firm's mechanized equipment very attractive.

Massey Ferguson



Company Subsidiary

type

Industry Agricultural machinery

Predecessors Massey-Harris Limited

Ferguson Company

Successor Varity

AGCO

Headquarters Beauvais, France. [1][2]

Area served Worldwide

Products Tractors, Combine harvesters,

Forage harvesters, Grape
harvesters, Sugarcane
harvesters, Balers, Front
loaders, Hay rake, Plough
tools, Telescopic handlers

Parent AGCO

Website masseyferguson.com (http://m

asseyferguson.com)



Illustration of the Massey factory in Newcastle, Ontario, circa 1879

A. Harris, Son & Company

1857 marked the purchase of a foundry by Alanson Harris near Beamsville, Ontario which he put to use for the creation of farm implements. [5] Beginning machinery types included hand rakes and pitch forks.

In 1863, he welcomed his son John into the business, thus forming the business name, A. Harris, Son & Company.

In 1871, John Harris acquired the rights to the Kirby mower and the Dodge rake for distribution in Canada from the D.M. Osborne and Company of Auburn, NY. [6]

A move to Brantford took place in 1872, and the company's marketing reach spread beyond Ontario to the western Canadian provinces.



Massey-Harris logo, c. 1952

Massey-Harris Limited

In 1891, the Massey Manufacturing Co. merged with <u>A. Harris, Son and Company</u> to form **Massey-Harris Limited**, which became the largest agricultural equipment maker in the <u>British Empire</u>. Massey-Harris made threshing machines and reapers, as well as <u>safety bicycles</u>, introducing a shaft-driven model in 1898. In 1910, Massey-Harris acquired the Johnston Harvester Company of <u>Batavia</u>, New York, making it one of Canada's first <u>multinational</u> firms.

Hart Massey's sons Charles, Walter, Chester and Fred became closely involved in the business and eventually took over its



Share of Massey-Harris Limited, issued 18 February 1916

operations. They were the last generation of Masseys to run Massey-Harris. President Vincent Massey left to become a minister in the Mackenzie King government. In 1927, an unsolicited takeover offer from an unnamed US purchaser precipitated a power struggle for control of the firm. The US bid was turned down, and control remained in Canadian hands with the sale of the Massey's stock for CA\$8 million to Thomas Bradshaw and J.H. Gundy of Toronto. [9] Members of the family accomplished other things in business. Vincent Massey later became Governor General of Canada. Raymond Massey became a noted actor in American films. The Massey family used its fortune to improve the city of Toronto and many institutions including the University of Guelph, University of Toronto, Upper Canada College, Crescent School, Appleby College, Massey Hall, and Metropolitan United Church were partially financed by the Masseys.

The company's early tractor models included the 20 horsepower Massey-Harris GP 15/22 (1930–36), ^[10] 25 horsepower 'Massey-Harris Pacemaker' (1936–1939), ^[11] 35 horsepower Model 101 (1938–1942), ^[12] Massey-Harris Pony, Model 20, Model 81, and Model 744.

Grain <u>harvesting</u> was revolutionized by Massey engineer Tom Carroll in 1938, with the world's first affordable, mass-produced, self-propelled <u>combine</u>— the No. 20. [3] It was too heavy and expensive for extensive mass production, but served as a guide for the design of the lighter and less costly No. 21, which was tested in 1940 and put on sale in 1941. The Massey-Harris No. 21 Combine was commemorated with a Canada Post stamp on 8 June 1996. [13] Massey-Harris also produced one of the world's first four-wheel drive tractors.

<u>E.P. Taylor</u>, one of <u>C.D. Howe</u>'s <u>dollar-a-year men</u>, joined the board of directors in 1942, and <u>Eric Phillips</u> joined management in 1946. The company became one of the prime jewels of the Argus Corporation.

The final generation of Massey-Harris <u>tractors</u>, introduced immediately after <u>World War II</u>, included the 25-horsepower M-H 22 series, [14] the 35 horsepower M-H 33 series, [15] the 45 horsepower M-H 44 series [16] and the 55 horsepower M-H 55 series. [17] In 1952, the M-H 22 was replaced by the M-H 23 Mustang. In 1955, the 30-horsepower Massey-Harris 50 was introduced after the merger that created Massey-Harris-Ferguson. It was based on the Ferguson TO-35 and was also produced as the F-40 for Ferguson dealers. The MH-50 was available in several configurations: utility, high-crop utility, or row-crop with a choice of single, tricycle, or wide adjustable front ends. In 1956, the M-H 33 was replaced by the MH 333, while the M-H 44 was replaced by the M-H 444 and the M-H 55 was replaced by the M-H 555. The tractors were commonly known as the "triple series" and were mechanically similar to their predecessors, however they featured new styling which included a slightly different hood design, chrome trim on the grill and hood, and a different color scheme. They were also available with power steering, live <u>power take-off</u> (PTO), and <u>hydraulics</u>. The Massey Harris triple series tractors remained in production until 1958.

Military contracts

During World War II and afterwards Massey Harris undertook a number of contracts to produce tractors, tanks and self-propelled artillery vehicles for the <u>United States Armed Forces</u>. [3] Vehicles produced by Massey Harris include the following:

- M5 Stuart light tank (250 M5s, and 3,530 M5A1s built)^[18]
- M24 Chaffee light tank
- M41 Howitzer Motor Carriage self-propelled artillery (built on M24 chassis^[19])
- M44 self propelled howitzer (250 built in early 1950s on M41 Walker Bulldog tank chassis)
- M36 Jackson tank destroyer
- M19 Multiple Gun Motor Carriage Self-propelled anti-aircraft artillery vehicle (300 built)
- I-162 Military tractor built for the United States Army (25 built)
- I-244 Military tractor built for the <u>United States Air Force</u>, <u>United States Navy</u>, and <u>United States Army Corps of Engineers in 1955 and 1956</u>
- I-330 Military tractor built for the United States Navy (6 built)

Massey Ferguson

In 1953, Massey-Harris merged with the <u>Ferguson Company</u> to become **Massey-Harris-Ferguson**, before shortening it to **Massey Ferguson** in 1958. They tried to consolidate the two dealer networks and product lines. Its television and radio advertising featured an upbeat jingle with a male chorus

singing, "He's a get-up-early, keep-'em-rollin, Massey-Ferguson kind of a man." Nevertheless, the company soon began to decline financially after facing increasing international competition in the 1960s, when the firm began to struggle.

Hanomag-Cura, Argentina

In 1971, Massey purchased the local facilities of Rheinstahl Hanomag-Cura in Argentina, which had been established in 1960. The production of tractors and other agricultural implements, during until 1999. Some model numbers made in Argentina included 65R/250/252, 155, 150, 5160 S-2 / S-4, 5140 / 5140–4, 265, 255, 250, 250 S "viñatero", 8500 and 9500.



A standard-tread [20] 1948 [Massey-Harris] Model 20

Other model numbers included 1075, 1078, 1095h, 1098, 1175 / 1175 S, 1185 / 1185 S, 1195 L / 1195 S-2/S-4, 1215 S-2 / S-4, 1340 S-2/S-4, 1360 S2/S4, 1615 L / S 1615 L, 1640, 1650, 1670, 1690, 1465, 1475 "Super alto", 1485, 1499 SX / 1499 L.

Sunshine, Australia

In 1955, Massey purchased the Australian manufacturers of Sunshine harvesters, <u>H.V. McKay Pty Limited</u>. <u>Hugh Victor McKay</u> had invented the <u>combine harvester</u> in 1884, the first machine to combine the functions of reaping, threshing and winnowing grain from a standing crop. By the 1920s, H.V. McKay Pty Ltd was running the largest implement factory in the southern hemisphere, covering 30.4 hectares (75 acres), and led the international agricultural industry through the development of the world's first self-propelled harvester in 1924.

In 1930, the H.V. McKay Pty Limited was granted exclusive Australian distribution of Massey-Harris machinery. The company was then renamed H.V. McKay Massey Harris Pty Ltd. Throughout World War II, H.V. McKay Massey Harris exported over 20,000 Sunshine drills, disc harrows and binders to England to facilitate the increase in food production.

In 1955, the remainder of H.V. McKay Pty Ltd was sold to Massey Ferguson. Manufacturing ended in 1986, and the last section was sold off and demolished in 1992. The former bulk store, factory gates and clock tower, factory gardens, and head office complex still exist and are all listed on the $\underline{\text{Victorian}}$ Heritage Register. [21]

Landini

In 1959, Massey bought 100% of <u>Landini</u> which is based in <u>Italy</u>. Landini has built many models for Massey over the years, especially vineyard and crawler models. Massey sold 66% to <u>ARGO SpA</u> in 1989, another percentage later to <u>Iseki</u>, and the final part was sold to ARGO in 2000.

Perkins

In 1959, <u>Perkins Engines</u> from <u>Peterborough</u>, England was purchased. Perkins was the main <u>diesel engine</u> supplier for Massey Ferguson for many years. [3] In 1990, Massey Ferguson took over <u>Dorman Diesels</u> of Stafford merging it with Perkins to form Perkins Engines (Stafford) Ltd. In the 1980s, Perkins purchased

Rolls-Royce (Diesels) Ltd, to form Perkins Engines (Shrewsbury) Ltd. In 1994, Perkins was bought by <u>LucasVarity</u>, who sold it in 1998 to <u>Caterpillar Inc.</u>, who was a major customer for Perkins's smaller and mid-sized engines; Caterpillar was a major producer of large diesel engines for stationary and mobile applications. [22]

Ebro of Spain

In 1966, Massey purchased 32% of the Spanish tractor and auto company <u>Ebro</u>, or Motor Iberica. Ebro had previously built <u>Ford</u> tractors under license, but now began building models for Massey, and Massey models under license. Massey sold its interest to Nissan in the 1980s. [23]

In the early 1960s, Massey Ferguson moved their head office from 915 King Street to the Sun Life Tower at 200 University Avenue in the Downtown Toronto.

In 1969, Massey Ferguson began producing a line of <u>snowmobiles</u> under the name "Ski Whiz". The snowmobile line was discontinued in 1977, due to a decline in sales.

Activities in Germany

In 1973, Massey purchased German <u>Eicher tractor</u> and many Massey-licensed Eichers were built. They later sold their interest and Dromson now owns Eicher which now builds specialized tractors for vineyards and such.

The firm purchased control of <u>Hanomag</u> in 1974. After a loss of \$250 million over the next five years, Hanomag was sold off. [24]

Conrad Black take-over

On 16 August 1978, Conrad Black, whose family had obtained control of Argus Corporation, an investor in Massey Ferguson, became active in Massey Ferguson's management.[25] In 1977, chairman Albert A. Thornbrough received a \$471,000 salary, the highest executive salary in Canada at the time. [26] During the 50 years between 1929 and 1979, the firm made more than 4% profit on its sales only five times. Under Black's leadership, Massey Ferguson instituted significant cost-cutting programmes and down-sized its work force in an attempt to improve its profitability. During the late 1970s, production was relocated from Toronto to a new, large facility in Brantford, Ontario. In 1978, Massey Ferguson was



A Massey Ferguson MF 3660 $\underline{\text{tractor}}$ from the early 1990s

the first to introduce an electronic control system for the three-point hitch on a tractor. However a worldwide decline in the agricultural equipment market combined with high inflation, high domestic interest rates and a major recession, caused Massey Ferguson to slip into a loss and seek relief from creditors. On 31 October 1979, Volkswagen AG made an informal offer for 51% of the firm, but was rebuffed by Black. On 23 May 1980, Black resigned as chairman. In a subsequent series of detailed and lengthy letters to Herb Gray—the then Canadian Minister of Industry under the government of Pierre

<u>Trudeau</u>—he remarked on the challenges faced by the firm, and outlined his solution, which would have seen the Canadian and Ontario governments as well as Argus Corporation refloat the ailing firm. Black failed to obtain a suitable response, and resolved to cut his losses. [28]

Varity

In October 1980, Argus donated its shares in Massey Ferguson to the employee's pension plans, leading the way to a CA\$250 million bail-out from the <u>Government of Canada</u> and the <u>Government of Ontario</u> for the collapsing business, which later was renamed <u>Varity</u> Corporation. In 1986, Varity spun off several money-losing divisions into an entity called Massey Combines Corporation. Massey Combines Corporation was headquartered in Brantford and became insolvent on 4 March 1988, and its assets were re-acquired by Massey Ferguson.

Varity left Toronto and relocated its head office to the Williams-Butler House at 672 Delaware Avenue in the Millionaire Row area of <u>Buffalo</u>, <u>New York</u>. The Toronto manufacturing complex was demolished and the property sold and re-developed, leaving only its head office building standing. Despite its hardships, Massey Ferguson was selling 25% more tractors than its nearest competitors at this time.



Massey Ferguson 6490 from the mid-2000s

In 1992, a management buyout of MF Industrial created Fermec, which ceased trading in 2001 when it was taken over by the <u>Terex Corporation</u>, formerly a unit of <u>General Motors</u>. The sale encompassed all construction equipment

from Massey. It was then purchased by <u>Case</u> Corporation in 1997. [30]

In 1994, Massey Ferguson's worldwide holdings were purchased by the United States–based <u>AGCO</u> <u>Corporation for US\$328 million in cash and \$18 million in stock. [31][32]</u>

In August 1996, Varity merged with <u>Lucas Automotive</u> to become <u>LucasVarity</u>. After a series of mergers and takeovers, the remains of LucasVarity were acquired by the United States company <u>TRW</u> in 1999 for US\$6.53 billion. [33]

AGCO ownership

While Massey-Ferguson had a strong global presence at 20% market share in 1994, it sold 87% of its machines outside North America. [31] The acquisition by AGCO had the aim to increase AGCO's global presence outside North America and increase Massey Ferguson's presence inside North America. In 2008, the 8600 series became the first agricultural tractor world-wide to feature Selective Catalytic Reduction emissions technology branded as e3. [34]

In June 2012, the facility in <u>Jackson, Minnesota</u> was expanded to start building Massey Ferguson and comparable AGCO "Challenger" models for the North American market. Since production began at AGCO Jackson, the facility has produced "7600" series and "8600" series Massey Ferguson tractors for the North American market. Production at the Jackson facility also included the 7700, 8700, 7700S, and 8700S Massey Ferguson tractors.

In January 2020, AGCO announced the expansion of its factory in <u>Beauvais</u>, France. After the expansion, the factory will cover a total area of 54 ha and employ up to 2,500 people. New Massey Ferguson models will be designed, built, and tested in the factory. With the completion of this factory expansion at the Beauvais location, the production of the 7700S and 8700S models in Jackson ceased and returned to Beauvais only in the year 2022 as the new expansion is expected to fulfill global demand for those high-horsepower tractor models. The move was made by AGCO's management due to the increased demand for the company's self-propelled application equipment and <u>Fendt</u> track tractors which are produced at the location in Jackson.

Since AGCO acquired the company, there has been a resurgence and expansion of the Massey Ferguson brand worldwide. Row-crop tractors have continuously been produced in the <u>Beauvais</u>, France factory since 1960 and in June 2022, the 1,000,000th tractor was produced bearing the Massey-Ferguson brand. The first tractor model from the Beauvais plant was an 825 and the millionth tractor was an 8S.305 with Dyna-VT transmission. [36]

Equipment offerings

Massey Ferguson offers the following types of equipment with different regional availability throughout the globe:

- Compact Tractors
- Utility Tractors
- Mid Range Tractors
- High Horsepower Tractors
- Hay Tools
- Planting Equipment
- Combine Harvesting Equipment
- Self-propelled sprayers
- Telemetry Systems [37]
- Replacement Parts and Maintenance Kits [38]

Overview of tractor models

Massey Ferguson developed a wide range of agricultural vehicles and have a large share in the market across the world especially in Europe.

Beginning in December 1957, the MF35 which was the first Massey Ferguson branded tractor rolled off the factory floor. It was a Ferguson design that started its life in 1955 as the Ferguson 35, often nicknamed "Gold Belly" due to the gold engine and gearbox. The 35's were massively popular and sold across the United Kingdom, Australia, Ireland and the United States. These were followed by other early models like the <u>65</u> (MK1 indirect injection) and 65 (MK2 direct injection).



A Massey Ferguson 35

Starting in 1964, the next big selling model was the MF135 which became widely popular because of its reliability and power compared to other tractors at the time. This was the first model in the MF 100 series. These included the MF 130, 133, 135, 145, 148, 150, 158, 165, 168, 175, 178, 180, 185 and 188.

In 1969, the MF 1000 series was introduced. This model lineup included the MF 1080, 1100, 1130 and 1150.

In 1971 the first articulated tractors were introduced: MF 1500 and 1800. The smaller MF 1200 (1972) was built in Manchester for the European market.

In 1977, the MF 500 series was introduced containing the models of 550, 560, 565, 575, 590, 595 (500 series).

From the mid-1970s and early 1980s came the 200 series tractor, which included the MF 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 278, 280, 285, 290, 298, 299.

In the mid-1980s, the short-lived 600 series was released. This included the 675, 690, 690T, 695, 698 and 699. The reason behind poor sales figures was due to unattractive styling and poor ergonomics, with the cab sitting much higher than previous MF tractors. Although the cab did give excellent visibility and a flat floor, being high off the ground meant it was best suited to field operations instead of livestock work. The 600 series was one of the first tractors to offer the user an option to control where the hydraulic fluid should be pumped. By moving a switch situated near the floor of the cab, the user could block off flow to the rear hydraulics and link arms, concentrating the full force of the pump on the front loader if equipped.

In the late 1980s, one of the greatest selling tractors of all time was released- the 300 series Massey Ferguson. Excellent power, simplicity of cab, high range of gears and components made the MF 300 series a success especially in <u>Europe</u>. The range included the MF 340, 350, 352, 355, 362, 365, 372, 375, 382, 383, 390, 390T, 393, 394, 395, 398, 399 and 399T (the most powerful and popular <u>Massey Ferguson 399</u>) with horsepower ranging from 45HP to 104HP. The 300 series was also offered with a choice of cab, Hi-Line or Lo-Line. The Hi-Line cab featured a flat floor whilst the Lo-Line cab had a hump in the middle for the transmission tunnel. Some 'original' examples of the lower horsepower 300-series have been known to fetch prices exceeding £20,000 because of their rarity.

In the mid-1990s, the 6100 series and 8100 series were released including the 6150, 6180 and 8130.

Tractors that came after the 300 series included:

- the 4200 range, the 4300 range, 3600 (early 1990s)
- 3000/3100 (early to mid-1990s)
- **3005/3105 (mid-1990s)**
- 6100 (late 1990s), 6200 (late 1990s/early 2000s (decade))
- 8200 (late 1990s/early 2000s)
- **5400**, 6400, 7400, 8400 (2004-2007)
- 5600, 6600, 7600, 8600 (2009 to 2014)
- **5700**, 6700, 7700, 8700, (2014-2018)
- 3700, 4700, 5700, 6700, (global series) 5700S, 6700S, 7700S, and 8700S.



Massey Ferguson MF 6290 tractor towing a grain trailer

In the 2000s, the Massey Ferguson range included the 8600 series (limited markets), 5400 (limited markets), 5700S, 6700S, 7700S, and 8700S series tractors. New generation AGCO Power engines 8700 S Series provided levels of torque and horse-power unsurpassed in conventional tractor design, from the minimum of fuel. AGCO POWER 6 cylinder 8.4 L engines generated power from 270 to 405 hp. [39] (AGCO Beauvais France) Massey Ferguson tractor production factories also built tractors marketed by AGCO under the "Challenger" brand, and also specific model ranges for Iseki.



Massey Ferguson 8740 S in Austria

In July 2020, Massey Ferguson launched the change of the tractor lineup, starting with the 8S Series that replaced the 7700S range. [40]

In 2021, more models were launched. In January, the 5S Series^[41] and in September the 6S Series and 7S Series. This change also brought a new model numbering. For example, an MF 5S.105 – the "5S" stands for the series and the last three digits stands for the maximum power. [42]

In 2022, Massey Ferguson presented the new compact tractor 1700M Series and the new specialized tractor 3S Series. [43]

At Agritechnica in November 2023, Massey Ferguson announced the release of the 9S series, ranging in power from 285 to 425 horsepower. [44]

Product images



Ferguson 40



Massey-Harris Clipper Combine c. 1950



Massey Ferguson 35 (American type)



Massey Ferguson Super 90 Diesel



Massey Ferguson 165



Massey Ferguson 124 Small Square Baler



Massey Ferguson Model 560 Combine Harvester



Massey Ferguson Model 38 Combine Harvester in UK



Massey Ferguson 860 Combine



Massey Ferguson MF 698



Massey Ferguson MF 3660



Massey Ferguson MF 8732



Massey Ferguson 8S.225

Former logos









In use 1890-1958

In use 1946-1951

In use 1958-1970

In use 2002–2021

Massey Ferguson is the most widely sold brand of agricultural machinery in the world. The brand designs were licensed to a variety of companies including:

- Algerian Tractors Company Licensee in Algeria
- Industry of Machinery and Tractors Licensee in Serbia
- Millat Tractors Licensee in Pakistan
- Tractors and Farm Equipment Limited (TAFE) Licensee in India

See also

- Dynashift
- <u>Liberty Village</u> area where Massey Ferguson had a plant is now a residential neighbourhood with the company's head office building at 915 King Street West still standing (by E. J. Lennox, George M. Miller, c. 1885-1914) as Massey Harris Lofts.

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