

CLAYSON

FROM A MODERN FACTORY

Being a factory specializing in threshing machines for some sixty years, it has been essential to follow closely the modern evolution of agricultural mechanization.

Contact with enterprising and exacting customers the world over has enabled us to obtain the solution to harvesting on the most rational lines.

After a close study of harvesting problems, the combine harvester emerged as the only machine for agricultural mechanization on large and medium sized farms.

The firm of Werkhuizen Leon Claeys was the first in Europe to take the initiative and specialize in this field and the quality of its products has always justified their customers' confidence.

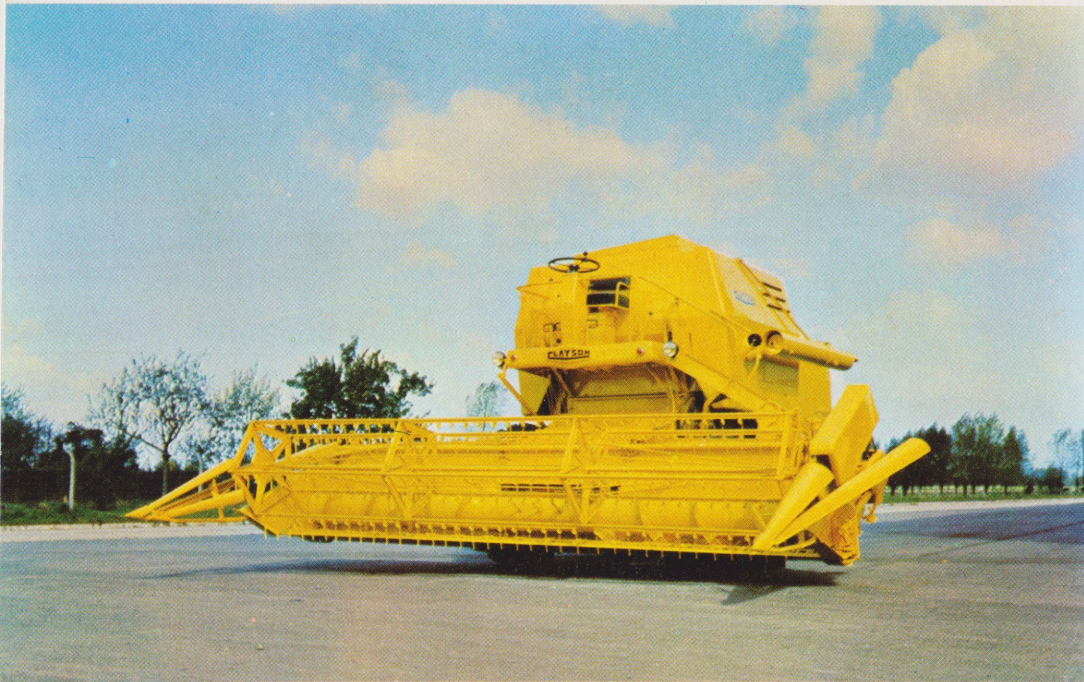
There is no doubt that the robust construction, the simplicity and high output of the revolutionary M103 machine are the reasons for the enormous expansion of this ultra-modern firm.

« Alertness to the problems of the evolution of harvesting » is still the motto of the firm. The vitality, flexibility and understanding of 3,000 workers are the guarantee for the designs which meet present day requirements and will meet the needs of the future.

Successful advertising of a new machine is only possible if it justifies its introduction and existence by solving your problems :

- to harvest all kinds of grain at the desired time.
- to organise your business on efficient lines.
- labour is becoming scarcer and more expensive.
- maximum output and economy.
- the existence, continuance and expansion of your activities in the new fields of agriculture.

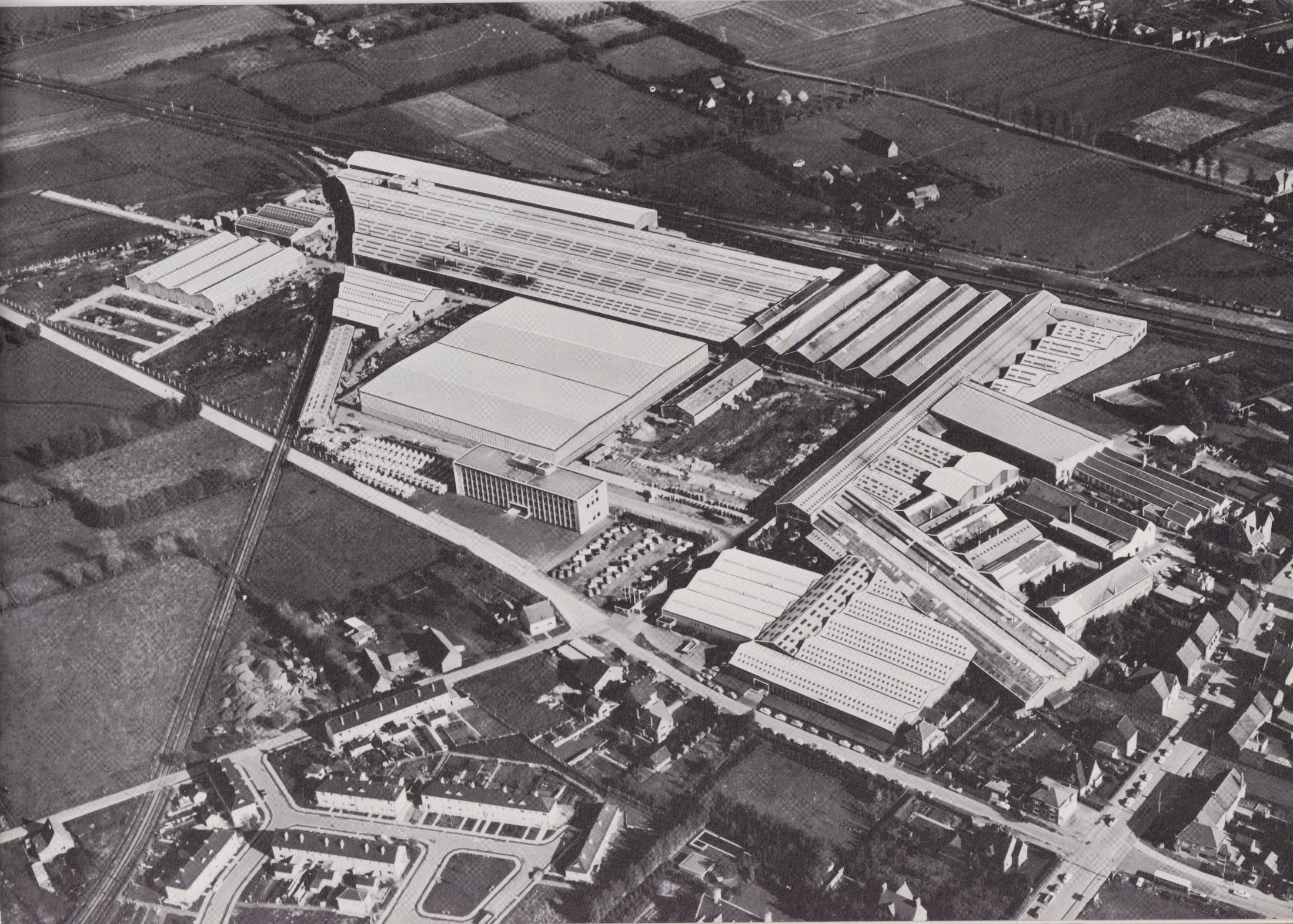
The solution is within your reach :



M 140

A MODERN COMBINE HARVESTER

Armada





ELEGANTLY

From his driving position, with a perfect all-round view, the driver has full visibility over the work carried out by the giant combine, whose controls are in his hands.

The illustrations show clearly one of the great new machines of our times.

COMFORT OF THE DRIVER

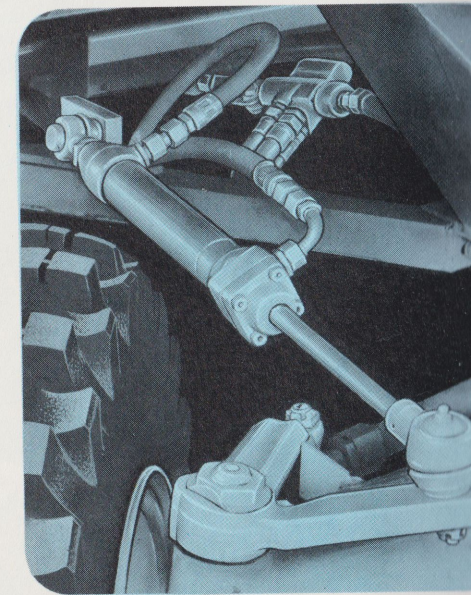
The location of the driver's seat in the centre of the machine gives him a full view over the whole of the machine and perfect control over the work.

He is protected from any dust, and the power-assisted steering and disc brakes are an indication of the amazing ease with which it is driven. Due to the underslung construction of the Armada, the centre of gravity is very low.

With hydraulic control from the driving seat and all controls centralised in a well designed instrument panel, the driver is assured of safety and extremely pleasant working conditions. The revolutionary appearance of the Armada emphasises its undeniable power and capacity. Its modern lines are functional and at the same time meet the requirements of efficient harvesting also ensures unflinching stability.

Provided with an easily dismantled cutter bar, the normally required width of which is 4.2 and 5.4 m. (14' and 18') this machine possesses an extraordinary capacity. This giant harvester, of surprising mobility, has proved it can, depending upon the nature of the crop and the size of the fields, reach output figures of 12,000 kg/h.

After having seen and operated such a machine, it is not surprising that the agricultural world continues to be astounded at the untiring effort extended in scientific research into harvesting which justifies and explains the outstanding products offered to you by the true specialists in high efficiency machines.....



CLAYSON

FOR HIGH OUTPUT



CLAYSON

Armada

TECHNICAL PERFECTION BACKING A HIGH OUTPUT WITHOUT FATIGUE



CLAYSON

MODERN - COMFORTABLE - ECONOMICAL



New in concept

with all the factors of a long experience

Impressive appearance

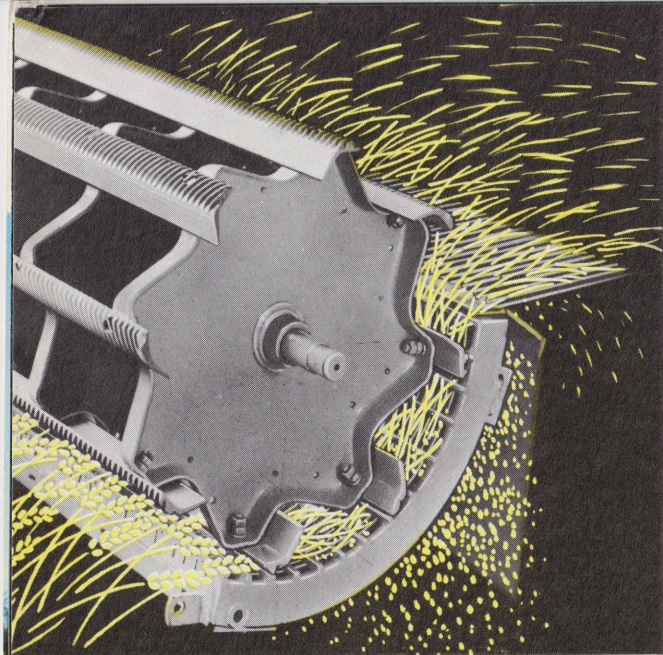
with surprising mobility

Robust construction

with outstanding simplicity

Incredibly high output

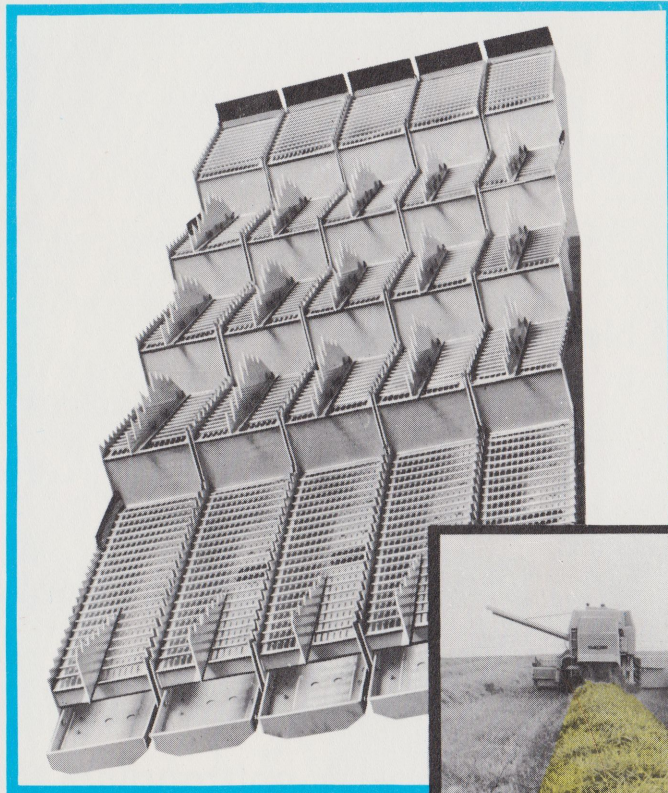
confirming the good name of the make



HIGH THRESHING CAPACITY

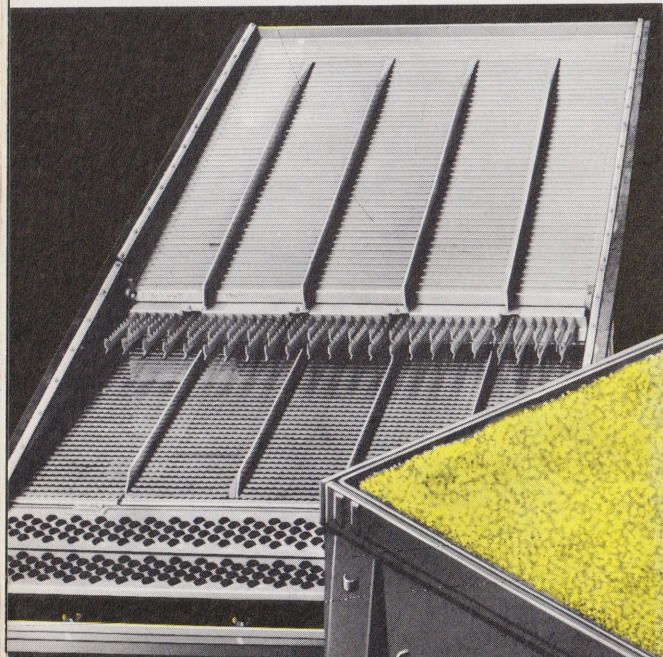
The large diameter threshing drum with eight robust rasp bars gives an extraordinary high output. Perfectly balanced to prevent any vibration while the machine is operating. The concave with 14 bars ensures the separation of about 92 % of the total grain (depending upon the crop). A stone trap is fitted to protect both the threshing drum and the concave. The awning device is extremely simple and very effective.

ECONOMY



PERFECT CLEANING

The high speed shaker shoe with a large sieve surface area guarantees a clean and marketable grain sample. Both the upper and lower sieves are adjustable.



NO LOSS OF GRAIN

The 5 independent straw walkers mounted on two crankshafts running in ball bearings have an extensive separation surface area. The different levels and the sieves ensure maximum grain recovery both under normal and wet conditions. The amount of straw discharged per hour is truly remarkable.



REEL SPEED VARIATOR

The cutting table fitted with hydraulic regulator and speed regulator on the pick-up reel is controlled from the driving seat position. The auger equipped with silent retractable fingers and instantaneous adjustment of the various reaping mechanisms ensures perfect harvesting of all cereals.

Armada

M 140

THRESHING DRUM SPEED VARIATOR

The speed of the threshing drum can be adjusted from 400, to 1100 r.p.m. with the aid of a speed variator controlled from the driving seat position. The setting is not affected by and does not vary with the load on the drum. The principle of this variator is very simple and therefore there is practically no wear. The drive is direct and soft. All threshing speeds are provided for, even for very fragile grain or seeds.

FAN SPEED VARIATOR

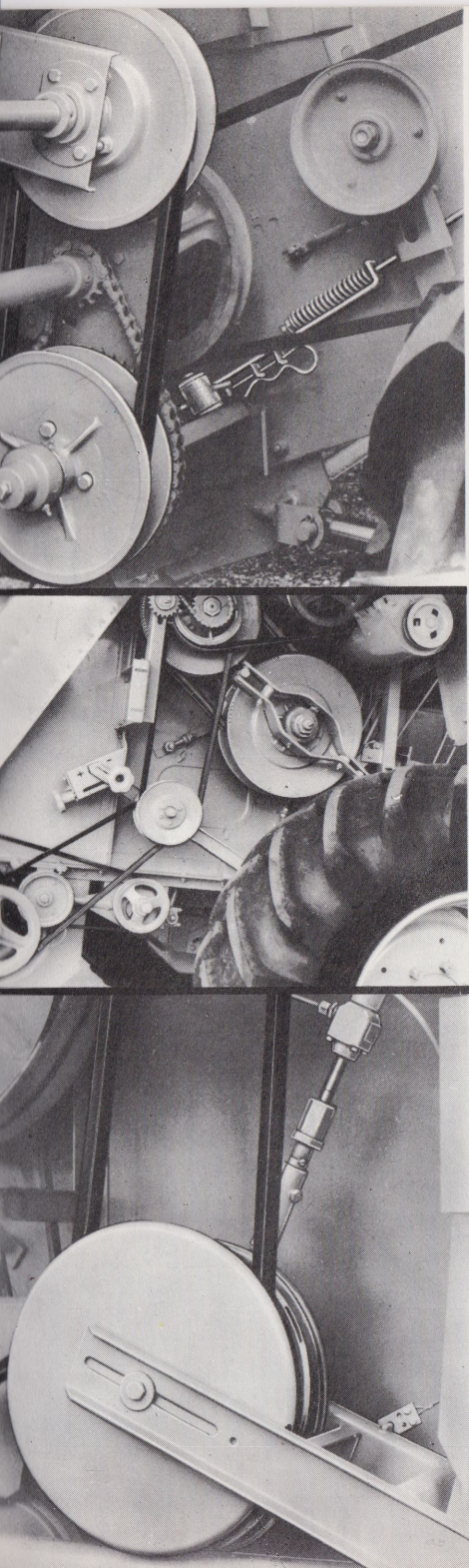
The speed and direction of the powerful fan are adjustable, ensuring perfect cleaning under all conditions.

GROUND SPEED VARIATOR

Operated by a hydraulic pump and ram, it provides infinite variation of ground speeds. With the very powerful diesel engine, the independent disc brakes, the dry plate clutch, the simple and robust transmission and power assisted steering, driving is perfectly safe and comfortable in all kinds of harvesting conditions.

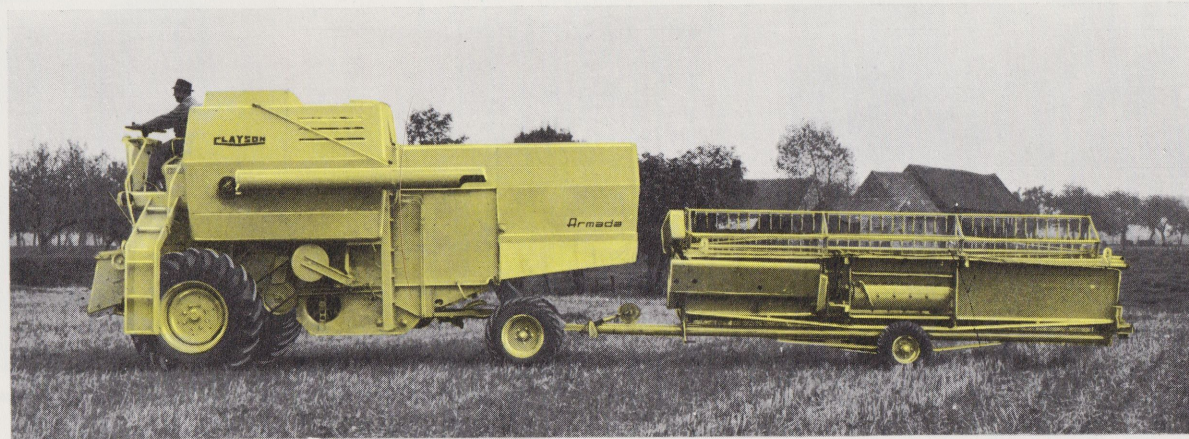
COMFORT

SUPERIOR OUTPUT COMBINED WITH TECHNICAL PERFECTION



INDUSTRIALIZE

AGRICULTURE



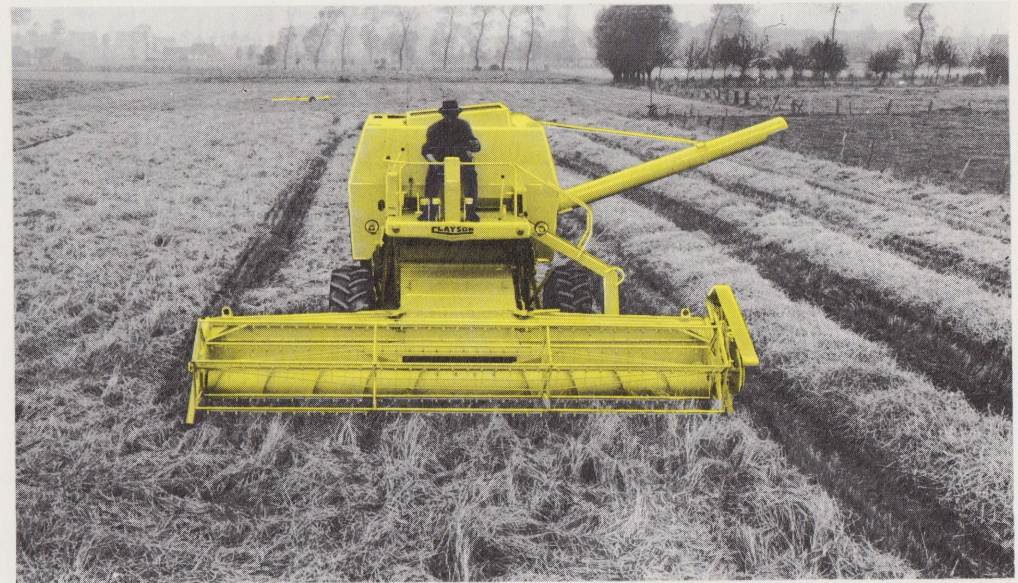
THE
SOLUTION
TO
ALL
YOUR
HARVESTING
PROBLEMS

SAFETY

To make sure of the highest output you must have perfect safety in the field. The strong, simple construction, the various safety clutches, minimum maintenance and technical perfection are no longer sufficient in themselves. The comfort of the driver and the efficiency in the field are increasingly influenced by transport problems on the road. Take no more risks, use the full capacity of your machine.

One more innovation from the LEON CLAEYS factory :

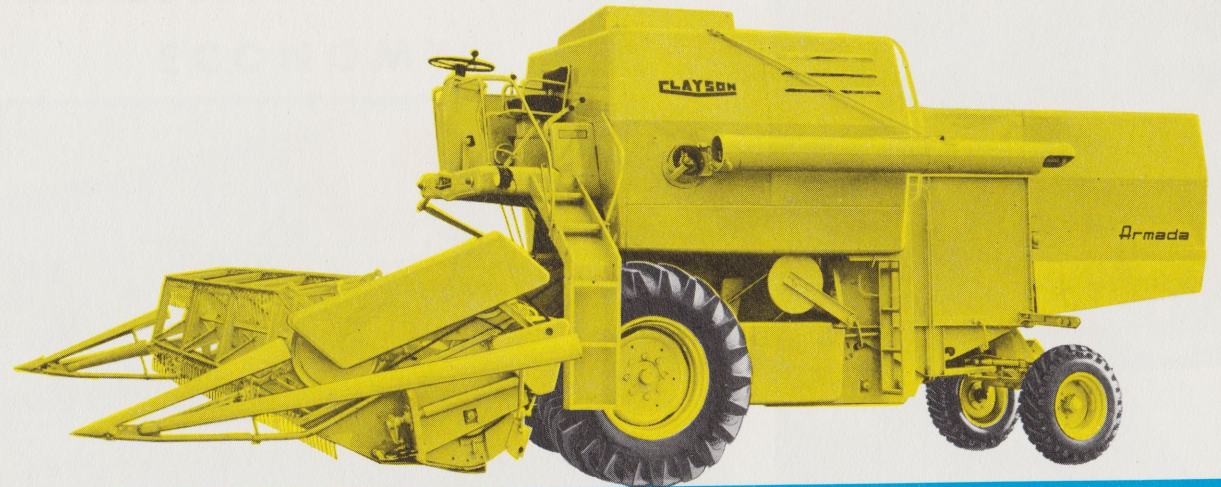
- maximum width for the road — 3 metres overall
- time taken to prepare for working :
± 5 min
- labour required — one man — the driver!



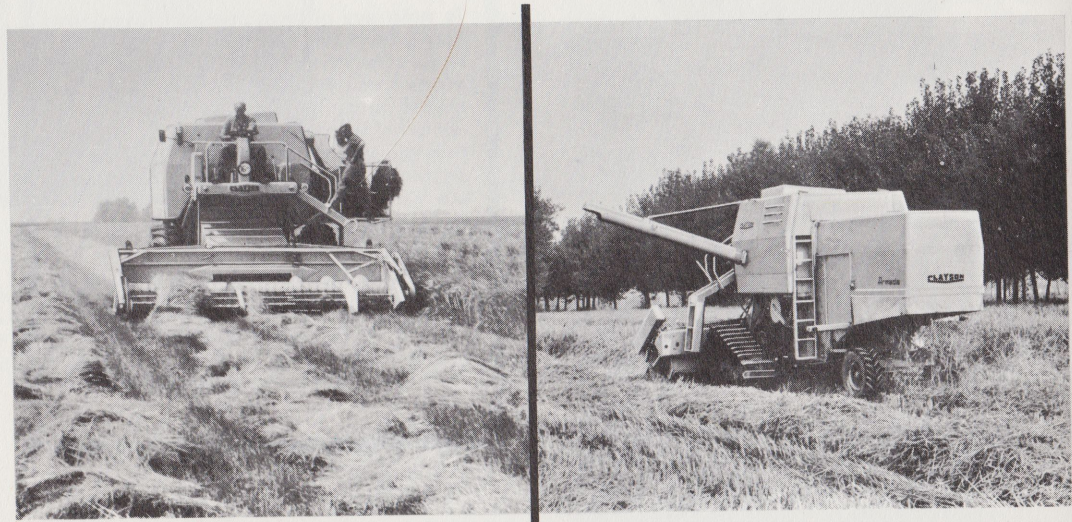
UNDENIABLY - THIS IS VITALLY IMPORTANT



THE GIANT IN MAIZE



POWERFUL, MODERN, RELIABLE AND ... MULTI-PURPOSE



THE KING IN THE FINE SEEDS

UNRIVALLED IN THE RICE



GENERAL FEATURES OF THE « ARMADA » MACHINE — TYPE 140

CUTTER BAR

Width of cut : Standard : 4.20 m (14').
Special model : 5.40 m (18').

Adjustable dividers.
Cutting height : 5 cm to 1.20 m (2 in to 3 ft. 11¼ in).
Lifting gear : hydraulic.
Automatic adjustment on uneven ground surface.
Auger mounted in sealed bearings.
Floating type conveyor chain.

PICK-UP REEL

Type : Spring tines ; angle mechanically adjustable.
Speed adjustable by mechanical regulator controlled from the driving position.
Lifting gear : hydraulically controlled.

THRESHING DRUM

Diameter : 600 mm (24").
Width : 1285 mm (50½").
Number of rasp bars : 8.
Speed adjustable : 400 to 1100 r.p.m.
With mechanical speed regulator controlled from the driving position.

CONCAVE

Number of bars : 14.
Separation capacity : ± 92 %.
Instantaneous adjustment from the driving position.
Fitted with stone trap.
Very simple and effective awning device.

STRAW WALKERS

Number : 5, with an enormous grain recovery capacity.
Crank Shafts : 2, mounted on ball bearings.
Separation length : 4.075 m (13'4½").
Maximum length of straw walkers : 3.60 m (11'9¾").
Width : 1.285 m (4'2½").

CLEANING

Upper sieve adjustable.
Lower sieve adjustable.
High efficiency fan, with easy mechanical adjustment of output ; direction adjustable.

UNIVERSAL TRACTION SYSTEM

Tyres : 15 x 30 — special type pneumatics.

Brakes : 2 independent disc brakes.
Regulator : hydraulic.
Parking brake : disc type.
Track width : adjustable by reversing the wheels.

GROUND SPEED

On 15 x 30 tyres

1st: 1.5 - 3.6 km/h (0.93 to 2.2 m.p.h.)
2nd: 3.5 - 8.0 km/h (2.1 to 4.96 m.p.h.)
3rd: 8.5 - 19 km/h (5.2 to 11.7 m.p.h.)
Reverse : 3.4 - 7.1 km/h (2.1 to 4.4 m.p.h.)

On tracks

1st: 0.70 - 1.70 km/h (0.4 to 1.05 m.p.h.)
2nd: 1.65 - 3.80 km/h (1 to 2.3 m.p.h.)
3rd: 4.00 - 9.00 km/h (2.4 to 5.5 m.p.h.)
Reverse : 1.60 - 3.50 km/h (0.99 to 2.1 m.p.h.)

Tolerance : ± 10 %.

STEERING

Hydraulic power assisted steering.
Tyres : 10 x 18 AM.
Ball bearing mounted wheels.
Turning radius : about 1.70 m (5'7") by using the brakes.

ENGINE

Diesel : 105 h.p., high efficiency air filter.
Engine speed : ± 2280 r.p.m., mechanical regulator.
Fuel consumption : ± 10 - 12 litres/h (2 to 2.5 gallons/h).
Fuel tank capacity 180 litres (40 gallons).
Battery : 12 V — 120 amp/h.
No noise for the driver.
Very accessible and well protected.

GRAIN TANK

Capacity : 2650 litres (73 bushels).
Filling : completely by levelling auger.
Emptying : by auger which is rapidly retractable horizontally height above ground ± 3.00 m (4.2 m) (9'10" — 13'9") and 3.30 m (5.4 m) (10'10" — 17'8½").
side clearance : ± 1.65 m (5'5").
Emptying while stationary or on the move.
Simple design.
High speed emptying: (depending upon the nature of the crop) ± 1 min.
Uniform load level distribution at all times.

DIMENSIONS

Overall width with cutter bar :
Standard model : 4.53 m (14'10½").
Special model : 5.75 m (18'10½").
Overall width : without cutter bar : 3.00 m (9'10").

Length: 8.80 m (28'10½") (Adjustable dividers always removed when on the highway).
Height : 3.20 m (10'6").
Wheelbase : 3.73 (12'3").
Track width : (Standard model) 2.45 m (8'0").
Weight in working order with driver :
with 4.20 m (14') cutter : 5.350 kg. (11,794 lbs) (5 ton. 5 cwt. 1 qr. 6 lbs)
with 5.40 m (18') cutter : 5.460 kg. (12,039 lbs) (5 ton. 7 cwt. 1 qr. 27 lbs)

SPECIAL EQUIPMENT

- Sunshade — with telescopic device for covering the tank.
- Straw spreader.
- Toothed threshing drum and concave.
- Tracks.
- Canvas pick-up, width 3.20 m (10'6").
- Toothed pick-up, width 2.30 m (7'6").
- Equipment for threshing grass, clovers, rape and other fine seeds.
- Corn harvesting equipment.
- Clock, area meter, linear meter.
- Trailer for movement on the highway in accordance with the road and traffic regulations.

OUTPUT

Depending upon the crop, size of fields and work organisation, up to 10,000 kg/h.

COMFORT

- Central instrument panel, ultra-modern, panoramic, incorporating a tachometer showing the operating speed of the whole of the thresher, an indicator showing the positions of the variators.
- Rapid attachment of the cutting table allowing the driver to change from road position to working position in ± 5 min.
- Complete safety : electrical equipment, safety clutch, simple construction, minimum maintenance.
- Minimum fatigue : spacious adjustable seat, convenient driving position, no dust, perfect visibility and control over the operation of the whole machine.

Above specification details are liable to modification without previous notice.

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