McCORMICK
INTERNATIONAL

8-5

$11,000
£ 5,500
$ 5000
£ 2,500

HEADER HARVESTER

Pioneer of harvesting machinery, International Harvester has used its experience, extending back for over one hundred and thirty years, to develop a completely new self-propelled Header Harvester.

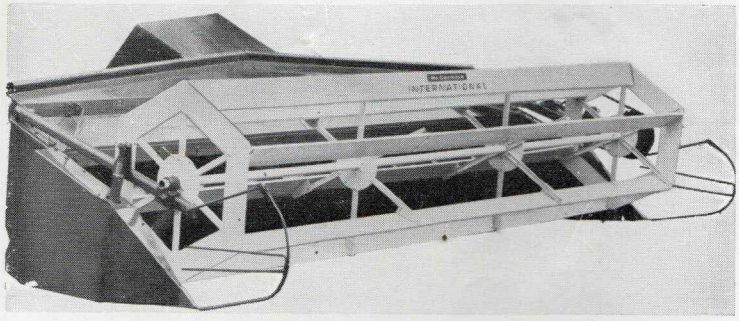
The Australian-built 8-5 introduces capacities undreamt of by the inventor of the original repear in 1831 and capacities that will surprise even today's users of modern equipment. The 8-5 is designed for fast crop harvesting and big financial returns.

Wide fronts, big capacity elevators, concaves and straw walkers all contribute to quicker, more efficient grain collection. Three-point separation makes the most of every kernel, almost eliminating wastage of precious grain to give you maximum return from your crop.

During its journey through the 8-5, material is given the gentlest handling so that the grain tank is filled with grain of the highest quality—the quality you expect from a McCormick International Header. Even the reticent can boast when they own the new 8-5—the Header which leads the way in speed and efficiency.

CHOICE OF FRONTS

to suit your crop



The 8-5 front consists of one basic design to which is attached a front rail. To this rail either long comb fingers or short mower guards are built to make up a comb front or an open front, depending on the application for which it is required. This dual-function design is an exclusive IH feature.

COMB FRONT

14 foot or 16 foot comb fronts can be used, both employing the latest design of comb fingers. These are gently curved and fitted with full width ledger plates. As a result, you are able to operate this header at higher ground speeds and yet maintain minimum grain loss. The curved fingers allow grain heads to be gently lifted where they hang down instead of being snatched by straight fingers. Also they can be spaced at any interval to suit varying crop conditions.

One of the most important features accounting for the capacity of the 8-5 is that which enables you to adjust the roller to any setting. This allows for maximum control of straw intake. The straw is rolled away from the knife, ensuring the correct amount of material and the best length for perfect threshing. Overloading of the machine is also prevented.

A small diameter reel positions the crop over the knife for correct cutting and ensures positive delivery of cut crop to the auger—a big advantage during high speed operation. Two operating speeds (100 r.p.m. or 123 r.p.m.) are a feature of the reel and, as these are changed to increase crop feeding, so auger speeds automatically increase to match. You can select the most suitable for prevailing crop conditions and so prevent blockage. The reel has fore and aft and vertical adjustment.

OPEN FRONT

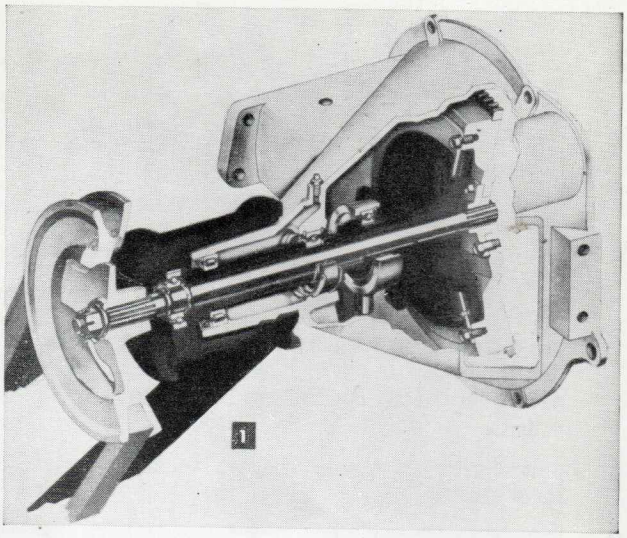
Your 12, 14 or 16 foot open fronts use time-proven forged steel mower guards with replaceable ledger plates. Spaced at three inch intervals, these give clean cutting and the best gathering of all grain.

Strong reel supports and three-quarter inch bats stand up longer to heavy work. Reel hubs are so drilled as to allow you to fit four or six bats and their angle is also adjustable. A slip clutch protects it from overload.

The reciprocating knife is driven by a bell crank through a ball and socket joint. You can adjust the knife for wear and register without any difficulty and it is easily removed when eventual replacement becomes necessary.

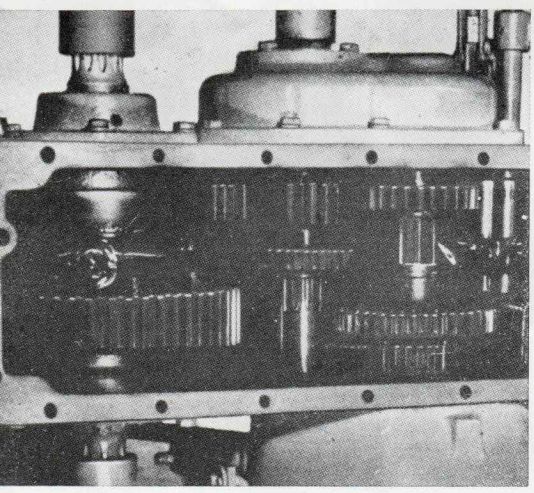
A deep set 18 inch auger handles your heaviest crops. Its large diameter and big four inch flights prevent wrapping and allow quick movement of large quantities of crop onto the platform. You can adjust the auger's height to suit different applications.

RUGGED DRIVES



master the toughest harvests

Extra strength, from knife drive to main propulsion drive, lets you make the best use of the extra power in the 8-5 Header. Cast iron pulleys last longer . . . give the belt a better grip. Cylinder and beater shaft bearings are bigger, self aligning and pre-lubricate. There's more strength in the transmission and clutch. Bigger belts meet the demands of faster harvesting.



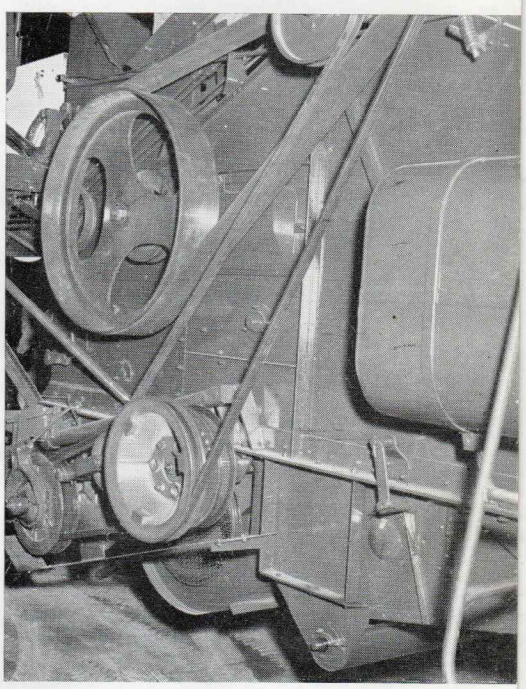
Heavy duty transmission and clutch can really take big header power. Roller bearings are used at heavy load points. Specially hardened gears last longer. Three gear ratios, plus variable speed drive give a complete range of speeds from 1 to nearly 15 m.p.h.

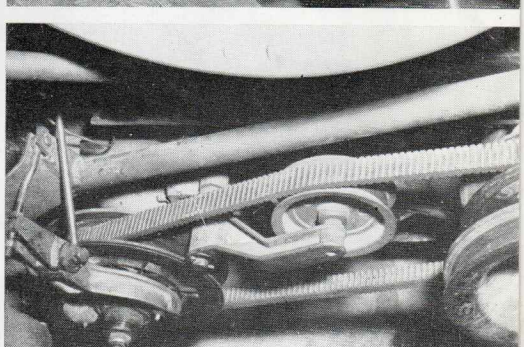
1. Overcentre disc clutch engages separator drive. This means that the drive belt no longer must serve as a clutch. You'll get no belt slip on starts . . . no belt drag on stops. There's less chance of "throwing" a belt, no belt "burn" during transport. You'll benefit with positive control of separator drive, plus longer belt life.

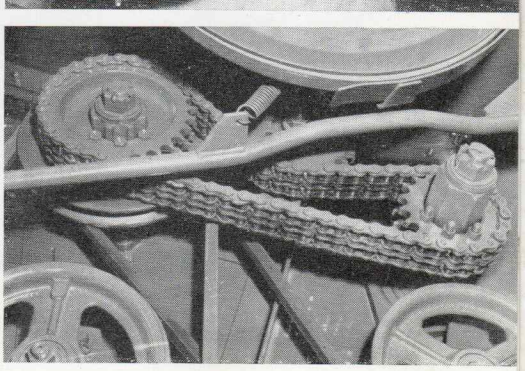
2. Power-boosting pulley. Added weight (about 200 lbs.) of cast iron separator drive pulley gives a flywheel effect that adds power when power is needed most. Chances of slugging the cylinder are cut. Shock loads on belt drive and engine are reduced. The grey iron surface gives a higher coefficient of friction that means less chance of belt slip . . . less chance of the belt running off the pulleys . . . and longer belt life.

3. Rugged propulsion drive. Big, 14 inch diameter, variable-pitch sheaves are hydraulically actuated and mechanically linked. Hydraulic power opens one while closing the other. Other systems require the belt to wedge open a spring loaded pulley, or to wedge a floating centre section to one side; in both systems, belts are always pinched. No wonder IH belts last longer.

4. Roller chain cylinder drive gives positive speed ratios. Idler sprocket, drive sprocket and driven sprocket all interchange for different speed settings. There's no 'V-belt wedging' at the low r.p.m. needed for beans or corn.

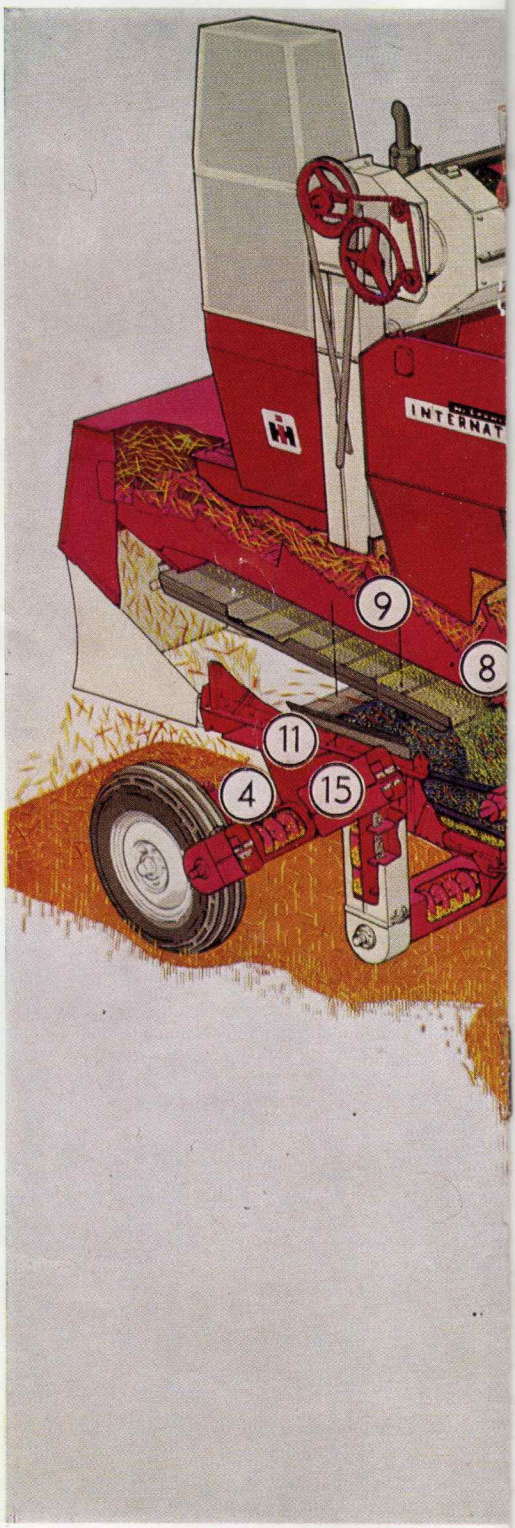




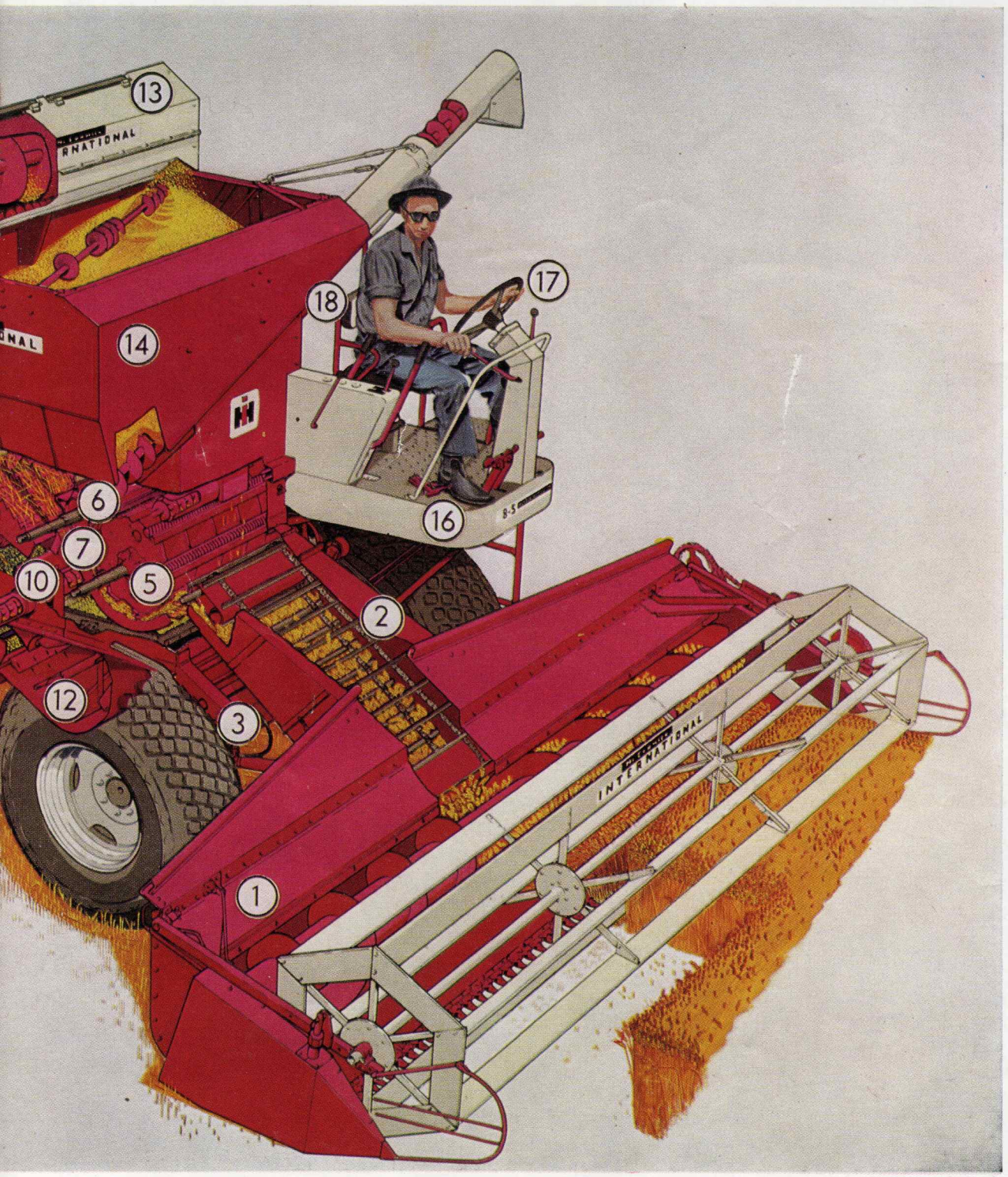


LOOK CLOSELY THIS HEA

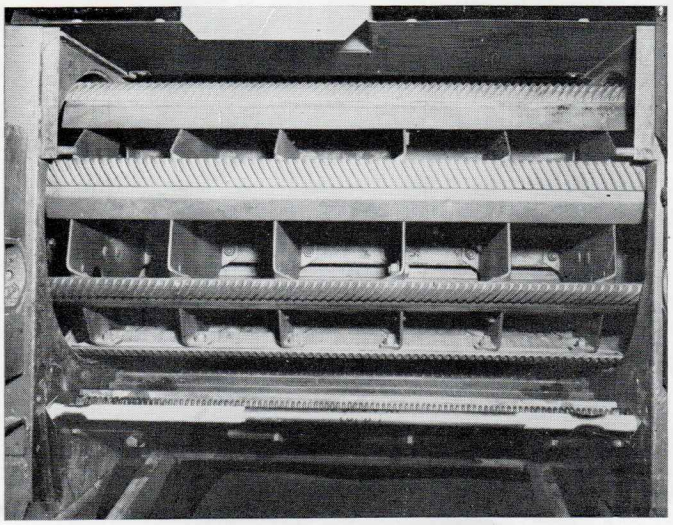
1. Basic front design can be fitted with open or comb fronts. On a comb front, the roller is fully adjustable to allow control of straw intake. The open front uses strong reel supports and offers an option of four or six $\frac{3}{4}$″ bats.
2. Self-adjusting cut crop elevator employs rugged steel slats on two roller chains.
3. Robust steel frame holds all bearings in rigid alignment. Extra strength steel channel sections carry two ton grain tank loads with ease.
4. Rear axle is an all-welded box type construction tapered to provide maximum strength in the centre.
5. Rub bar drum extends into two side plates which allow full width threshing and eliminate the need for deflector shields. Additional strength is contributed by double skin side plates which help maintain perfect alignment of the drum and concave.
6. Cylinder beater of six blade star design works against an adjustable finger grate to knock out loose kernels carried over with straw from the drum.
7. The 8-5 has a rake separating area of 350 sq. ins. Drum repeat is prevented by a delivery beater located immediately over the curved fingers.
8. An all-steel grain pan receives grain from the front end of the straw walkers as well as that separated by the concave and separating rake. Wash board design delivers measured quantities to the riddles to prevent overloading.
9. Newly-designed straw walkers have three steps built in to retard the flow of straw and give maximum separation on the front walker.
10. Two flexible check flaps also slow down movement of the straw, allowing more time for grain separation.
11. The riddle box is a one piece, all-steel construction mounted on self-lubricating bushes. Rubber sealing strips on front and sides prevent grain loss and escape of dust. Total cleaning area amounts to 3,528 sq. ins.
12. Big "high wind" volume cleaning fan features a special volute casing and variable drive. An adjustable direction baffle ensures precise delivery of wind to the riddles.
13. Rotary screen is standard equipment. The internal auger is 3″ smaller in diameter than the screen, which allows grain to be thoroughly agitated before being conveyed down the screen.
14. The 72 bushel grain tank is centrally situated for even weight distribution.
15. The tailings return elevator uses roller chains and rubberised flights. The auger discharges into the centre of the threshing drum from where it is spread out evenly across the full width of the concave.
16. An offset operator platform keeps you away from dust and chaff and puts you close to the edge of the crop for precise cutting. You can see past the grain tank for on-the-go unloading or checking traffic on the road.
17. Hydrostatic steering eliminates complicated linkages and cables.
18. Smart upholstered seat reduces fatigue and allows you to work in comfort throughout the day.



DER STANDS ALONE



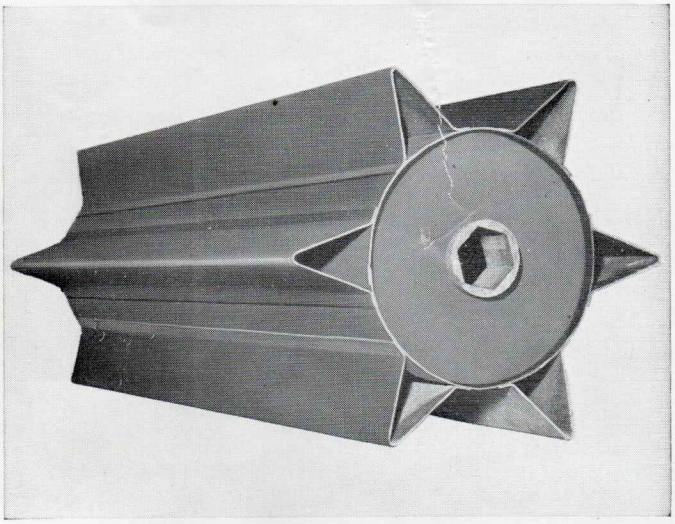
3-POINT GRAIN SEPARATION



1.

Full width threshing by the rub bar gives bigger capacities because the action takes place across every inch of the separating width. Concave bars extend from one side plate across to the other and the long drum rasp bars pass through the plates into a recess on each side. This eliminates the need for the usual deflector shields employed to prevent wrapping around the drum shaft and guard against unthreshed heads passing the drum.

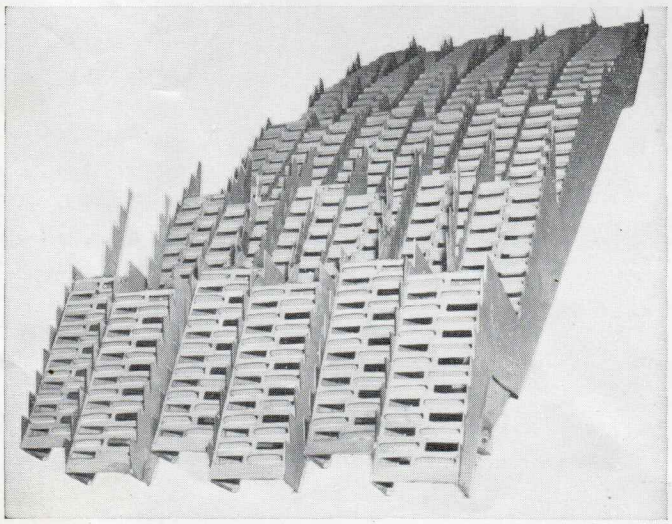
"On-the-go" concave adjustment allows you to alter the drum-to-concave setting to meet changing field conditions without leaving the control platform. This is done with a lever alongside the seat and, because it has a high hinge point, the rear opening is changed at the same time as the front. This is true "on-the-go" adjustment. Wire spacings can also be varied on the concave to suit crop types and conditions.



2.

A major IH exclusive feature is the second separating area which comprises a cylinder beater of six-blade star design, working against the adjustable finger grate. Loose kernels of grain are knocked out after being carried over with the straw from the drum. The beater also has a stripper which deflects the straw to the front of the walker, preventing carry-over and drum repeat in heavy, tangled crops.

The separating rake, copied in many competitive machines, has an area of 350 sq. ins. and the curved fingers of the rake pass the straw straight on to the walkers. The delivery beater, positioned immediately over the fingers, prevents drum repeats and, because of its design, deflects grain through the centre of the rake. This second stage separating area is the secret of the 8-5's operating speed.



3.

Completely redesigned straw walkers enable the machine to handle large quantities of straw in heavy crops. To give maximum separation on the front walker, three steps have been in-built. These retard the flow of straw and consequently increase separation. By making the grain, straw and cavings walk up a ramp before dropping onto the next one, grain is shaken from the cavings and blanketing of the walkers is prevented.

The straw walker crank bearings are opposed at 180 degrees to give maximum agitation and straw movement. With the back of the walkers so designed that the straw is moving horizontally and not up an incline, packing up of straw at this point and poor separation are eliminated. 114 inch overall length and two different speeds make these walkers more efficient than ever before.

SPECIFICATIONS

ENGINE:

6 cylinder, valve-in-head, petrol.
Model 6-281.

Horsepower	85
Bore, ins.	3 3/16
Stroke, ins.	4 1/8
Piston displacement, cu. ins.	281
Governed speed (no load), r.p.m.	2,600

CAPACITIES (approx. Imp. measure)

Cooling system, pts.	26
Engine crankcase pan, qts.	7.5
Fuel tank, galls.	36
Air cleaner oil cup, qt.	1
Hydraulic system, qts.	9
Transmission and differential, pts.	13.25
Final drive housings (each), pts.	7.5
Straw walker drive gearbox, pts.	1.5

FRONT

Highest cutter bar position above ground, ins.	36
Lowest cutter bar position below ground, ins.	2
Open front cutting width, ft.	12-14-16
Comb front cutting widths, ft.	14 and 16
Knife speed, strokes/min.	517
Knife guards (open front), straight	3" spaced

FRONT AUGER (open and comb front)

Diameter, ins.	18
Speed, r.p.m.	150 and 184

REEL

Number of bats	6
Type of bats	Adjustable pitch
Speeds (open front), r.p.m.	18, 22, 27, 31, 38, 41, 51
Speeds (comb front), r.p.m.	100, 123

FEED ELEVATOR

Type	Undershot, slatted conveyor
Width, ins.	36
Speed of conveyor drive shaft, r.p.m.	352

SEPARATOR

Threshing section width, ins.	36
Separating section width, ins.	44

THRESHING DRUM

Type	Rub bar or peg tooth as ordered
Diameter, ins.	20
Width, ins.	38
Number of bars—rub bar	8
peg tooth	10
Speed, r.p.m.	608-1,188

STRAW WALKERS

Number	6
Length, ins.	100
Type	Rotary at front, pivot at rear
Separating area, sq. ins.	5,440
Speeds, r.p.m.	180 or 220

FAN

Type	6 blade
Speed (variable), r.p.m	600-900
Grain tank capacity, bushels	72
Seconds tank capacity, bushels	4 1/2

Unloading auger:

Diameter, ins.	10
Clearance under delivery spout, ins.	124

Driving wheels:

Tyres	14.9 x 26 — 6 ply or 16.9 x 26 — 10 ply or 18.4 x 26 — 10 ply
Tread, ins.	93

Ground speeds, m.p.h.:

1st gear	1.0-2.6
2nd gear	2.3-5.7
3rd gear	5.9-14.5
Reverse	2.4-5.9

GENERAL DIMENSIONS

Wheelbase	9' 11"
Turning radius	16' inside driving wheel
Length overall	22' 6"

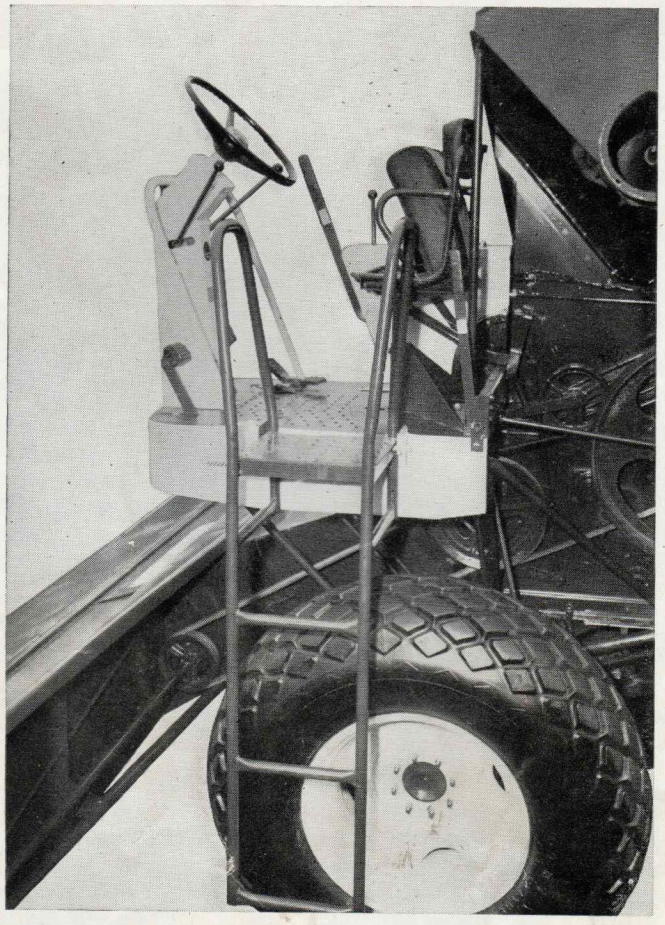
Width with unloading auger:

Operating	22' 8"
Stored	17' 5"
Height overall with screen extension	13' 11"
Weight with 18.4 tyres, lbs.	9,016
16' front and elevator with comb	2,212
Total (approx.)	11,228

RPM Figures are based on Governed Engine Speed.

Specifications subject to change without notice.

CONTROLLED IN COMFORT

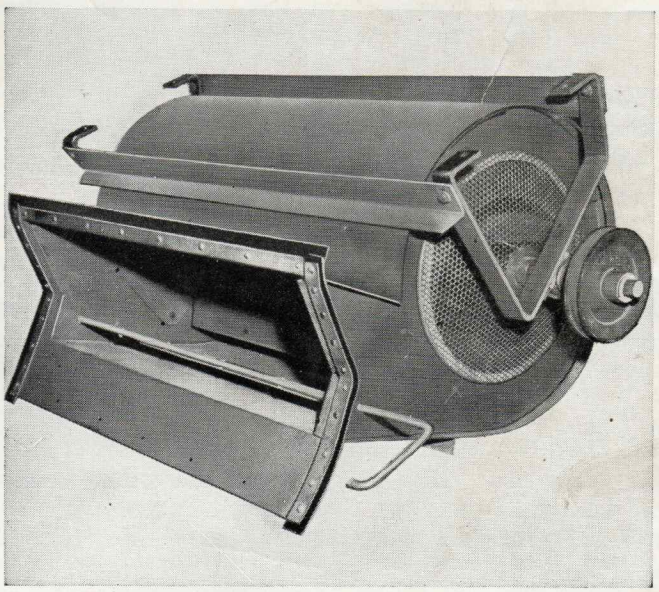


The 8-5 operator's platform is offset to the left to keep you away from the dust and chaff and to enable you to position the machine so as to obtain precise, full swath cutting. You can also see past the grain tank for on-the-go unloading or to check overtaking traffic when travelling on the road. Additionally, you are able to see both attaching points for the front elevator at once and vastly easier access to the drum from the front is another feature. Hydrostatic power steering, by eliminating steering linkage cables and complex right-angle turns, makes the manoeuvring of this big machine precise and effortless.

The smart black and white upholstered seat, with fore and aft, or up and down, adjustment, and the angled steering wheel help to make this the most comfortable platform you have ever seen. Controls are easy to reach and easy to use.

A big IH six cylinder petrol engine develops 85 horsepower at 2,500 r.p.m. and is the finest power unit to be found in today's headers. Excellent torque characteristics give these engines good lugging ability and prevent the need for high r.p.m. Slower piston speeds mean longer life to cylinders, rings, bearings and valves. Big displacement engines hold their power for hundreds of hours. Above all, the engine is mounted right up on top of the header in cleaner, cooler air, away from the dust. This reduces the possibility of overheating and lessens fire hazard.

Variable Speed Fan



A big, new, "high wind volume" six-bladed cleaning fan features a specially designed volute casing and variable speed drive. These provide the right volume and distribution of air.

Extensive laboratory tests were conducted until the results of experimenting ensured the distribution and velocity of air remained stable over the speed range of the fan. Thus efficient cleaning of all crops results.

Additionally, an adjustable direction baffle in the throat of the fan ensures delivery of wind to the riddle surface as required. Further control is provided by the use of side shutters at the fan inlet. Conical, perforated rotating shields cover the fan inlets to prevent the entry of flag and straw, so maintaining a blast of clean air to the riddles.

The riddle box is of one piece, all steel construction, driven by a "V" belt and mounted on self lubricating bushes. The grain pan extends three inches over the front of the riddle so that the chaff and grain is delivered further onto the working area of the riddle. This eliminates the possibility of grain or chaff falling back into the fan or clean grain auger. The grain drops into the full blast area of the fan.
Another important feature is a rubber sealing strip around the sides and front of the riddle box. This prevents grain leakage and the escape of dust.

INTERNATIONAL HARVESTER COMPANY OF AUSTRALIA PTY. LTD.

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"YOUR PARTNER IN PROGRESSIVE FARMING"

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