

2nd Edition

CASE[®]
**MULTI-CROP
COMBINES**

660

10 / 13 / 14-Foot Self-Propelled / 2 and 3-Row Corn Heads



40-INCH

threshing-separating lets you

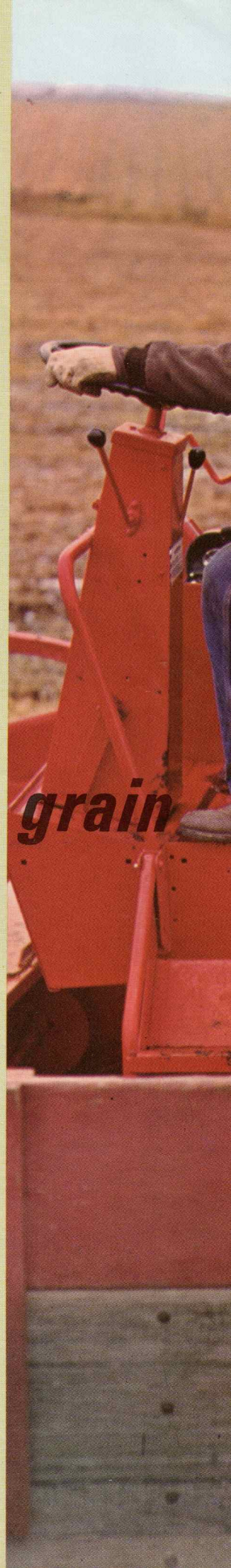
...harvest more and cleaner grain

**yet it costs you no more than
many 26 to 30-inch machines**

When the crop is ripe, you want all the speed, power and clean grain you can get. Nothing less than the 40-inch threshing-separating capacity of the new Case 660 Multi-Crop. Yet with its greater power and many new features, it's priced far less than the 30-inch machines — and about the same as 26-27 "inchers."

Clean grain demands this big capacity — Case 40-inch cylinder, 4,480 square inches of separation area, 2,830 square inches of cleaning area. Multi-Crop versatility and capacity to spread your investment wide — over corn, beans, grains and grasses. Choice of 10, 13, 14-foot grain headers, 2 or 3-row corn head.

Now you get more than ever at the low Case price. Big 201 cubic inch Case gasoline engine that develops 65 hp, 35-gallon fuel tank that lasts all day. New optional variable-speed cylinder drive . . . remote control of reel and pickup speed . . . telescoping steering column. High-capacity top-driven 5-inch clean grain elevator. All-steel cleaning shoe. Flip-back comfort seat. New, sturdy sheet metal adds strength and rugged new styling. Get all the facts — see the new 660 today.





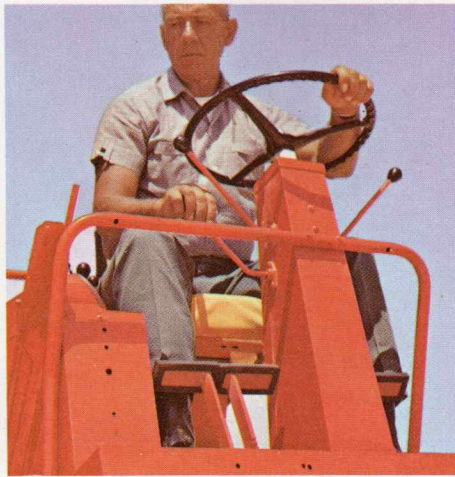
BE CAREFUL



these time-saving features



Hydraulic header control. This lever adjusts header height from 2 $\frac{3}{8}$ inches below to 32 $\frac{1}{2}$ inches above ground level.



Hydraulic reel lift (optional) helps get all the grain — tall, short, standing or lodged. Helps keep the cutterbar clear, too.



Remote control of reel speed attachment lets you match reel or pickup speed to conditions precisely from the driver's seat.



Save extra bushels at the header

Try the 660 in heavy going. Watch that heavy, 12-gauge sickle *knife* through heavy stalks at 500 strokes per minute. Slimlined forged steel guards penetrate easily. Special hold-down chaffer plates at each section heel assure precision alignment for clean cutting.

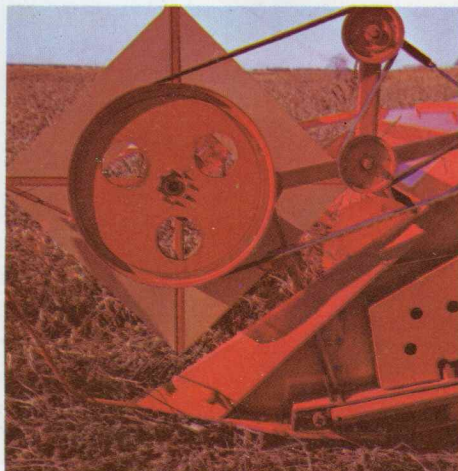
You'll save grain with the variable-speed reel that adjusts easily for speed, height, position. Or with optional remote control of reel and pickup speed from the driver's seat. Drives are all on the left side — can't tangle or shatter uncut grain.

The large 20-inch retracting finger auger handles tall, slick material smoothly. It adjusts for height to handle heavy or light material . . . for speeds of 134, 170, 197 rpm. The floating feed rake adjusts to crop volume automatically . . . has heavy steel slats, rugged heavy duty roller chain.

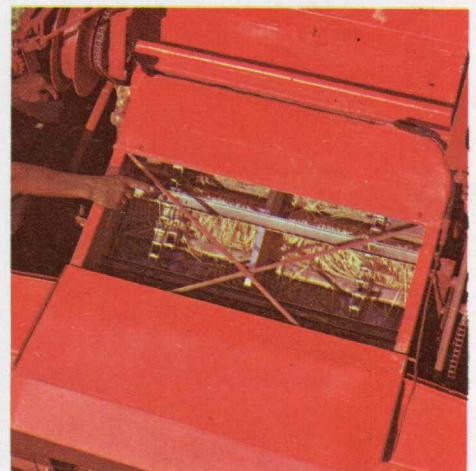
add bushels to the bin, too



Header throughput lever stops or starts cutting-feeding mechanism . . . helps stop foreign objects, helps feed bunched windrows evenly.



Left-hand header drives prevent uncut grain from tangling with the drives, avoids shattering unthreshed heads.



40-inch wide feeder provides elbow room to thin out heavy crops. Heavy duty roller chain means longer wear, less maintenance.

big, heavy, 40-inch-wide cylinder

saves time and crop

The Case 660's rub bar or spike tooth cylinder has the extra weight and momentum to carry it through heavy slugs without losing threshing speed. Heavy yields that pass through the cylinder and concaves in a 40-inch flow have a chance to thin out. *Less* material is threshed at any one point than with smaller 26 or 30-inch machines. Result: fast, even threshing with minimum power and maximum under-cylinder separation at the big 440-square-inch effective concave grate area.

Positive chain drive provides speeds from 387 to 1265 rpm (standard) and from 229 to 1465 rpm (optional). Optional variable-speed V-belt drive lets you change cylinder speed from the driver's seat as crop and moisture conditions change. Deep sump stone trap and other attachments are available for edible beans, clover, alfalfa and corn.

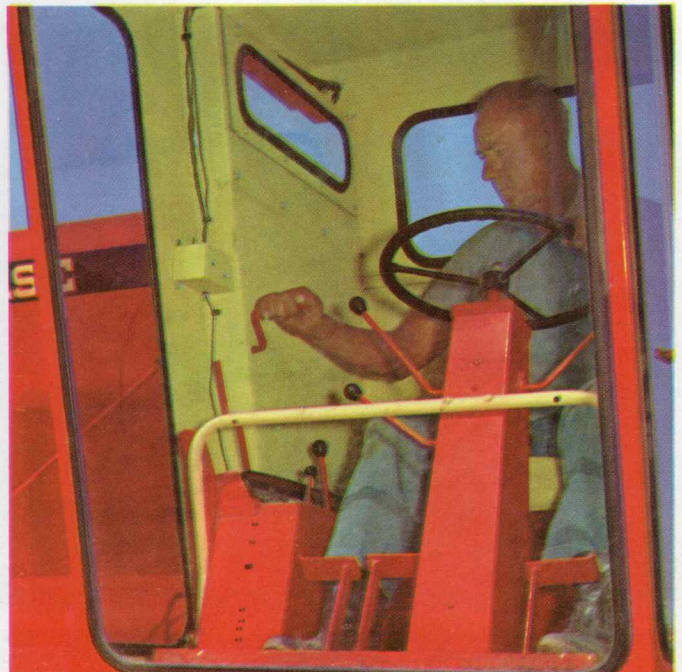


On-the-go control of cylinder speed, concave clearance

With driver-seat control of cylinder speed* and concave clearance, you're in the seat to stay — *harvesting* — not climbing up and down ladders. Case owners say they get an extra hour or more of harvesting capacity per day . . . maintain top threshing efficiency all day long without stopping for adjustments. They're in the field earlier, work later if necessary . . . make all adjustments on-the-go as the crop dries in the morning or toughens in the evening.

No need for poor samples due to improper or compromise settings. No skinned knuckles from stubborn sprockets or pulleys. No time-wasting chain splitting. No more ladder climbing. Just a steady stream of clean grain all day long!

*Optional.



Adjusting cylinder speed. Tachometer tells you the exact speed.

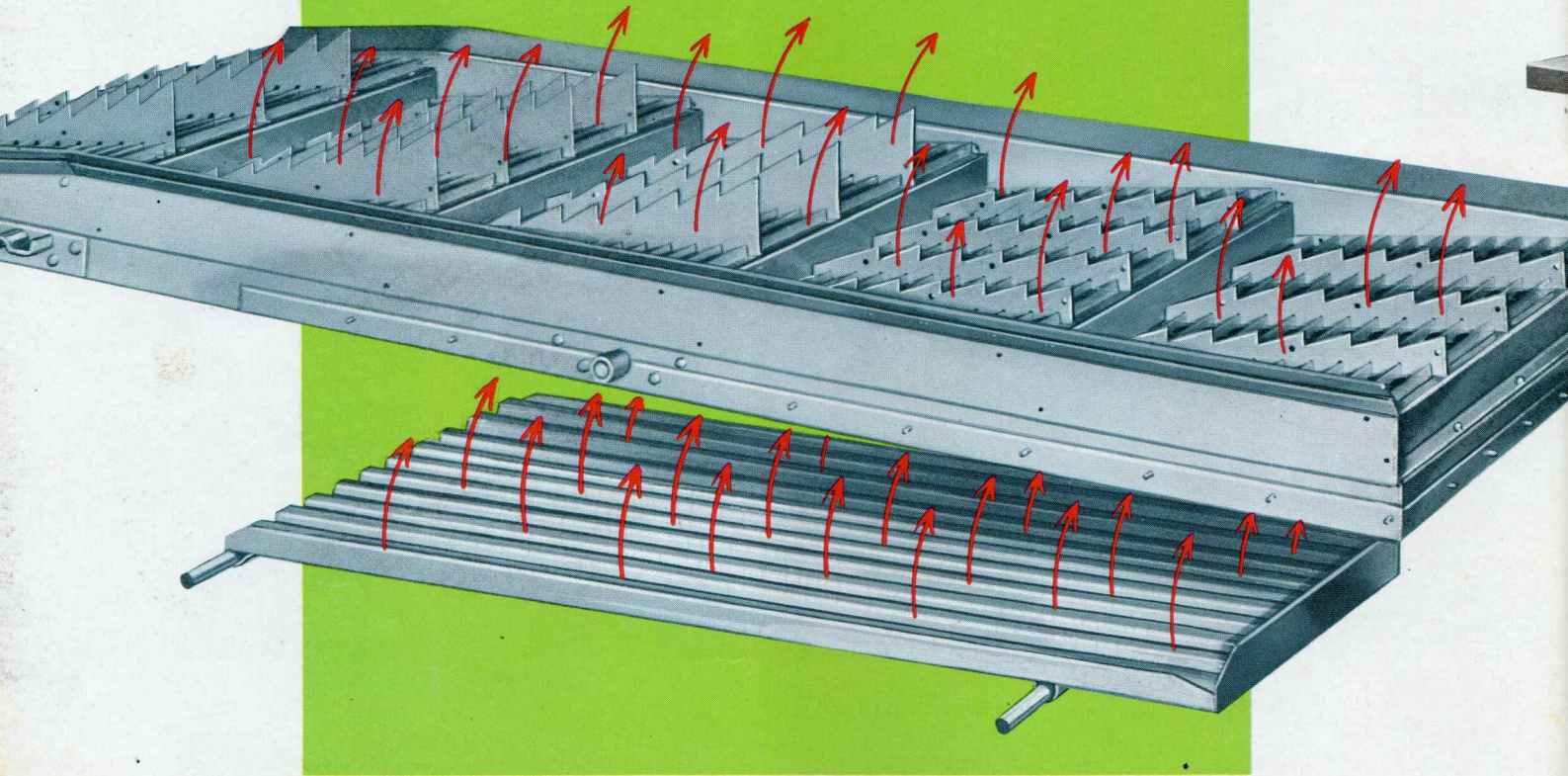


Adjusting concave clearance.
Gauge shows the exact clearance.



Checking tailings. Just flip up
the door at your right elbow.

... Makes your one chance for clean



air-lift action

Crops keep a thinner, more open flow over the full-width 40-inch separation area. There's "elbow room" to handle more grain. 4,480 square inches of separation area working with revolutionary "air-lift" design provides tremendous separating capacity — perfectly matched to 40-inch threshing. Straw rack risers increase separation efficiency.

The channeled return pan catches the grain separated on the rack, carries it forward to the front of the chaffer sieve. As rack and pan move forward, they converge toward each other. This synchronized action creates a bellows, which forces air up through the straw rack. The lighter straw and chaff float on a blanket of air, the heavier grain falls through. Channels prevent grain from piling up on one side of the return pan while operating on sidehills. An optional corn rack or grid covers take the abrasive action of corn.

grain count more



big sieve action

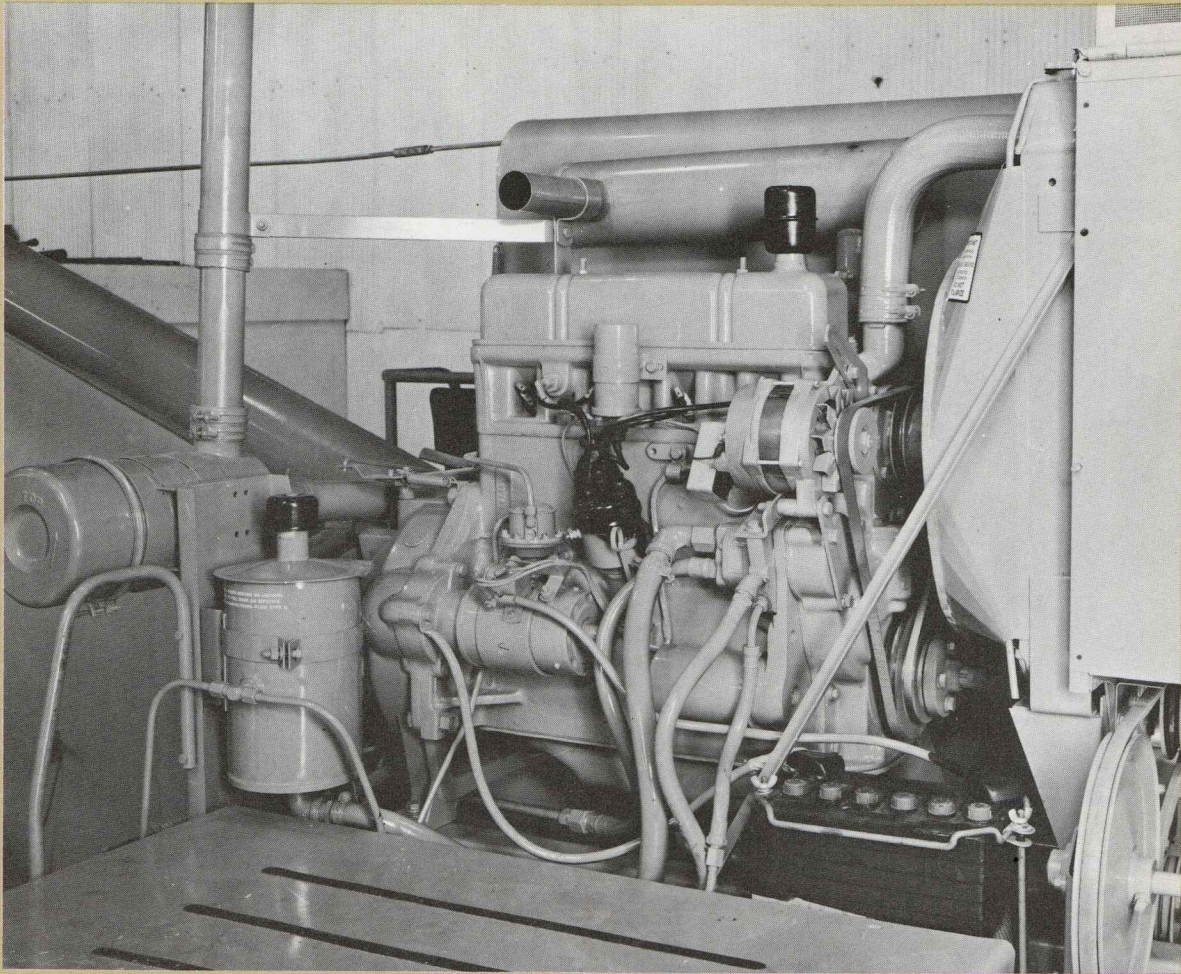
The Case 660 has a big 2,830 square inches of cleaning area to handle today's heaviest yields — and put an extra clean sample in the bin. Threshed grain from the return pan is delivered to the front of the cleaning shoe. Threshed grain separated at the cylinder drops into a corrugated pan and is conveyed back to the shoe.

Simple lever controls at the rear of the combine give complete and precise adjustment of each sieve, individually. Sieves are durable all-steel construction. Fixed-hole sieves are available for special crops and conditions.

The large diameter variable-speed fan keeps constant air pressure under the full length and width of the sieves. There's no need for windboards or fan blinds — helps avoid trouble from side winds. Controlled updraft keeps sieve openings clear, floats lighter chaff and dirt away while heavier kernels fall free and clean.

The variable-speed fan adjusts easily from 350 to 800 rpm to suit crop and field conditions. Just tighten or loosen a nut on the drive sheave.

Big power, time-saving convenience help



big 201-cubic-inch tractor-tough engine

This 65 hp Case tractor engine is designed for maximum leverage — *high torque* — to take you through the tough spots without slowing threshing speed. Big bore, long-stroke power that ties into heavy crops, weedy conditions, soft ground. The result is *steady* combining—less downshift-

ing — that eats up the acres, adds extra bushels of clean grain every hour.

Long-life features include: aluminum pistons, wet-type cylinder sleeves, pressure lubrication and a rugged counterbalanced crankshaft. A Case diesel is also available. Alternator is standard equipment.

Full-capacity speeds. The 660's heavy duty transmission is specifically designed for self-propelled combine use. Three forward speeds from .87 to 13.8 mph, plus one reverse, coupled with a hydraulic-controlled variable-speed drive provide an infinite number of speeds in each gear range. This makes it easy to choose the right gear. First gear (see chart) provides "creeper" range for soft spots, heavy or down crops. Second gear lets you combine all day under normal harvesting conditions without shifting.

SPEED RANGE CHART				
GEAR	5 MPH	10 MPH	15 MPH	
1	.87 to 2.7			
2	2.1 to 6.3			
3				4.5 to 13.8

you do a better job

convenient controls

Up here you're the boss! You can see where you're going, what you're doing and where you've been. You can quarter ridges, dodge obstacles — skim off heads or follow contours as easily as you drive your car.

Maneuvering is easy — especially with turning brakes and a 90-inch turning radius . . . and with hydrostatic power steering that gives you the same help even when the engine is idling. The 660 maneuvers like a polo pony because its rugged "unit design" provides plenty of strength without excess weight to bog you down in soft fields.

A new instrument panel makes the gauges easy to read. Hydraulic levers are handy. A telescoping steering wheel (optional) matches your height sitting or standing. Other controls have been positioned with you in mind . . . to save time and muscle . . . to get the job done faster.

1. Variable-speed drive control
2. Header height control
3. Clutch pedal
4. Brake pedals (turning brakes optional)
5. Header throwout
6. Threshing throwout
7. Gear shift
8. Instrument panel
9. Unloading lever
10. Starting controls
11. Lights (optional)
12. Throttle lever
13. Tailings check door
14. Concave adjustment
15. Stripper bar adjustment*
16. Snapper roll adjustment*

*Furnished with corn head attachment.



Extra bushels, cleaner samples in all

The Case 660 Multi-Crop combine is right in there pitching from early grain to late corn. Handling heaviest yields *efficiently* with big 40-inch capacity. Paying you big dividends in extra bushels, cleaner samples. Spreading your harvesting investment over several major crops.

In corn, soybeans or any row crop, you'll like the light-footed maneuverability for sharp turns, crossing rough headlands, waterways or potholes. You'll like its low, compact design. And unit frame — plenty of strength without excess weight. Short wheelbase. Center-mounted engine and grain bin. Precise balance and steering. Correct wheel spacing. Short turning radius.

There's a choice of three grain headers — 10, 13, 14-foot — 2 and 3-row corn heads.* The 13-foot header is just right for any row crop — not too wide, not too narrow. Optional 40 and 66-inch rear axles make steering easy because rear wheels don't follow in drive wheel ruts. The

*2-row corn head takes 38 to 42-inch rows, 3-row takes 28 to 30-inch rows.

66-inch rear axle straddles two rows nicely with the 2-row corn head, the 13-foot header in four wide rows of soybeans or sorghum, or the 10-foot header in four narrow rows. The 40-inch rear axle straddles one row for easy steering with the 3-row corn head, the 13-foot header taking five narrow rows, or the 10-foot header taking three wide rows. For big grain growers, the 14-foot header provides extra cutting capacity.

Big operators will appreciate other 660 conveniences, too. Such as the 80-inch drive wheel tread, 120-inch wheelbase and low profile that permit safe, easy truck loading and fast transport. A header that removes easily onto a trailer, or lift extension that permits carrying the header over most truck cabs. Convenient access doors that make the 660 easy to clean between crops. And fast-unloading discharge auger with extra-long reach to unload into the center of widest truck beds.

16-foot windrows

With big 40-inch capacity, you'll keep up with the big combines handling heavy 16-foot grain windrows. You'll follow windrows easily with the wide draper pickup. You'll match all field conditions with the variable-speed pickup drive. Optional remote control lets you make pickup speed changes from the driver's seat. Header throwout lets you feed bunched windrows evenly.

With the Edible Bean Special (shown at right), 40-inch capacity provides extra gentle threshing. The Special includes a deep sump stone trap, slow speed header and cylinder drives, perforated grain and tailings auger troughs, engine pre-cleaner, sump elevator and straight-through auger or belt unloader attachment to avoid crackage.



crops



grass seed

In rye grass (shown above) the Case draper pickup with flexible frame, runners or gauge wheels saves all the crop in rough terrain. The big 40-inch spike tooth cylinder combs out fine seeds. Optional remote control of pickup speed lets you adjust to changing crop or field conditions instantly from the driver's seat. Special clover and alfalfa concaves, rub bar concave fillers and a deep sump stone trap are available. A slow speed traction attachment reduces travel speed 25%. Fan speed is conveniently adjusted with a variable-speed belt drive. Standard fan speed is 350-800 rpm; exchanging fan and drive sheaves gives a 200-500 rpm speed range. Fan blades are adjustable or removable to cut down wind in combining fine, light seeds.



50-bushel wheat

Whether you windrow or straight combine, big yields are no problem with big 40-inch capacity. And the big 65 hp engine takes hills and soft spots in stride without slowing down threshing speed. Reel or pickup drive has an easily-adjusted variable-speed sheave (standard), or remote control from the driver's seat (optional). On-the-go control of cylinder speed (optional) and concaves lets you match field conditions. Variable-speed fan provides positive cleaning without the guesswork of windboards.

Grain sorghum — a sorghum attachment extends the auger trough floor so sickle and cutterbar can be mounted 10 inches forward. This allows sorghum heads to fall to the floor and feed under the auger. Extra wooden reel bats prevent stalks from hanging on the reel and being thrown to the ground.

125-bushel corn

With a 2 or 3-row corn head on a 660, you can get into the field weeks earlier than with a picker. You harvest at 25 to 30% moisture, often cutting field losses in half. Early combining means fewer fallen ears . . . fewer losses to wind, rain and borers.

Special 660 equipment designed for corn includes: new corn cob mix attachment, cylinder filler plates, straw rack grid covers, rotating fan screen and 10-bushel grain bin extension. A folding ladder is furnished for convenient opening of fields.

The Case corn head has wide gathering points and ground-hugging chains that reach out for down, lodged or elbowed stalks. Ears snap off at stripper bar . . . shanks avoid rolls, prevent butt shelling. You cut shelling losses in half with on-the-go control of snapping rolls and strippers. A multi-luber system saves time in greasing.



CASE

660



**50-
bushel
soybeans
wide or narrow
rows**

From its heavy duty header to its fast unloading bin, the 40-inch Case 660 is geared to today's heavy bean yields and tough, bushy stalks.

Whether you plant in wide or narrow rows, the 10 and 13-foot headers are just about the ideal width. Wide enough to gather down stalks — not too wide. The 10-foot takes three wide or four narrow rows; the 13-foot, four wide or five narrow rows. The 80-inch drive wheel tread fits wide or narrow rows. And you have a choice of either the 40-inch or 66-inch rear axle.

You'll appreciate the fast, clean cut of the heavy duty 12 gauge sickle with special hold-down chaffer plates. The 500 rpm speed with smooth V-belt drive. Left-hand header drives that prevent shattering loss.

The large 20-inch retracting finger auger feeds bushy crops smoothly. The floating feed rake adjusts to crop volume automatically . . . has heavy steel slats, rugged roller chains and anti-wrap drum.

Rubber fighting in the grain elevator provides gentle handling. Header skid shoes, pickup reel, Scour Kleen and straw chopper are available.

Built for more and cleaner grain

A SICKLE. Fast, smooth 500 stroke-per-minute sickle gives fast, clean cutting in toughest crops. Permits field speed to match threshing capacity.

B AUGER. Large 20-inch retracting finger auger handles large volumes of slickest straw, feeds even the longest material smoothly. Slip clutch protects against damage from foreign objects or overloads.

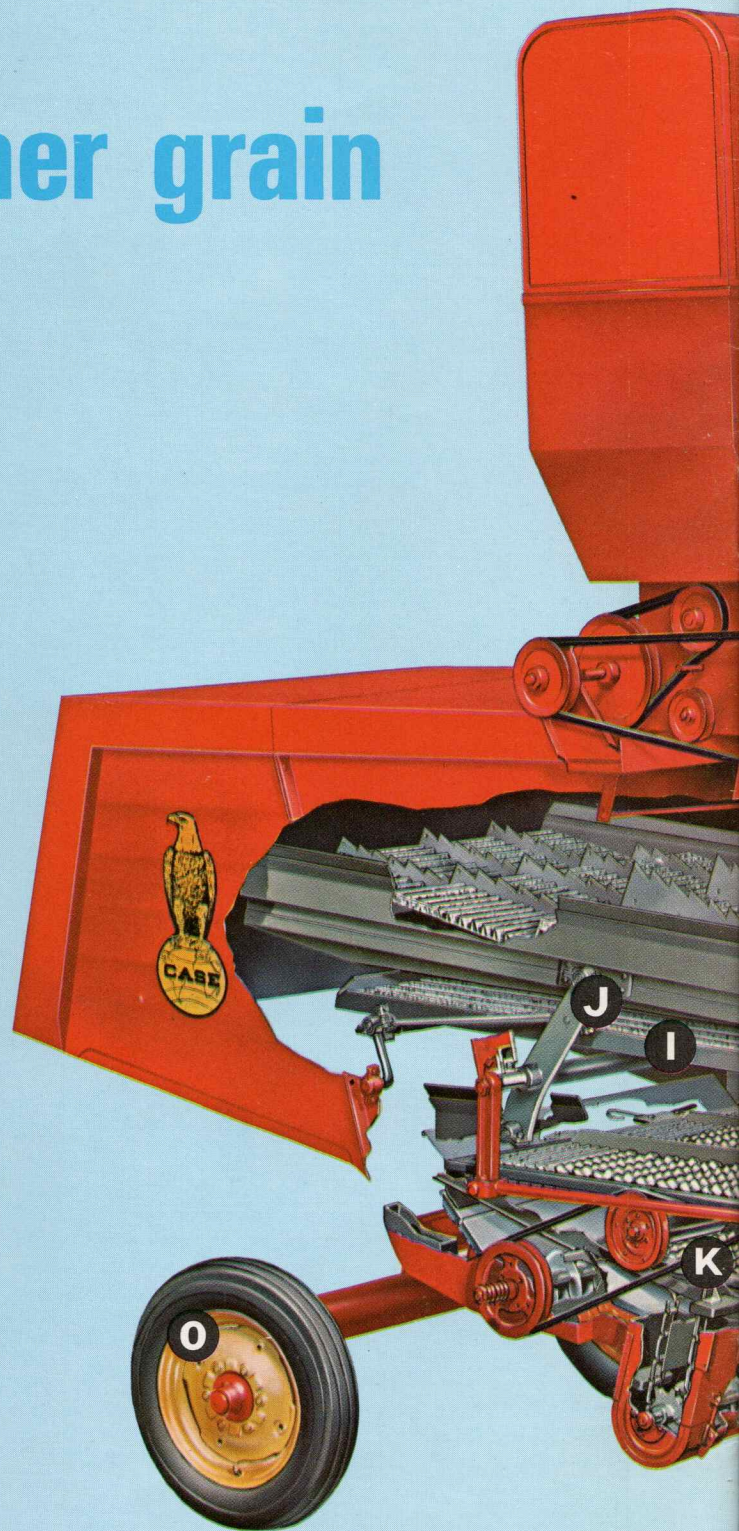
C REEL DRIVE. Variable-speed, adjusts quickly and easily from 19 to 45 rpm (13 to 21 rpm optional) to suit crops. Remote control attachment lets you vary speeds from the driver's seat. Drives are on the left side to avoid shattering standing grain. Hydraulic reel lift available.

D FEED RAKE. Floats up and down to assure smooth, even feeding to the cylinder. Heavy-duty steel roller chain . . . separate V-belt drive protects against shock and overloads.

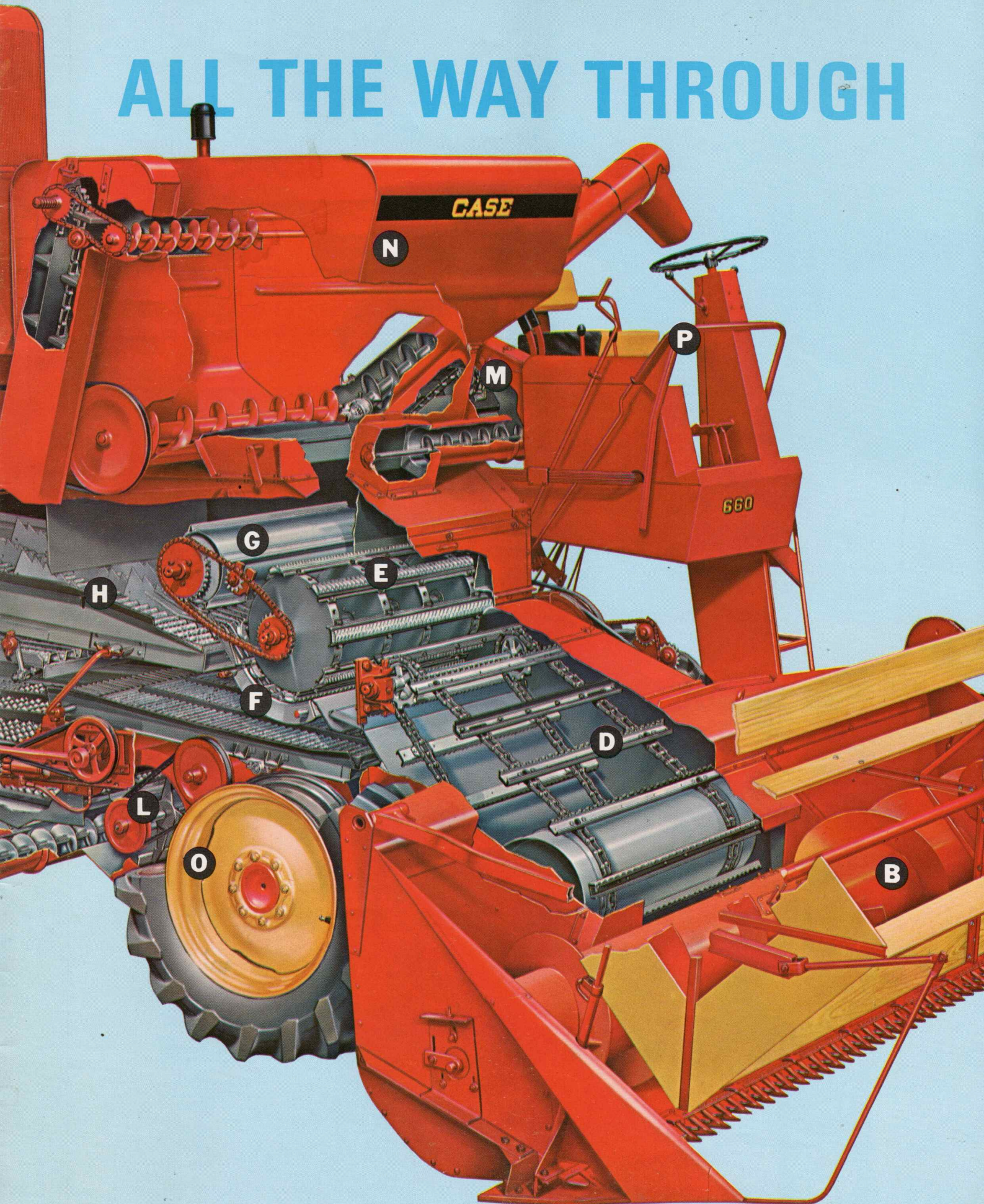
E CYLINDER. Big 40-inch rub bar or spike tooth cylinder. Extra width allows crop to feed through in a wide, thin layer for more complete under-cylinder separation with minimum power requirement. Remote control attachment lets you adjust speed from the driver's seat.

F CONCAVES. Bar and rod grate or spike tooth concave gives up to 90% separation at the cylinder. Concave clearance adjusts on-the-go with a convenient crank . . . gauge shows exact clearance. You avoid stops and ladder climbing . . . make smooth, precise settings from the driver's seat.

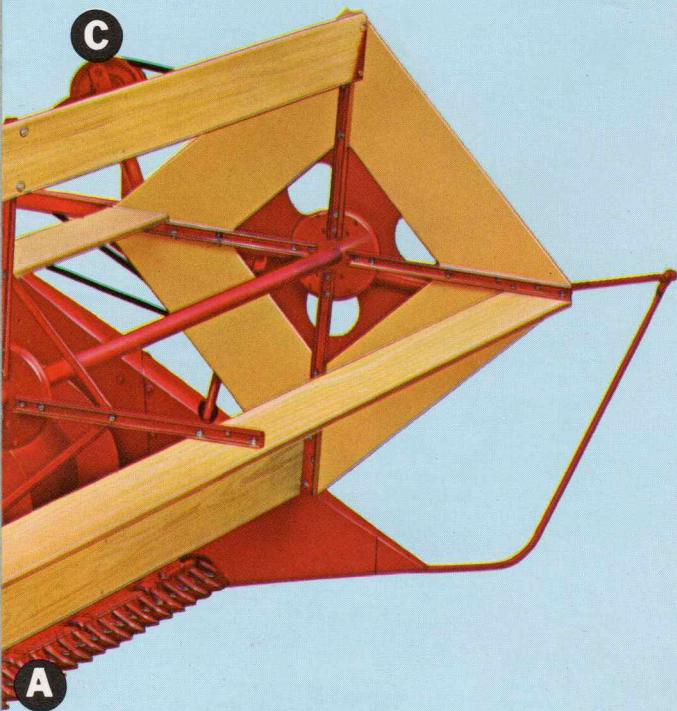
G BEATER. Drum-type beater directs smooth, even flow of material onto the front of the rack.



ALL THE WAY THROUGH



There is no weak link in the 40-inch threshing "chain" of a Case 660 Multi-Crop. Every part of the machine is designed to keep material moving in a smooth, even flow. Result: *maximum* bushels-per-minute of *clean* grain in the bin with *minimum* loss. In the cut-away view and description you get the important facts of big 40-inch capacity all the way through.



H STRAW RACK. Big 40-inch-wide rack has 4,480 square inches of separating area to get the remaining crop out of the straw. High overhead clearance gives plenty of room to pitch and toss the straw without bunching or slugging. High risers are standard equipment.

I RETURN PAN. Moves threshed grain forward to chaffer sieve. Deep channels maintain even flow of grain across full width of machine, prevents pile-up on sidehills.

J AIR-LIFT SEPARATION. Synchronized converging action of straw rack and return pan forces air currents up through rack to suspend lighter straw and chaff on a cushion of air, allowing heavier grain to fall through.

K CLEANING SIEVES. Big 2830-square-inch sieve area combines with variable-speed fan to handle large volumes, and still put an extra-clean sample in the grain bin. Cleaning shoe is all steel.

L FAN. Variable-speed fan adjusts quickly from 350 to 800 rpm for both light and heavy crops. Speeds of 200 to 500 are possible by reversing sheaves. Eliminates guess-work or adjusting shutters or baffles to provide an even full-width air blast. Rotary fan shield available.

M TAILINGS ELEVATOR. Convenient access door beside driver permits on-the-go checks by operator. Saves time, helps assure the cleanest possible sample in the bin.

N GRAIN BIN. Big bin is low and center-mounted for balance . . . unloads in 1½ minutes on-the-go or standing still. Long discharge spout reaches into the center of widest truck beds. Grain bin and elevator extension attachment available.

O WHEELS. Proper wheel spacing coupled with precise balance and steering provide outstanding maneuverability, reduce operator fatigue. Drive wheel tread is 80 inches.

P CONTROLS. Convenient, close-grouped controls help keep you on-the-go to get more work done. Hydrostatic power steering, driver-seat control of cylinder, reel and pickup drives are optional.

CASE 660

MULTI-CROP COMBINES

SPECIFICATIONS

HEADERS

10, 13 or 14-ft. cutterbar,
2 and 3-row corn heads

SICKLE SPEED

500 stroke-per-minute

REEL DRIVE

Variable-speed belt

REEL SPEEDS

Standard — 19-45 rpm
Optional — 13-21 rpm

HEADER LIFT

Hydraulic

HEADER AUGER

20-inch retracting finger

FEEDER

Floating undershot rake
with heavy roller chain

CYLINDER TYPES

Standard — rub bar
Optional — spike tooth

CYLINDER WIDTH

40 in.

CYLINDER DRIVE

Standard — chain
Optional — variable-speed belt

CYLINDER SPEEDS

Standard — 387-1265 rpm
Optional — 229-1465 rpm

CONCAVE TYPES

Standard — bar and lattice
Optional — spike tooth

CONCAVE ADJUSTMENT

Screw crank from
operator's seat

BEATER

11 in. drum

BEATER SPEED

700 rpm

STRAW RACK

All-steel unit rack
with high risers

SEPARATING AREA

4,480 sq. in.

CHAFFER SIEVE

Type — adjustable
Length — 32½ in.
Width — 33⅝ in.

CHAFFER EXTENSION

Type — adjustable
Length — 14¾ in.
Width — 33⅝ in.

CLEANING SIEVE

Type — adjustable
Length — 32¼ in.
Width — 33⅝ in.

CLEANING AREA

2,830 sq. in.

FAN DRIVE

Variable-speed belt

FAN SPEED

Standard — 350-800 rpm
Optional — 200-500 rpm

GRAIN BIN CAPACITY

40 bushels*

GRAIN BIN UNLOADING

8-inch unloading auger

ENGINE

Standard — Case 201
cu. in. gasoline
Optional — Case 188
cu. in. diesel

FUEL TANK CAPACITY

35 U.S. gallons

POWER TRAIN

Foot clutch, 3-speed
transmission, hydraulic
controlled variable-speed
drive

TRAVEL SPEEDS

.87-13.85 mph

SHIFT PATTERN

Automotive "H"

TURNING RADIUS

(outermost point) Without
turning brakes — 130 in.
With turning brakes — 90 in.

DRIVE WHEEL SIZE

Standard — 13.6x26 6-ply
traction tires
Optional — 14.9x26 or
16.9x26 6-ply traction tires

DRIVE WHEEL TREAD

Dished in — 80 in.
Dished out — 83¾ in.

STEERING WHEEL SIZE

Standard — 5.50x16 4-ply
implement tires
Optional — 6.50x16 4-ply
implement tires

STEERING WHEEL TREAD

Standard — 66 in.
Optional — 40 in.

LENGTH OVERALL

(header down) 255 in.

WIDTH OVERALL

Header removed and auger
folded — 111½ in.

With 10-ft. header —
131 in.

With 13-ft. header —
167 in.

With 14-ft. header —
179 in.

HEIGHT OVERALL

131½ in.

HEIGHT TRANSPORT

With air screen
folded — 111½ in.

**40 U.S. standard bushels
based on 50 cubic foot
capacity. Special grain bin
and elevator extension
attachment increases bin
capacity to 50 bushels.*

Standard Equipment

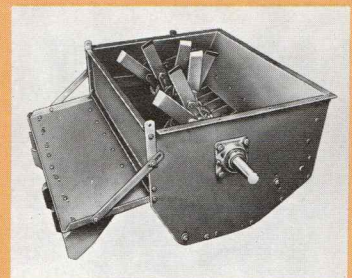
Quick-detachable 10, 13 or 14-foot header with 20-inch retracting finger auger; variable-speed reel drives; forged sickle guards; 500-stroke-per-minute sickle drive; hydraulic header lift; header mounting stand; floating feed rake; 40-inch rub bar cylinder; chain cylinder drive; screw crank concave adjustment from the operator's seat; 4,480 square inch straw rack; all-steel cleaning shoe; lever-operated sieves; variable-speed cleaning fan; tailing check accessible from operator's seat; top-driven 5-inch clean grain elevator; rubber flighting in grain and tailings elevators; 40-bushel grain bin; self-leveling grain bin cross auger; quick-latch folding unloading auger; Case 201 cubic inch gasoline engine with mechanical fuel pump, starter and generator; 12-volt electrical system; 35 gallon fuel tank; variable-speed traction drive; foot clutch; 3-speed transmission; foot brakes; unit frame construction; easy-ride folding seat; individual control of header and threshing mechanism; 80-inch drive wheel tread; 66-inch steering wheel tread; 13.6x26 drive wheel and tires; 5.50x16 steering wheels and tires; tool box; folding ladder; flashing warning lamp.

ALL-WEATHER CAB

Custom-tailored for the Case 660. Has large, tinted safety-glass windows, with forward-slanted windshield for dust-free operation. Sound-deadened interior. Blower has removable, washable filter. Window over grain bin opens for ventilation and access to grain bin. Large entrance door with hold-open latch. Heater and air conditioning available.



STRAW CHOPPER cuts tillage costs, increases yields. Perfect balance minimizes vibration. Big capacity — low power requirement. Straw spreader also available.





Quality

All Case combines are subject to rigid quality control procedures of every step of production—including final test run of transmission traction drive system and the entire threshing mechanism.

ask about
CASE[®]
Crop-Way
Purchase
Plan

Get the full story of 40-inch threshing-separating-cleaning capacity that lets you harvest *more* and *cleaner* grain. Find out how many hundreds of dollars you can save on a deal for a Case 660 combine. Then have your Case dealer tailor a Crop-Way Purchase Plan to your needs. No red tape — your Case dealer has on-the-spot information.

The J. I. Case Company reserves the right to make improvements in design and changes in specifications without incurring any obligation to install them on units previously sold.



J. I. CASE COMPANY, Racine, Wisconsin, U.S.A.