
COMPETITIVE COMPARISON

LEXION vs. John Deere, Case IH, New Holland

2009 LEXION Product Training



5 exclusive traits

	LEXION 500R series	DEERE STS series	CASE IH 20 series	NEW HOLLAND CR series
LEADING THROUGHPUT	Largest threshing & separation area maximizes grain retention		Average competitive throughput area is 42% less than LEXION	
EXCEPTIONAL DURABILITY	Up to 70% CLAAS produced content		Up to 70% content is outsourced to lowest bidder	
LEADING EFFICIENCY	1 gallon fuel per acre (all models)		1.3 – 1.7 avg. gallons fuel per acre	
USER FRIENDLY	Single monitor, Easy access, Minimal reconfiguration	Excessive shields, cramped space, cumbersome grates & segments	Complex drive train, cumbersome grates	Cumbersome rotor grates and hard to reach belts
MOST PRODUCTIVE	Most consistent daily performance, Max. acres per hour / per day		Limited throughput ability, greater sensitivity towards tough-to-thresh crops	

5 exclusive selling features

	LEXION 500R series	DEERE STS series	CASE IH 20 series	NEW HOLLAND CR series
ACCELERATED PRE-SEPARATION (APS)	Separation starts up front, optimizes flow		NOT AVAILABLE – everything gets threshed whether it needs it or not	
HYBRID SYSTEM	Leading capacity & independent settings to match conditions		Single rotor for threshing and separation, no independent adjustment to optimize performance	
CASCADE PRE-CLEANER	Unrestricted natural flow, high volume		Chaffer style pre-cleaner restricts natural flow, limits full use of total cleaning area	
MOBIL-TRAC SYSTEM (MTS)	Exclusive <u>integrated track undercarriage</u> with suspension		NOT AVAILABLE	
HEADER TECHNOLOGY	Max-Flex, HP FH and Knife-to-knife row units		No 40-footplatforms or 16-row/30-inch corn heads, limited flexibility, no HP Feederhouse	

Top 5 issues used to sell against LEXION

	LEXION 500R series	DEERE STS series	CASE IH 20 series	NEW HOLLAND CR series
COMPLEXITY	Proven design / high cap. design, proportional to productivity	Hidden belts, complex drives, challenging reconfiguration	Exotic drive train lacks user friendliness, especially post warranty	Difficult to reach belts, challenging reconfiguration
RELIABILITY	Exceptional durability		Competitive	
WEIGHT	Higher quality of material and construction		Cost reduction!	
PROXIMITY TO DEALER	Resident service techs, drop boxes, "on-farm-parts"...		Diminishing! Parts often centralized vs. allocated according to volume/demand	
PRICE	Higher quality + Leading capacity = Competitive price		Variable pending dealer, region, etc.	



What the competition is talking about

LEXION

HOW DO THEY COMPARE?



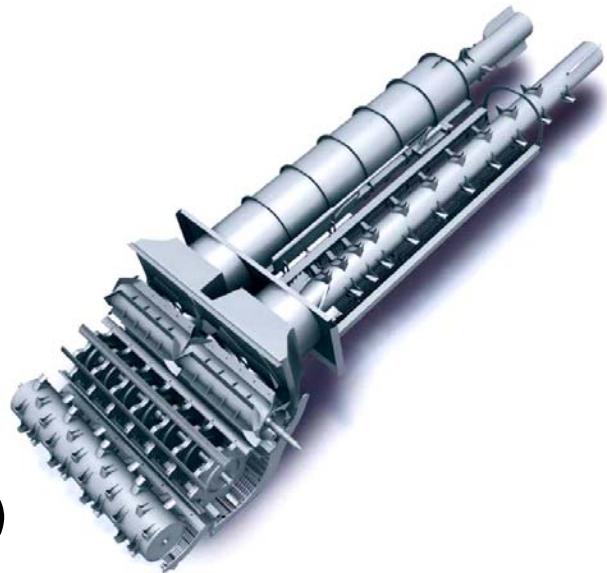
- Competition: Power, Comfort and Convenience are marketed as leading benefits
 - + Unlike productivity, durability and efficiency with LEXION
- Competition: Uses minimum feature and system specifications to perform
 - + Expectations are greater for LEXION (leading throughput area & grain handling)
- Competition: Often sensitive to tough conditions that result in inconsistent feeding = limited productivity + poor grain quality and retention
 - + LEXION HYBRID System + JET STREAM cleaning maximize performance & capacity
- Competition: Relies on “power bulge” and “power boost” to get the job done
 - + LEXION utilizes proven CAT POWER technology

HOW DO THEY COMPARE?



LEXION 500R series

- 11 years in North America (1998 – 2009)
- Gaining ground each year!
- Success factors
 - ▶ *Leading productivity via the HYBRID system and JETSTREAM*
 - ▶ *Solid, innovative design by true “Harvesting Specialists”*
 - ▶ *Simple layout of a proven drivetrain*
 - ▶ *Leading efficiency, lowest industry fuel consumption rate (1 gpa)*
 - ▶ *Strong distribution network*



HOW DO THEY COMPARE?



Deere STS

- Market leader (> 60% in N.A.)
- Success factors
 - ▶ ***Based on nearest competitor's technology*** →
 - With a hint of Massey mixed in via the front impeller and spiral rotor intake (original patent)
 - ▶ ***Broad acceptance due to the success of the Axial-Flow ↑***
 - ▶ ***Strong Deere marketing***
 - ▶ ***Smallest total throughput area***



HOW DO THEY COMPARE?



CaseIH AFX 7120 / 8120 / 9120

- Unique (CVT) separator drive technology
- “Not a Fix It Yourself Combine”
 - ▶ *Strong reliance on dealer support, especially post warranty*
- Cab is a major selling feature (20 series)
- 30% NA market share (all models)



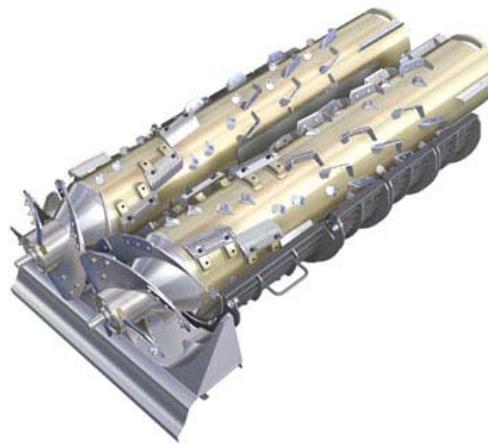
LEXION®

HOW DO THEY COMPARE?



New Holland CR

- Hi-tech and premium priced compared to the previous TR series
- Ultra modern (exotic) look
- Cab is its major selling feature
- Market share diminishing to < 500 units / yr.
- Claims to be the largest on the market,
however, LEXION 500R has an avg. of 72% more throughput area



2009 500R SERIES

Class 6

560R

310 hp

C508,

F530

CC508-3

V530

280 bu

Class 7

570 (SW)

350 hp

C512,

F/G530

CC508-30

V535

280 bu

Class 7

570R

575R

350 hp

C512,

F/G535

CC508-30*

CC512-30*

V535

300 bu

330 bu opt.

Class 8

580R

585R

425 hp

C512,

F/G540

CC512-30*

V535

330 bu

Class 9

590R

595R

462 hp

C516,

F/G540

CC512-30

V535

360 bu

* If equipped with optional HD feederhouse drive

2009 HEADER MODELS

CORN HEADS (C): C506 - 30" C508 - $\frac{830"}{836"}$ $\frac{838"}{}$ C512 - $\frac{1230"}{1222"}$ C516 - 30"

CHOPPING CORN HEADS (C): * CC508 - 30" * CC512 - 30"

FLEX HEADS (F): F525' F530' F535' F540'

RIGID HEADS (G): G525' G530' G535' G540'

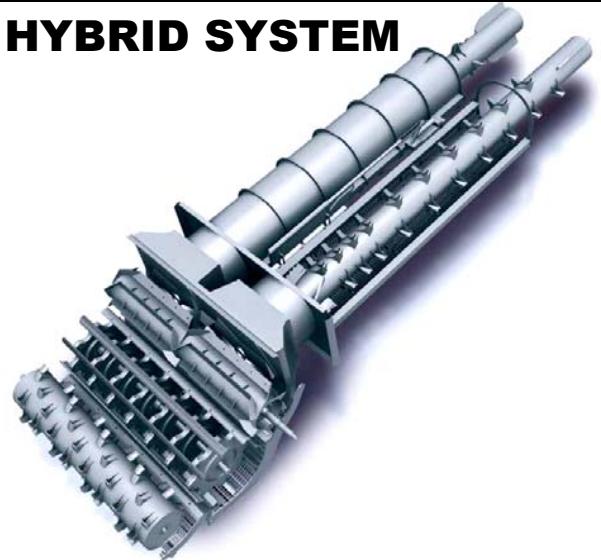
RICE HEADS (R): R525'

VARIO HEADS (V): V530' V535'

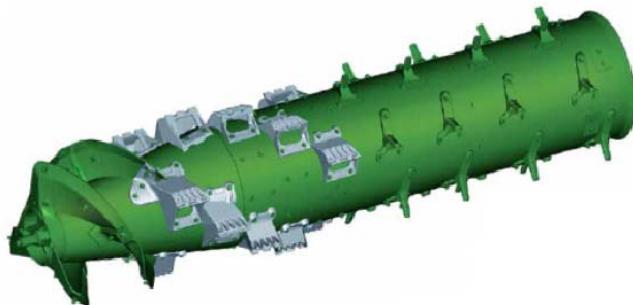
PICK-UP HEADS (P): P514 13 FT P516 15 FT

* Requires heavy duty feeder house drive option

LEXON HYBRID SYSTEM

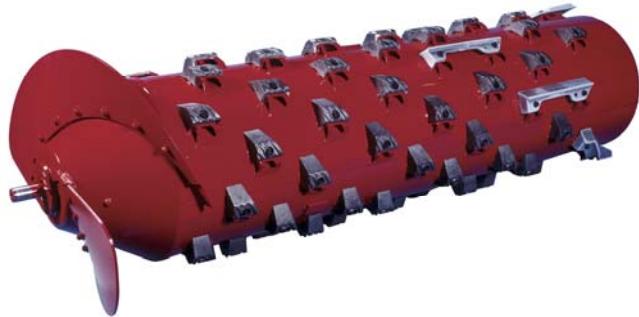


DEERE SINGLE TINE SEPARATOR

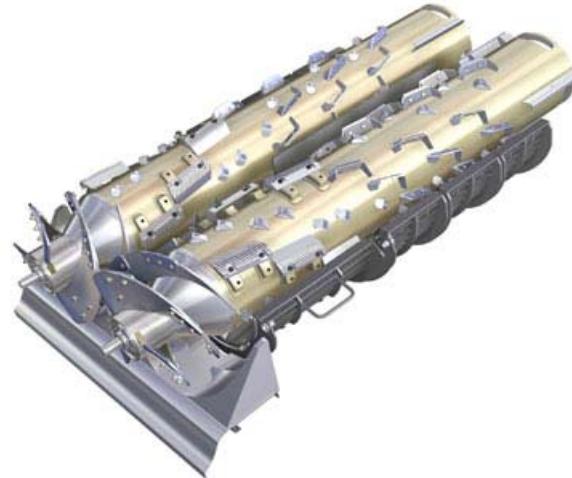


PROCESSORS

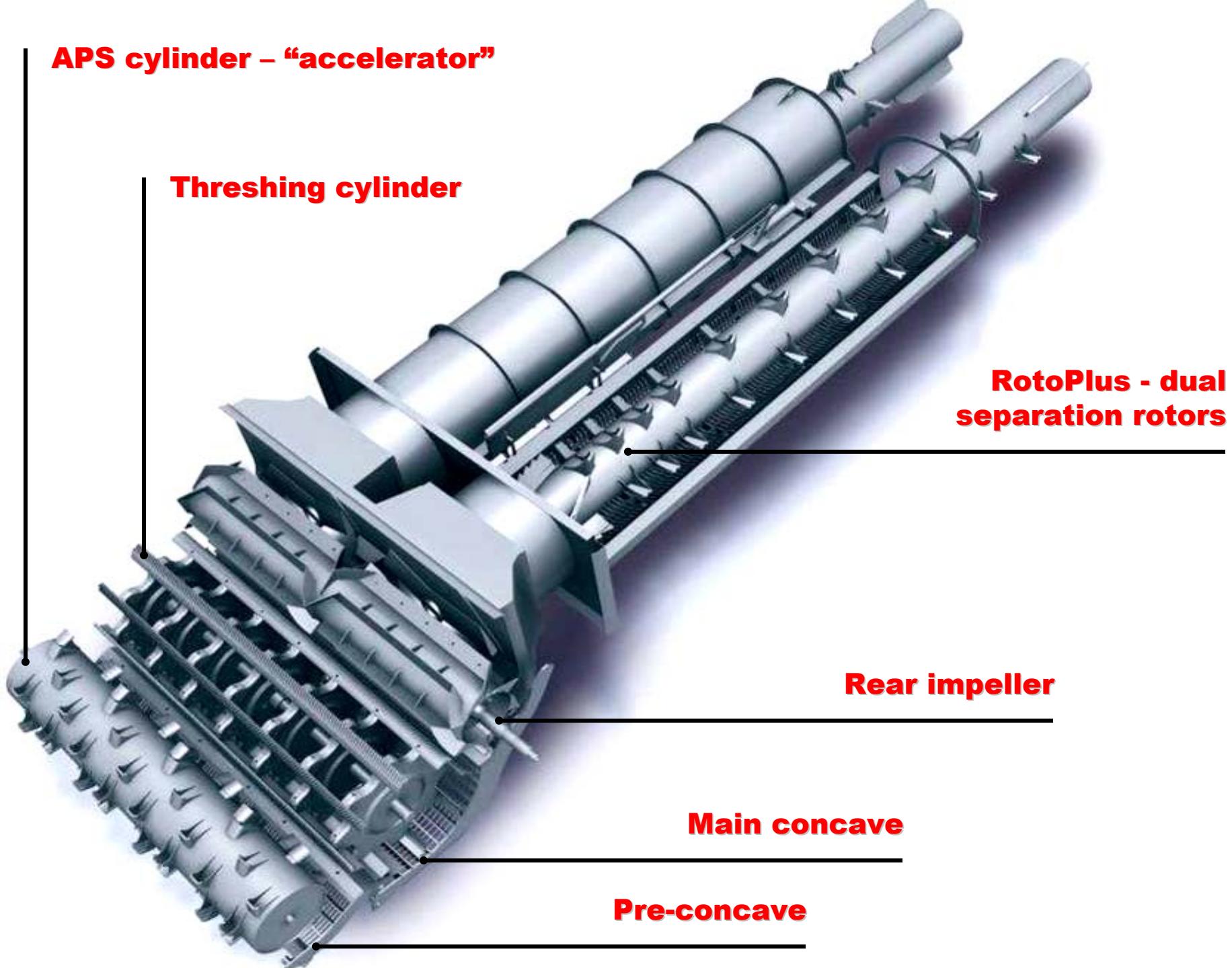
CASE IH AXIAL-FLOW



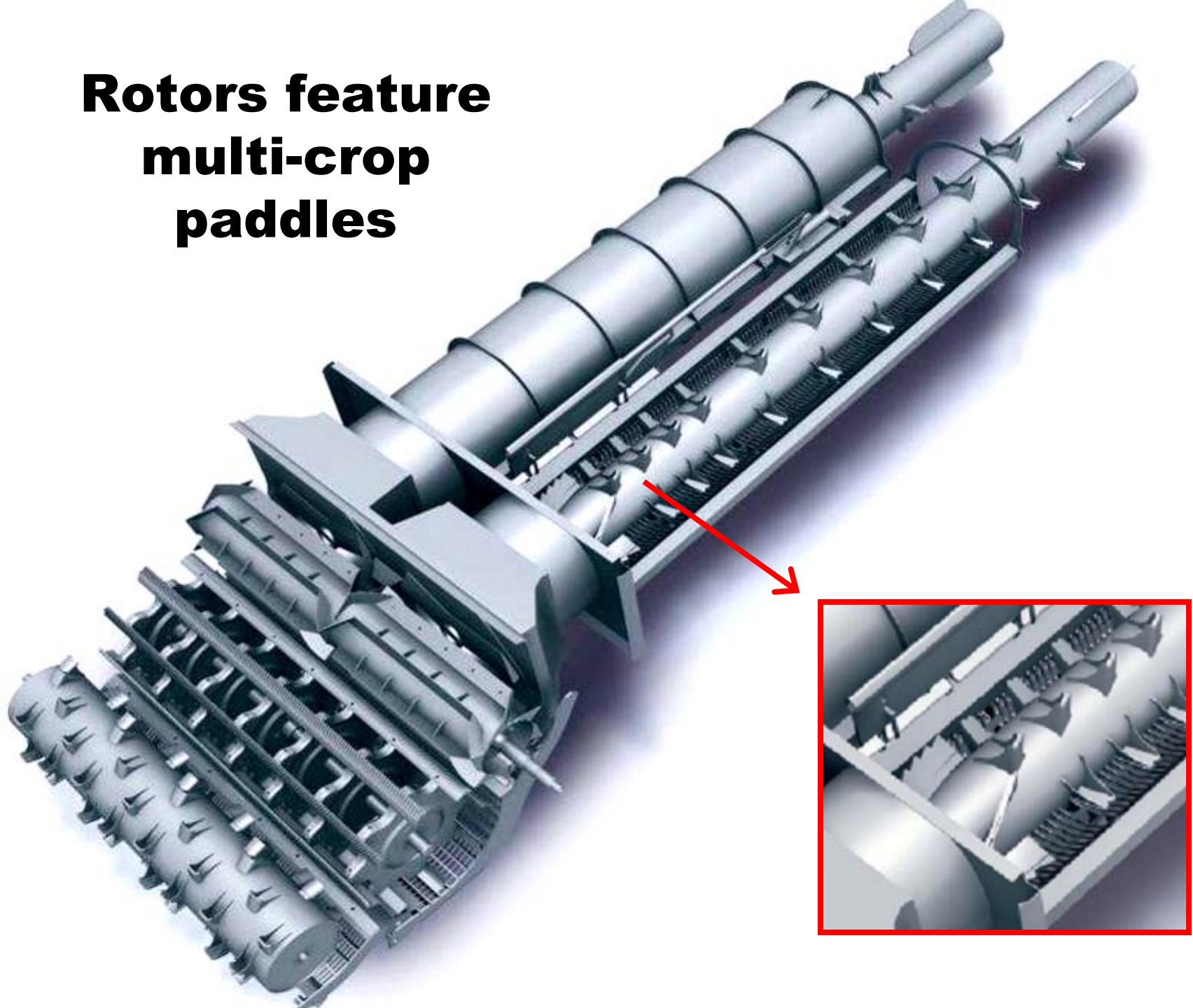
NEW HOLLAND TWIN-ROTOR



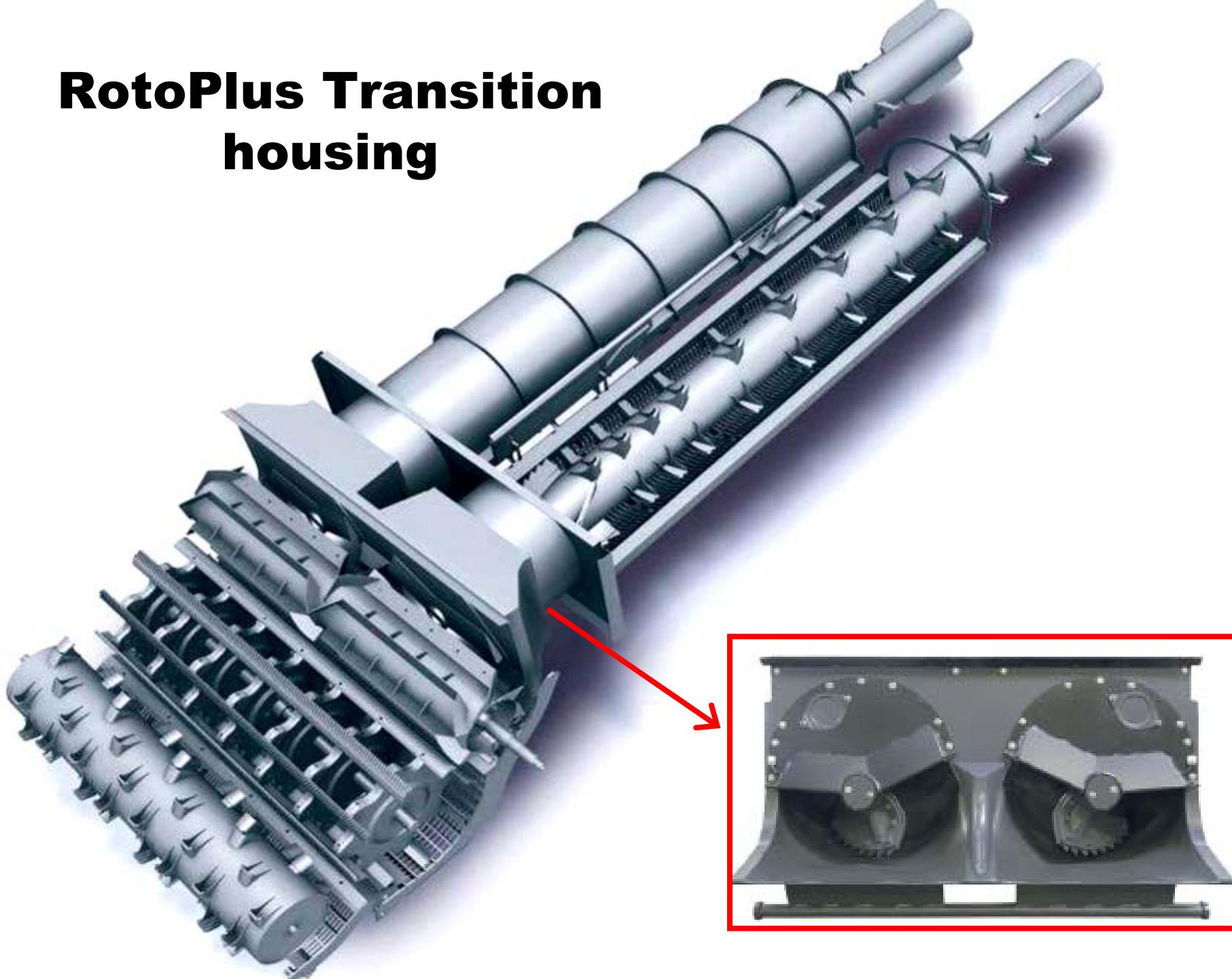
APS cylinder – “accelerator”



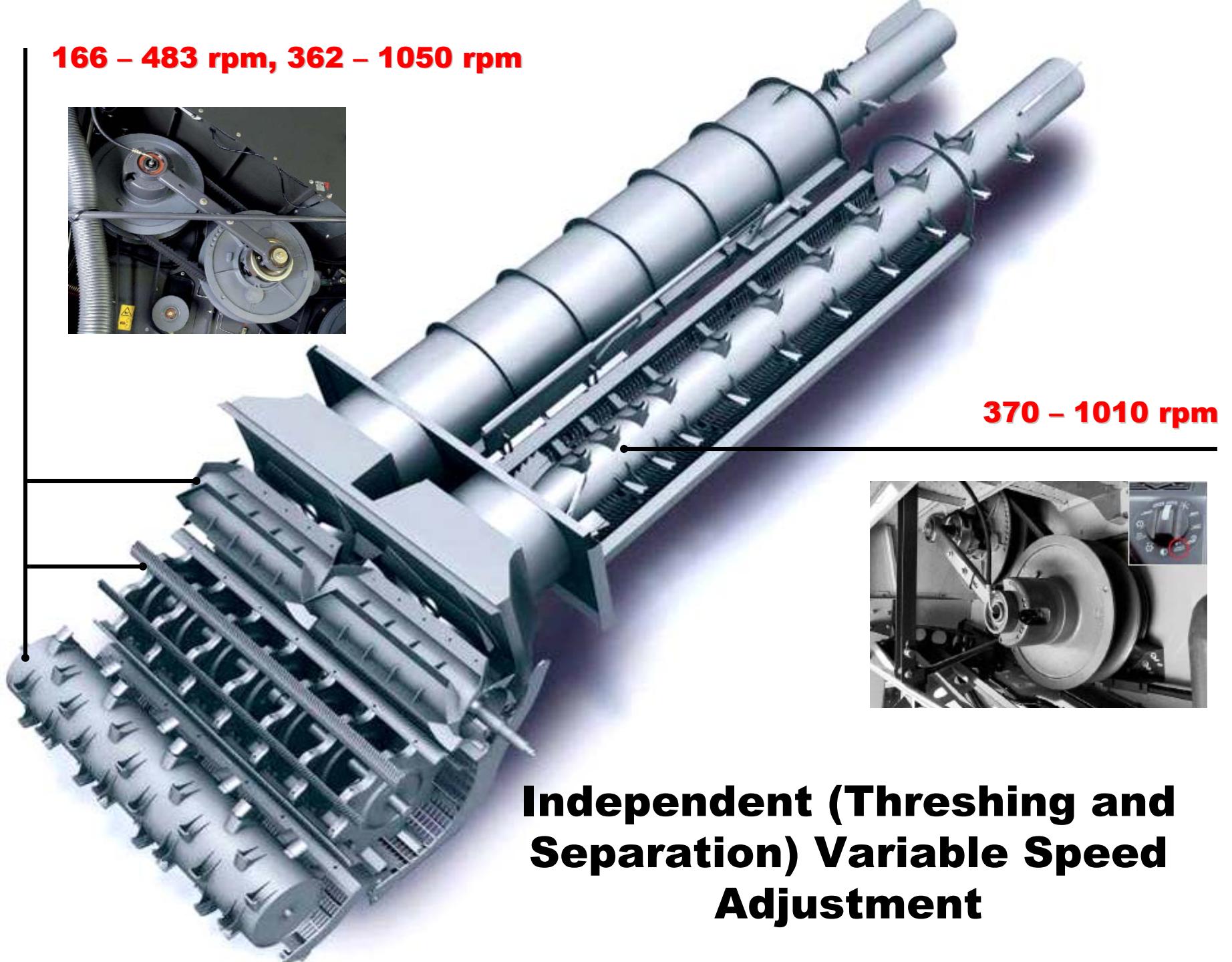
**Rotors feature
multi-crop
paddles**



RotoPlus Transition housing



166 – 483 rpm, 362 – 1050 rpm



370 – 1010 rpm

Independent (Threshing and Separation) Variable Speed Adjustment

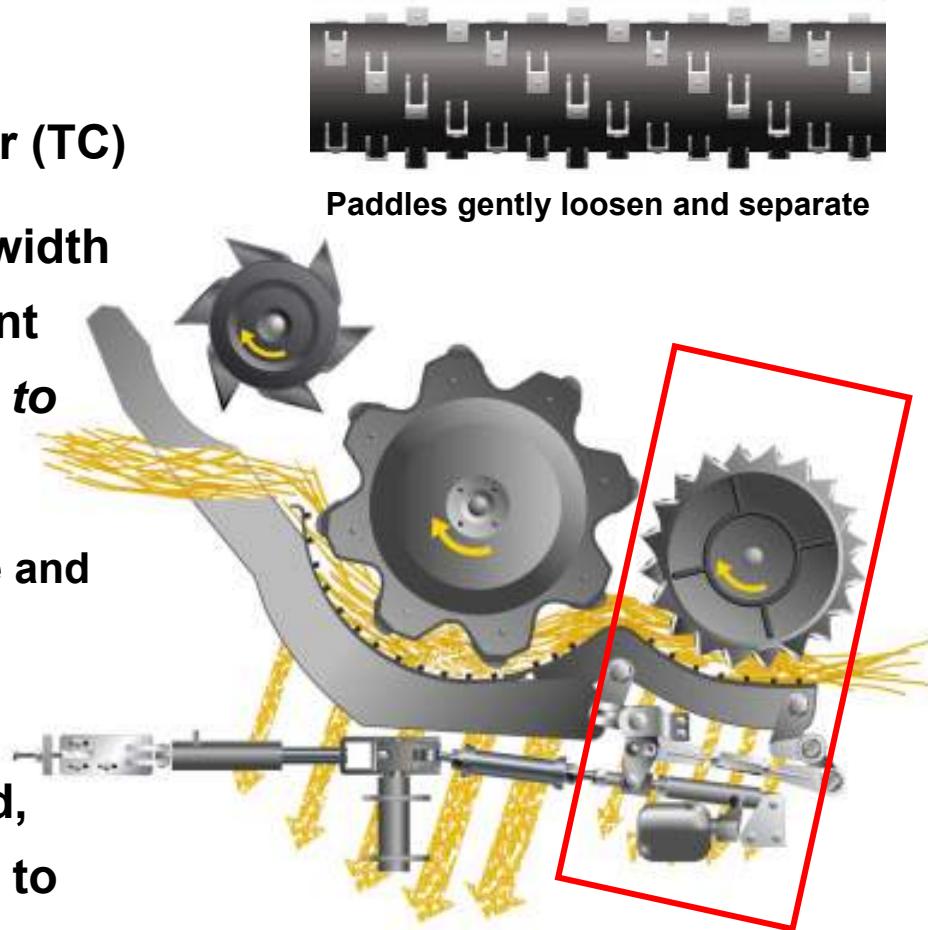
Accelerated Pre-Separation System



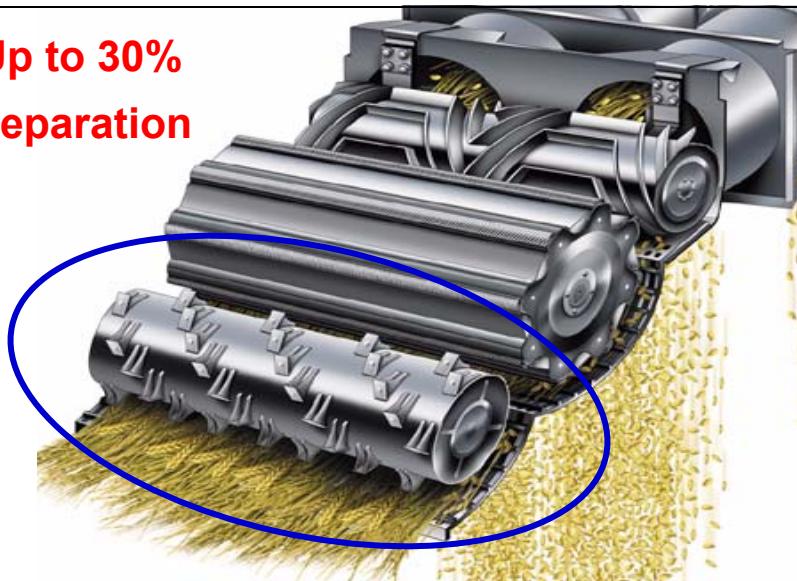
Separation starts up the front!

4 “Characteristics” of the APS Cylinder

1. Optimizes material flow from the feederhouse to the Threshing Cylinder (TC)
2. Spreads material evenly over the full width of the TC to assure the most consistent feeding possible (*i.e., adapts the crop to suit the TC*)
 - a. Minimizes spike-loading of the engine and drives (e.g., “ROMPING”) to minimize excessive fuel consumption and wear
3. Up to 30% of the crop is pre-separated, during the first two steps above, prior to entering the TC & main concave area
4. Directs rocks and other foreign objects into the rock trap



Up to 30% separation



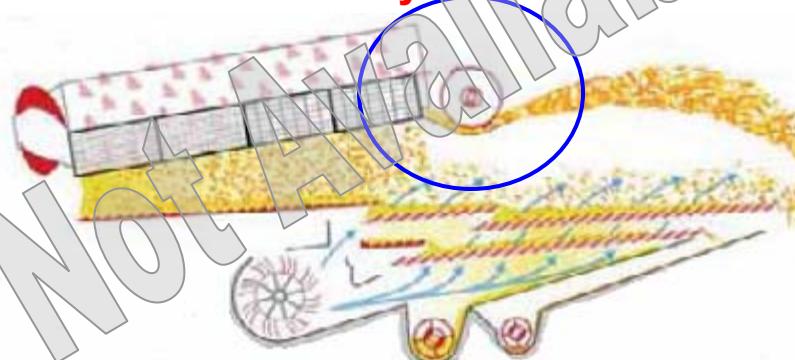
Post separation via rear discharge beater
► Forces all residue into chopper



PRE-SEPARATION

Post separation via rear chopper impeller

► Grain loss accuracy skewed



Post separation via rear discharge beater

► Forces all residue into chopper

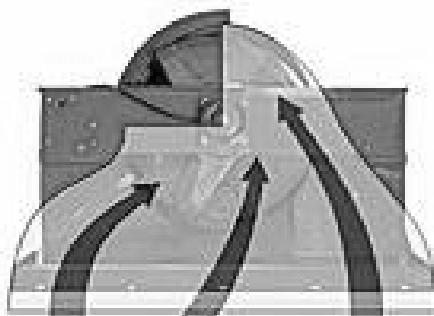


APS ADVANTAGE: POWER EFFICIENCY

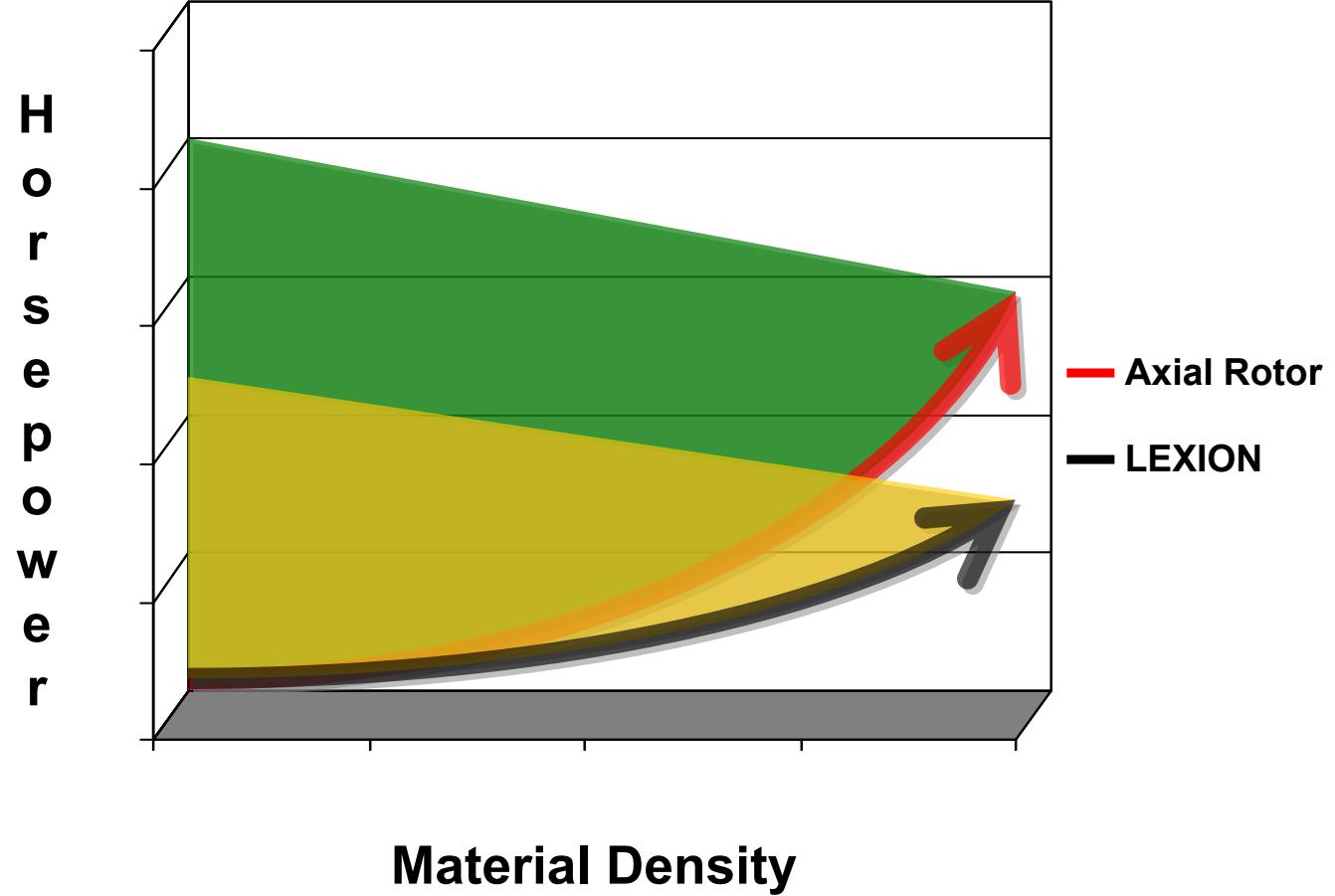
(Power Requirements)



VS.



CASE IH, Deere, AGCO

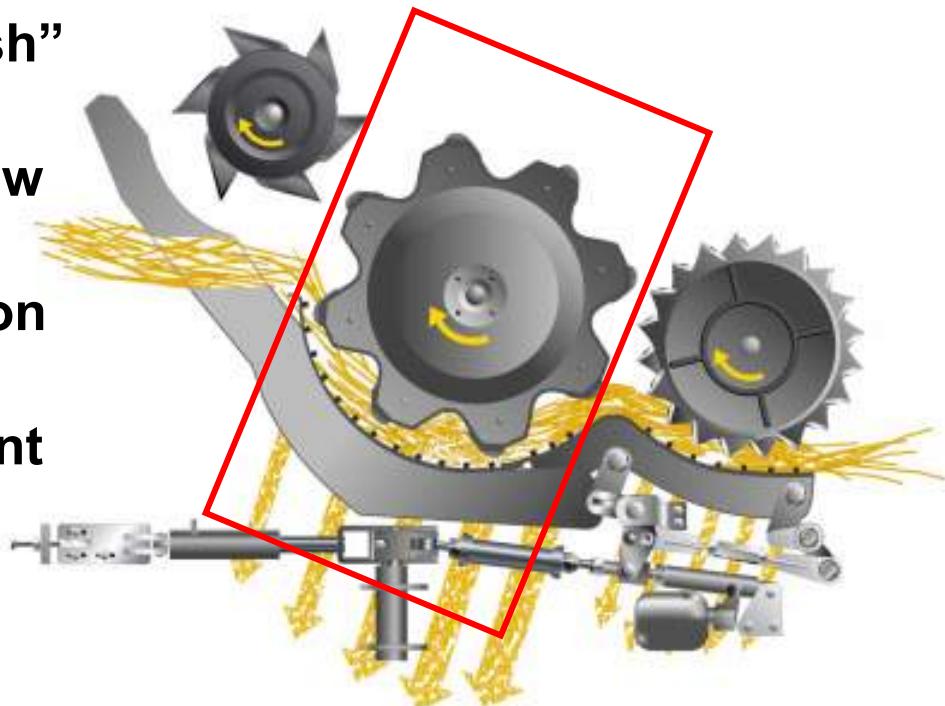


Material Density

LEXION®

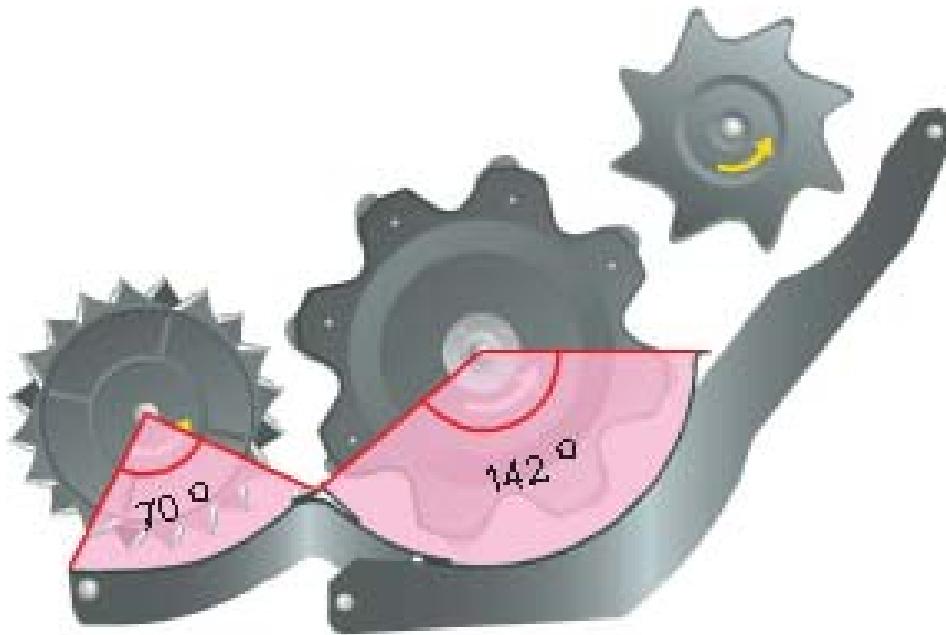
Focused Threshing

Focused threshing results from pre-separating the “easy-to-thresh” crop (by the APS cylinder) to allow the Threshing Cylinder to focus on threshing the tough, more resilient crop.



- Faster, more thorough separation
- Preserve grain quality

Larger wrap = Larger area



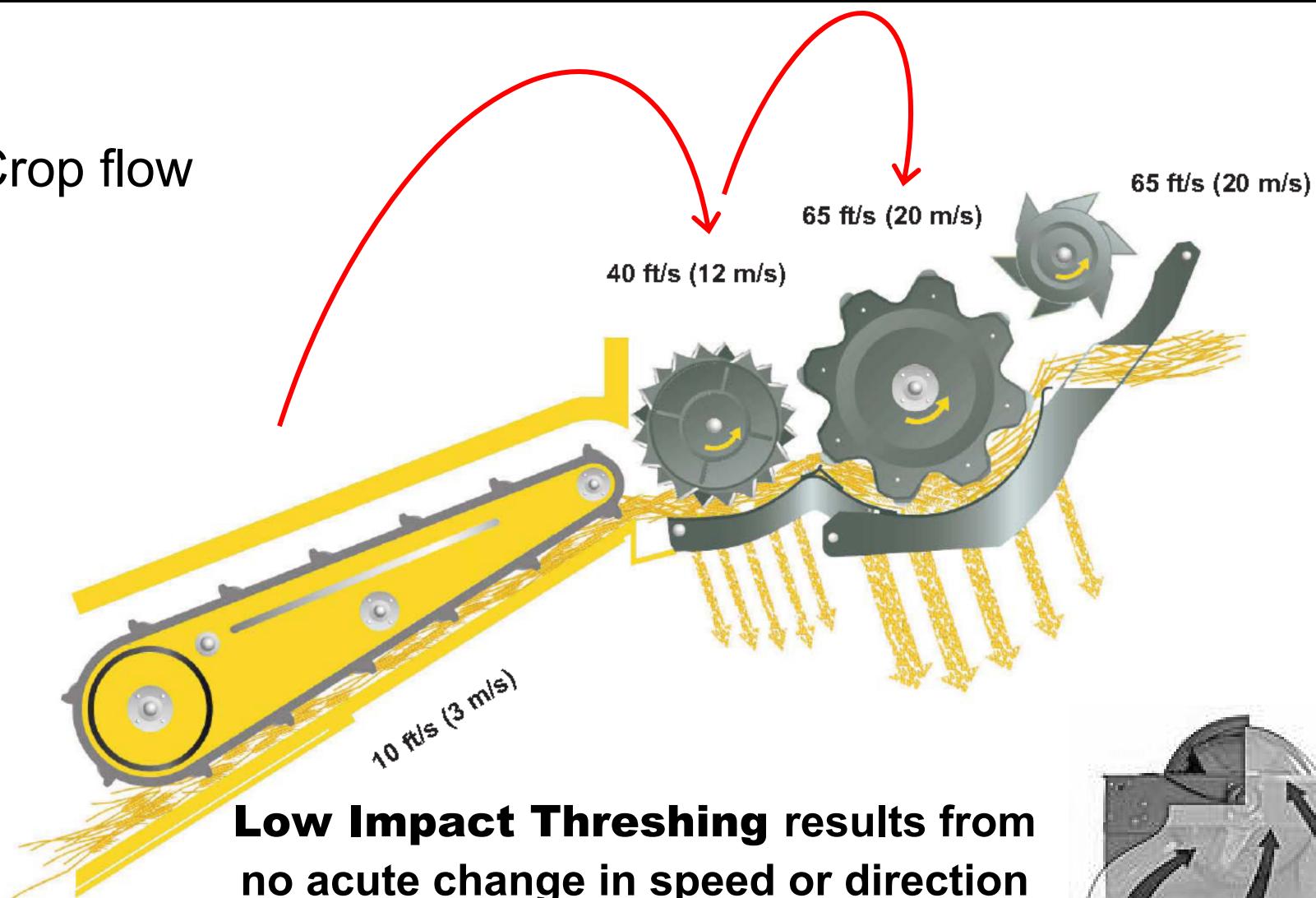
LEXION = 212° of total concave wrap

VS.

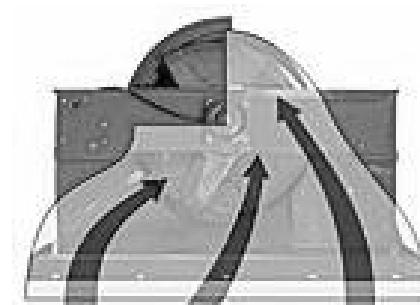
**Up to 180° of wrap on Case IH 20 series, Deere STS and
New Holland CR**

Optimized flow

Crop flow



Low Impact Threshing results from
no acute change in speed or direction
as with axial rotor combines →

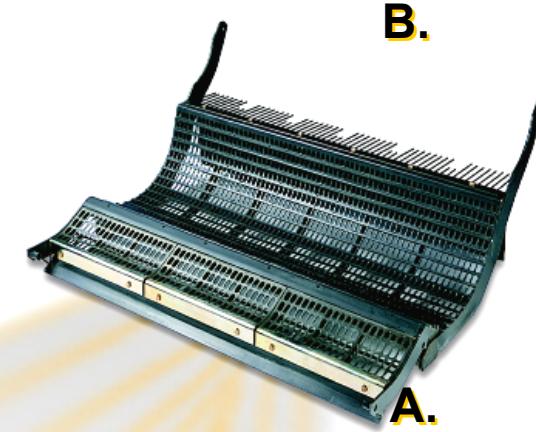


LEXION®

Concave

A. Interchangeable Pre-concave grates

- Minutes to change through the rock trap
- 6.5mm x 40mm smooth small grains & small seed
- 6.5mm x 40mm with key stock for tough small grains
- 10mm x 38mm wire for small grains
- 12mm x 40mm with key stock for green-stem soybeans
- 19mm x 40mm smooth for corn & dry soybeans



B.

B. Main concave

- Large wire (N18) corn
- Small grains (N7/18)
- Round bar specialty



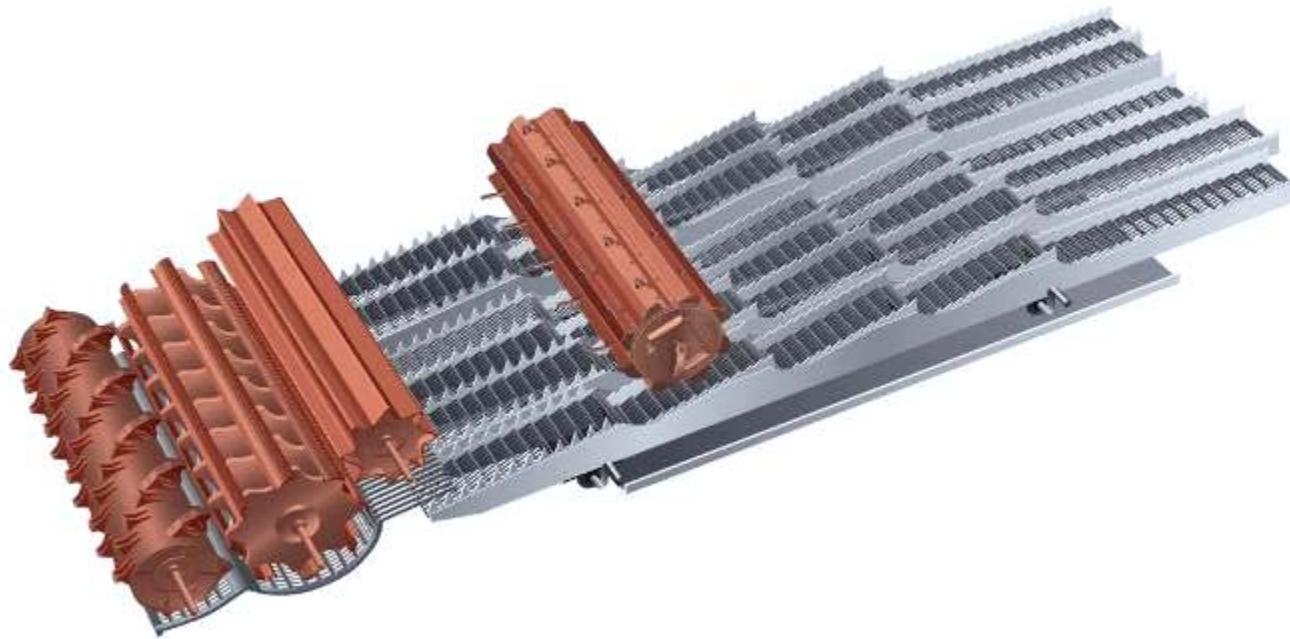
Round-bar specialty main concave

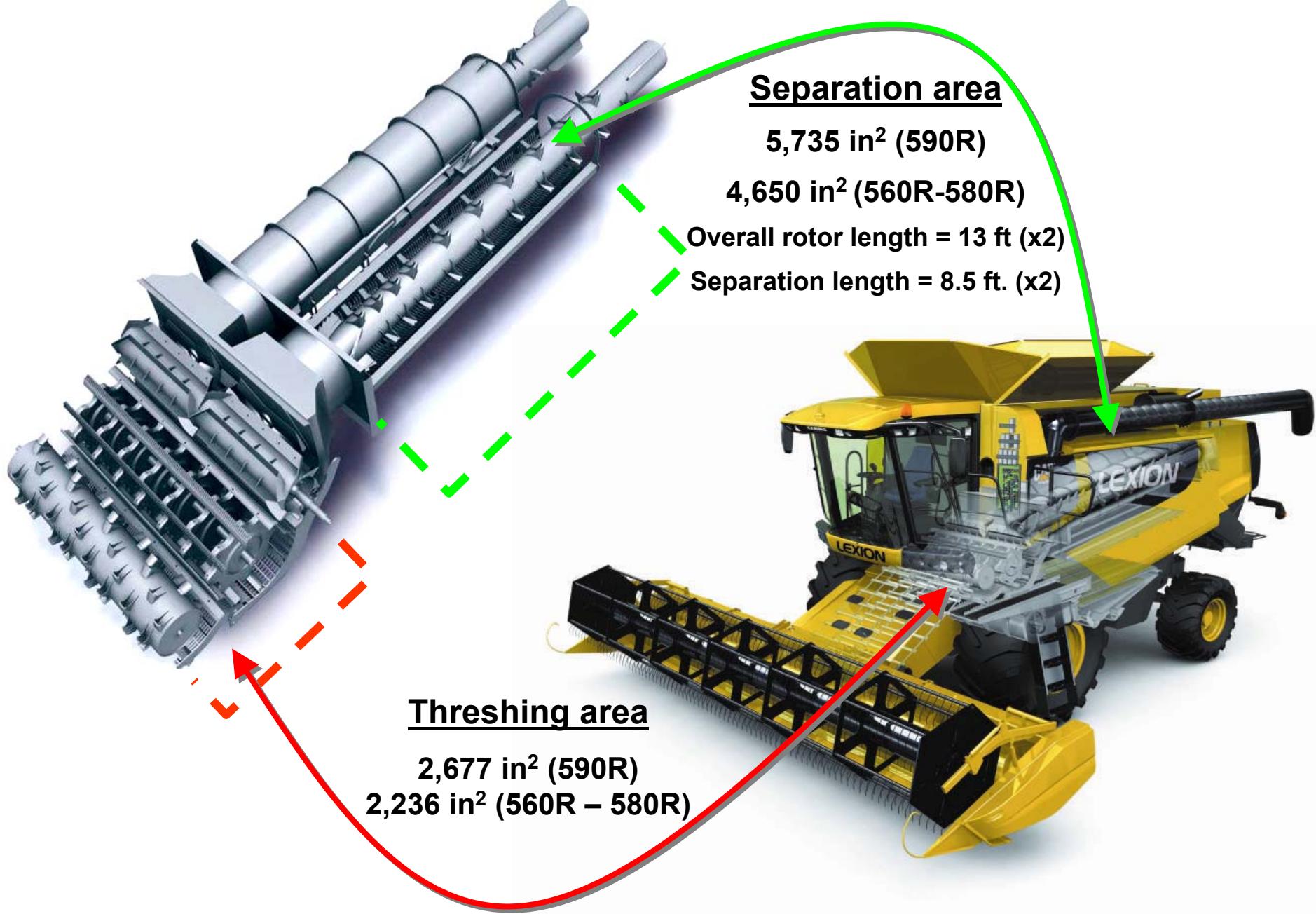


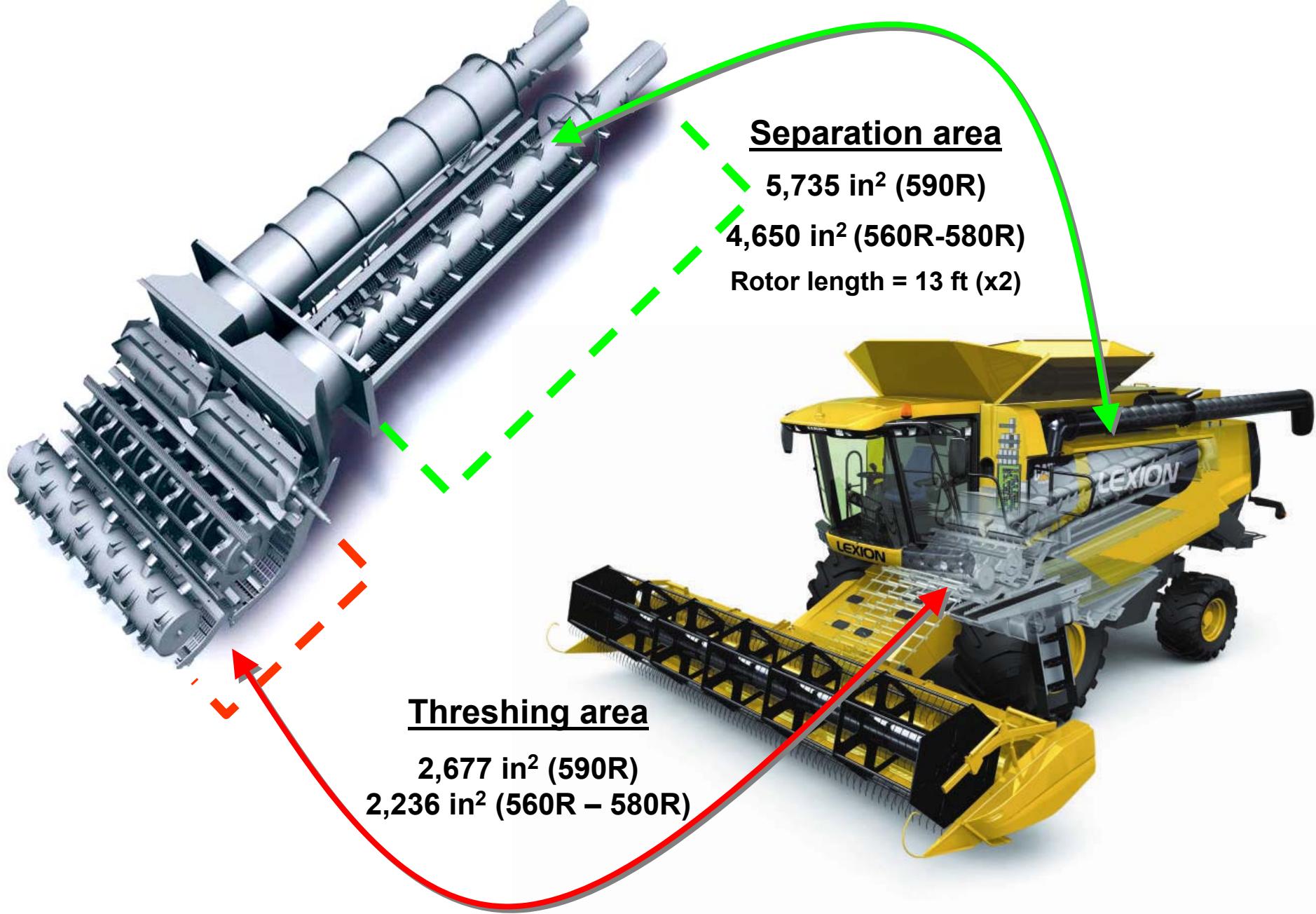
MULTI-FINGER SEPARATION SYSTEM (MSS)

Multi-finger Separation System (MSS)

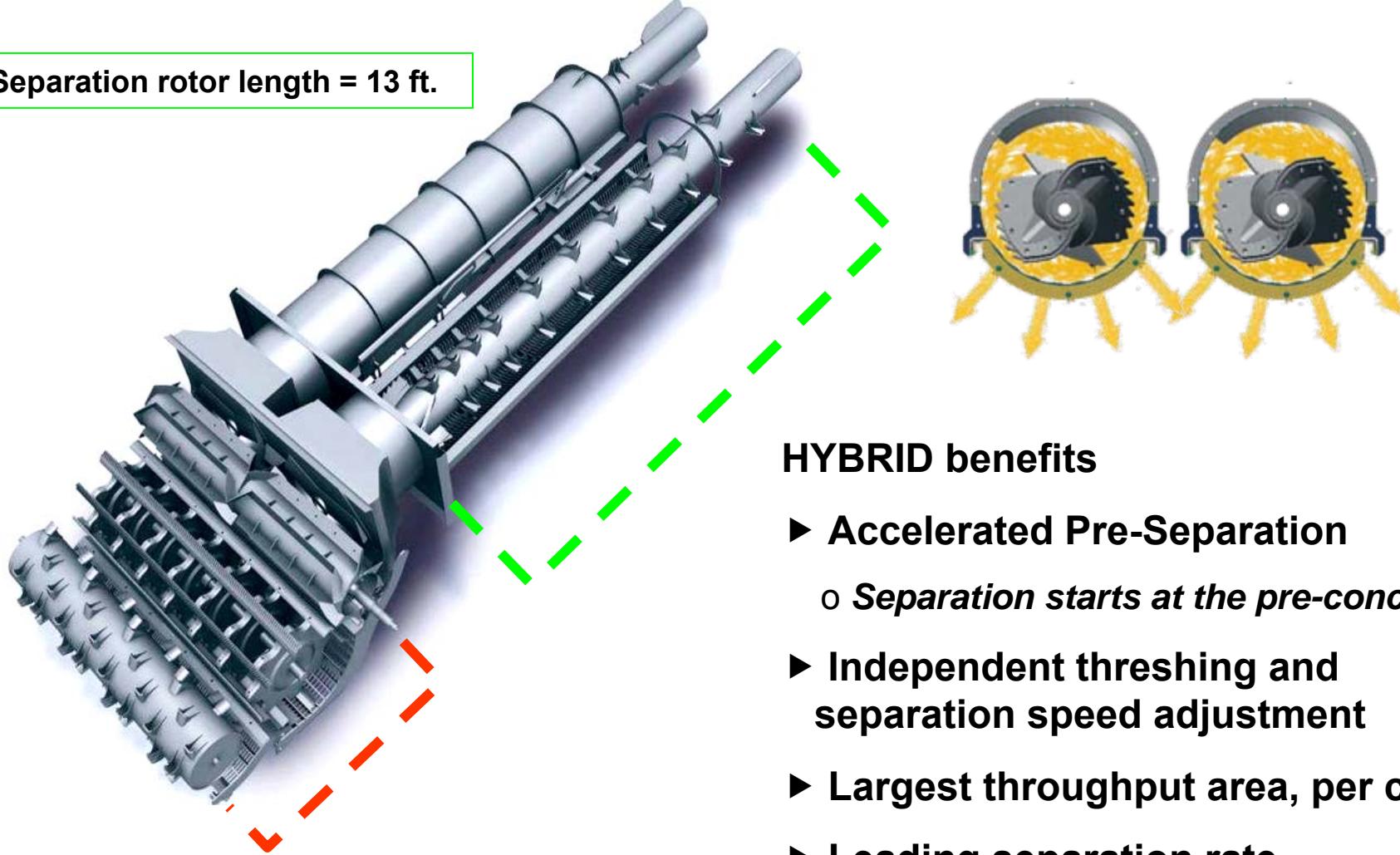
- Retractable fingers comb through the crop to glean any remaining grain lodged within the residue that might otherwise be subject to loss by competitive harvesters
- 2 speed drum with adjustable fingers to match conditions
- Multi-crop capable







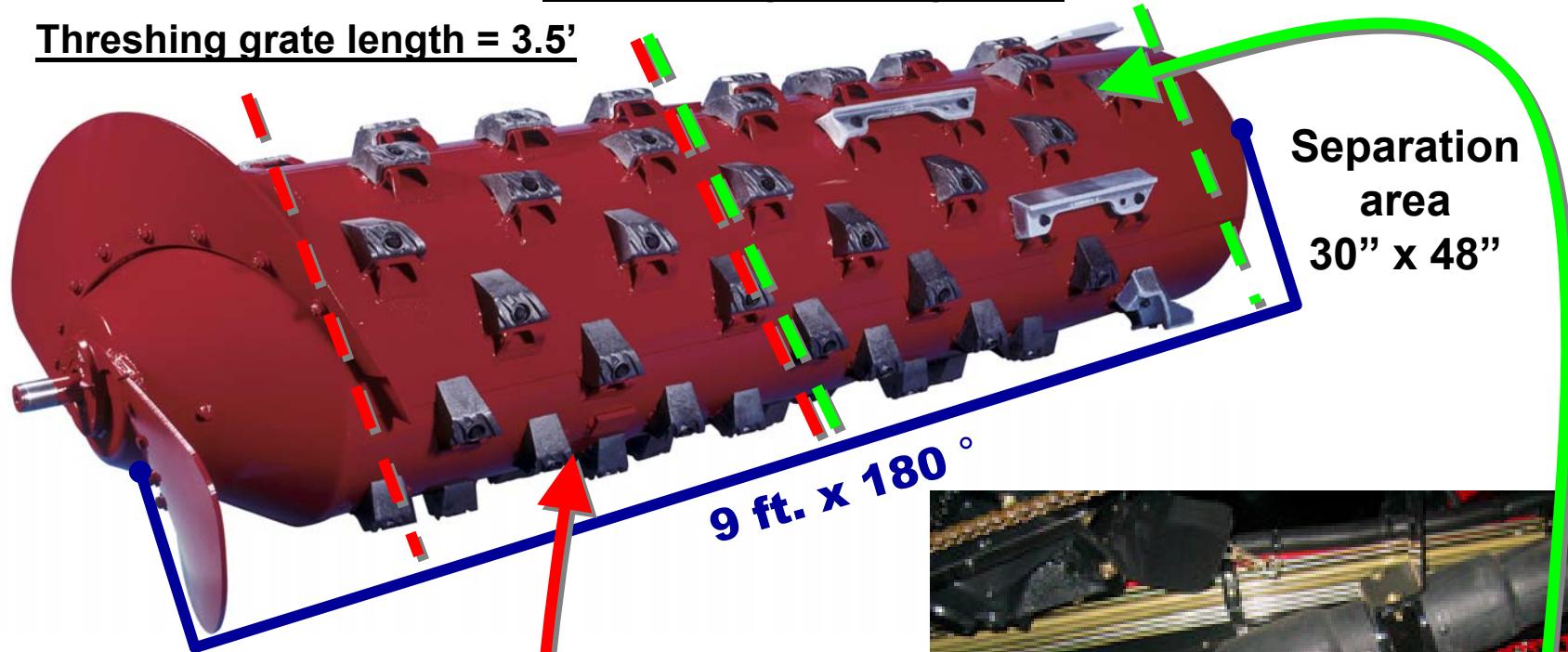
Separation rotor length = 13 ft.



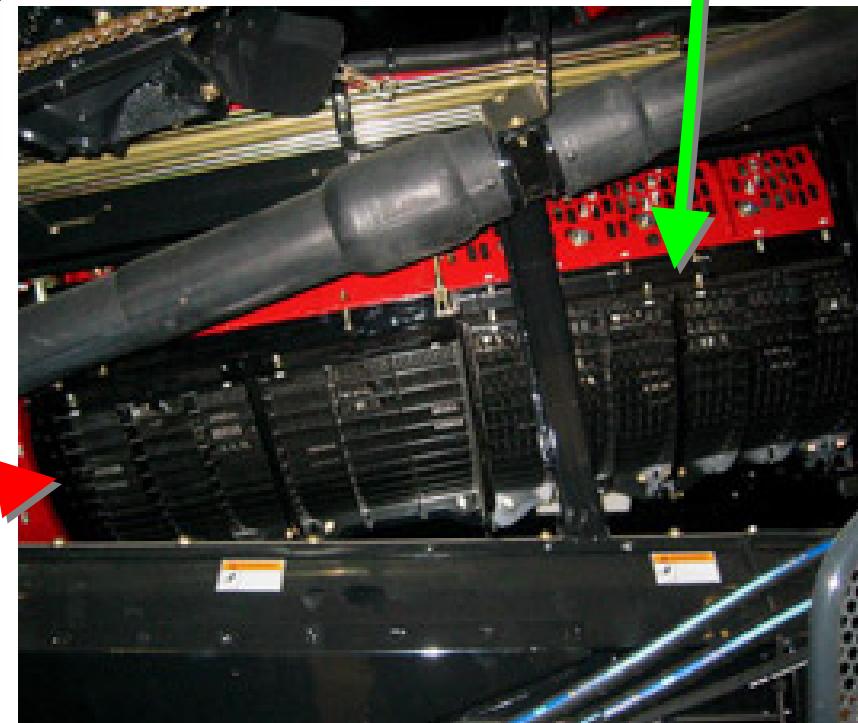
	LEXION 560R	LEXION 570R	LEXION 580R	LEXION 590R
Threshing and Separation area:	6,886 in. sq.	6,886 in. sq.	6,886 in. sq.	8,412 in. sq.

Separation grate length = 4'

Threshing grate length = 3.5'

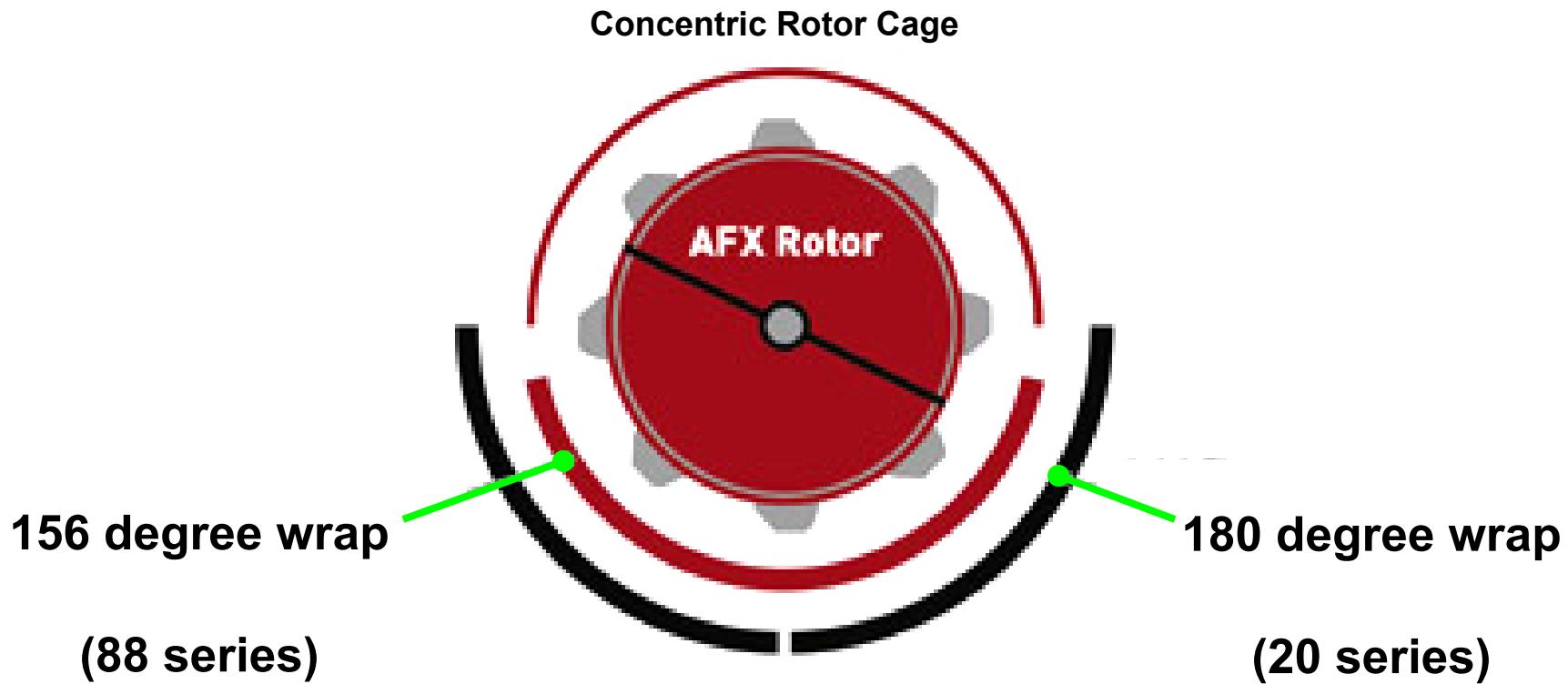


Threshing
area
 $30'' \times 42''$



LEXION®

88 series vs. 20 series Axial-Flow combines



**LEXION
advantage**

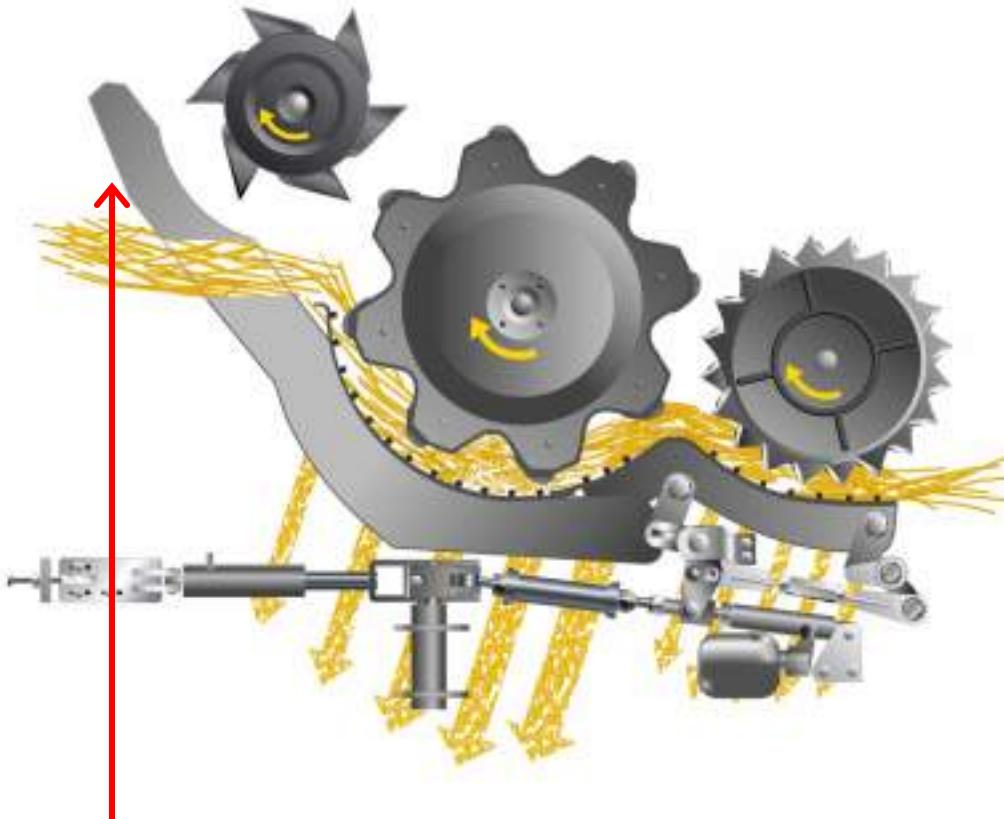
LEXION concave wrap:

$$580R - 560R: 125^\circ \times 2 = 250^\circ$$

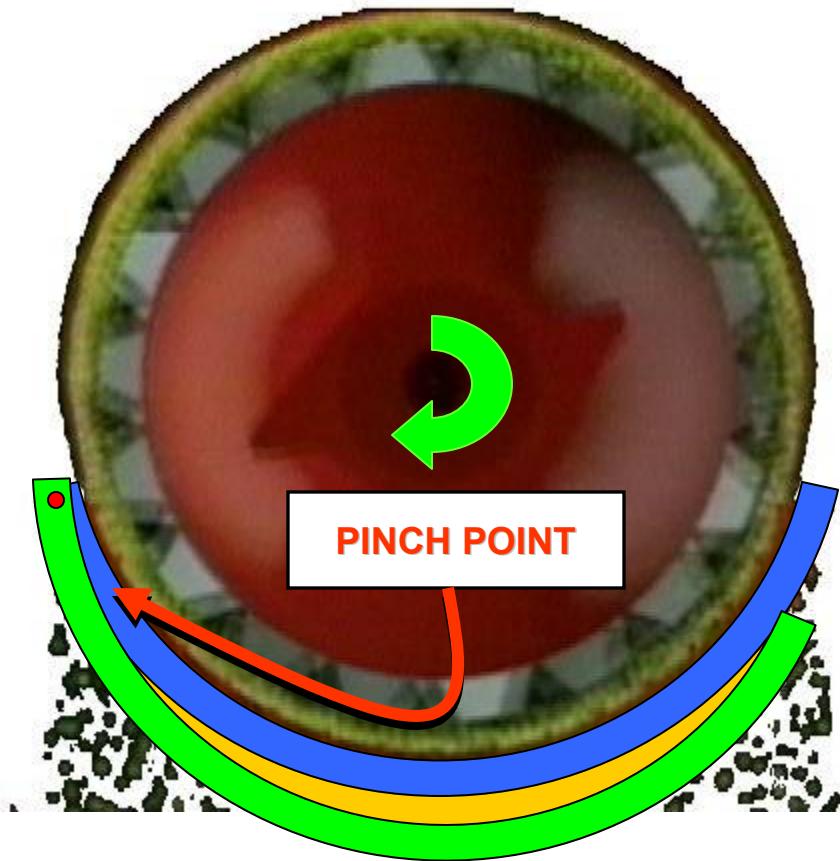
$$590R: 150^\circ \times 2 = 300^\circ$$

LEXION®

CONCAVE COMPARISON



Pivot point high = Parallel movement



 = Concave Closed

 = Concave Open

 = Dead Spot

Movement same as with a cylinder

(1.6) 9120's to equal (1) 590R/595R



8,412 in²



62%

larger



5,177 in²

Total Threshing and
Separation Area

(1.3) 20 series CIH's to equal (1) LEXION



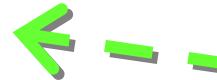
570R / 575R (7)
580R / 585R (8)



7120 (7)
8120 (8)



6,886 in²



33%
larger

5,177 in²

Total Threshing and
Separation Area

(1.6) 88 series CIH's to equal (1) LEXION



560R (6)
570R / 575R (7)



6088 (6)
7088 (7)

6,886 in²



56%
larger

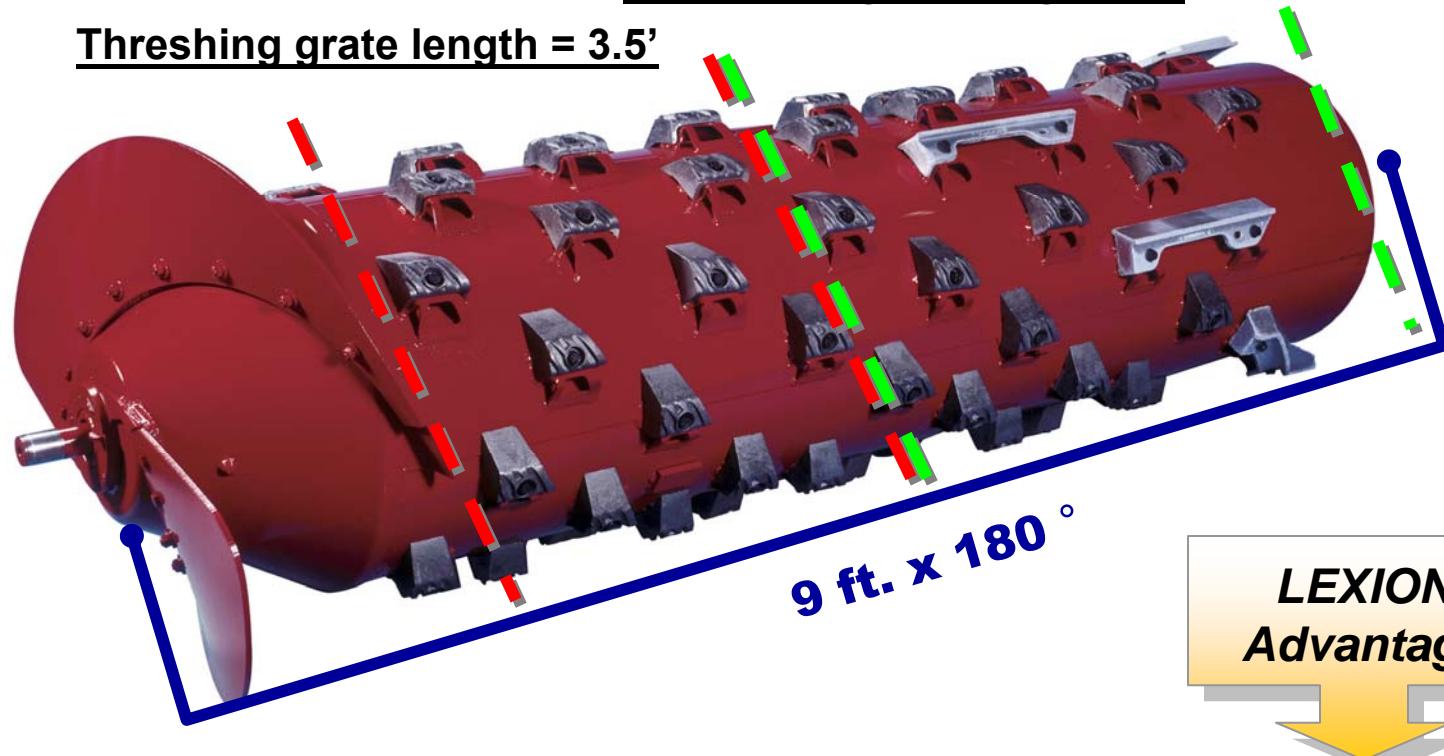
4,406 in²



Total Threshing and
Separation Area

Separation grate length = 4'

Threshing grate length = 3.5'



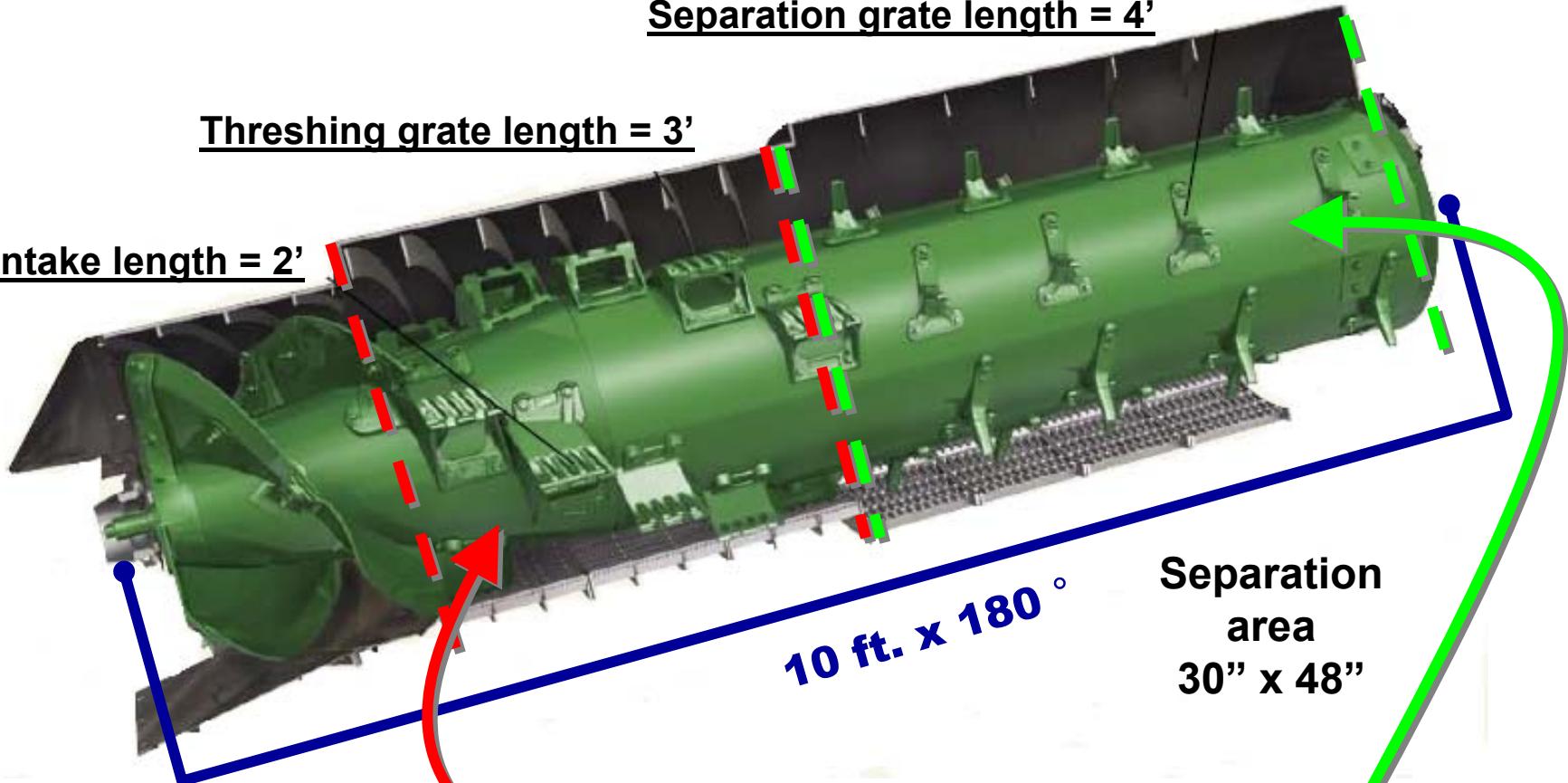
Threshing and Separation area:	9120: 5,177 in. sq.	590R: 8,412 in. sq.	62% more area or 1.6 9120's = 1 590R
	8120: 5,177 in. sq.		33% more area or 1.3 8120's = 1 580R
	7120: 5,177 in. sq.		33% more area or 1.3 7120's = 1 570R
	7088: 4,406 in. sq.	580R - 560R: 6,886 in. sq.	56% more area or 1.6 7088's = 1 570R
	6088: 4,406 in. sq.		56% more area or 1.6 6088's = 1 560R

LEXION®

Separation grate length = 4'

Threshing grate length = 3'

Intake length = 2'



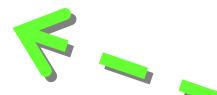
Threshing
area
30" x 36"



(2) 9870's to equal (1) 590R / 595R



8,412 in²



105%
larger



4,095 in²

Total Threshing and
Separation Area



(1.7) STS's to equal (1) LEXION



560R (6)
570R / 575R (7)
580R / 585R (8)

6,886 in²

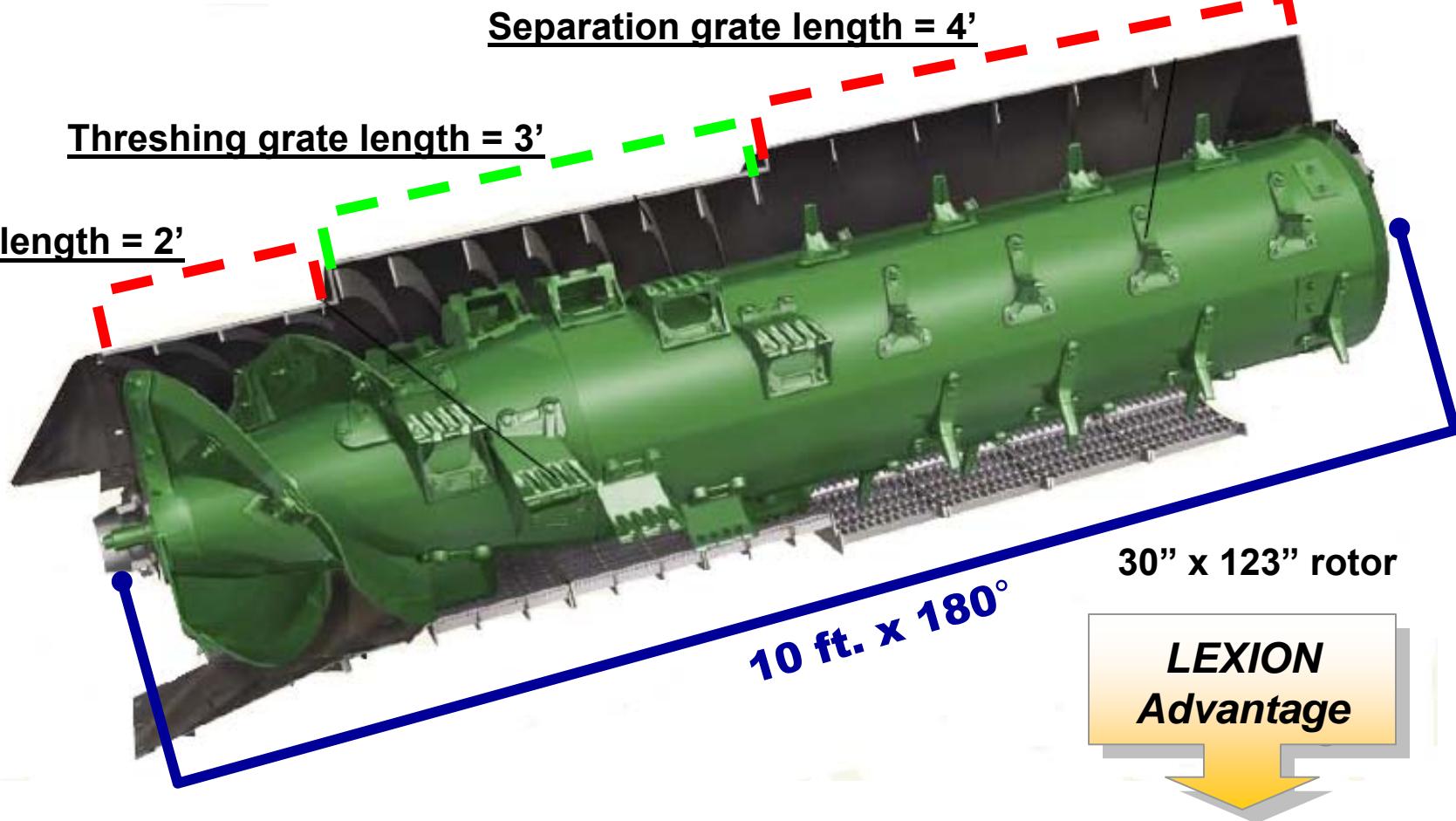
68%
larger

Total Threshing and
Separation Area

9670 STS (6)
9770 STS (7)
9870 STS (8)



4,095 in²

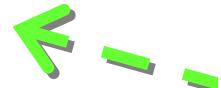


Threshing and Separation area:	(no class 9)	590R: 8,412 in. sq.	100% more area or 2.0 9870's = 1 590R
	4,095 in. sq.	580R: 6,886 in. sq.	68% more area or 1.7 STS = 1 580R
	4,095 in. sq.	570R: 6,886 in. sq.	68% more area or 1.7 STS = 1 570R
	4,095 in. sq.	560R: 6,886 in. sq.	68% more area or 1.7 STS = 1 560R

(1.8) 9080's to equal (1) 590R / 595R



8,412 in²



77%
larger



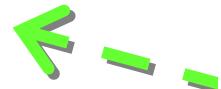
4,747 in²

Total Threshing and
Separation Area

(1.5) 9070's to equal (1) 580R / 585R



6,886 in²



45%
larger



4,747 in²



Total Threshing and
Separation Area

(1.8) CR's to equal (1) LEXION



560R (6)
570R / 575R (7)



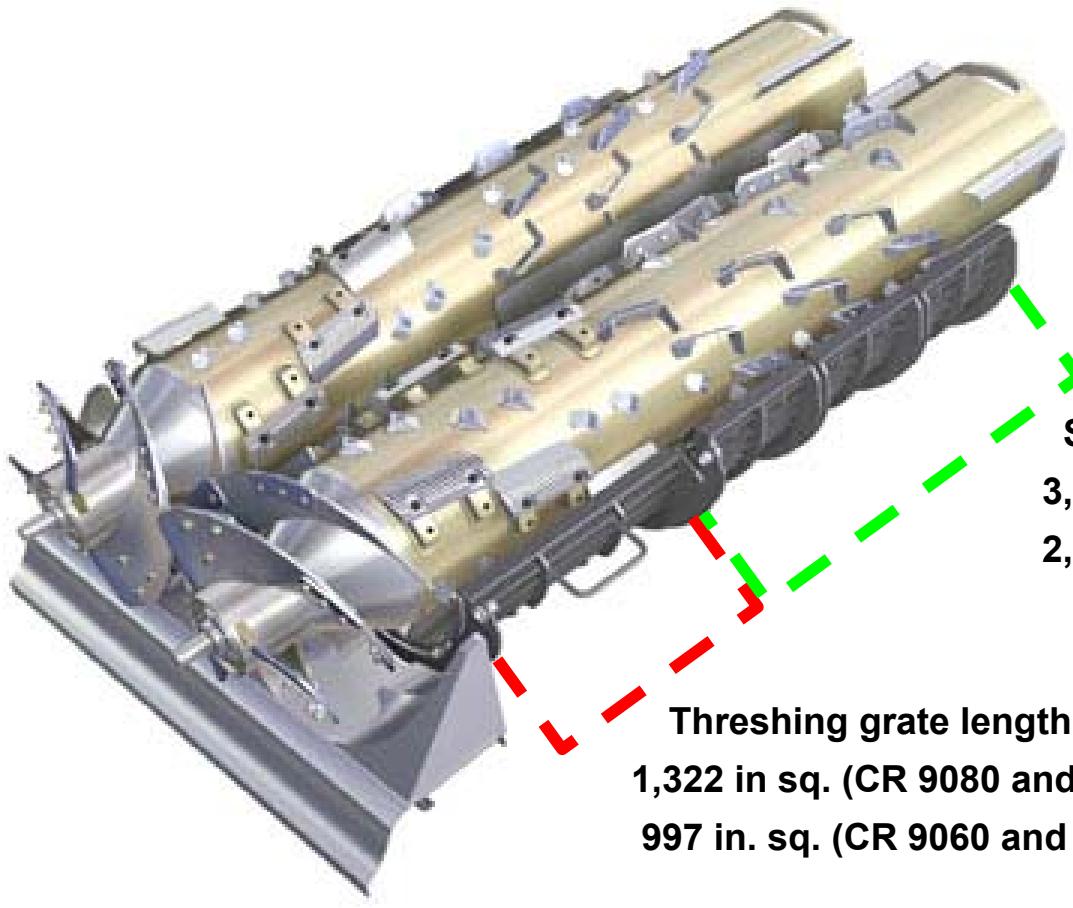
CR 9040 (6)
CR 9060 (7)

6,886 in²

84%
larger

3,737 in²

Total Threshing and
Separation Area



Separation grate length = 4.5'
3,425 in. sq. (CR 9080 and 9070)
2,760 in. sq. (CR 9060 and 9040)

Threshing grate length = 3'
1,322 in. sq. (CR 9080 and 9070)
997 in. sq. (CR 9060 and 9040)

LEXION
Advantage

Threshing and Separation area:	CR 9080: 4,747 in. sq.	590R: 8,412 in. sq.	77% more area or 1.8 CR9080 = 1 590R
	CR 9070: 4,747 in. sq.		45% more area or 1.5 CR9070 = 1 580R
	CR 9060: 3,737 in. sq.	580R - 560R: 6,886 in. sq.	84% more area or 1.8 CR9060 = 1 570R
	CR 9040: 3,737 in. sq.		84% more area or 1.8 CR9040 = 1 560R

Avg. Competitive throughput area vs. LEXION



1.8
combines



1.73
combines



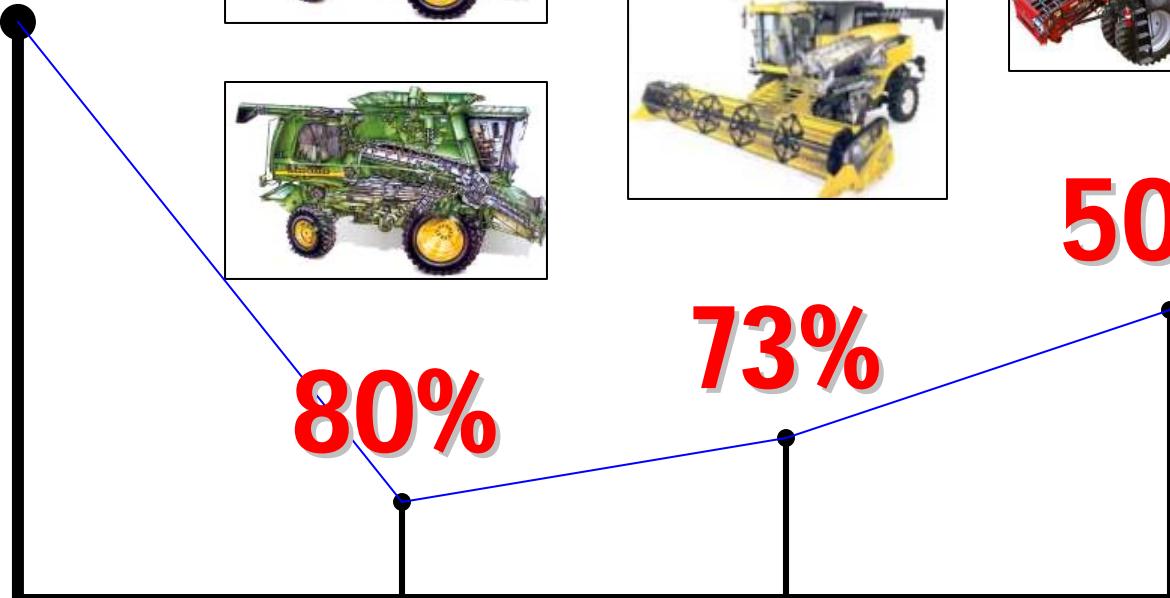
1.5
combines



50%

73%

80%



Represents % more LEXION area

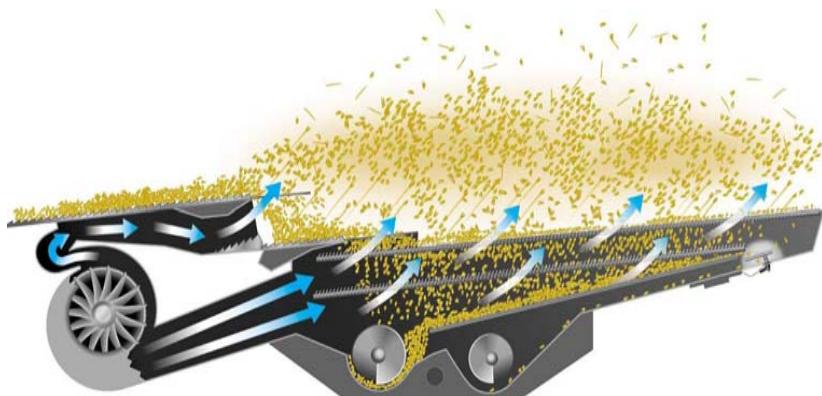
LEXION®

Leading Throughput Capacity

LEXION
Advantage

Threshing and Separation area:	9120: 5,177 in. sq.	590R: 8,412 in. sq.	62% more area or 1.6 9120's = 1 590R
	8120: 5,177 in. sq.	580R - 560R: 6,886 in. sq.	33% more area or 1.3 8120's = 1 580R
	7120: 5,177 in. sq.		33% more area or 1.3 7120's = 1 570R
	7088: 4,406 in. sq.		56% more area or 1.6 7088's = 1 570R
	6088: 4,406 in. sq.		56% more area or 1.6 6088's = 1 560R
Threshing and Separation area:	(no class 9)	590R: 8,412 in. sq.	100% more area or 2.0 9870's = 1 590R
	9870 STS: 4,095 in. sq.	580R: 6,886 in. sq.	68% more area or 1.7 STS = 1 580R
	9770 STS: 4,095 in. sq.	570R: 6,886 in. sq.	68% more area or 1.7 STS = 1 570R
	9670 STS: 4,095 in. sq.	560R: 6,886 in. sq.	68% more area or 1.7 STS = 1 560R
Threshing and Separation area:	CR 9080: 4,747 in. sq.	590R: 8,412 in. sq.	77% more area or 1.8 CR9080 = 1 590R
	CR 9070: 4,747 in. sq.	580R - 560R: 6,886 in. sq.	45% more area or 1.5 CR9070 = 1 580R
	CR 9060: 3,737 in. sq.		84% more area or 1.8 CR9060 = 1 570R
	CR 9040: 3,737 in. sq.		84% more area or 1.8 CR9040 = 1 560R

LEXION JET STREAM



DEERE DYNA FLOW II

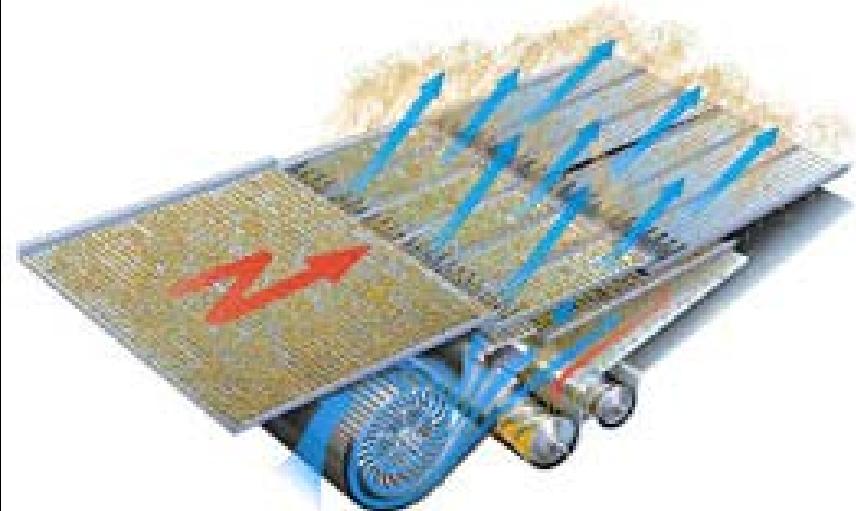


CLEANING SYSTEMS

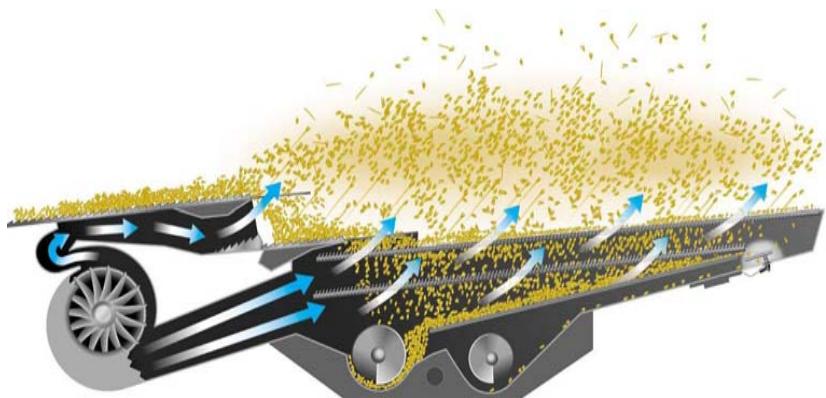
CASE IH 88 series



NEW HOLLAND CR & CIH 20 series



LEXION JET STREAM



DEERE DYNA FLOW II

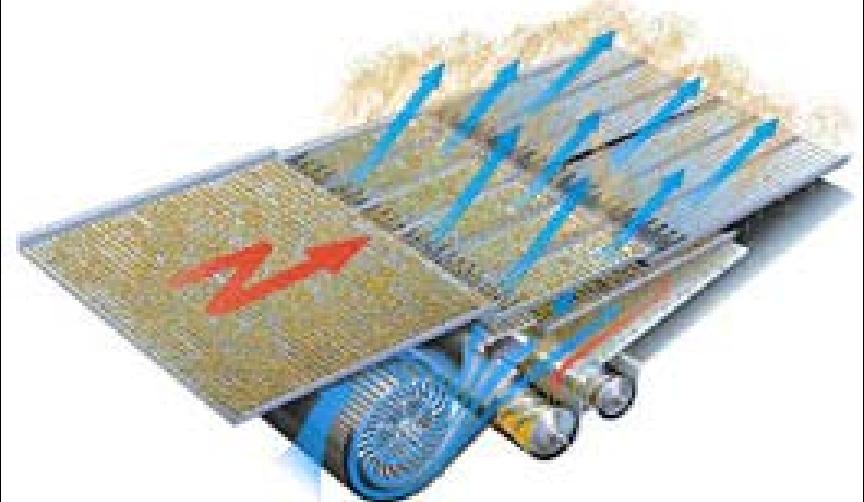


DYNAMICS = CAPACITY

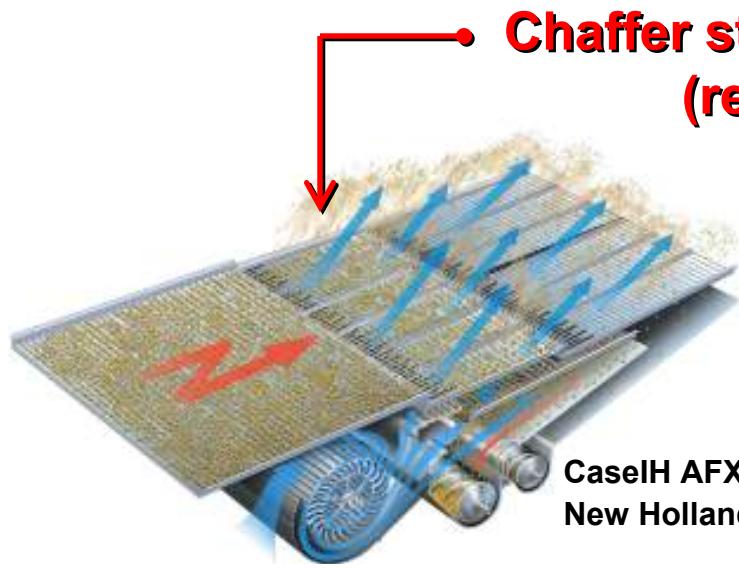
CASE IH 88 series



NEW HOLLAND CR & CIH 20 series



CLEANING



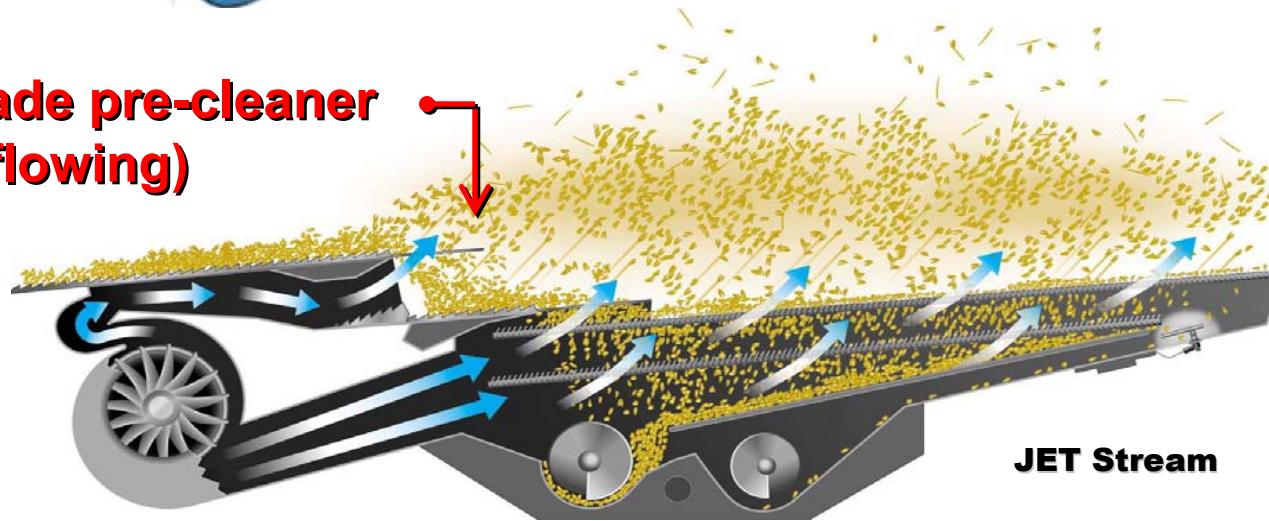
Chaffer style pre-cleaner
(restrictor)

CaseIH AFX
New Holland CR



John Deere STS

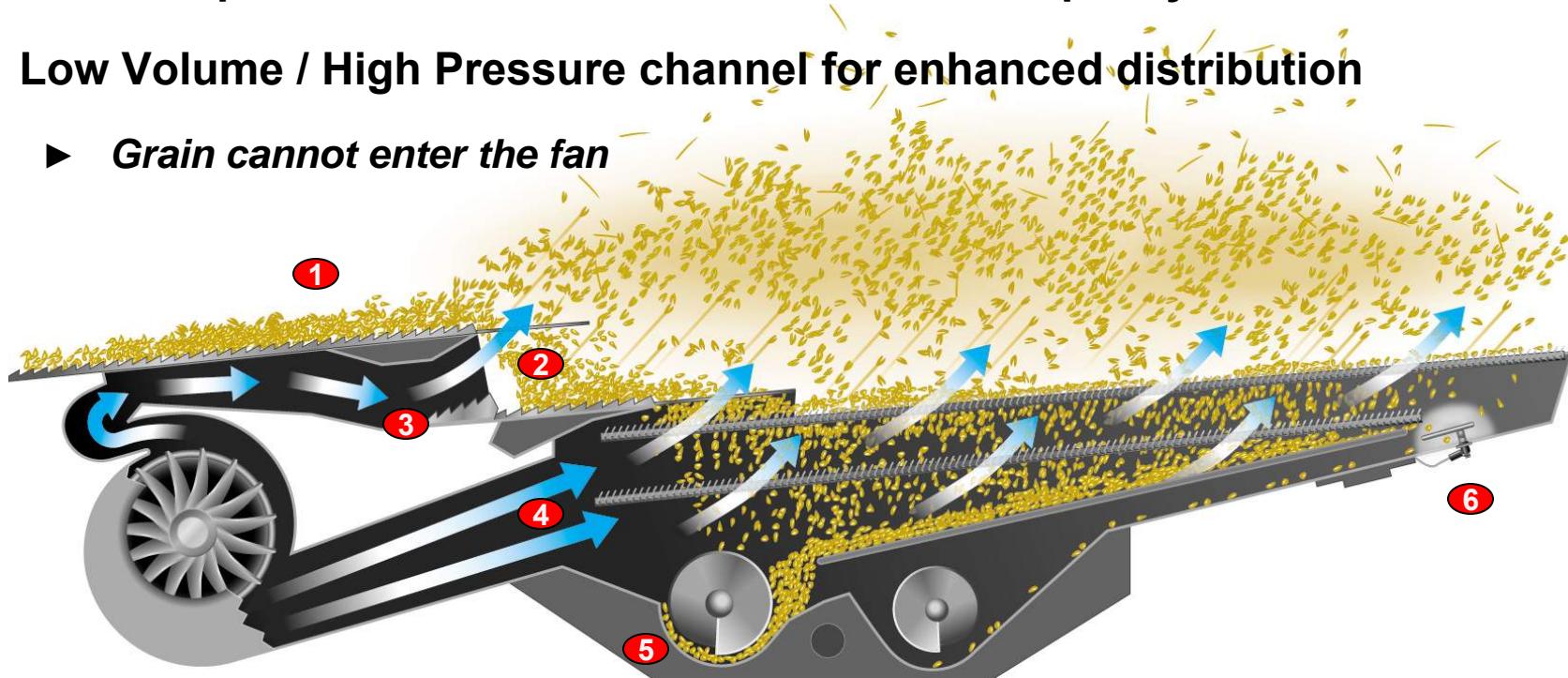
Cascade pre-cleaner
(free flowing)



LEXION 500 series

JETSTREAM CLEANING SYSTEM

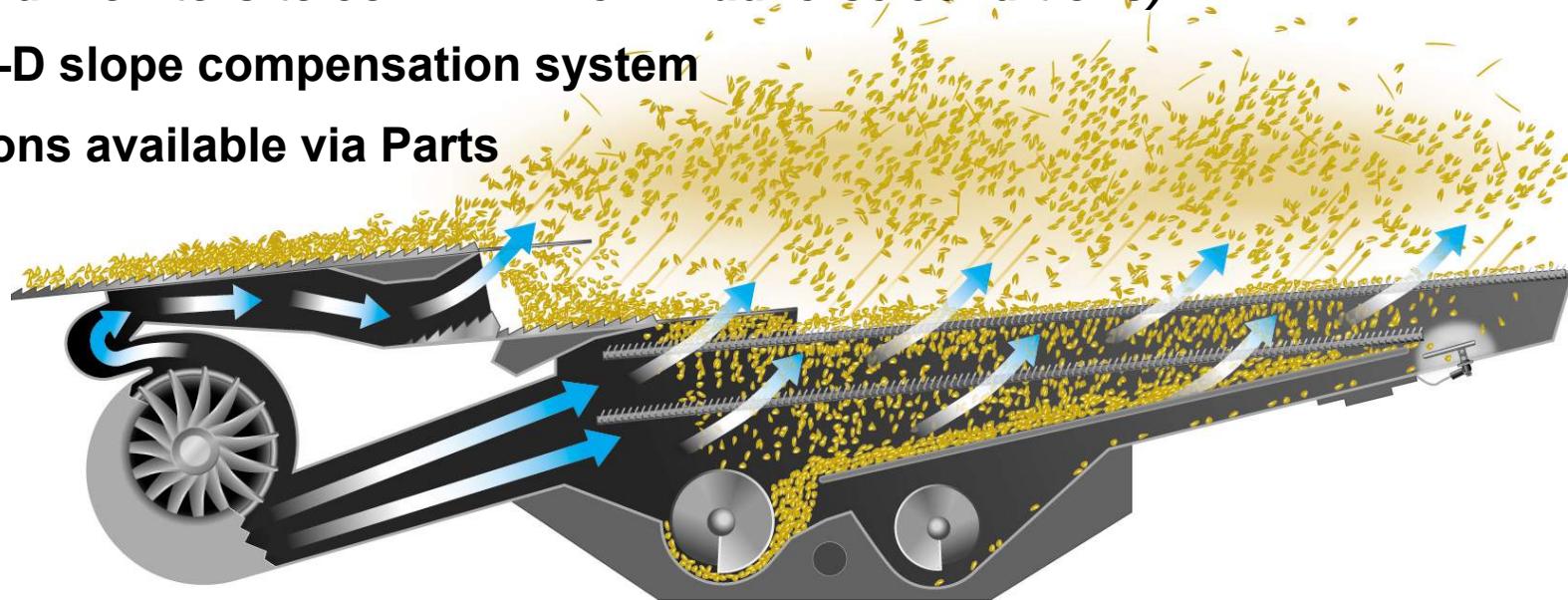
- ① Preparation pan grain conveyor (no shoe augers) gently handles grain
- ② Cascade pre-cleaner for unrestricted flow and capacity
- ③ Low Volume / High Pressure channel for enhanced distribution
 - *Grain cannot enter the fan*



- ④ High Volume / Low Pressure for enhanced cleaning suspension
- ⑤ Jet Stream clean grain cross auger is 25% larger than previous 400R series
- ⑥ Grain analyzer: measures the amount of grain with in the returns

JETSTREAM CLEANING SYSTEM

- Available in all 500R models from 2006 – present
- Class leading capacity achieved through enhanced **dynamics** and optimized air flow
- Less sensitive to fluctuations in material volume to maximize loss control and cleaning performance
- Up to 25% more grain handling capacity than previous models (per class)
 - ▶ *Up to 6,000 bph elevator capacity (pending conditions – don't always rely on yield monitors to confirm when in adverse conditions)*
- Optional 3-D slope compensation system
- Sieve options available via Parts

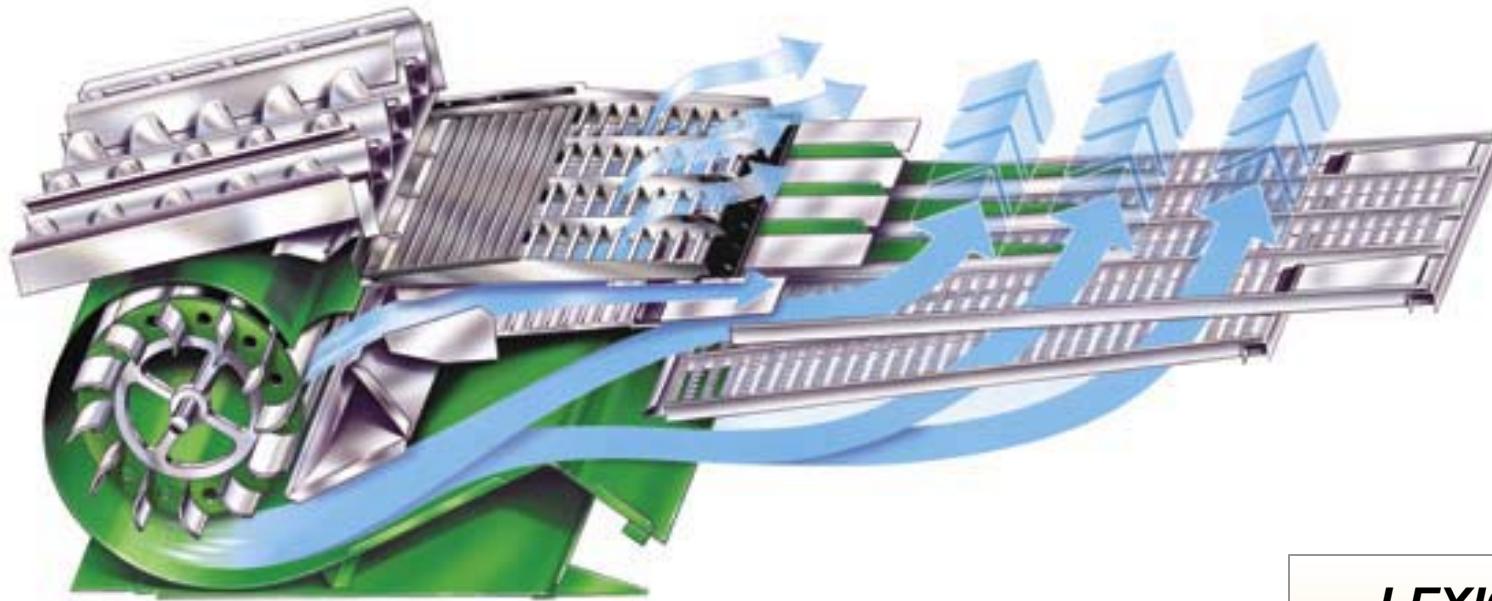


PREP-PAN CONVEYOR

Preparation Pan – NO SHOE AUGERS!

- Gravity table action eliminates the need for augers under the concave, assuring the best grain sample and less maintenance
- Stratifies crop from chaff for the highest cleaning efficiency
- Floor is easily removed through the rock trap

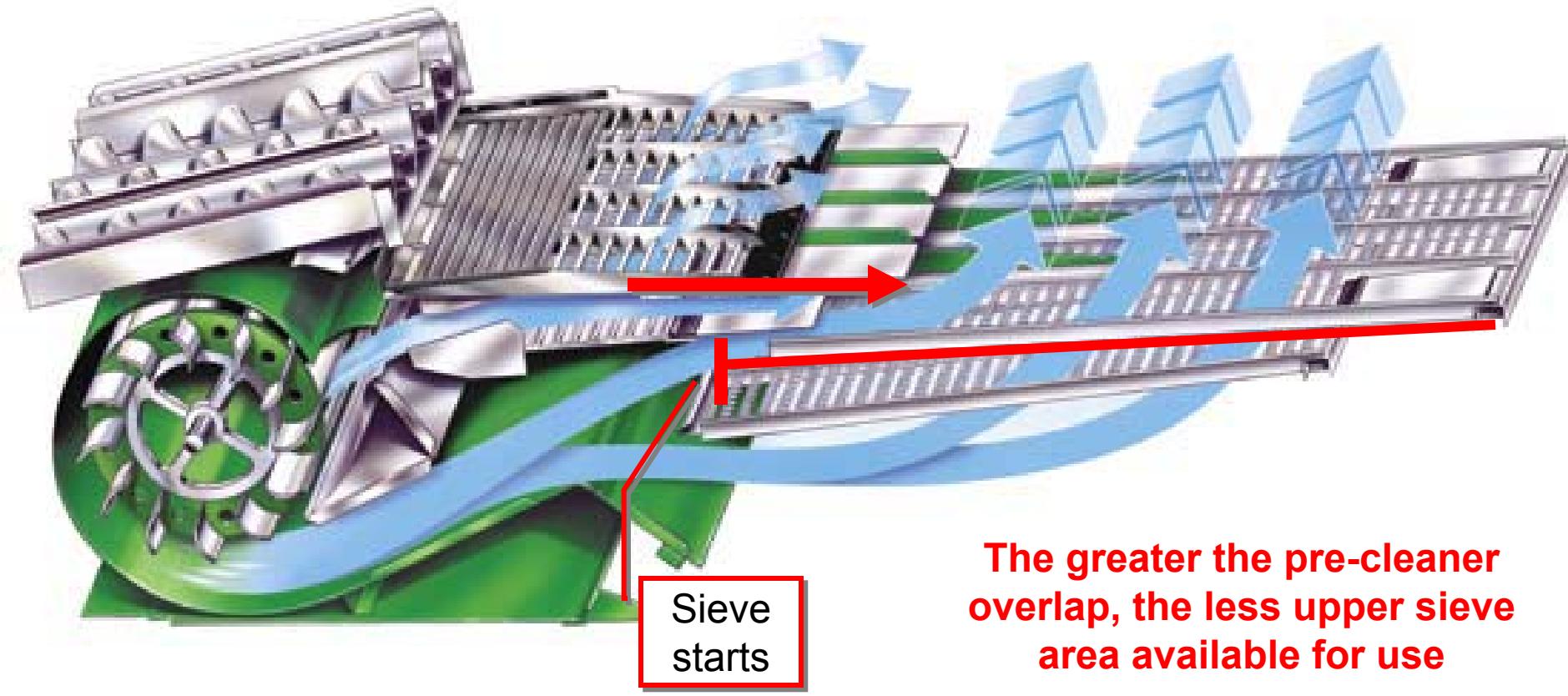




LEXION
Advantage

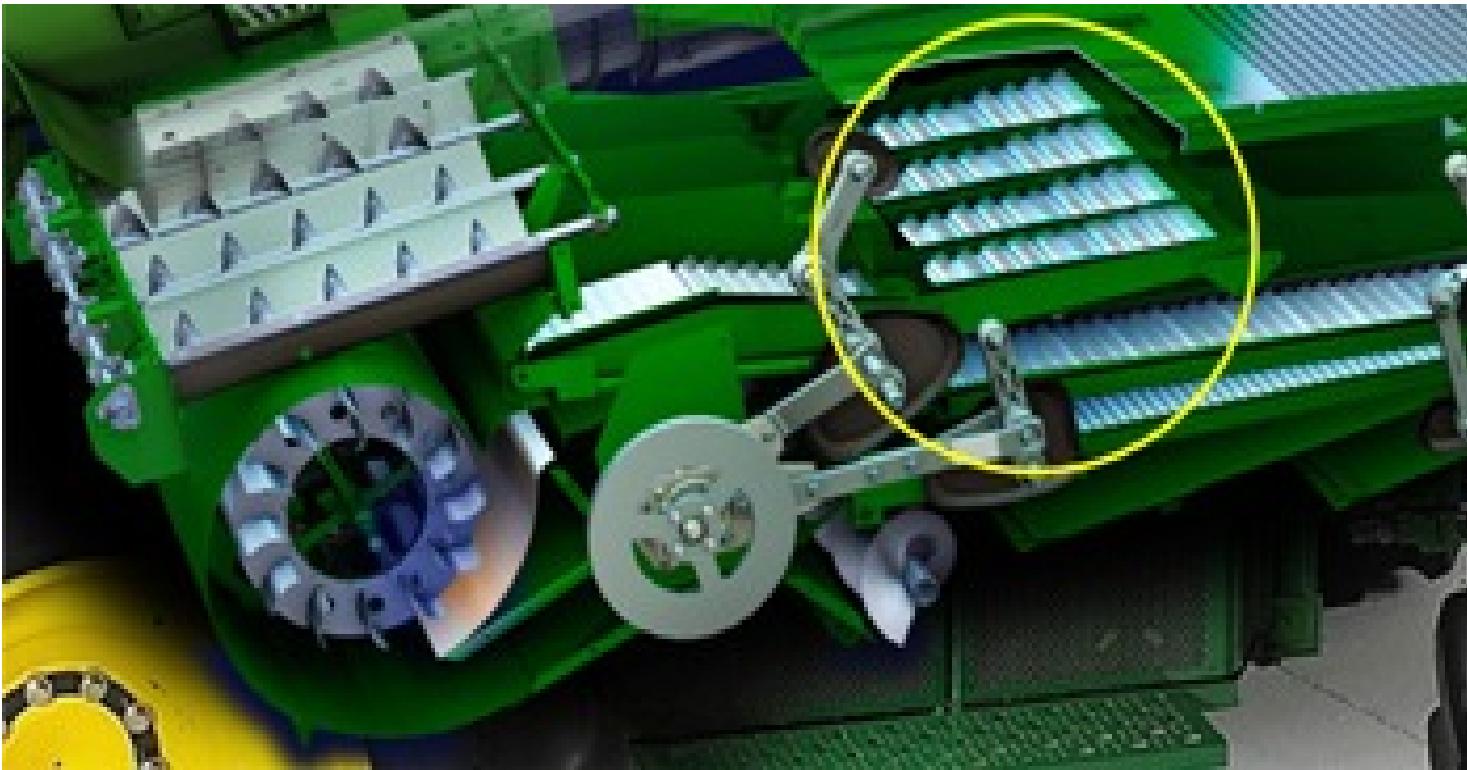
Cleaning area:	9870: 8,143 in. sq. w/o self-leveling shoe	580R: 7,905 in. sq.	Nominal difference (3%) in area
	9870: 7,789 in. sq. with self-leveling shoe		Nominal difference (1.4%) in area
	9770: 6,964 in. sq.	570R: 7,905 in. sq.	14% more area or 1.14 9770's = 1 570R
	9670: 6,964 in. sq.	560R: 7,905 in. sq.	14% more area or 1.14 9670's = 1 560R

LEXION®



The greater the pre-cleaner overlap, the less upper sieve area available for use

Note: Chaffer style pre-cleaners prevent full use of the upper sieve, especially with the **pre-cleaner extension**

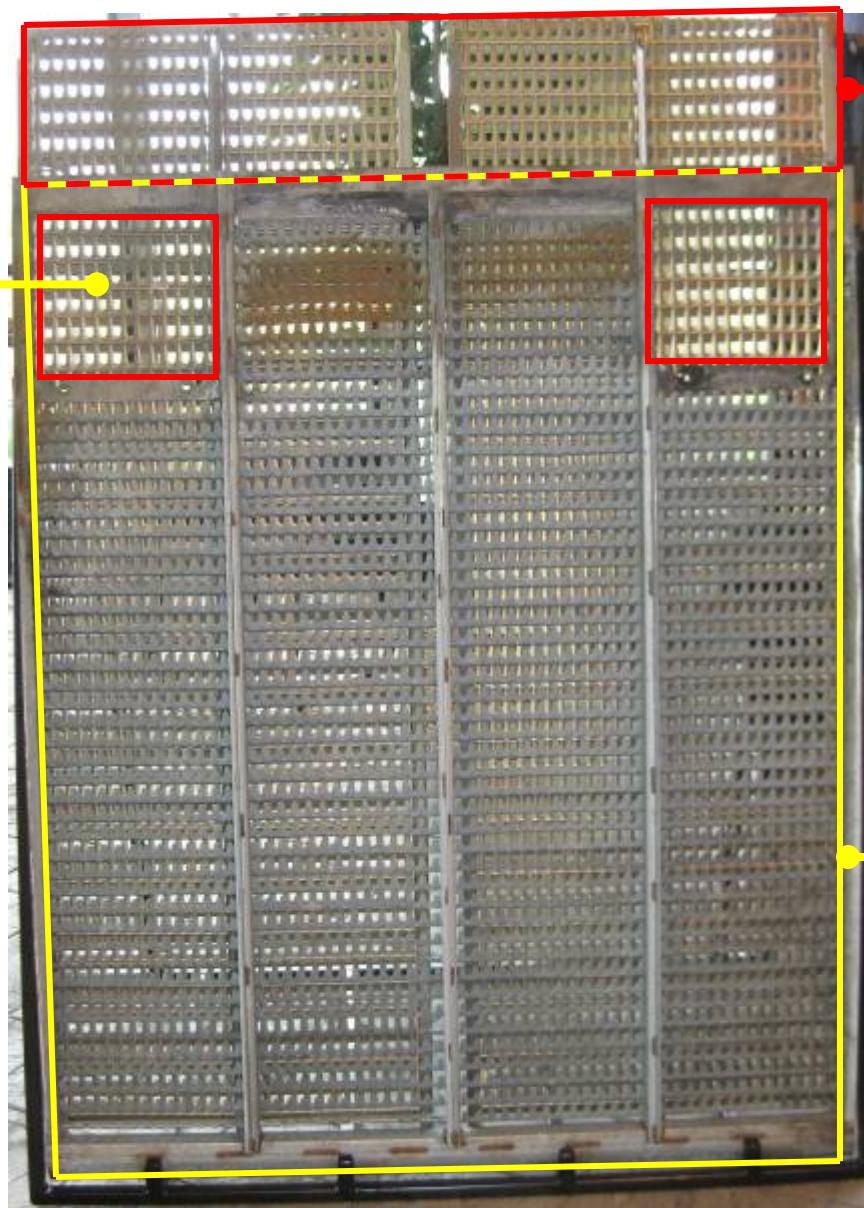


Added pre-cleaner extension – a maneuver to promote more cleaning area on paper. It actually limits the use of upper sieve area further than standard pre-cleaner

**9870 w/o self-leveling shoe:
8,143 in²**

**9870 with self-leveling shoe:
7,789 in²**

LEXION®

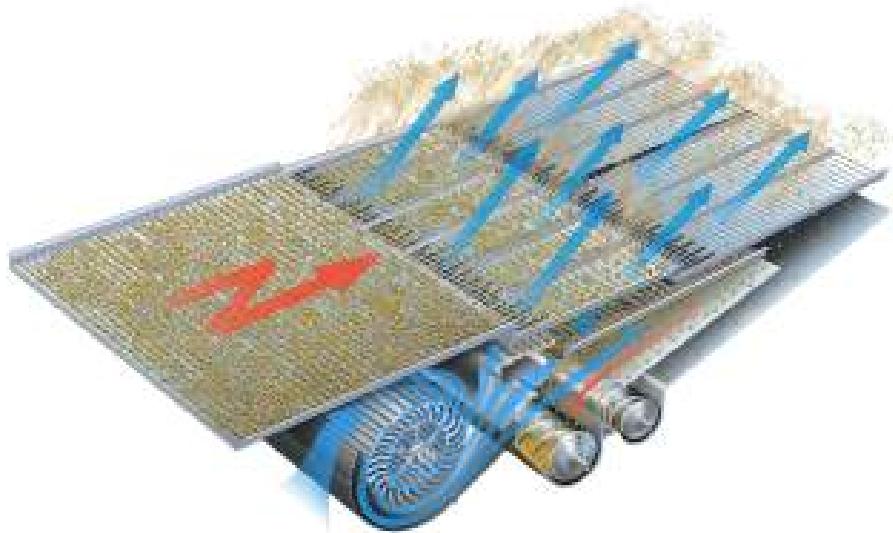


The notched STS corners promote increased returns and reduce the upper sieve area by 6%.

The loss sensors are also located just beyond this region (not full width like LEXION) making true loss difficult to detect

LEXION
560R - 585R
upper sieve
72" long

STS 9860
upper sieve
55" long



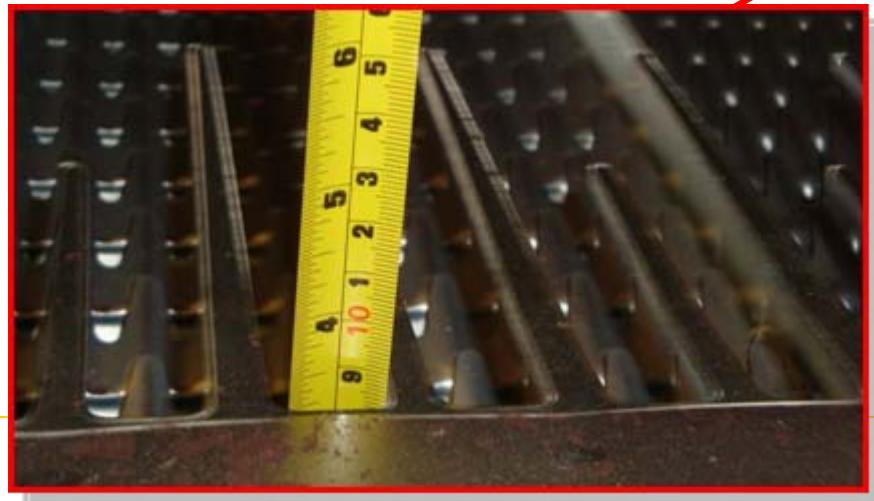
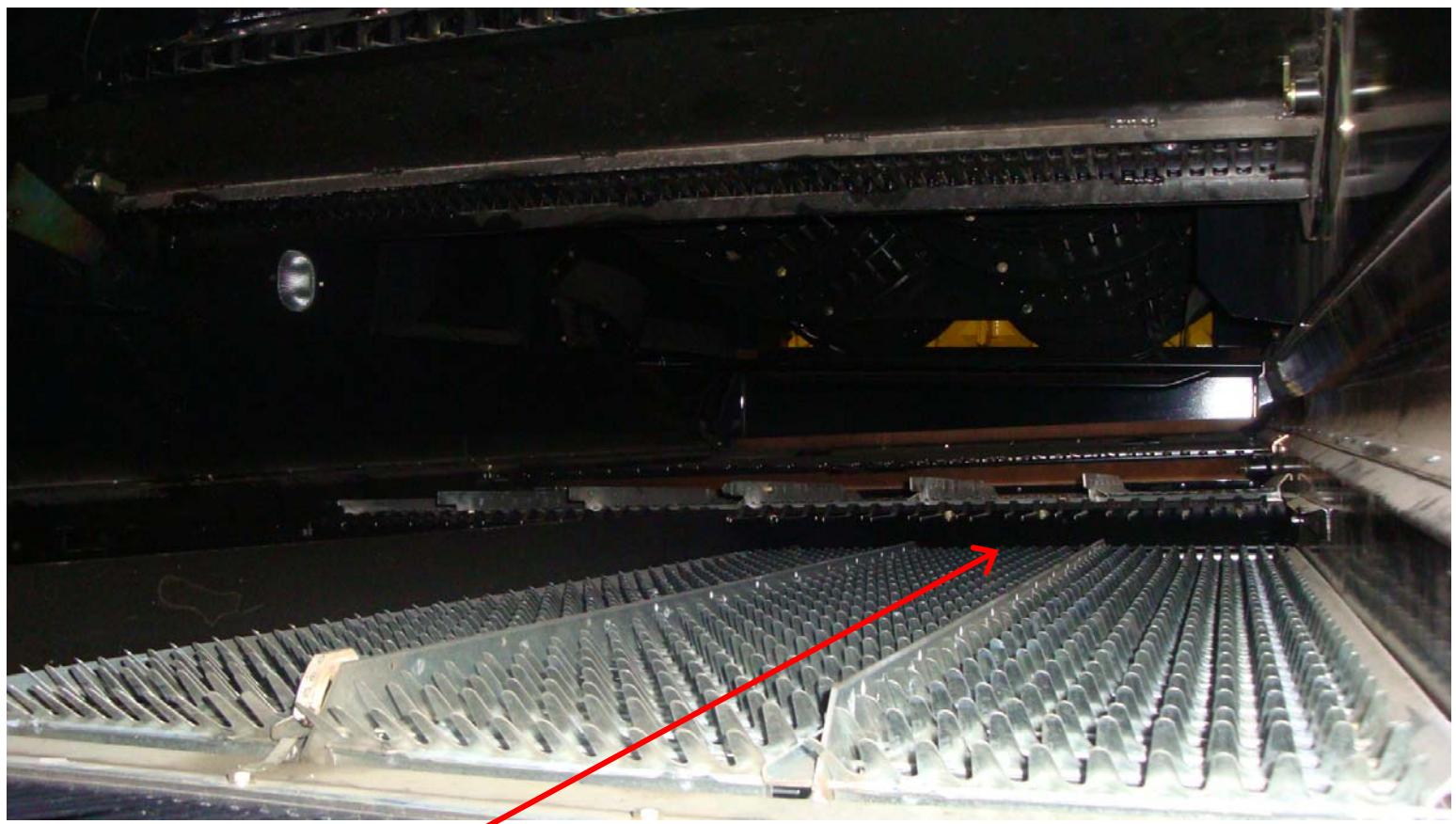
20 series CIH & NH CR



88 series CIH

- ▶ *Originated in the NH TX small grains straw walker combine*
- ▶ *Returns processing via “re-threshers,” watch for trends in grain loss*

Cleaning area:	9120: 10,075 in. sq.	590R: 9,610 in. sq.
	8120: 10,075 in. sq.	580R: 7,905 in. sq.
	7120: 8,370 in. sq.	570R: 7,905 in. sq.
	7088: 7,947 in. sq.	570R: 7,905 in. sq.
	6088: 7,947 in. sq.	560R: 7,905 in. sq.

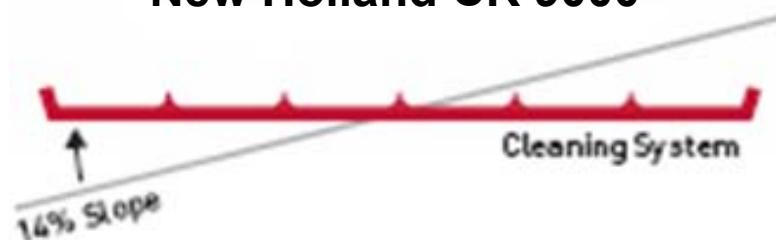


3-inch cascade

Shallow cascade, easily overburdened – inhibits airflow increasing grain loss



**Case IH 20 series
New Holland CR 9000**



CR pictured



Case IH 88 series



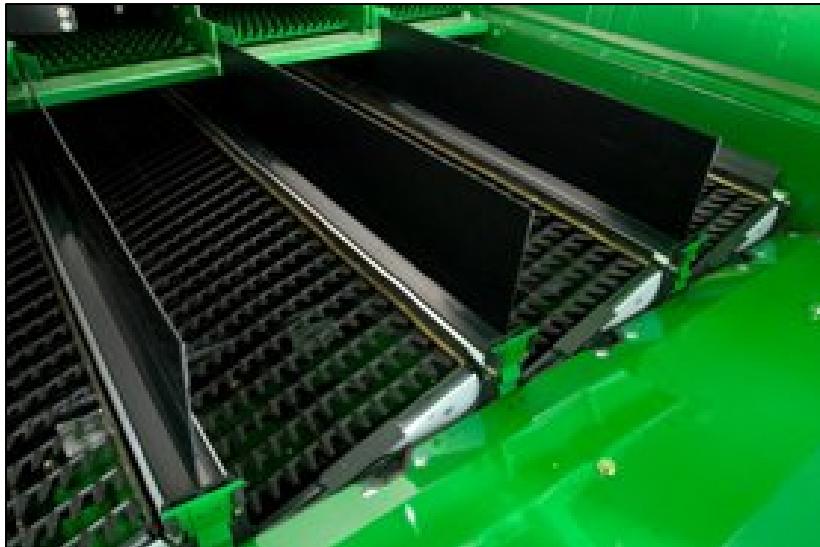
LEXION®

CASE IH “Correction factor”

Rice	Fan Speed	Cleaning Shoe Configuration								Tilt	
		Pre Sieve		Upper		Lower					
		Type	Clearance	Type	Clearance	Type	Clearance				
California	1000	1 5/8 closz	10	1 5/8 closz	20	1 5/8 closz	12	a			
Delta	1000	1 5/8 closz	10	1 5/8 closz	15	1 5/8 closz	12	a			
Stripper	1000	1 5/8 closz	12	1 5/8 closz	20	1 5/8 closz	22	a			
Australia	1000	1 5/8 closz	10	1 5/8 closz	20	1 5/8 closz	12	a			

a. SHOE TILT - In certain threshing conditions, it is recommended to address cleaning shoe distribution with tilting the left side of the shoe downward (facing direction of vehicle travel) in order to optimize cleaning performance. If distribution correction is determined to be necessary, calibrate the shoe tilt in 1 degree increments until distribution is positively affected. Crop / threshing

Note: Limits use of slope compensation feature



**STS “Over-compensation”
slope compensation system**

**Sieve channels oscillate via
individual servo motors
(upper and lower sieves)**

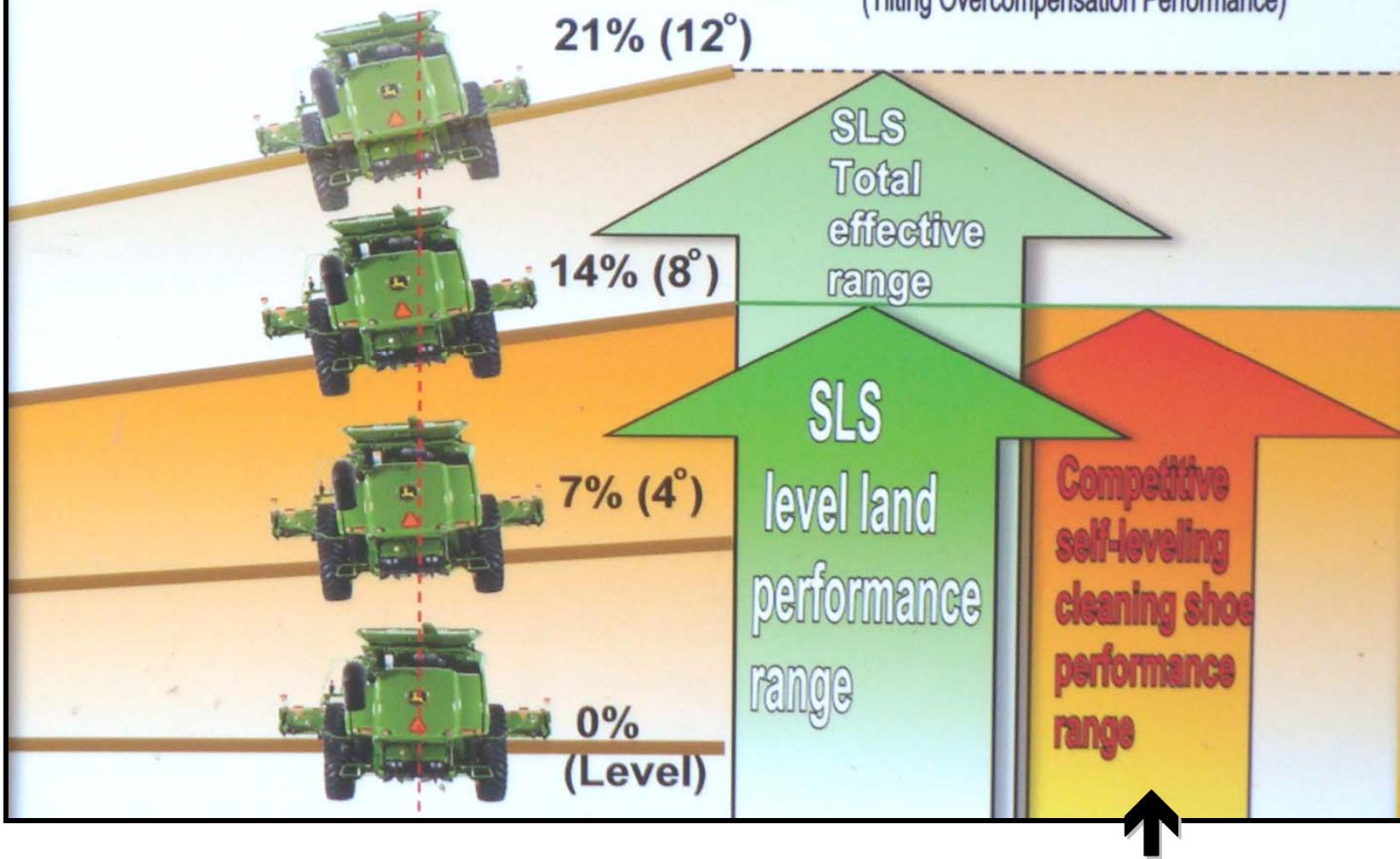
Up to 20-21%

**Same as LEXION 3-D
slope compensation system**



Self leveling Shoe Range for T.O.P. results

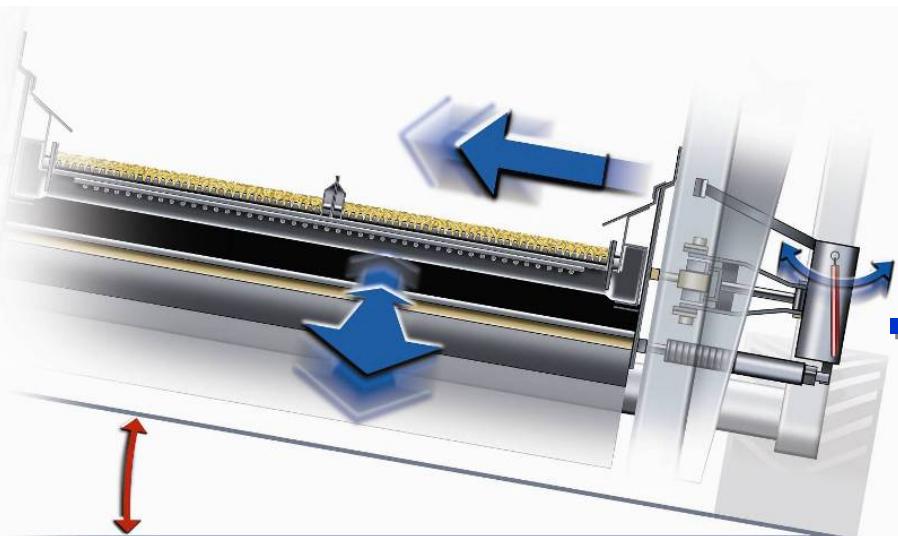
(Tilting Overcompensation Performance)



CNH comparison only – NO LEXION!

3-D “Dynamic” Slope Compensation

- ▶ Up to 20% slope
- ▶ Instantaneous response to side-to-side roll of combine
- ▶ No added electronics or data processing required
- ▶ Aids in minimizing headland loss



3-D “Dynamic” Slope Compensation

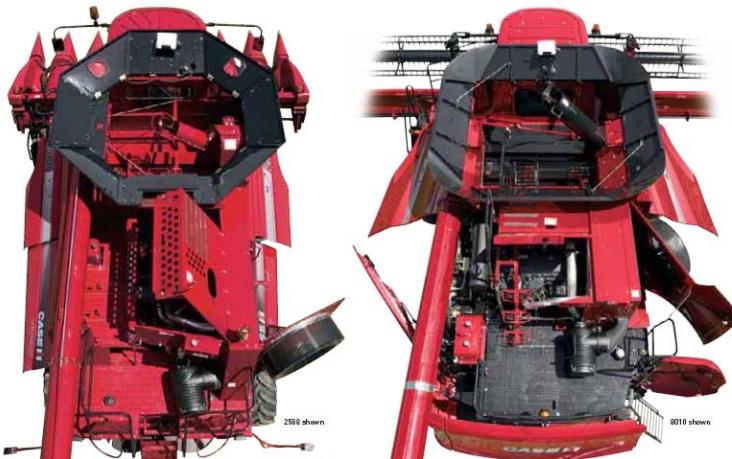
- ▶ Up to 20% slope
- ▶ Instantaneous response to side-to-side roll of combine
- ▶ No added electronics or data processing required
- ▶ Aids in minimizing headland loss



With 3D



Without 3D



LEXION Advantage

Grain tank:	9120: 350 bu.	590R: 360 bu.	3% more capacity
	8120: 350 bu.	580R: 330 bu.	
	7120: 315 bu.	570R: 300 bu. (330 opt.)	up to 5% more capacity
	7088: 300 bu.		up to 10% more capacity
	6088: 300 bu.	560R: 280 bu.	
<hr/>			
Unloading rate:	3.0 bps (88 series) 3.2 bps (20 series)	3.3 bps (570R – 590R) 2.8 bps (560R)	
<hr/>			
Unloading time:	9120: 1.8 mins.	590R: 1.8 mins.	
	8120: 1.8 mins.	580R: 1.6 mins.	11% faster unload time
	7120: 1.6 mins.	570R: 1.5 mins. (1.6 mins.)	6% faster unload time
	7088: 1.7 mins.		13% faster unload time
	6088: 1.7 mins.	560R: 1.6 mins.	6% faster unload time

LEXION®



LEXION Advantage

Grain tank:	9870: 300bu	580R: 330 bu.	
	9770: 300bu	570R: 300 (330 opt.)	
	9670: 300bu	560R: 280 bu.	
Unload rate:	3.3 bps (all)	580R - 570R: 3.3 bps	
		560R: 2.8 bps	
Unload time:	1.5 mins. (all)	580R: 1.6 mins.	6% faster
		570R: 1.5 mins. (1.6 mins.)	up to 6% faster
		560R: 1.6 mins.	6% faster

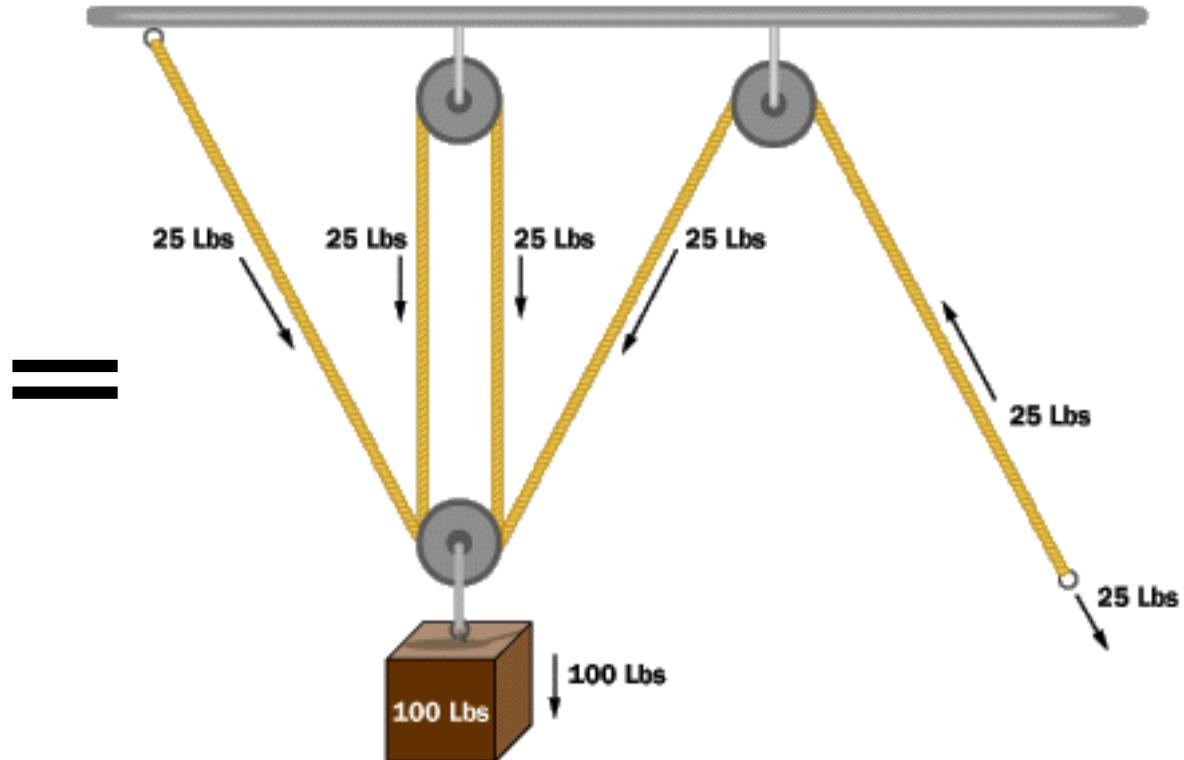
LEXION®

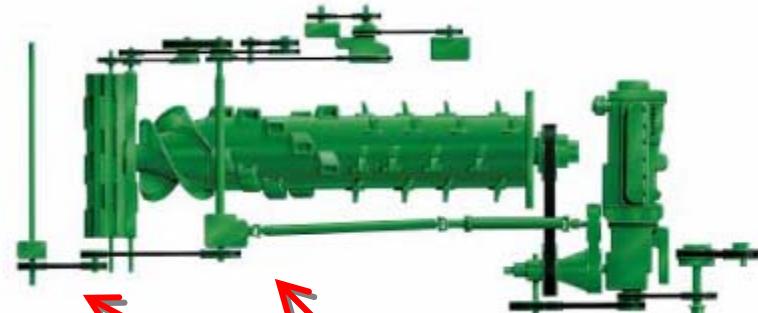
MULTI-STAGE BELT DRIVE

- **Highest efficiency** of any drive train when used to drive multiple systems (*feeding, threshing, separating, cleaning, grain handling chopping*) at one time
- Proven technology equals **greater durability**
- Independently adjustable threshing and separating speeds for greater adaptability
- Class leading fuel economy, by **design**

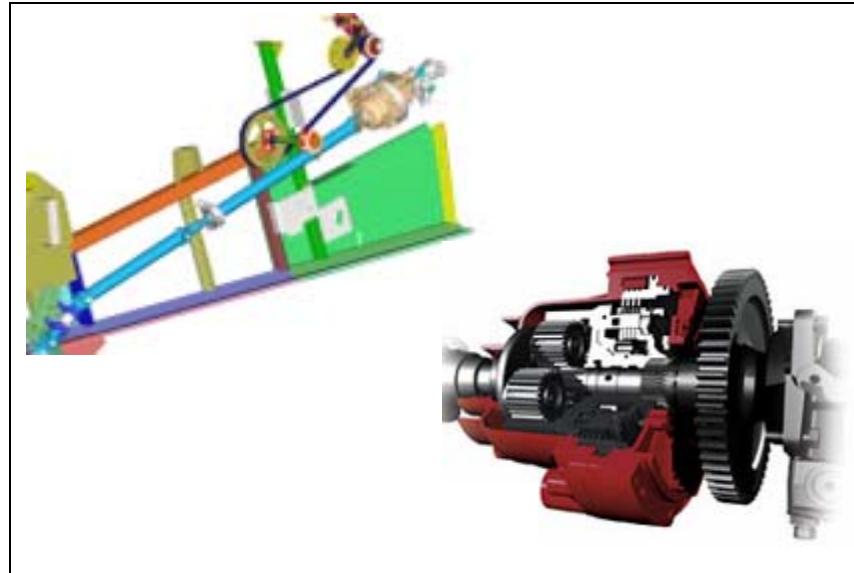


SIMPLICITY





DRIVETRAIN



5% loss ea.

Replace / Reman.

Vs.

A belt and/or pulley
(strong reliance on the dealer)

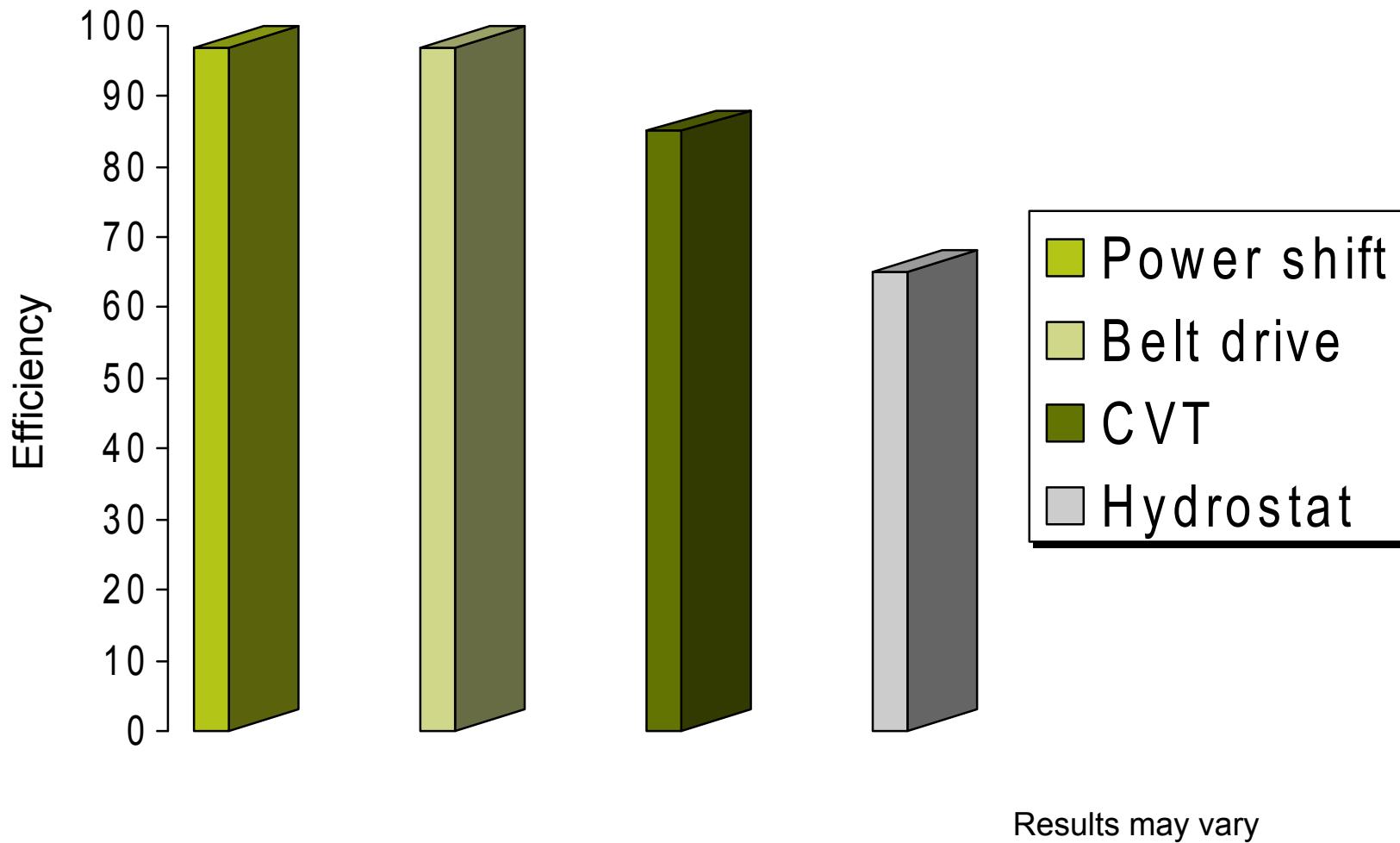
EFFICIENCY



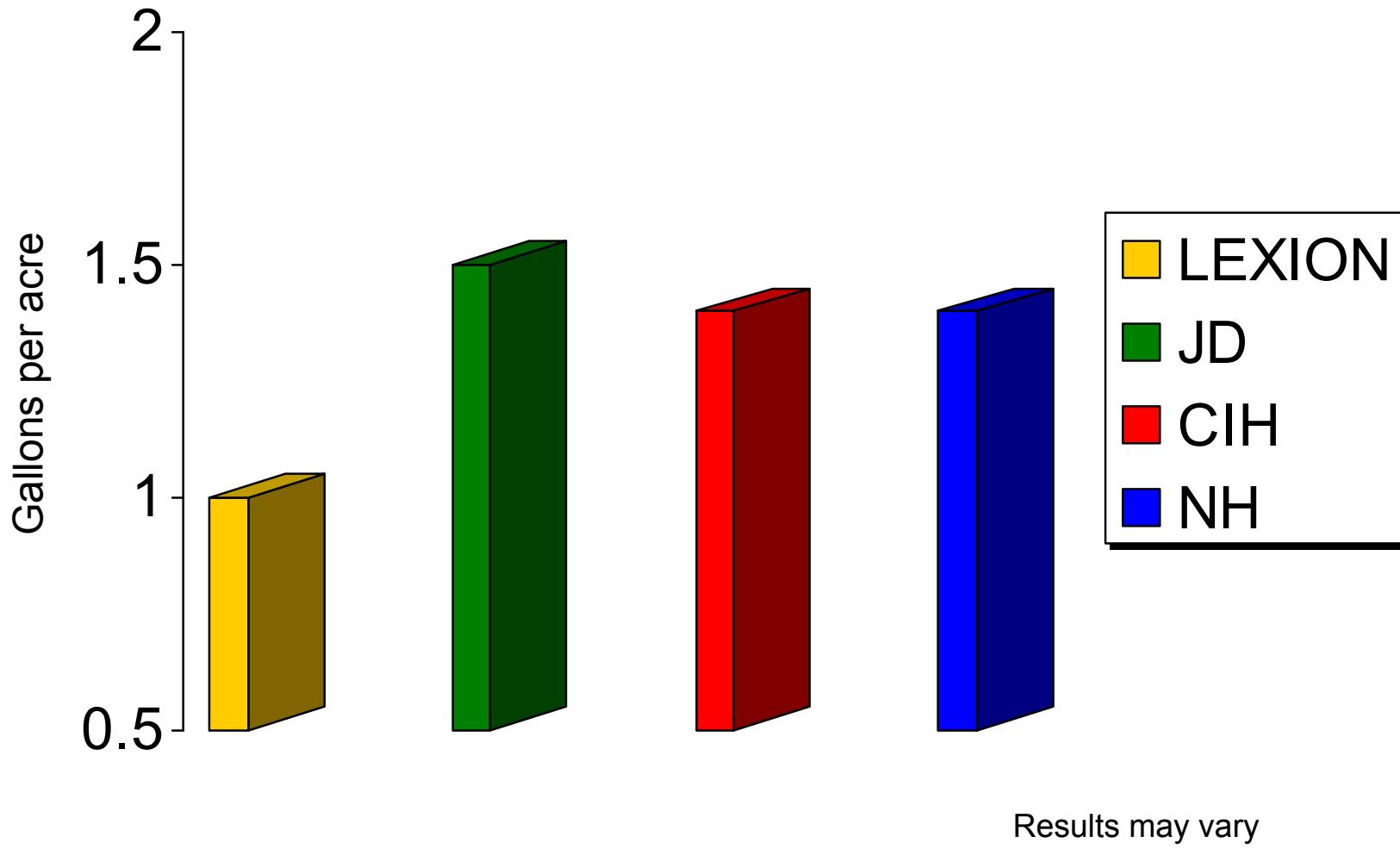
Passing on the inside track is faster due to the smaller circumference

The smaller the diameter the less power required to achieve equal to, or greater separation force than a larger diameter single rotor.

POWERTRAIN COMPARISON



FUEL CONSUMPTION



CONTROL

Monitor consolidation

- *Console with integrated monitor (except Deere)*



New Holland CR



CaseIH AFX

LEXION 500R series



John Deere STS



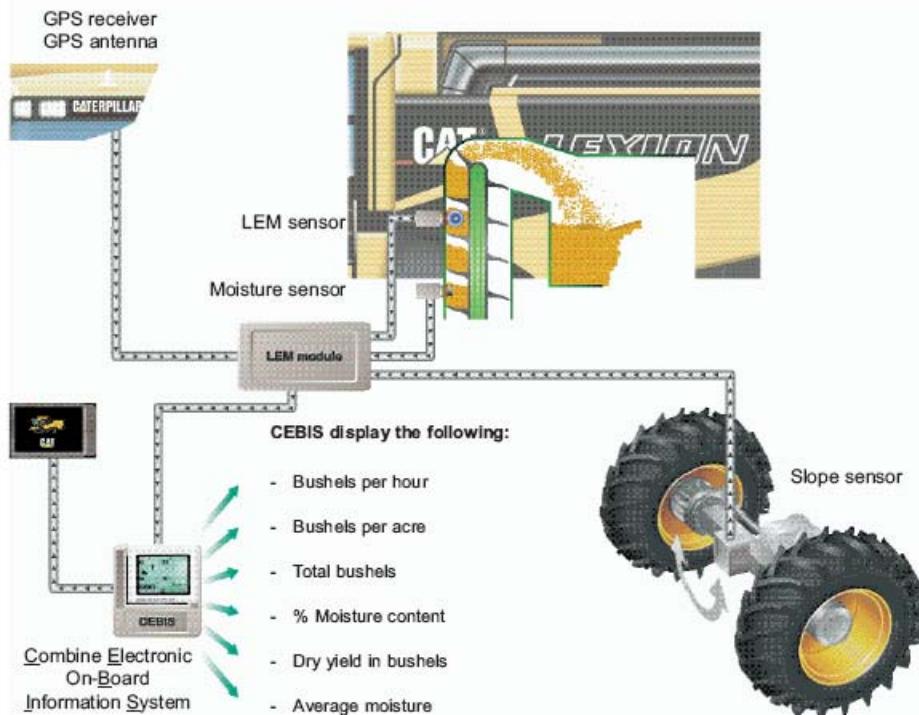
LEXION®

YIELD MONITORING & MAPPING

Yield Mapping = Yield monitoring + GPS + Mapping software

↓
QUANTIMETER LEXION Yield Tools

With Yield Mapping, yield monitoring data can be stored on a PCMCIA card and later processed on the farm computer. The data on the card is a real-time log of geo-referenced yield data for use as a management tool. Geo-reference uses GPS technology to match yield and moisture data to a precise location (latitude and longitude coordinates) within a field.



Ag Leader Technology

LEXION combines can be ordered with a factory-installed Ag Leader precision farming system. This option includes the 10.4 in. color touch-screen INSIGHT display, yield and moisture sensors, GPS 1100 "all-in-the-antenna" unit, the SMS Basic program and Ag Leader sensors.

Yield and moisture sensors mount to different positions on the clean grain elevator and are not compatible with LEXION sensors.



Returns

The returns are spread in front of the accelerator cylinder. They are distributed across its full width and can progress through the entire threshing system again.

The operator can visually inspect the returns quantity and quality from his seat by simply opening the glass side windows a few inches. A cover door automatically opens and allows visual access to the returns cross auger. This process is an important aid to optimize machine settings.

- Allows for a quick response to optimize combine performance
- Minimum returns increase grain quality

LEXION®

HP FEEDERHOUSE



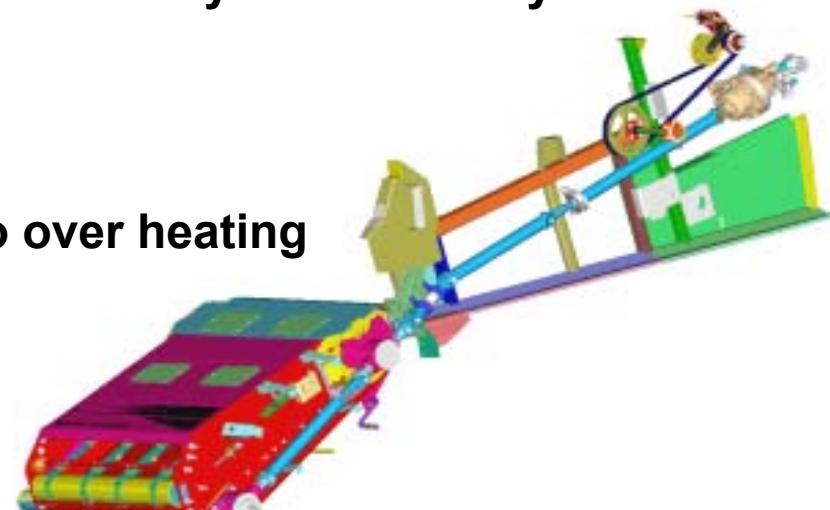
FEEDERHOUSE AND HEADER DRIVE

- Lexion: Robust belt drive maximizes power availability and reliability
 - ▶ 2 strand belt standard 560R – 585R
 - ▶ 3 strand belt standard 590R/595R,
optional: 570R – 585R with HD FH drive
- Deere: Complex planetary gear box, prone to over heating
- CaseIH: CVT (20 series) and belt drive (88 series)
- New Holland: Belt drive

LEXION HD FH drive



4



CaseIH AFX



John Deere STS

LEXION®

HEADER ANGLE ADJUSTMENT

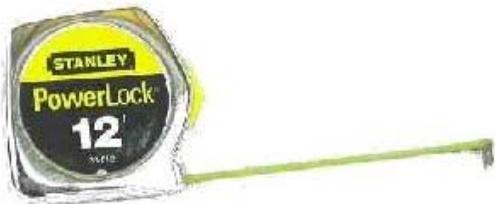


► **No Tools Required!**

► **Less than 5 minutes to adjust**



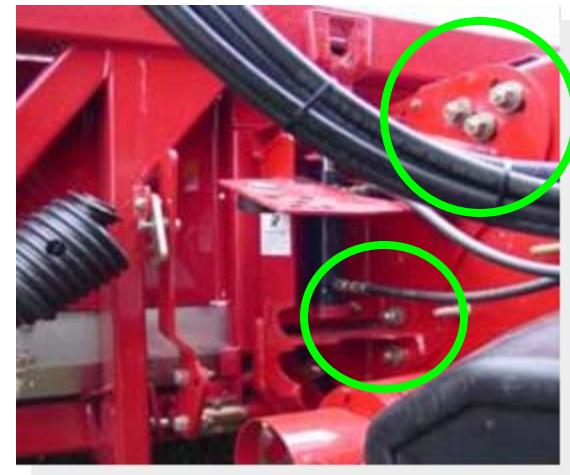
HEADER ANGLE ADJUSTMENT



- ▶ **15 min. each side (average)**
- ▶ **Multiple tries to get ideal angle are common**



New Holland CR



CaseIH AFX



John Deere STS

FEEDERHOUSE REVERSER

– Lexion: Electro-Hydraulic

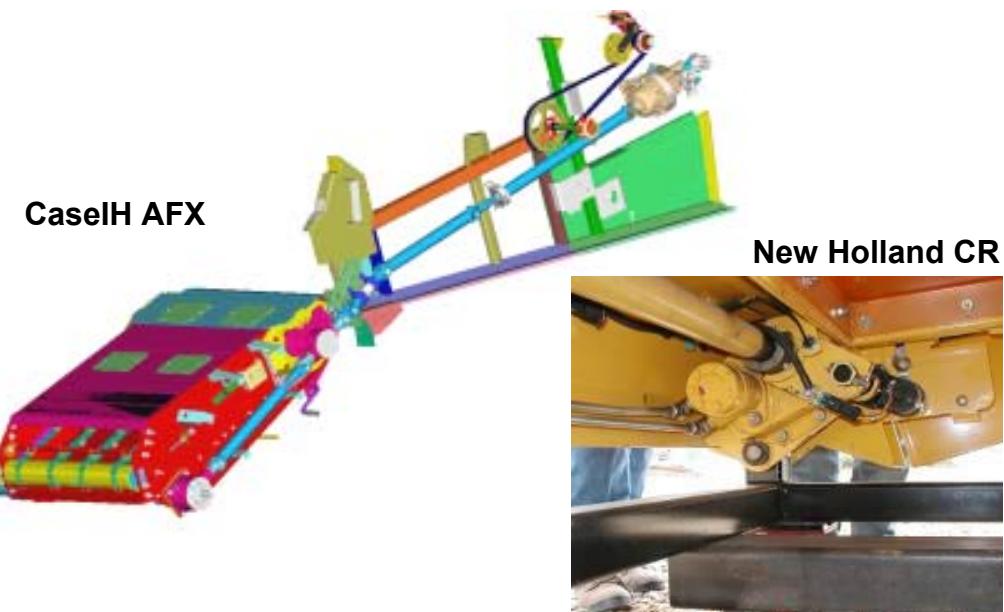
– Deere: Electro-Mechanical

– CaseIH:

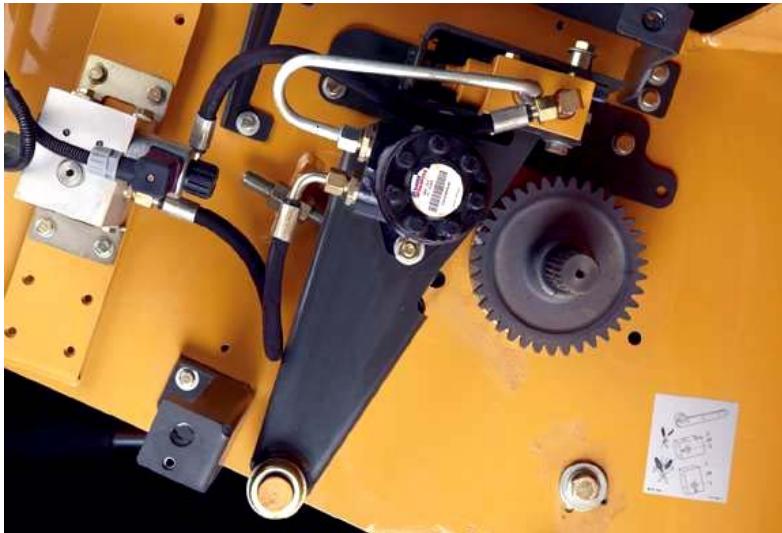
► CVT: 20 series

► *Electro-Hydraulic: 88 series*

– New Holland: Electro-Hydraulic



LEXION 500R series



John Deere STS

MULTI-COPLERS

- Lexion: Single, screw type latch
- CNH: two piece
 - ▶ Screw type electrical
 - ▶ Over-center hydraulic
- Deere: Single, over-center latch



New Holland CR



CaseIH AFX

LEXION 500 series



John Deere STS

LEXION MOBIL-TRAC SYSTEM



DEERE

Not Available

TRACK UNDERCARRIAGE

CASE IH



NEW HOLLAND

Not Available

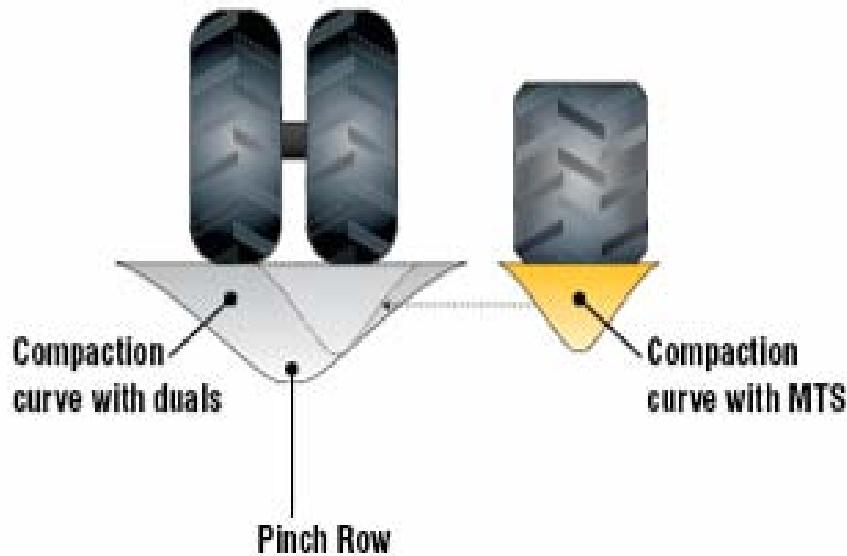
MOBILE TRAC SYSTEM®



***Independent Front Suspension
with oscillating mid-rollers
(up to 20 degrees)***



MOBILE TRAC SYSTEM®



Tires

30.5/65 R32

35.5/65 R32

20.8 R42 Duals

Mobil-Trac System **10.5**

AVG. PSI

25.7

18.6

17.9

10.5

COMPETITIVE TRACK OFFER

CASE IH “Bolt-on” Quadtrac tracks:

- Not integrated or designed into the combine's chassis
- No suspension

Ride quality:

- Comparable to the 400 series MTS
- Up to 5 mph (8 kph) harvest speed:

Relatively smooth unless traveling over rough terrain and then very rough, especially when traveling through water-ways and perpendicular to soybean rows where slight ridges form

- Field speeds over 5 mph (8 kph),
Rough ride, excessive cab and seat vibration

- Road speed, up to 15 mph (24 kph),
If the road is rough, fore/aft. rocking becomes excessive, to a point the combine must be slowed to less than 5 mph (8 kph) to minimize.



RESIDUE MANAGEMENT

- **LEXION:** *Independent, MAV*
- **STS:** *Uni-spread*
- **CIH:** *Rear impeller*
- **NH:** *Independent*



New Holland CR



CaseIH AFX

LEXION 500R series



John Deere STS

RESIDUE MANAGEMENT

– Deere Powercast

- ▶ *Chaff spreader style enhancement*
- ▶ *Poly, prone to wear and damage, especially in rocky conditions*
- ▶ *Inconsistent spread width over 30 ft.*



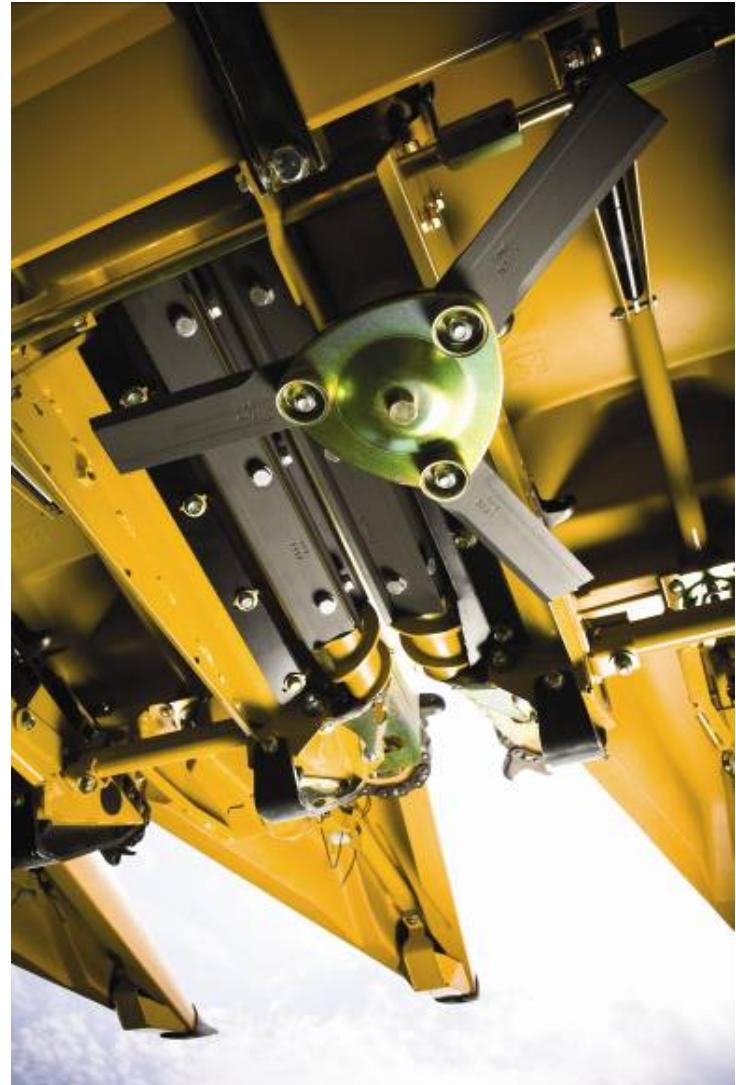
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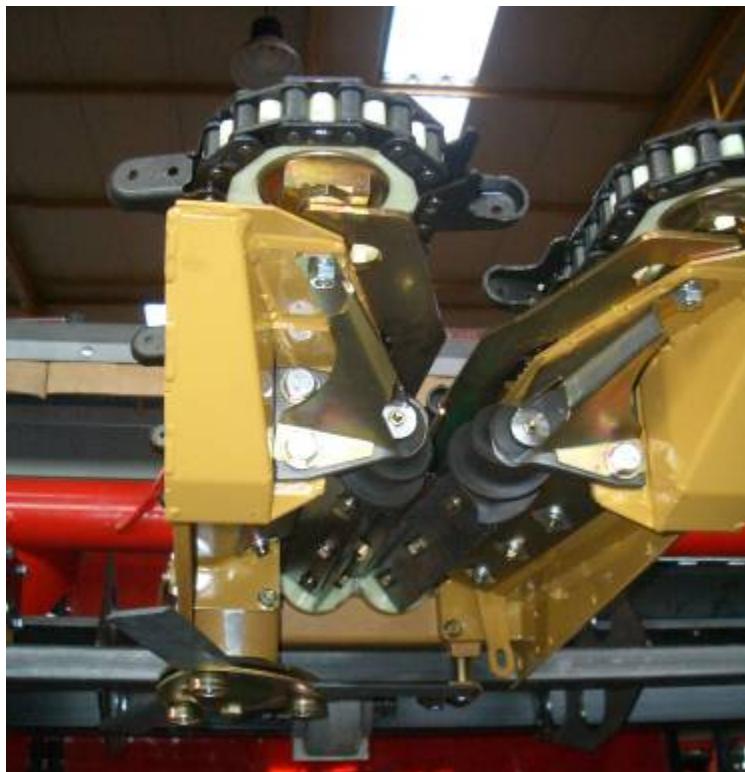
LEXION®

CHOPPING CORN HEAD

- Models: C508, C512
- Tri-blade cutting system
 - ▶ *Added chopping performance compared to competitive two-blade systems*
- Integrated row-unit & chopper drive
 - ▶ *Minimizes horsepower requirements for greater efficiency*
 - ▶ *Fewer serviceable parts*
- On / Off lever each row unit



CHOPPING CORN HEAD



LEXION®

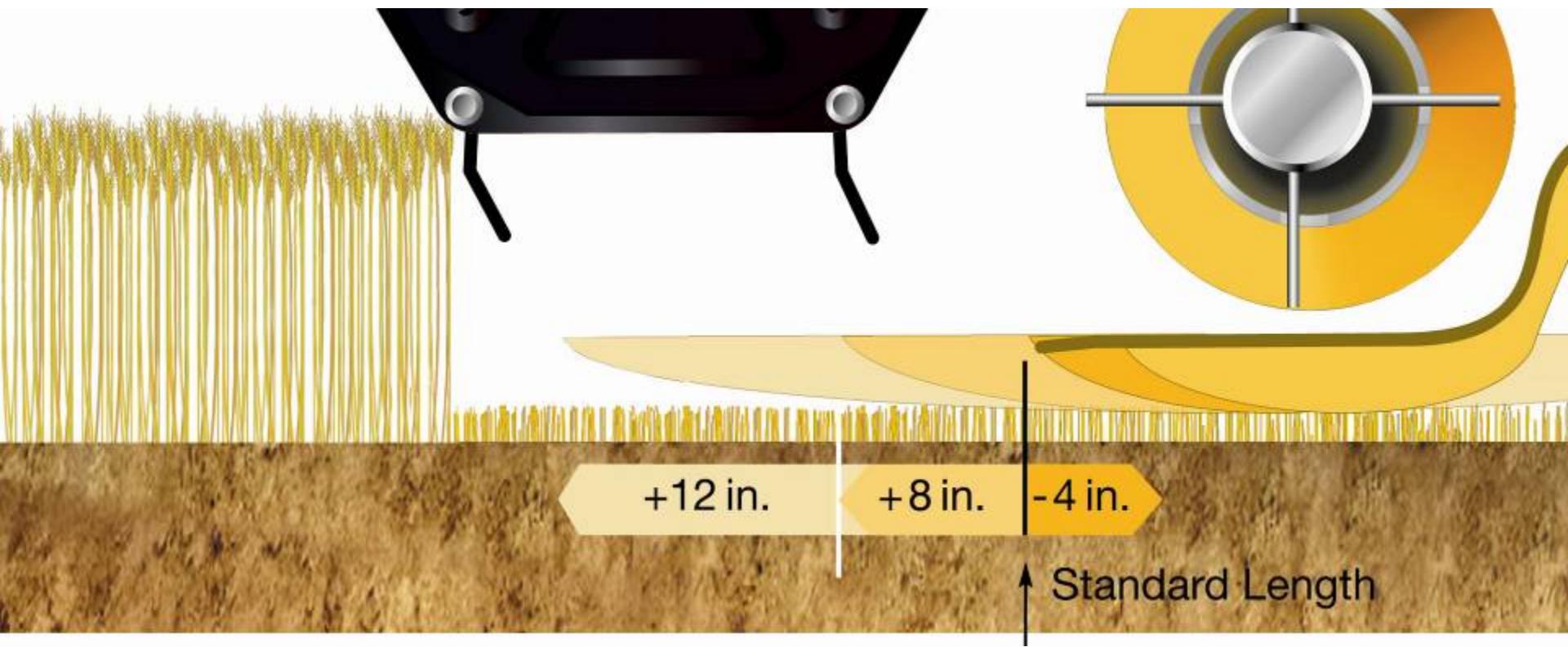
VARIO HEAD

- V530, V535 models
- Adjustable table length compensates for different conditions and crop height
 - ▶ *Taller crop = longer table*
 - ▶ *Shorter crop = shorter table*
- Rigid cutter bar
- Vertical knives (opt.)



[Click on image](#)

VARIO HEAD



[Click on image](#)

