# CR SERIES

Twin Rotor Combines

CR10 CR11







#### Contents

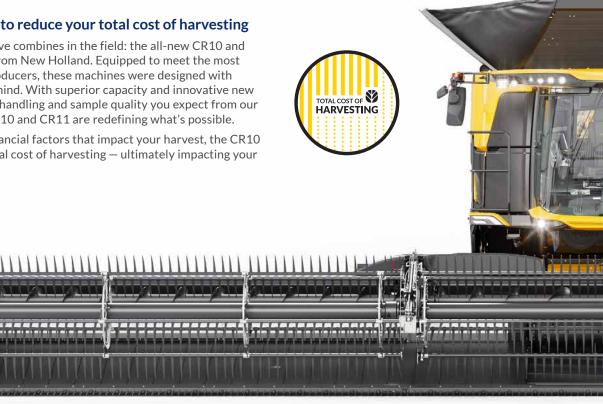
Total Cost of Harvesting	04
Power	06
Feeding Capacity	08
Threshing Capability	10
Reducing Grain Loss	12
Storage & Unload Capacity	14
Residue Management	16
In-Cab Experience	18
Precision Solutions	20
Farm Management	22
Headers	24
Tires & Tracks	26
Maintenance	28
Specifications	30

## The new standard for harvesting excellence.

#### Built from the ground up to reduce your total cost of harvesting

Introducing the most productive combines in the field: the all-new CR10 and CR11 Twin Rotor® combines from New Holland. Equipped to meet the most critical demands of today's producers, these machines were designed with your time and profitability in mind. With superior capacity and innovative new features, plus the gentle grain handling and sample quality you expect from our Twin Rotor technology, the CR10 and CR11 are redefining what's possible.

By optimizing key time and financial factors that impact your harvest, the CR10 and CR11 drive down your total cost of harvesting – ultimately impacting your bottom-line profitability.





#### More productivity

Designed to effortlessly manage incoming crop, the CR10 and CR11 feature twin 24-inch rotors in a wider and longer chassis. The rotors pair with the synchronized Dynamic Feed Roll™ system to guarantee high throughput, even in the most challenging crop conditions.



#### Maximum grain savings

Featuring the industry-first TwinClean™ double cleaning shoe, the CR10 and CR11 are designed to target a zero-loss harvest. The TwinClean system is fully automated to provide uniform cross-distribution control for maximum capacity at loss levels close to zero. Coupled with our proven Twin Rotor technology and leading IntelliSense™ combine automation system, the CR10 and CR11 are well-positioned to maintain CR combines' reputation for gentle grain handling, maximum throughput and minimal losses.







The machines feature new residue management options to meet the needs of your operation. Complete with new choppers and new spreader packages, the CR10 and CR11 are equipped to deliver a premium windrow, best chop quality and even residue distribution for cutting widths up to more than 60 feet. The optional IntelliSpread™ radar system automates spreading control to ensure full and even residue coverage behind the combine, regardless of wind effects, crop type or moisture conditions.



#### **Enhanced uptime**

The CR10 and CR11 have been designed to maximize your uptime at harvest. Maintenance time is minimized thanks to a simplified driveline with fewer drive components, no drive chains and ideal access to every component. All operating parameters can be set and controlled from the cab. In the unlikely event of a combine blockage, the automatic de-slug feature can clear the machine without the operator ever leaving the seat.

### Delivering the power you demand.

Equipped with the latest Stage 5 engines from FPT Industrial, the New Holland CR10 and CR11 combines are ready to take on your harvest.

The CR11 is powered by a 15.9-liter FPT Cursor 16. This powerhouse of an engine produces up to 775 hp from its six cylinders, ensuring it readily handles your highest crop volumes. The 12.9-liter Cursor 13 in the CR10 produces up to 634 hp, making its own impactful mark.

Spend less time refueling and more where it matters — bringing in the harvest — with the 343-gallon fuel tank in the CR10 or the 396-gallon tank in the CR11.

On both models, harvesting engine speed is 1,900 rpm for maximum capacity with minimal noise and fuel consumption. In road mode, engine speed drops to 1,300 rpm to save valuable fuel.





#### High-efficiency layout

The drivetrain layout has been completely redesigned. The powerplants in the CR10 and CR11 are installed longitudinally, running parallel to the rotors to minimize transmission losses. The end result is a simplified driveline with minimal maintenance points and maximum efficiency.

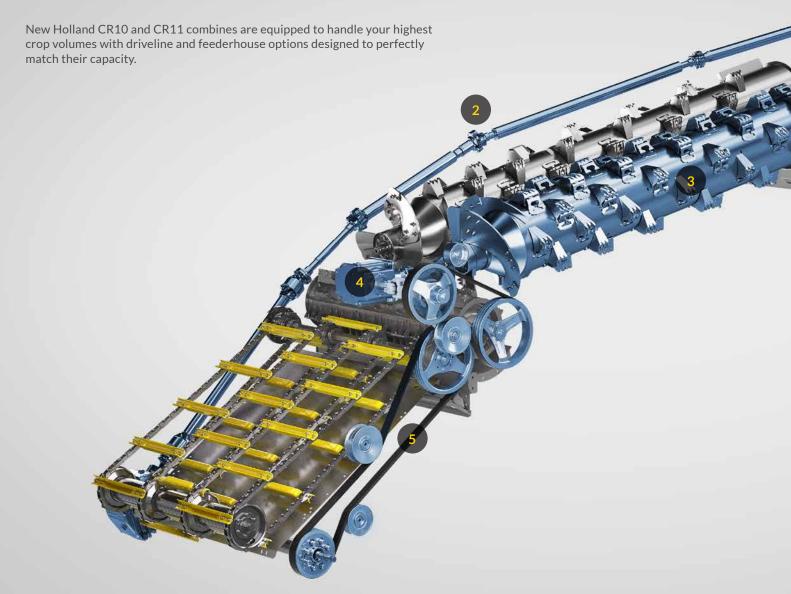
Clean air is drawn from behind the grain tank towards the engine, ensuring minimal dust ingress, after which it is exhausted from the rear. This arrangement means:

- > Clean air for the radiators, cutting cleaning intervals
- Positive airflow over hot engine components, helping avoid material accumulation
- > Reduction in engine noise transmitted to the cab
- > Ejection of dust towards the rear for improved machine cleanliness



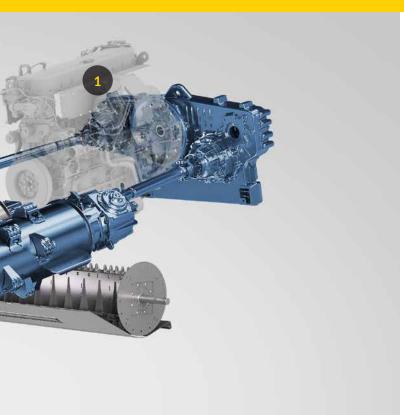
The CR10 features two cooling fans, with three on the CR11. Brushes on each rotary dust screen continuously clean the mesh in dusty conditions. All exhaust manifold/turbo/after-treatment components are fully insulated to reduce surface temperature of hot components. For maintenance, the cooling package is easily accessed by moving the rotor screens into the service position.

## Unmatched feeding capacity.





New header locks support easier hookups, getting operators to the field more quickly.



- 1. Engine power supply
- 2. Feeder/header CVT driveline
- 3. Rotor CVT driveline
- 4. Synchronized DFR drive
- 5. Feeder drive belt

#### **Driveline reimagined**

The new CR10 and CR11 deliver the power needed to handle your highest crop volumes. A new re-engineered driveline provides greater capabilities in the most challenging of crops. The larger rotors demand a new, wider feeder to maintain the Twin Rotor matched width feeding advantage. Four chains with 33 deep-drawn slats propel crop smoothly towards the 17.7-inch-diameter Dynamic Feed Roll™ to feed evenly into the twin rotors.

Three available feeder driveline options allow you to tailor your machine to the needs of your operation for optimal feeding.

#### Feeder driveline (fixed)

- > Fixed drive
- > Up to 12-row chopping cornhead
- > 135 kW
- > PTO driveline to feeder/header jackshaft
- > 3HB belt drive to feeder topshaft

#### Feeder driveline (variable std)

- > Hydromechanical CVT drive
- > Up to 12-row chopping cornhead
- > 135 kW
- > PTO driveline to feeder/header jackshaft
- > 3HB belt drive to feeder topshaft

#### Feeder driveline (variable HD)

- > Hydromechanical CVT drive
- > Up to 18-row chopping cornhead
- > 210 kW
- > PTO driveline to feeder/header jackshaft
- > 3HB belt drive to feeder topshaft

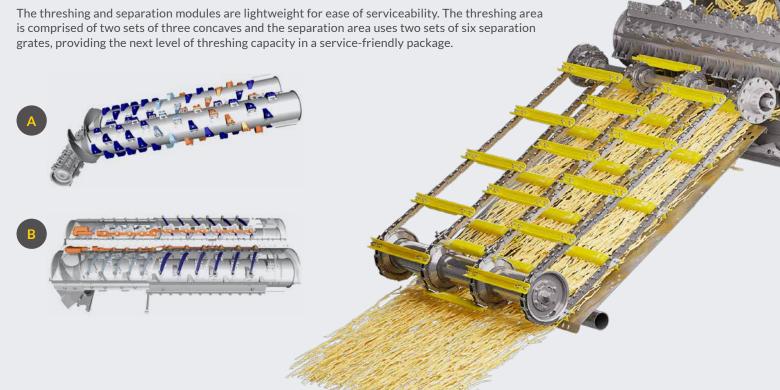


### Industry-leading threshing capability.

We've taken our original Twin Rotor® technology to the next level in the CR10 and CR11. New 24-inch-diameter rotors are 142 inches long for more crop rotations and greater grain savings. They are mounted in a wider and longer threshing compartment, resulting in gentle grain separation and maximum straw protection.

Each Twin Pitch Plus rotor features 40 standard rasp bars, eight HX rasp bars and 12 spiked rasp bars (see image A). The new HX rasp bars combine the height of spiked rasp bars with the profile of the standard units. Their greater sidewall angle helps accelerate crop flow in the transition zone of the stepped rotor cage, between the threshing zone and the separation zone.

Vane angle is remotely controlled from the cab via the Dynamic Flow Control™ system. A new vane design aids crop ejection should the rotors need to be de-slugged. New rotor cages feature a stepped design with larger rotor cage clearance and taller vanes in the separation area to improve grain separation and enhance power efficiency (see image B).

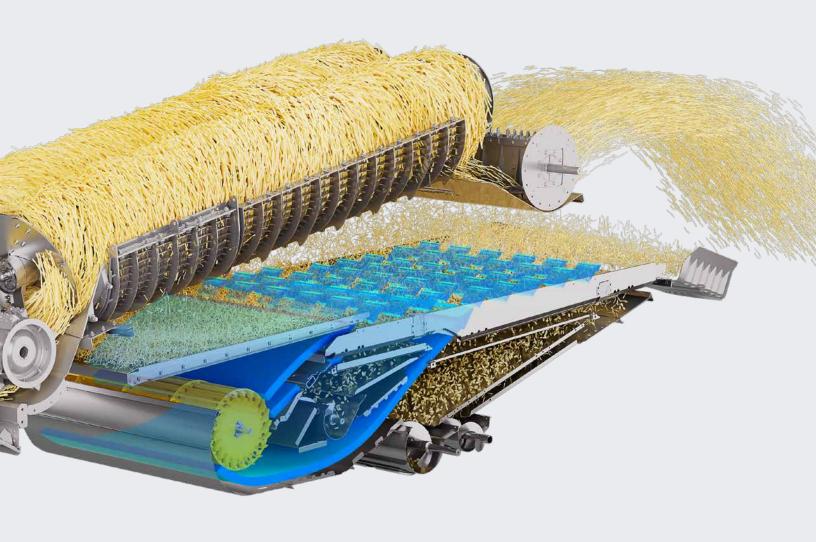


#### Fully-automated de-slugging

A fully-automated de-slugging procedure allows any blockages to be easily ejected. The first stage reverses the feeder house and header, clearing them of all material, before the second stage clears the Dynamic Feed Roll™ and the twin rotors with a rocking action to eject even the most stubborn blockages.

#### **Efficient power transmission**

With a no-maintenance CVT drive for precision control of rotor speed and rotor reversing, new CR10 and CR11 combines utilize the latest in smooth and efficient power transmission technology. The left rotor also powers the Dynamic Feed Roll. The resulting speed synchronization provides optimal flow of crop material from the Dynamic Feed Roll into the twin rotors, while reducing the likelihood of grain damage. Three selectable rotor transmission speeds span 300 to 1,400 rpm, meaning you can match any crop type or condition.





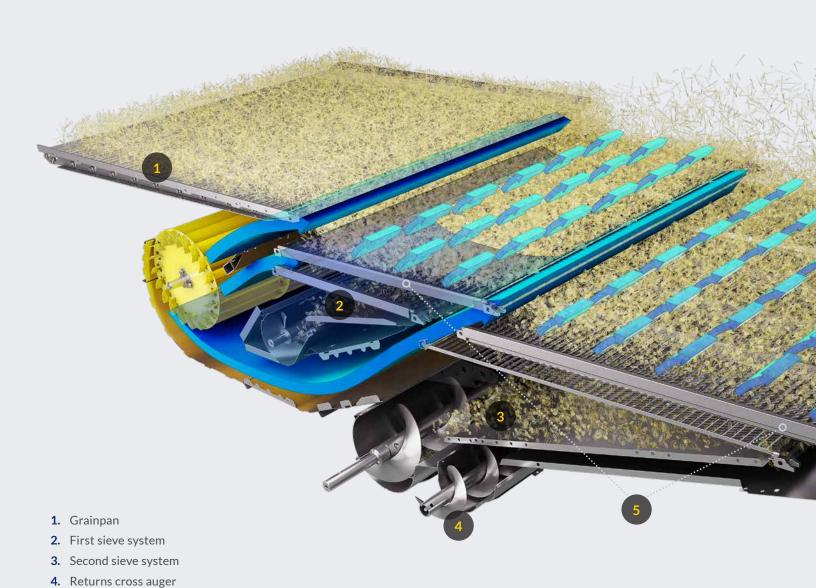


#### 50-year legacy of harvesting leadership

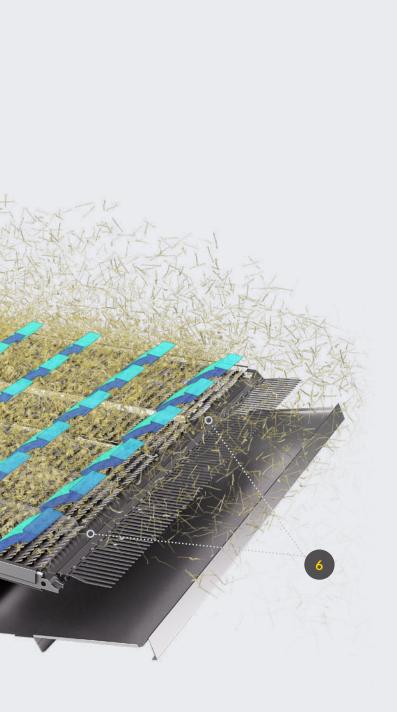
Fifty years ago, New Holland revolutionized harvesting with the introduction of our original Twin Rotor technology, still recognized today as the industry standard for high-quality harvesting. In the decades since, we've continued to innovate and enhance our combine offering to meet customers' evolving needs while delivering the gentle handling and high-quality yield our Twin Rotor combines are known for. Today, we are proud to be the only manufacturer offering this technology in our entire CR combine lineup.

### Built to target zero loss.

No other combine cleans grain like the CR10 and CR11. They feature the new TwinClean™ cleaning system, which uses an innovative combination of increased cleaning area and automation technology to boost throughput and minimize grain loss regardless of condition or terrain.



5. Sieve pressure sensors6. Sieve loss sensors





As the name implies, the TwinClean system features two sieve systems in sequence, each with its own upper and lower sieve and clean grain auger. Crop material from the twin rotors is first delivered to the TwinClean system via a new larger grainpan to stratify the grain from the chaff.

Next it passes over a new, larger fall-step to the first sieve system. The first portion of clean grain passes through the front upper and lower sieve to the front clean grain auger, where it is evacuated from the system. The remaining crop flow passes over a second fall-step to the rear upper and lower sieve and second clean grain auger. Air flow is provided by a high-power cleaning fan.

The TwinClean system utilizes two pairs of sieve pressure sensors and a pair of sieve loss sensors to continuously measure material distribution while a pair of side-shake mechanisms on the grainpan and upper shoe ensure uniform sieve loading. As a result, TwinClean can compensate for uneven feeding and side slopes of up to 28%.

Meanwhile, IntelliSense<sup>™</sup> automation also monitors the Grain  $Cam^{™}$  and controls fan speed and sieve openings to ensure minimal losses and premium sample quality regardless of crop condition or terrain.

## Storage and unload solutions that match your pace.

The CR10 and CR11 were designed not only with an unparalleled capacity for cutting, threshing and separation, but also for carrying the resulting crop with a clean grain handling system sized to match the machines' high productivity.

#### Impressive grain tank capacity

The CR10 and CR11 can be configured with either a 455-bushel or the industry-leading 567-bushel grain tank, increasing overall harvest efficiency by reducing the chances of a full grain tank at inconvenient times. The 567-bushel grain tank is also configured with the XL bubble-up auger to ensure proper filling. The clean grain elevator can fill the grain tank at an impressive 10,000 bushels per hour when configured with the high-speed drive kit.



#### **Expanded unloading capabilities**

The massive grain tank can be quickly unloaded with unload rates up to 6 bushels per second. This expanded capacity reduces total daily unload cycles and unload time, taking pressure off your operator team and allowing you to stay focused on harvesting. Longer unloading augers are also available to ensure low-stress unloading even with 61-ft. heads. To further reduce stress while unloading, machines can be configured with Raven Cart Automation.







The CR10 and CR11 feature completely new residue management capabilities to match the high intake volumes from the wider headers they work with. However light or dense the crop, these combines will process material finely and redistribute it evenly over 60 feet with a residue system to fit your operation's needs.

- The standard chop system with disc spreader excels in long, tough straw conditions like rice where a premium chop and spreader automation are not priority for spread widths up to 45 feet
- The standard chop system with impeller spreader provides an efficient, high performance system for spread widths up to 50 feet, and allows for the optional IntelliSpread™ residue automation feature
- The fine chop system with impeller spreader provides premium chop quality, premium windrow capability, and premium spread capability up to more than 60 feet and can be equipped with the optional IntelliSpread residue automation feature





#### The IntelliSpread™ system

CR10 and CR11 combines can be equipped with New Holland's award-winning IntelliSpread™ radar spread pattern automation. Radars on the left and right continuously monitor residue spread and adjust spread width by individually changing the speed of the left and right impeller. Regardless of wind effects, crop type or moisture conditions, spreading control is automated to ensure full and even residue coverage behind the combine, leaving you to focus on what's in front of you.

### Push-button service access

For ease of maintenance, the spreader unit can be moved into position at the press of a button, giving the operator unimpeded access to the cleaning shoe.



#### Bale straw with ease

If you have straw to bale, it's a quick and simple task to change the straw path on the CR10 and CR11 to drop straw in a swath. Even with the widest headers and highest throughputs, these combines leave behind perfectly-formed swaths that make great bales.



## The ultimate in comfort and control.

Our Harvest Suite $^{\text{TM}}$  Ultra cab puts operators at the heart of the machine, providing a comfortable space with all the necessary controls and conveniences within reach.

Experience an unmatched view of your harvest thanks to the wide curved windshield, which meets the sloping floor edge to provide a clear view of the header. Enjoy premium seating in a sharp new black and yellow finish of cut-and-sewn cloth or leather, providing enhanced support all around. For day-long comfort, seats are fully ventilated in combination with the new multi-zone climate control system, which also incorporates ducts in the A-pillars.

#### Control your harvest with ease

With dual IntelliView™ 12 displays, you can easily monitor combine functions and performance on one screen while managing precision technology and agronomic data—such as guidance and yield mapping—on the other. Or view the feeds from up to four optional viewing cameras on each display.

The right-hand console contains less frequently used functions, which are laid out in an ergonomic and logical manner. Complete control of your harvest is at your fingertips.











#### Convenience on the go

- > Compartment behind the operator keeps essential documentation within reach
- > Ergonomic armrest features a large cupholder
- > Spacious, easily accessible portable fridge located under the instructional seat

Even from the outside, it's clear this is a premium cab. New roof styling, incorporating full LED road and work lights and complemented by windshield access footsteps for easy cleaning, indicate something special inside. There are also new electrically-controlled mirrors with a wider view angle.





#### IntelliSense™ combine automation

The IntelliSense™ system monitors the threshing and cleaning process and adjusts the combine continuously to increase productivity and reduce grain loss. Settings are optimized toward a pre-selected harvest strategy of maximum capacity, best grain quality or limited loss.

Suited to an expanding list of key crops, New Holland's IntelliSense system enables the combine to react every 20 seconds to changing conditions by selecting the best action from 280 million possibilities. The system works with industry-first sensor technology measuring cleaning shoe load and grain loss. Coupled with the Grain Cam™ grain quality sensor, IntelliSense will adjust rotor vanes and cleaning shoe settings to reduce grain loss and increase ground speed.



#### IntelliSteer™ guidance packages

CR10 and CR11 combines come standard with factory-integrated IntelliSteer™ autoguidance. Fully compatible with the most accurate RTK correction signals, IntelliSteer provides repeatable sub-inch accuracy.

#### IntelliTurn™ automatic end-of-row turning

The IntelliTurn™ intelligent end-of-row turning system fully automates the turning process on combines equipped with IntelliSteer autoguidance. It automatically plots the most efficient path to minimize out-of-work time and ease strain on the operator.

#### IntelliField™ vehicle-to-vehicle communication

The IntelliField™ system enables two combines to work in tandem in a single field, following the same A-B lines. Boundary, map and guidance line data can be shared between combines operating in the same field to maximize fleet harvesting efficiency.



#### NutriSense™ NIR sensor

The optional NutriSense™ NIR sensor nutrient analysis technology is fully integrated into the IntelliView™ 12 monitor, and displays and records a whole host of crop moisture and nutrient parameters in real time with outstanding +/- 2% accuracy. Monitored parameters include moisture, protein and fat, starch, neutral detergent fiber (NDF) and acid detergent fiber (ADF). This data can be recorded, using the combine's DGPS signal to produce nutrient contents maps which can be uploaded automatically to the FieldOps™ portal to further tailor inputs for enhanced future yields.

### Manage harvest operations with ease.

New Holland's all-new FieldOps™ farm management platform lets you seamlessly manage your harvest from a single location.

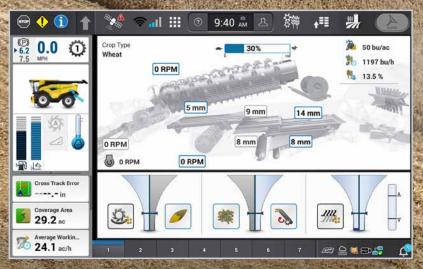
#### Overview

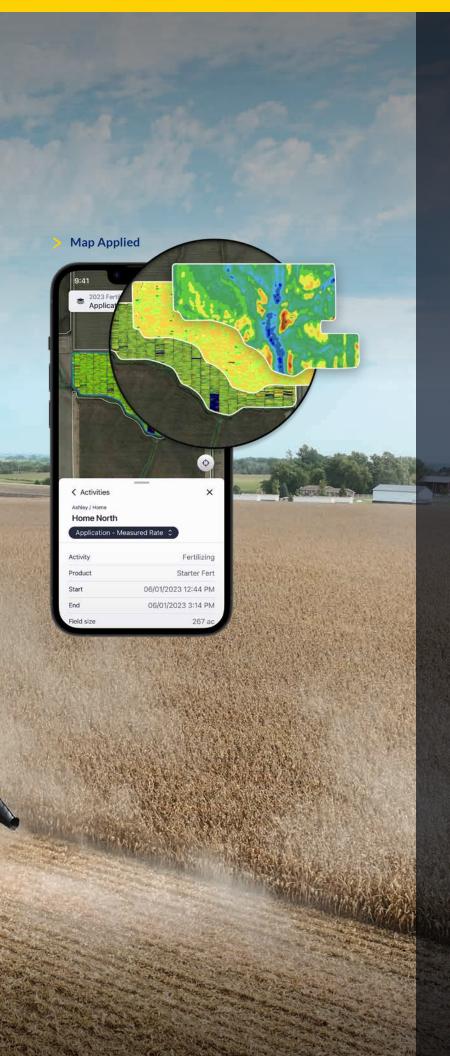


#### **Equipment Detail**



#### **Remote Display Viewing**







#### **Real-time connectivity**

FieldOps equips you for full machine monitoring and control. Send and receive real-time information and remotely view the in-cab display to save time and enhance productivity. FieldOps can help cut fuel bills and improve fleet management and security in one simple package.

#### Seamless farm management

Store, manage and analyze all field data through the FieldOps portal. Information is recorded in real time by your combine during harvest and transferred into FieldOps wirelessly to enable seamless analysis of field operations.

#### Support in the field

Take advantage of productivity-boosting services through the FieldOps portal and app. Stay connected to your dealer for on-the-go troubleshooting, remote maintenance, and other critical support functions that protect your valuable uptime.





## High-capacity header options for your operation.

To match the capacity of the new CR10 and CR11, New Holland offers a range of headers that integrate seamlessly with each model to provide fast and smooth intake with exceptionally high productivity and minimal header losses, leaving behind nothing but clean, precision-cut stubble. Each one features a quick-coupler for fast and easy attachment, saving you valuable time.



#### Maximum performance in grain harvesting

Grain heads are available to suit every situation. With cutterbar widths up to our all-new 61-foot offering developed to match the new machines, these headers are well-suited to help maximize output and minimize field passes. Our 790CP line of pickup headers are also compatible with the CR10 and CR11.

#### Next-level capacity in corn

New 9200 series corn heads deliver the high level of capacity necessary to feed these machines. Available from 8 to 18 rows, and with spacing and other options tailorable to your operation, these corn heads are ready to meet the demands of your harvest.





#### Row guidance

Corn heads can be specified with the new automatic row guidance system to keep the combine perfectly on course. A new single sensor solution uses a wishbone-style assembly with two independent feeler arms, ensuring accurate crop positioning feedback is provided to facilitate perpendicular crop entry. The feeler arms are colored white to assist when working in low-visibility conditions. The system operates with the IntelliView™ 12 display and the integrated IntelliSteer autoguidance system, which can distinguish between cut and uncut rows, to support nighttime harvesting and advanced activities such as skip row functionality.



#### Automatic header height control

Automatic header height control maintains your preferred stubble height all day long. Compensation Mode uses a pre-established ground contact pressure that is hydraulically maintained to get beneath lodged crops or those that are low growing, such as peas and beans. Automatic stubble height control maintains a pre-set stubble height using feeder position sensors to feed information to the hydraulic header control cylinders. And with advanced Autofloat™ technology, hydraulic valves respond instantly to software algorithms for fast feedback that ensures the header perfectly follows the contours of your fields, maintaining uniform stubble height and preventing bulldozing on even the widest units.

## Tire and track options suited to your operation.

CR10 and CR11 combines can be equipped with a range of tire and track configurations to meet the needs of every operation.



#### SmartTrax<sup>™</sup> track units

With a triangular structure that maximizes ground contact, optional SmartTrax™ front track units reduce the ground pressure exerted by comparable tires by 57%, while boosting traction and keeping transport width to a minimum. At 36 inches wide for a total machine width of 188 inches, they permit a top speed of 25 mph. Hydraulic suspension delivers a premium ride in the field and on the road. Wide axles assist with hill climbs and prevent mud buildup.







#### **Tire options**

New CR10 and CR11 machines can be equipped with VF710/70 R42 duals to further reduce ground compaction while increasing traction. Numerous additional tire options are available to best meet the needs of each operation.

#### Rear axle options

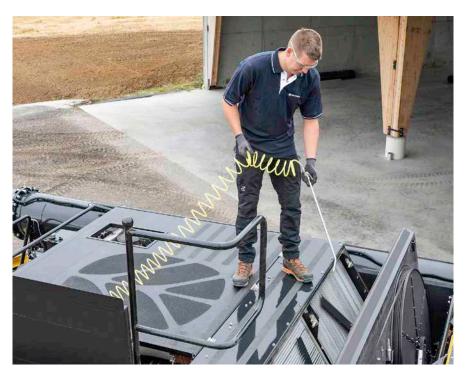
Both the CR10 and CR11 can be equipped with the optional powered rear axle. It features the semi-automatic Terralock differential lock. Engaged manually, it is disengaged automatically according to steering angle and forward speed.



## Stay in the field with simple maintenance.

#### Accessibility and maintenance ease

The CR10 and CR11 have been thoughtfully designed to minimize maintenance time and maximize harvest time. A newly simplified driveline features fewer belts, no drive chains, and no daily grease points.









Models	CR10	CR11		
Engine	FPT Cursor 13	FPT Cursor 16		
Emission level	Stage 5			
Rated power (coarse grains) [hp (kW)]*	544 (400)	666 (490)		
Rated power (small grains) [hp (kW)]*	578 (425)	710 (522)		
Max power (all crops) [hp (kW)]*	634 (466)	775 (570)		
Rated speed (rpm)	1900			
Fuel tank [gal. (L)]	343 (1300)	396 (1500)		
Diesel Exhaust Fluid (DEF) total AdBlue [gal. (L)]	48 (180)			
Cylinders	6 in line			
Cylinder displacement (cm³)	12900 16000			
Battery	3×12V	(120Ah)		
Feeder				
Cradle width [in. (mm)]	74 (1	L885)		
Number of chains		4		
Feeder driveline (fixed)	Fixed drive, up to 12 row chopping cornhead, 13	85 kW, PTO driveline to feeder/header jackshaft,		
Feeder driveline (variable std)	3HB belt drive to feeder topshaft  Hydromechanical CVT drive, up to 12 row chopping cornhead, 135 kW, PTO driveline to			
Feeder driveline (variable HD)	feeder/header jackshaft, 3HB belt drive to feeder topshaft Hydromechanical CVT drive, up to 18 row chopping cornhead, 210 kW, PTO driveline to			
Max lift capacity (lbs.)	feeder/header jackshaft, 3HB belt drive to feeder topshaft  12,100 (std) / 15,000 (HD)			
Remote front face adjustment angle		•		
Dynamic Feed Roll™				
DFR diameter [in. (mm)]	17.7	(450)		
Feeding paddle pattern	Staggered straight s	serrated w/V-splitter		
Stone trap sump		ntrolled from cab (opt)		
Twin Rotor® Threshing Technology				
Threshing Drive				
Main drive	Hydromechanical C	VT drive (reversible)		
Rotors				
Rotor diameter [in. (mm)]	24 (	610)		
Rotor length [in. (mm)]		3600)		
Twin Pitch Plus Rotors	,	,		
Number of rasp bars (each rotor)	4	10		
Number of HX rasp bars (each rotor)		8		
Number of spiked rasp bars (each rotor)	12			
Total rasp bars (each rotor)	60			
TwinClean™ Cleaning System				
Cross distribution control	Independent grain pan and	upper sieves side shake (std)		
Max side slope				
Total cleaning area under wind control [in.² (m²)]	Up to 28% 13,578 (8.76)			
Cleaning Fan	15,576 (6.76)  17" cross flow fan / 2 outlets			
Return System	2. 5.55511611			
Returns type	Spike-tooth rethres	her + inclined auger		
Grain Handling	Spike coefficiency			
Grain tank (bu)	455 ● / 567 ○	455 <b>○</b> / 567 <b>●</b>		
Grain tank (bu)  Grain tank covers		ote control		
Unload concept	Over the top unload			
Unload rate (bu/s)	4.5 ● / 6.0 ○	4.5 <b>○</b> / 6.0 <b>●</b>		

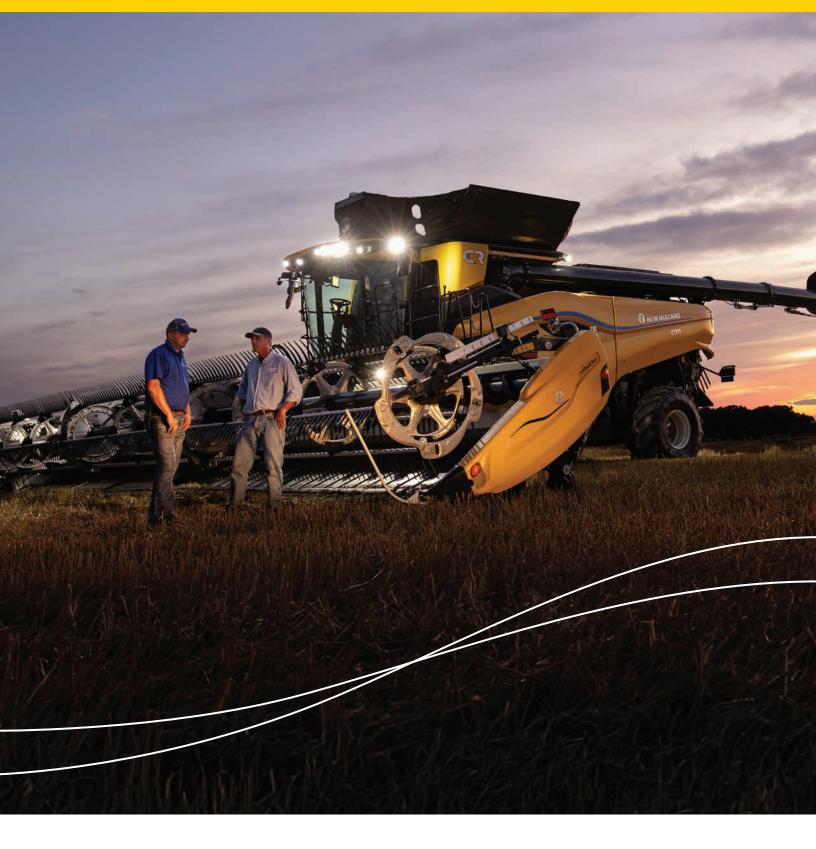
Models	CR10	CR11	
Grain Handling (cont'd)			
Unload auger swivel (degrees)	105°		
Unload reach; rigid (ft)	Up to 45 ft header		
Unload reach; fold (ft)	Up to 50 ft header		
Unload reach; fold (ft)	Up to 61ft header / 41ft controlled traffic		
Residue Management			
Chopper			
Integrated standard chop (disc)			
Spreader type	3 paddle disc spreader up to 45 ft		
Spread control	In-cab spread width adjust		
IntelliSpread™ Automation	_		
Rotor type	Fixed blade		
Number of knives	60		
Number of counter knives	52		
Chopper speed (rpm)	800 (low) / 3000 (high)		
Integrated standard chop (impeller)			
Spreader type	3 paddle impeller up to 50 ft		
Spread control	In-cab spread width	and distribution adjust	
IntelliSpread™ Automation		0	
Rotor type	Fixed	l blade	
Number of knives	60		
Number of counter knives	52		
Chopper speed (rpm)	800 (low) / 3000 (high)		
High hood mounted fine chop			
Spreader type	5 paddle impeller up to 61 ft		
Spread control	In-cab spread width and distribution adjust		
IntelliSpread™ Automation	O		
Rotor type	6 row flail		
Number of knives	88		
Number of counter knives	67		
Chopper speed (rpm)	900 (low) / 3600 (high)		
Ground Drive			
Transmission type	2-speed (field	& road) gearbox	
Differential lock	TerraLock™: Semiautomatic diff lock (manual engage, automatic disengage depending on steering angle and fwd speed) with multi-disc hydraulic clutch		
Max transport speed	25 mph / 40 kph		
SmartTrax™ system	0		
Steering axle (2WD)	•		
Steering axle (4WD)	Optional (Central hydraulic drive differential with multi-disc engagement and TerraLock differential lock)		

#### CR10 and CR11 models equipped with

31

Dimensions	36" SmartTrax™ – wide beam	Duals - 580/85 R42	Duals - 710/70 R42
Max Length with rigid unload (in.)	443		
Max Length with fold unloader extended (field mode) (in.)	457		
Maximum height with graintank closed (road mode) (in.)	158		
Maximum height with graintank open (field mode) (in.)	200		
Maximum width (transport) (in.)	188	207	217
Wheelbase (in.)	165	159	

● Standard O Optional — Not available \*1kW is 1.35962hp (ISO)





#### Learn more at www.newholland.com









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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and

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