

LEADING FROM THE FRONT

Successful combine harvesting starts with the right front, after all, you can only process what you actually put into the machine. By fitting a New Holland front, you will unlock your combine's full harvesting potential and bring home a successful harvest. Want more? New Holland fronts have been designed to perfectly match New Holland combines to send your harvesting productivity to the next level.



PRODUCED FOR YOU. TAILORED HARVESTING PERFORMANCE

All New Holland fronts are produced at World Class Manufacturing plants, which is your quality guarantee. There is full integration between New Holland's Centre of Harvesting Excellence in Zedelgem, Belgium with the global front production facilities at Plock, Poland, Burlington Iowa in the USA, and Saskatoon, Canada, to deliver the ultimate in productive harvesting. What's more, you know that your front will be right for your farm, as it has been produced in a plant which understands about your farming needs.



Sustainable Efficient Technology





A NEW HOLLAND HISTORY OF MODERN COMBINING

New Holland revolutionised the face of combine harvesting back in 1952, when the very first self-propelled combine harvester in Europe, the MZ, rolled of Leon Claeys' production line in Zedelgem, Belgium, and the rest, as they say is history. Well, not quite. New Holland took a further giant leap forward in 1975, with the development of the very first Twin Rotor™ combine. A new era in grain and straw quality was ushered in. Today, CR Twin Rotor™ combines have grain crackage as low as 0.1%. The best in the business.

CLEAN ENERGY LEADER® STRATEGY

Fronts play a vital role in New Holland's industry-leading sustainable agricultural programme, the Clean Energy Leader® strategy. Globally fronts used to harvest canola are powering the biodiesel revolution and those which work in maize are helping providing the raw ingredients for first and second generation bioethanol production. They are truly harvesting energy.

other emerging and traditional crops besides. Whether you work on undulating terrain or on wide open plains that stretch for miles, your New Holland front will

deliver top drawer performance. In all fields. In all crops. Everywhere.



THE RIGHT MACHINE FOR YOUR FARM

New Holland's comprehensive range of combines can be tailored to suit every farming requirement. From CX super conventional models to all classes of CR Twin Rotor™ rotary combines, all are designed to help you bring your harvest home. Always.

Combine fronts		CR
760CG Varifeed™ grain front cutting width	(m)	9.1 - 12.5
740CF SuperFlex™ front cutting width	(m)	9.1 - 10.6
790CP Pickup width	(m)	4.57
840CD Grain draper cutting width	(m)	9.1 - 13.7
880CF SuperFlex™ draper cutting width	(m)	9.1 - 13.7

CR. DEDICATED. UNCOMPROMISING. SMART.

The flagship Twin Rotor[®] CR combine features Twin Rotor[®] technology for in-line crop flow, for gentle crop handling. The result: top quality straw and grain crackage as low as 0.1%. A massive self-leveling cleaning shoe with Opti-Fan™ ensures an abundance of super-clean grain. Powerful Opti-Spread™ (optional) technology delivers a uniform distribution of chopped residue across the entire cutting width, perfect for no-till operations. All this plus the Harvest Suite™ Ultra cab, the fruit of customer consultation, defines harvesting comfort.









YOUR FLEXIBLE FARMING PARTNER

The acclaimed New Holland Varifeed™ fronts offer unsurpassed on-the-go harvesting flexibility with up to 575 mm. of fore-aft knife adjustment, which means your Varifeed™ front is perfectly at home in, quite literally, all crops. From the smallest 9.1 metre to the mighty 12.5 metre model, Varifeed fronts are fully compatible with all combine models.





ON-THE-GO KNIFE MOVEMENT

Flexibility is king when harvesting. That is why the Varifeed allows operators to immediately react to changing crop conditions. How? It's simple: they can adjust the position of the knives while harvesting, enabling them to best utilise the 575 mm of fore-aft adjustment. If that wasn't enough, you'll never have to worry about inserting time-consuming deck plates. Simply select your knife position from the comfort of the cab, watch the cutterbar extend and away you go.



HEAVY DUTY, LARGE DIAMETER AUGER

The large 660 mm diameter auger has heavy-duty, reinforced construction to enable it to process high volumes of sometimes abrasive crop with ease. The intensive international field test program ensures that all components can withstand extensive harvesting activity. The retractable feeding fingers, across the entire length of the auger, provide smooth feeding, efficiently delivering material to the feeder, right from the very tip of the front.



EFFICIENT, HIGH SPEED CUTTING

The high-speed knife drive, which delivers 1300 cuts per minute, ensures the most efficient cutting action, slicing through even the toughest stalks. This means that you can increase your forward speed, even when working with the largest 12.5 metre. Varifeed™, and clean cutting is always guaranteed.



SUPER-SIZED FRONT PERFORMANCE: 12.5 METRE VARIFEED™ FRONT

760CG Varifeed™ grain front

Spare knife and spare bolted knife sections

Feeding auger with full-width retractable fingers

(m)

(mm)

(mm)

(mm)

(kg)

(cuts/min.)

9.1

1300

80

575

•

•

660

1070

3035

Single (Left hand side)

10.7

1300

80

575

660

1070

3400

12.5

1300

Dual (Both sides)

80

575

•

660

1070

4400

Cutting width

Knife speed

Knife drive

Knife stroke

Knife travel (up to)

Feeding auger diameter

In order to deliver ultimate harvesting efficiency in today's largest fields, the 12.5 metre. Varifeed™ front will become the default choice. Ideal for operations which utilise controlled traffic, the front's construction guarantees strength and durability, while the split auger manages large volumes of crop with ease. The dualknife drives, located at either end of the front, maintain powerful cutting across the full cutterbar width, as well as assisting with perfect weight distribution to produce uniform stubble height.





PROFITABILITY BOOSTING BACK PLATE

The new backplate on the Varifeed™ range is the fruit of extensive customer consultation. You talked, we listened. As such, the new backplate has been engineered by design to slash crop and seed loses from material which passes over the back of the front instead of into the feeding auger. This will be of particular benefit when harvesting tall crops such as canola and oats.



CONVENIENT STORAGE SOLUTIONS

New Holland knows that in tight harvesting windows, having to travel considerable distances back to the farm for forgotten items wastes precious harvesting time. That is why integrated storage solutions on the rear of the fronts have been designed to ensure everything is to hand, yet safely and conveniently stored when not required.



Optional 18 teeth side knives scythe through matted crops and can be quickly and simply fitted to the Varifeed™ front. These knives are driven hydraulically for enhanced operating durability. Controlled through the IntelliView™ IV colour touchscreen monitor, they guarantee more efficient rape harvesting. When not required, they can be stored in the dedicated compartment on the front itself.



The advanced Automatic Header Height Control system is available in three operational modes:

- Compensation Mode uses a pre-established ground contact pressure that is hydraulically maintained to guarantee efficient harvesting of lying or low growing crops such as peas and beans.
- Automatic Stubble Height Control maintains a pre-set stubble height by using sensors located on the combine itself together with the hydraulic header control cylinders.
- The Autofloat[™] system uses a combination of sensors on the front that ensure the table follows uneven terrain and automatically adjusts its position hydraulically to maintain uniform stubble height and to prevent the front digging into the ground.



Welcome to the world of the most productive fronts. These fronts are perfectly at home harvesting on the vast plains of North America and Australia. These giants of the front world guarantee the highest throughput, right across the entire length of the cutterbar, scything through all crops, including those which have been wide sown, such as soya beans. They are the ideal match for the CX and CR flagship combine ranges.



840CD Grain draper 10.67 Cutting width 9.15 12.2 13.7 Varaible knife speed (cuts/min.) 0 - 1260 0 - 1260 0 - 1260 0 - 1260 Knife drive - double/timed SynchroKnife™ drive Spare knife Knife - double/timed - 3" coarse sections Spare knife - coarse cut Draper feeding belts width (mm) 1056 1056 1056 1056 Center draper feeding belt width 2108 2108 2108 2108 (mm) Lateral draper belt working angle 22.6 22.6 22.6 22.6 (°) 0 - 863 0 - 863 0 - 863 0 - 863 Lateral draper speed (rpm) Center draper speed 769 769 769 769 (rpm) Center auger with full-width retractable fingers • • • Center auger fingers in V pattern • • Auger speed 150 150 150 150 (rpm) Auger drive - #80 chain with slip clutch Floating feeding auger diameter 660 660 660 660 Auger flighting (127 mm) 1.07 Reel diameter - 6 bat cam 1.07 1.07 1.07 Reel plastic fingers - one piece center tube Reel plastic fingers - two piece center tube Autofloat™ with Terrain Tracer system Medium divider • Rod divider Dual gauge wheels • Hydraulic drive reel • Hydraulic reel fore/aft Hydraulic driven drapers Full width polyetheyline skid shoes • • Single PTO, free motion Hydraulic fore/aft tilt cutterbar 91 Hydraulic reservoir (L) 91 91 91 Upper cross auger 0 0 0 0 Delayed side draper engagement after reverse 2800 2600 3550 3800 Weight - approximate (kg) • Standard o Optional - Not available

RIGID DRAPER FRONTS

Rigid draper fronts are the ideal choice when working in fields which benefit from uniform ground conditions across the entire width of the front. The header height control system features sensors to maintain an even cutting height across the entire width of the front, and all fronts, except 9.1 metre option, are equipped with standard dual gauge wheels to facilitate uniform stubble height. You can also tilt the front four degrees forward and three degrees rearward from the comfort of the cab to manage gentle inclines or laid crops.



EVEN FEEDING ACROSS THE ENTIRE FRONT

The six bat New Holland-designed cam reel smoothly feeds the crop to the cutterbar and draper belts. On 9.1 and 10.67 metre variants a single span plastic-tine pickup reel directs the crop, whereas on the very largest 12.2 and 13.7 metre models, a dual span reel maintains efficient movement across the entire front.

ADVANCED DRIVELINE **TECHNOLOGY**

The single telescopic, free motion driveline connects to the main front gearbox. This features two output shafts, one to drive the draper belt the knife drive and the hydraulic pumps, and the other to drive the 150rpm auger chain drive. This means that the entire system benefits from outstandingly efficient operation, saving you energy to increase your overall productivity.





880CF SuperFlex™ draper				
Cutting width	(m)	9.15	10.67	13.7
Variable knife speed	(cuts/min.)	0 - 1260	0 - 1260	0 - 1260
Knife drive - double/timed		SynchroKnife™ drive		
Knife - double/timed - 3" coarse sed	ctions	•	•	•
Spare knife - coarse cut		•	•	•
Vertical knife flexibility	(in)	6	6	6
Draper feeding belts width	(mm)	1056	1056	1056
Center draper feeding belt width	(mm)	2108	2108	2108
Lateral draper belt working angle	(°)	22.6	22.6	22.6
Lateral draper speed	(rpm)	0 - 863	0 - 863	0 - 863
Delayed side draper engagement a	after reverse	•	•	•
Center draper speed	(rpm)	769	769	769
Center auger with full-width retracta	ble fingers	•	•	•
Auger speed	(rpm)	150	150	150
Auger drive - #80 chain with slip clu	utch	•	•	•
Floating feeding auger diameter	(mm)	660	660	660
Auger flighting (127 mm)		•	•	•
Reel diameter - 6 bat cam	(m)	1.07	1.07	1.07
Reel plastic fingers - one piece cen	ter tube	•	-	-
Reel plastic fingers - two piece cent	ter tube	-	•	•
Autofloat™ with Terrain Tracer syste	em	•	•	•
Rod divider		•	•	•
Dual gauge wheels		0	0	0
Hydraulic reel drive		•	•	•
Hydraulic reel fore/aft		•	•	•
Hydraulic driven drapers		•	•	•
Full width polyethylene skid shoes		•	•	•
Single PTO, free motion		•	•	•
Hydraulic fore/aft tilt cutterbar	(°)	7	7	7
Hydraulic reservoir	(I)	91	91	91
Upper cross auger		0	0	0
Weight - approximate	(kg)	3100	3800	4050
• Standard o Optional - Not av	ailable			

Standard o Optional - Not available



If you want to maintain uniform cutting performance when working across the widest cutting widths in uneven terrain then the SuperFlexTM draper is for you. You can quickly and easily make manual adjustments to the the exclusive and patented rubber spring flotation system to ensure it always follows the ground contours The torsion of each spring on the floor supports can be individually modified to adjust the flotation or to compensate for any unevenness inthe cutterbar for true tailored harvesting performance.



UNIFORM CUTTING

The draper fronts first priority is efficient cutting. To deliver this, it cuts crop cleanly using 75 mm. guards and over-serrated knife sections, working up to an impressive 1260 cuts per minute. This is of exceptional importance when working with legumes, such as soybeans, peas and lentils. Why? Legumes grow in pods close to the ground, making it imperative to cut every plant as close to the ground as possible, ensuring every pod is harvested by your combine. Rod dividers are standard, to ensure the most efficient cutting of all crops.

SUPER SMOOTH FEEDING

Smooth feeding ensures that a constant flow of material reaches the combine feeder for efficient threshing. In order to maintain this, the variable-speed outer draper belts and fixed-speed, twin center draper belts transfer the crop smoothly to the floating auger. The auger features retractable fingers across its full length to swiftly and effortlessly transfer all crop from the front to the combine. The flights have been designed to handle heavy crop, and when this is combined with a flatter auger floor angle, crop flow is further improved. Want more? You can even adjust the auger up and down to match crop volume.





HARVESTING CANOLA EFFICIENTLY

If you work extensively with canola, then the optional upper cross auger is for you. This means that bushy crops, such as canola or peas, are positively directed into the main front processing area for efficient crop management.



CUSTOMISED KNIFE SPEED

Knife speed ranges from 0 to 630rpm to ensure that you have the correct cutting speed for all crops. This is adjusted via a valve on the rear of the front.





EFFICIENT REVERSER

When working in matted or uneven crop, large wedges can block the feeder. In order to maintain productivity, the cutterbar and centre drapers have been engineered by design for compatibility with a reverser function to assist its removal. After the reversing process, the side draper engagement is delayed for a period of time to allow the centre deck to clean itself.



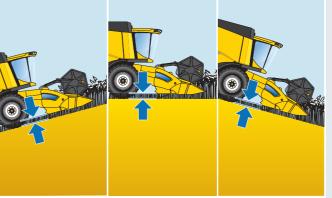
SYNCHROKNIFE™ TECHNOLOGY: UNIFORM, COMFORTABLE HARVESTING

Designed with draper fronts in mind, award-winning SynchroKnife™ technology features a single, centrally mounted gearbox with double knife drive to ensure perfect lateral weight distribution for more uniform stubble height, as well as significantly reducing knife stress and vibration for increased reliability, reduced costly down-time and an improved operator experience. Located under the front floor, the edge of the uncut crop is now fully protected from potential snagging caused by bulky side-mounted knife drive gearboxes.



ROBUST DESIGN. EASY MAINTENANCE

Vulcanised V guided rubber drive rollers pull the drapers instead of pushing them for increased durability and the fibreglass reinforced slats further enhance reliability for optimal performance. The auger fingers benefit from a breakaway design and use hairpin cotter pins for superfast replacement.



UNIFORM HARVESTING ON ALL SLOPES

For accurate front positioning in rolling conditions, the Autofloat™ II system is the default choice. This advanced system corrects the 'exaggerated weight signal' and prevents front bulldozing when working downhill and maintains correct stubble height when harvesting uphill.

PICK-UP SUCCESS

New Holland offers a pick-up front which guarantees smooth and speedy collection of crops which have been rowed by a New Holland Speedrower. No matter what the crop, whether grass seed, canola or beans, to name but a few, your New Holland front will gather wider windrows and save more valuable grains. Available in 4.55 metre grain configuration, it is fully compatible with CR and CX Elevation models. No matter the size or gradient of your field, this advanced pick-up front will clear them even

WHAT DOES A PICK-UP FRONT DO?

The cut crop rests on the stubble to assist drying, and the tines on the front collect the crop, transfer it to the belt, three 1.5 metre belts on 4.55 metre model to transfer the crop directly to the auger. The auger then merges the crop and feeds it efficiently into the combine.

790CP Pick-up		
Picking Width	(m)	4.55
Number of belts		3
Feeding auger with full-width retractable fingers		•
Feeding auger diameter	(mm)	660
Weight	(kg)	1450

Standard



THE 1-2-3-4 TO MAKING EVERY GRAIN COUNT

One: New Holland uses fewer belts than competitor models to reduce the risk of seed falling through the belts.

Two: Taller, squarer cleats 'paddle' the seed to the

Three: A centre supported picking belt eliminates slipping and vulcanised drive rollers increase traction to reduce belt slippage during picking.

Four: The front floor features an integrated seed dam to further prevent seed or grain losses.





UNIFORM FEEDING

The 660 mm diameter auger uses 12.7cm flights which means that even the heaviest windrows are efficiently transferred into the combine. What's more, you can precisely adjust the auger both up and down to ensure that you have the perfect setting for the density of your windrows. This means that you can set a pre-determined level of auger float, from 1.6 - 3.2cm, to better deal with wedges of crop in uneven windrows. You can also control the speed of the auger to match your individual needs.



EXCELLENT FLOATATION

be adjusted with a simple wrench.

Just imagine what a full 30cm of flex could mean to you. Suddenly harvesting undulating fields becomes a delight. The entire frame flexes a full 30cm to enable you to follow the contours of even the roughest ground. The advanced Autofloat™ automatic floatation is standard. This uses a network of two sensors to provide consistent ground clearance across the entire pick-up width to guarantee uniform stubble height. The most demanding operations will choose the optional hydraulic flotation system, which delivers on-the-go front flotation adjustment from the comfort of the cab for the

most uniform pick-up. The mechanical suspension can



EFFICIENT AUGER PERFORMANCE

Auger speed has been increased to an impressive 212rpm on 4.55 metre fronts which, in some conditions, will enable a higher forward speed to enhance overall machine capacity. The auger features double 'V' pattern tines which ensure the crop is cleanly fed into the feeder, which together with the reduced clearance of the auger fingers, auger flight floor and auger clearance, will prevent wrapping, which means your in-field productivity will significantly improve as well as preventing potential damage whilst improving grain quality.

THE DETAILS THAT COUNT

pick-up front delivers unsurpassed in-field performance. The robust frame benefits from an extended lifespan and maintenance has been designed to be quick and simple so you can spend more time harvesting your crops.





MAINTENANCE MADE EASY

Fingers can be easily replaced by removing the spring pin from the plastic holder. The tines also offer zero-tool assembly, and their pitch can be adjusted using a single pin and handle. What's more, you can wave goodbye to time consuming daily maintenance. The PTO shaft supplies power to the auger drive chain and the hydraulic motor powers the rear pick-up roller which, in turn, powers the belt driven rear transfer roller. Simple. Efficient. Typically New Holland.



IN-BUILT RELIABILITY

The main frame features a 15x15cm main tube to guarantee maximum strength and integrity and the welded auger floor and strong auger drive chain transfer the load of heavy crops and windrows with less chain stretch to provide a longer, more reliable operation. The pick-up front features the same frame construction with a different finger pattern, as the larger direct cut fronts, so you can be sure of robust, rugged performance.



CASTORING GAUGE WHEELS

The castoring gauge wheels enable the front to smoothly follow ground contours. This is perfect when working in smaller fields with many headlands or in uneven shaped fields where windrows are not always arrow straight.



EASY HITCHING

In order to make the most of tight harvesting window, the New Holland pickup front is the easiest to hitch. Ever. A single-point hydraulic multi-coupler and 31-pin electrical connector with front recognition makes hook-up even easier.

PRECISION OPERATION

In order to keep you feeling fresh at the end of a long harvesting day, operator comfort was a key priority when developing the SuperFlexTM front. Customisable efficiency is also of prime importance, so New Holland has introduced advanced engineering solutions to save weight, increase your throughput and enable you to customise your front as you require. Welcome to the world of "custom-made" fronts.

SIMPLE FRONT FLOTATION ADJUSTMENT

It is now even easier to carry out all front flotation adjustments using the IntelliViewTM monitor and the CommandGripTM multi-function handle.

ENHANCED COMFORT. REDUCED VIBRATION

In order to maintain operating precision and to improve operator comfort, New Holland conducted an extensive testing program. The result: a simplified front drive system which reduces overall vibration. Double knife drive technology is standard and it provides perfect balance. By ensuring even weight distribution, more uniform cutting is achieved and this also reduces the amount of vibration reaching the operator, enhancing overall comfort. The hydraulic reel drive enables reel speed to be fine-tuned independently of forward speed. The auger is chain driven and benefits from a friction disk driveline clutch. This all adds up to a reduced number of drive support bearings for smoother front functionality.



TAILOR YOUR FRONT TO SUIT YOUR NEEDS

In order to ensure your SuperFlexTM front is right for your farm, you can choose from a whole host of customisable options. From optional steel reel tines for enhanced durability, to upgraded long or rod dividers spare knife assembly, conveniently stored in the lower beam storage area, you are able to tailor your front to suit your needs. You can even order a reel tine flap kit from your local New Holland dealer.





ADVANCED PLM GUIDANCE

New Holland has developed a range of solutions which will enable you to unlock your combine front's full potential. Just imagine if your front was 100% full, 100% of the time. You would be able to bring in more of your crop at its optimum ripeness, finish more fields every day, reduce your combine's fuel consumption... the list of benefits is endless. So if you are ready to get even more out of your front, then we welcome you to the world of precision farming, New Holland style.

FULLY INTEGRATED INTELLISTEER® GUIDANCE

All CX Elevation and CR flagship combines can be ordered direct from the factory with IntelliSteer® auto guidance, New Holland's fully integrated auto guidance package. Fully compatible with the most accurate RTK correction signals, IntelliSteer can guarantee pass-to-pass and year-to-year accuracy as low as 1 - 2cm. The result? Fields which are cleanly harvested, so every grain gets safely stored in the tank.



PLM® SOFTWARE: MAXIMISE EVERY SQUARE INCH OF FIELD

New Holland offers a variety of precision farming packages which will enable you to tailor your inputs to reduce your costs and increase your yields. This information is recorded in real time by your machine during working, and it is simply and efficiently transferred for analysis by the computer package from the IntelliView™ IV monitor via the complementary 4GB USB stick, which is large enough to record data from over 600 - 700 harvesting hectares.

PLM® CONNECT TELEMATICS: MANAGE YOUR MACHINE FROM THE COMFORT OF YOUR OFFICE

PLM® Connect enables you to connect to your combine from the comfort of your office through the utilisation of the mobile network. You can stay in touch with your machines at all times, and you can even send and receive real-time information that saves time and enhances productivity. The entry-level PLM® Connect Essential package offers the most frequently used features or upgrade to the PLM® Connect Professional package for full machine monitoring and control.



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AT YOUR OWN DEALER



YOUR SUCCESS - OUR SPECIALTY

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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 structures in place.

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information. Published by New Holland Brand Communications. - Printed in Australia - 14NHH001 01/15