

A close-up, low-angle shot of the front of a yellow and black New Holland FR Forage Cruiser harvester. The image shows the front grille, headlights, and a large black tire with a "CER" tread pattern. The harvester is set against a solid blue background.

NEW FR FORAGE CRUISER

FR480 | FR550 | FR650 | FR780 | FR850

BEST-IN-CLASS CHOP QUALITY, PERFORMANCE, COMFORT AND EFFICIENCY.



» New Holland has been at the forefront of the forage harvester market for over half a century, revolutionizing the way you chop with a host of pioneering industry firsts. Now, the NEW FR Forage Cruiser self-propelled forage harvesters offer innovation and productivity in a five-model line from 476 right up to 824 horsepower. New Holland has married industry-leading chopping and crop processing performance with outstanding operator comfort and new, efficient engine packages.



THE BIGGEST AND QUIETEST CAB

The FR series forage harvesters are your home away from home. With 360° panoramic visibility, the FR Forage Cruiser has your back. This cab is designed specifically for chopping with a rear windshield that gives you eyes-in-the-back-of-your-head-visibility. Wide curved windows offer a perfect view of the header and to the spout regardless of position. The sculpted, glazed side-door panels naturally follow the spout's unloading arc for a clear line of sight during discharge. You can adjust the electric mirrors from the comfort of your seat to get the exact views you want, and you can manage up to three viewing cameras through the IntelliView™ IV monitor.

DESIGNED FOR YOUR COMFORT AND ERGONOMIC OPERATION

The relaxing air-suspended operator seat features multiple adjustments to conform to most any preference to guarantee the utmost comfort during long harvesting days. The right-hand console is suspended with the seat and moves with it, but can also be adjusted for/aft independently for perfect positioning.

YOUR CONTROL CENTER EFFORTLESSLY MAXIMIZES PERFORMANCE

Intelligent and intuitive Forage Cruiser automation saves time and enhances harvesting performance. The CommandGrip™ multi-function lever is your direct link to FR control. It lets you manage all key machine operating parameters including header controls, spout engagement and Power Cruise™ activation. Less frequently used functions are laid out logically on the right-hand console for easy access when needed. You can analyze machine functions at a glance courtesy of the color IntelliView™ IV monitor.

WHAT'S NEW!



- **Deluxe 2-color cloth seat** (optional on FR480 and FR550, standard on larger models) features suspension with automatic weight adjustment and variable shock absorption. Seat upper has adjustable backrest, lumbar support, seat pan angle, seat pan in/out, and height adjustable flip-up left-hand armrest.
- **New leather and cloth luxury seat** (optional on the FR650, FR780, and FR850) includes heated and ventilated cushions, pneumatic lumbar support, and an adjustable headrest. Suspension upgrades include both fore/aft and lateral isolation.
- **Simple floor mat design** features deep grooves for good traction and sound absorption.
- **Storage areas** are provided to keep manuals, drinks, gloves and other necessary equipment organized and easy to find.
- **Cool box option** keeps lunch or beverages cold.
- **Instructor seatbelt** is standard for added safety.
- **Lighting soft touch control pad** with an outline of the harvester makes it easy to select which lights you want to use. A master off switch allows all of them to be turned off at the end of the night, but remembers the combination that was on the next time lights are needed.
- **New slim steering column** features a double-jointed design that makes it easy to position the steering wheel exactly where you want it for the best view of the header and maximum comfort.
- **Automatic climate control** (optional on FR480 and FR550, standard on larger models) features infinite control of fan speed and cabin temperature, and maintains your desired temperature automatically, all day long.

BEST IN CLASS CHOP QUALITY

It's a bold statement, but NEW FR Forage Cruisers more than live up to this title. Industry-leading HydroLoc™ technology ensures constant chop length regardless of crop type and variations in load. But, quality is nothing without throughput, and all FR models turn crop into feed at amazing rates.

UNIFORM CHOPPING

The heart of the FR is the largest cutterhead in the industry—not only wider but also larger in diameter than any competitor model. The high rotating mass helps prevent shock loads to the driveline and powers through crop slugs with no problems. The proven chevron knife design delivers the most uniform chop, and begins to converge the crop to pass through the rest of the crop channel. Choose the cutterhead configuration that best meets your chopping needs.

Cutterhead number of knives	Length of cut range
2 x 8	6 – 33 mm
2 x 10	5 – 27 mm
2 x 12	4 – 22 mm



ULTRA-EFFICIENT CROP PROCESSING

No matter which FR model you choose, you get industry-leading New Holland processing efficiency. Large 10-inch (250-mm) processing rolls are a full 30 inches wide—the widest available. Wider rolls mean more crop can fit through the small gap for maximum capacity.

FR480 AND FR550: Both rolls have 99 saw teeth, and are driven at a 22% speed differential.

FR650, FR780, AND FR850: A high-performance processor with hardened chrome rolls with staggered tooth count (99/126) and a 30% speed differential delivers greater processing performance and life longevity.



VARIFLOW™ TECHNOLOGY

The New Holland Variflow system streamlines the crop channel and allows you to tailor crop flow to conditions. The system allows you to alter the position of the blower depending on the crop being harvested. Choose from one corn and two grass settings—one for heavy, first-cut silage and a second for smooth crop flow in lighter second and third cuttings. In grass-mode, the blower is moved 8 inches closer to the cutterhead to enhance blowing performance and overall machine efficiency.

ONE PERSON, FIVE MINUTES, NO TOOLS.

In less time than it takes to change headers, you can change the Variflow system from its corn to grass setting without the need for any tools—perfect when flexibility is of the essence in busy harvesting periods. Furthermore, an exclusive tensioning system ensures correct belt tension in both positions so you don't need to waste time with adjustments. During extended periods of hay chopping, you can remove the crop processor from the harvester in under 30 minutes with the assistance of a dedicated hoist.

AN EVEN BETTER SPOUT

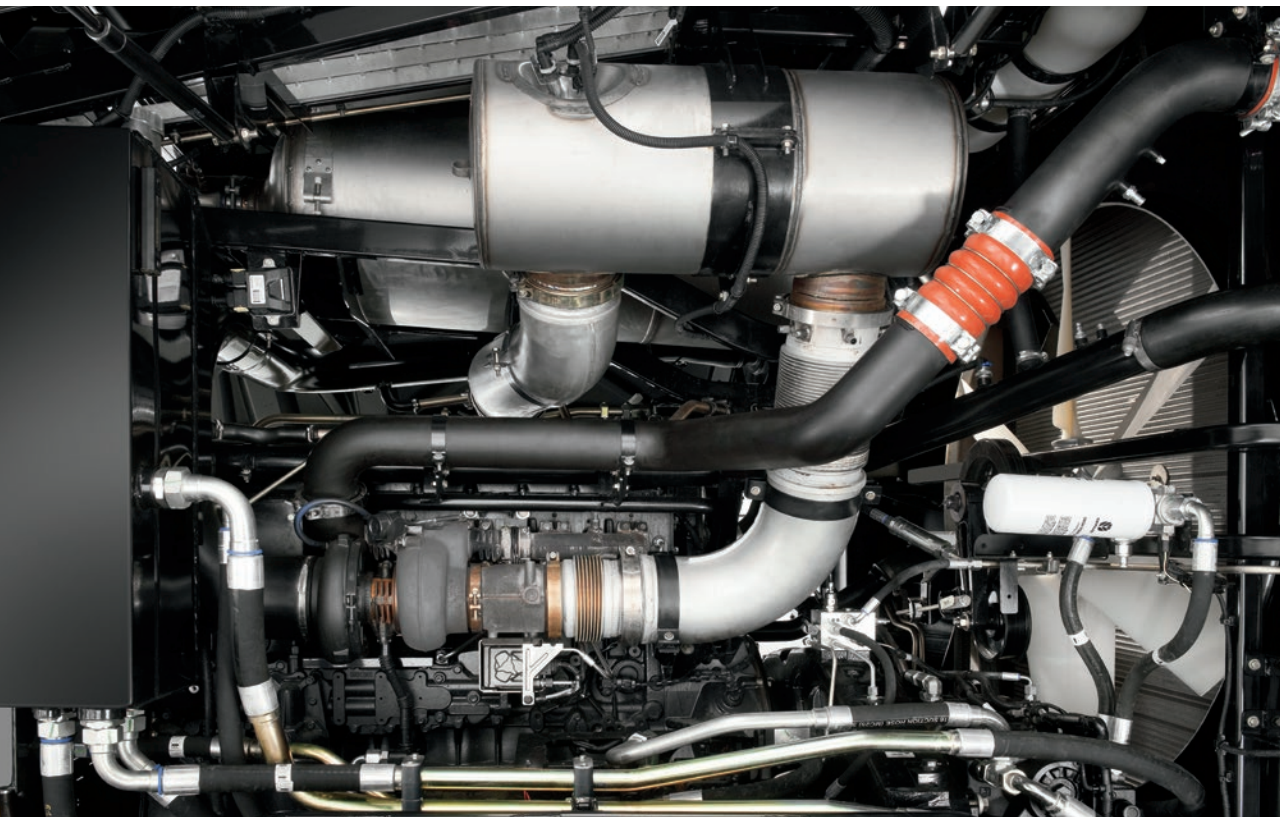
The widest, easiest to open spout in the industry just got better with full-length replaceable top and side liners, a new hard-faced flipper, stronger flipper cylinder, and improved spout base lubrication. Control of the spout is also easier than ever, with standard adjustable two-speed rotation and flipper actuation, three configurable memory positions, and versatile control of spout up and down.

HD WEAR LINERS

An improved wear liner package adds new HD liner sections in the spout to greatly extend wear life in abrasive crop conditions.

POWER DESIGNED FOR CONSTANT HIGH LOADS

The NEW FR Series (except FR850) is equipped with ECOBlue™ HI-eSCR engines which are Tier 4B compliant. The FR480 and FR550 use proven FPT Cursor 13 engines similar to those used in many dependable New Holland tractors and combines. These engines, however, have been specifically tuned to the constant high loads experienced during harvesting forage, and also have almost instantaneous transient response to handle sudden changes in loads without stopping or plugging.



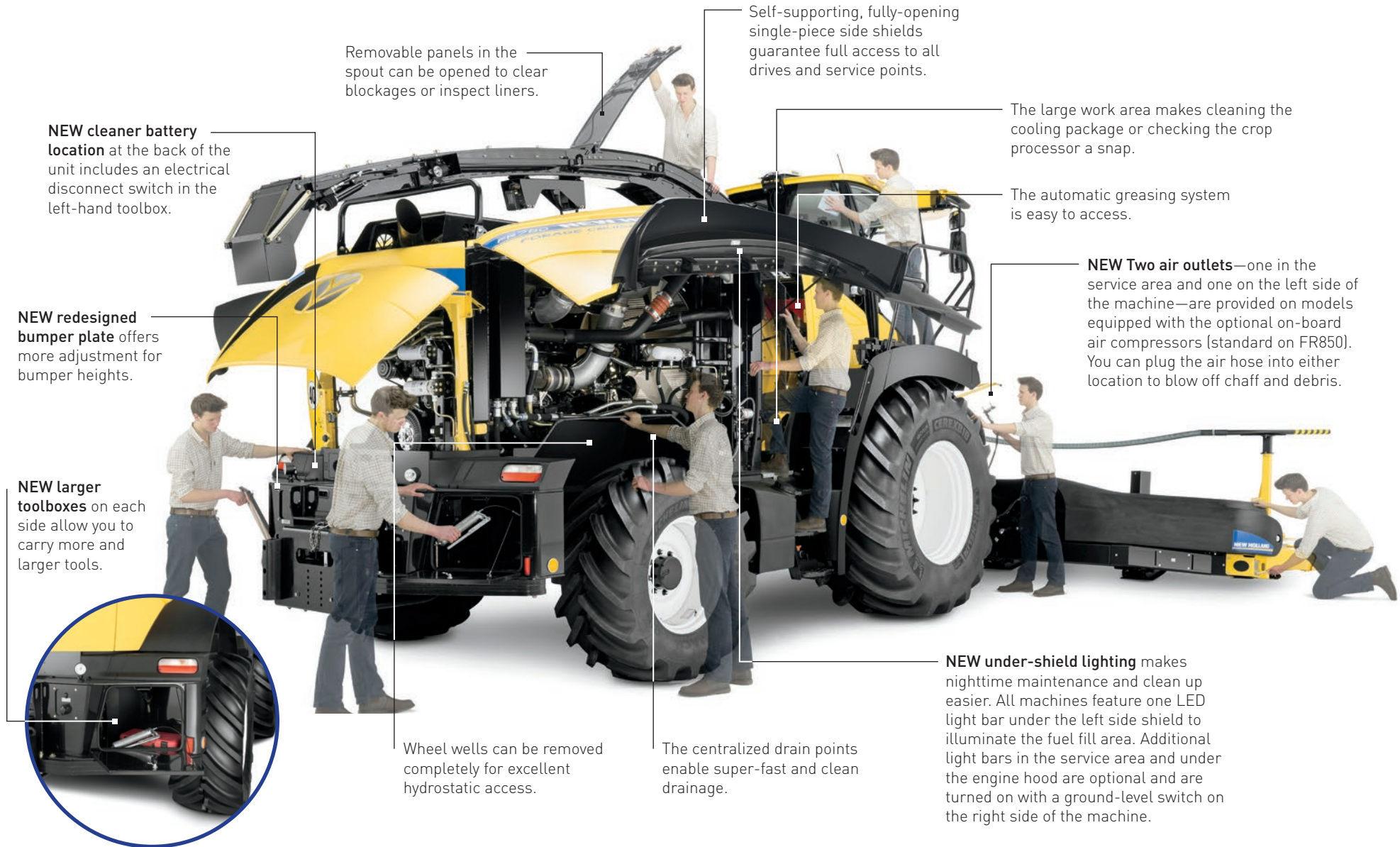
DIESEL OF THE YEAR

The FR650 and FR780 use the new, larger FPT Cursor 16 engine, which was recently awarded "Diesel of the Year" by Diesel Magazine. Like its smaller brother, these powerful engines are tuned to be the beating heart of a very productive harvesting machine while also sipping fuel and DEF in the smallest possible quantities.

ECOBBLUE HI-eSCR TECHNOLOGY FOR TIER 4B COMPLIANCE

To meet regulations, the emission controls on diesel engines must manage two separate components of the exhaust stream—particulates and nitrogen oxides (NOx). New Holland FR engines are engineered and tuned to produce very few particulates (basically unburned fuel). This leaves the emission system with one main job—clean up the NOx that is created by the high combustion temperatures.

EASY SERVICE AND MAINTENANCE ACCESS



NEW cleaner battery location at the back of the unit includes an electrical disconnect switch in the left-hand toolbox.

NEW redesigned bumper plate offers more adjustment for bumper heights.

NEW larger toolboxes on each side allow you to carry more and larger tools.

Removable panels in the spout can be opened to clear blockages or inspect liners.

Self-supporting, fully-opening single-piece side shields guarantee full access to all drives and service points.

The large work area makes cleaning the cooling package or checking the crop processor a snap.

The automatic greasing system is easy to access.

NEW Two air outlets—one in the service area and one on the left side of the machine—are provided on models equipped with the optional on-board air compressors (standard on FR850). You can plug the air hose into either location to blow off chaff and debris.

NEW under-shield lighting makes nighttime maintenance and clean up easier. All machines feature one LED light bar under the left side shield to illuminate the fuel fill area. Additional light bars in the service area and under the engine hood are optional and are turned on with a ground-level switch on the right side of the machine.

Wheel wells can be removed completely for excellent hydrostatic access.

The centralized drain points enable super-fast and clean drainage.

		FR480	FR550	FR650	FR780	FR850
	Units					
ENGINE PERFORMANCE (ECE R120)						
Maximum HP over working RPM range	HP (kW)	476 / 350	544 / 400	653 / 480	775 / 570	824 / 606
Rated HP at 2100 RPM	HP (kW)	435 / 320	503 / 370	598 / 440	721 / 530	768 / 565
Maximum torque at 1500 RPM	Ft/Lbs (Nm)	1477 / 2003	1708 / 2316	2029 / 2751	2451 / 3323	2606 / 3533
Maximum torque rise	%	38	38	37	38	38
ENGINE						
Family		FPT CURSOR 13	FPT CURSOR 13	FPT CURSOR 16	FPT CURSOR 16	FPT VECTOR
Cylinder Layout		I-6	I-6	I-6	I-6	V8
Displacement	L (cu in)	12.9 / 787	12.9 / 787	15.9 / 970	15.9 / 970	20.1 / 1227
Emission control Level		Tier 4 final	Tier 4 final	Tier 4 final	Tier 4 final	Tier 2
Emission Technology used		ECOBlue high E SCR	ECOBlue high E SCR	ECOBlue high E SCR	ECOBlue high E SCR	ECOBlue high E SCR
Approved Biodiesel Blend		B20	B20	B20	B20	B5
Fuel Tank Capacity	Gal (L)	317 / 1200	317 / 1200	317 / 1200	317 / 1200	370 / 1400
AdBlue Tank Capacity	Gal (L)	52 / 200	52 / 200	52 / 200	52 / 200	N/A
CUTTERHEAD						
Frame Width	in (mm)	35.4 / 900	35.4 / 900	35.4 / 900	35.4 / 900	35.4 / 900
Diameter	in (mm)	28.0 / 710	28.0 / 710	28.0 / 710	28.0 / 710	28.0 / 710
RPM at rated engine speed		1130	1130	1130	1130	1130
Length-of-Cut Range-						
2x8 Cutterhead	mm	6 - 33	6 - 33	6 - 33	6 - 33	6 - 33
2x10 Cutterhead	mm	5 - 27	5 - 27	5 - 27	5 - 27	5 - 27
2x12 Cutterhead	mm	4 - 22	4 - 22	4 - 22	4 - 22	4 - 22
CROP PROCESSOR						
Roll Diameter	in (mm)	9.84 / 250	9.84 / 250	9.84 / 250	9.84 / 250	9.84 / 250
Roll Width	in (mm)	29.5 / 750	29.5 / 750	29.5 / 750	29.5 / 750	29.5 / 750
Standard Teeth count		99 / 99	99 / 99	99 / 126	99 / 126	99 / 126
Standard Speed Differential	%	22	22	30	30	30
Roll Gap Adjustment	mm	1 - 6	1 - 6	1 - 6	1 - 6	1 - 6
ACCELERATOR						
Diameter	in (mm)	20.7 / 525	20.7 / 525	20.7 / 525	20.7 / 525	20.7 / 525
Width	in (mm)	29.5 / 750	29.5 / 750	29.5 / 750	29.5 / 750	29.5 / 750
RPM at rated engine speed		2120	2120	2120	2120	2120
SPOUT						
Maximum Height	ft (m)	21 / 6.4	21 / 6.4	21 / 6.4	21 / 6.4	21 / 6.4
Width	in (mm)	13 / 330	13 / 330	13 / 330	13 / 330	13 / 330
Rotation	degrees	210	210	210	210	210
Extensions Offered		10 and 12 Row	10 AND 12 ROW	10 and 12 Row	10 AND 12 ROW	10 and 12 Row
GROUND DRIVE TRANSMISSION						
Speed Range	mph (kph)	0 - 25 / 0 - 40	0 - 25 / 0 - 40	0 - 25 / 0 - 40	0 - 25 / 0 - 40	0 - 25 / 0 - 40
Gearbox Ranges		4	4	4	4	4
Differential Lock		N/A	Std	Std	Std	Std
OPERATOR AREA						
Cab Glass Area	ft2 (m2)	60.3 / 5.6	60.3 / 5.6	60.3 / 5.6	60.3 / 5.6	60.3 / 5.6
Cab Volume	ft3 (m3)	122.2 / 3.46	122.2 / 3.46	122.2 / 3.46	122.2 / 3.46	122.2 / 3.46



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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.

