

FR FORAGE CRUISER

FR450 | FR500 | FR600 | FR850



New FR. The game changer.



Ultimate capacity

New Holland knows that throughput is king where forage harvesters are concerned and that owners dream in tonnes per hour. The largest, 900mm diameter, cutterhead in the business offers exceptionally high levels of inertia, and when combined with lots of cutting space, throughput and accuracy are guaranteed. The ECO engine management mode works to ensure the engine is always fully loaded in relation to a preset engine speed to deliver optimal operating efficiency and performance. Renowned Power Cruise™ features remain to ensure your FR's voracious appetite is satisfied in fields of varying crop density and state of the art headers that eat grass, maize, whole crop... quite simply anything for breakfast complete the capacity picture.

Superior harvest quality

If you can guarantee unsurpassed harvest quality you're already half way to getting lucrative silage and biomass contracts in the bag. Patented HydroLoc™ technology guarantees constant chop length independent of throughput and crop type. The ActiveLOC™ system automatically adapts chop length to actual moisture content for unsurpassed quality. Automatic adjustment maintains best-in-class chop quality, and when combined with uniform kernel cracking from the most efficient crop processor around, you've got the ingredients for the highest quality cattle and the most profitable power stations.

Absolute driving pleasure

Skilled forage harvester operators are like gold dust, and when you've found one, you'll want to hang onto them. The FR offers a first-class foraging environment. Front. Back. Side to side. They'll have an uninterrupted view whichever way they look for accurate pick-up and crop discharge. The all-new cab has been completely redesigned to put the operator at the heart of the machine. The new armrest is an example of ergonomic excellence with all controls falling naturally to experienced foraging hands. What's more it boasts the ultra-wide screen IntelliView™ IV colour touch screen monitor and ergonomic armrest to keep all key operating parameters under control. The IntelliFill™ feature fills the trailer for you so you can concentrate on the serious business of pick-up. Welcome aboard!

SPECIFICATIONS

Forage Cruiser models

	FR450	FR500	FR600	FR850
Engine	FPT Cursor 13L*	FPT Cursor 13L*	FPT Cursor TCD 16L*	FPT Vector V8 20L*
Engine configuration and number of cylinders	In-line 6	In-line 6	In-line 6	V8
Capacity (cm ³)	12900	12900	15927	20100
Injection system	Common Rail	Common Rail	Common Rail	Common Rail
Compliant with engine emissions regulations	Tier 3 / Stage 3A	Tier 3 / Stage 3A	Tier 3 / Stage 3A	Tier 2 / Stage 2
Maximum engine power at 1800-2000 rpm - ECE R120 [kW/hp(CVI)]	331 / 450	366 / 498	435 / 591	605 / 824
Torque rise (2100 to 1800rpm) (%)	24	24	27	25
Power Cruise™ II system	●	●	●	●
ECO engine management mode	●	●	●	●
Fuel consumption measuring and read-out on IntelliView™ IV monitor	●	●	●	●
Air compressor	○	○	○	●
Fuel tank				
Diesel capacity (l)	1200	1200	1200	1400
Feeding	HydroLoc™ drive	HydroLoc™ drive	HydroLoc™ drive	HydroLoc™ drive
Length of cut adjustment	Infinite	Infinite	Infinite	Infinite
Number of feed-rolls (n°)	4	4	4	4
Feed opening width (mm)	860 (33.86 inch)			
MetaLoc™ metal detection with position indication	●	●	●	●
Dual Drive system (header hydrostatic drive)	○	○	○	○
ActiveLOC™ active chop length control	○	○	○	○
Cutterhead	FPT Cursor 13L*	FPT Cursor 13L*	FPT Cursor TCD 16L*	FPT Vector V8 20L*
Cutterhead cylinder type	V-shaped with 2 rows of knives			
Cutterhead frame width (mm)	900			
Cutterhead cylinder width (mm)	884			
Cutterhead diameter (max / min) (mm)	710 / 690			
Cutterhead speed at 2100 engine rpm (rpm)	1130			
Cuts per minute (2x8 knives) (c/min)	9060			
Length of cut range (2x8 knives) (mm)	6 - 33			
Cuts per minute (2x10 knives) (c/min)	11320			
Length of cut range (2x10 knives) (mm)	5 - 26			
Cuts per minute (2x12 knives) (c/min)	13600			
Length of cut range (2x12 knives) (mm)	4 - 22			
Cuts per minute (2x16 knives) (c/min)	18100			
Length of cut range (2x16 knives) (mm)	3 - 16			
Cuts per minute (2x20 knives) (c/min)	22600			
Length of cut range (2x20 knives) (mm)	2 - 13			
Adjust-O-Matic™ shearbar setting	●	●	●	●
Automatic knife sharpening system	●	●	●	●
Automatic knife sharpening system with reverse drive	○	○	○	○

● Standard ○ Optional – Not available * Developed by FPT Industrial

SPECIFICATIONS

Forage Cruiser models

FR450

FR500

FR600

FR850

		FR450	FR500	FR600	FR850
Varifloat™ system		Shift between crops in under two minutes			
Crop processor					
Roll diameter	(mm)	200 / 250	250	250	250
Two-roll system with saw tooth profile	(teeth)	99 / 126 / 166		99 / 126 / 166	
Width crop processor rolls	(mm)	750			
10% speed differential		○	-	-	-
22% speed differential		●	●	●	●
30% speed differential always in combination with chrome coating		○	○	○	○
50% speed differential (whole crop)		○	○	○	○
Roll clearance range (electro-hydraulic adjustment)	(mm)	1-6			
Manual clearance control (optional 200mm rolls)		○	○	-	-
Remote electro-hydraulic clearance control (250mm rolls)		●	●	●	●
Blower					
Blower rotor diameter / width	(mm)	525 / 750			
Blower speed at 2100 engine rpm	(rpm)	2119			
Spout					
Spout maximum height	(mm)	6400	6400	6400	6400
Rotation angle	(°)	210	210	210	210
Spout extension (10-row maize header)	(mm)	720	720	720	720
Spout extension (12-row maize header)	(mm)	1380	1380	1380	1380
Automatic spout functions (home and work positions)		●	●	●	●
Spout side collision protection		●	●	●	●
Abrasive option					
Spout		○	○	○	○
Cropflow		○	○	○	○
Electrical					
12 volt alternator Standard / Optional	(Amps)	240	240	240	240
Battery capacity	(CCA / Ah)	2 x 800 / 107	2 x 800 / 107	3 x 800 / 107	4 x 800 / 107
Transmission					
Hydrostatic		●	●	●	●
Gearbox		4-speed	4-speed	4-speed	4-speed
Remote gearshifting		●	●	●	●
Differential lock		○	○	○	○
Mechanical powered rear wheels		○	○	○	○
Maximum road speed @ 1200rpm	(kph)	40	40	40	40
Header control systems					
Automatic stubble height control		●	●	●	●
Pressure compensation mode		○	○	○	○
Autofloat™ system		○	○	○	○
Mechanical Lateral flotation		●	●	●	●
Power Reverse hydraulic header reverser		●	●	●	●
Hydraulic quick coupler (single location)		●	●	●	●
Automatic header speed synchronisation to forward speed		●	●	●	●
Cab glass area	(m²)	6.8	6.8	6.8	6.8
Cab category level - EN 15695		1	1	1	1
LED lighting pack		○	○	○	○
Standard cloth trimmed seat with air-suspension		●	●	●	●
Deluxe cloth trimmed heated air-suspension seat with Active Ventilation		○	○	○	○
Leather trimmed heated air-suspension seat with Active Ventilation		○	○	○	○
Instructor's seat		●	●	●	●
CommandGrip™ handle		○	○	○	○
IntelliView™ IV monitor with adjustable position		●	●	●	●
Reversing camera		○	○	○	○
Manual air-conditioning and heating		●	●	●	●
Automatic climate control		○	○	○	○
Removable coolbox		○	○	○	○
MP3 Bluetooth radio (hands free phone calls)		○	○	○	○
Automatic greasing system		○	○	○	○
Rear bumper with integrated water proof storage boxes		●	●	●	●
Optimum cab noise level - ISO 5131	(dB(A))	76			
New Holland Precision Land Management systems					
PLM® Connect Telematics		○	○	○	○
Guidance systems					
IntelliSteer® system		○	○	○	○
Automatic row guidance system for maize headers		○	○	○	○
IntelliFill™ system		○	○	○	○
Precision farming					
Optional additive tank (with adjustable flow) capacity	(l)	395	395	395	395
Moisture measuring		○	○	○	○
Yield measuring and moisture measuring		○	○	○	○
Full Precision farming package including:					
Yield measuring and moisture measuring, DGPS yield mapping		○	○	○	○
PLM desktop software and software support service		○	○	○	○
Weight**	(kg)	12550	12750	12760	13260

● Standard ○ Optional - Not available * Developed by FPT Industrial ** Grass configuration

Dimensions

		680/85R32	800/70R32	710/75R34	900/60R32	710/70R42	800/70R38	900/60R38
With traction wheels								
Turning radius	(m)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Maximum height in transport position	(m)	3.86	3.74	3.77	3.76	3.84	3.82	3.84
Maximum width - transport	(m)	2.97	3.35	3.15	3.48	3.19	3.29	3.48
Wheelbase	(m)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Maximum ground clearance	(mm)	500	500	500	500	500	500	500



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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. Bts Adv. - Printed in Italy - 04/18 - (Turin) - RSA8372N/INB

New Holland prefers AMBRA lubricants