

Changes/Improvements from FD75 to FDI

MacDon

	FM100	CA25	Advantages
Main Frame	Redesigned Float Module frame: Increased header weight capacity. Hydraulic reservoir increased to 75L (20 US gal) {from 60L} Oil reservoir drain ports moved to rear of frame. Re-designed float lock out mechanism. Improved component access.		Increased header weight capacity. Higher volume of oil leads to greater cooling ability. Cooler temperatures are achieved with baffles to more efficiently circulate & cool the oil. Oil reservoir drain ports: Easy access, improved serviceability. Float lock outs: Improved reliability, robustness (New design allows debris to escape and prevent bending/jamming of handle mechanism.
Hydraulics	Triple pump system. Independent circuits all the way to the filter.	Dual pump system. One knife drive pump (piston pump) One pump for side drapers and center draper (gear pump).	Improved performance. No chance of cross contamination. 3 pumps for 3 circuits allows for lower draper operating pressures & cooler temperatures for better durability, longer life & more up time. Independent circuits are more easily diagnosed.
Oil Requirement	Hydraulic Oil	15W 40 Motor Oil	Improved performance with FM100 hydraulic layout. Consistent with combine hydraulic systems.
Hydraulic valve block & filter	New valve block with easy access external mount filter that uses a new synthetic medium.		Easier to service. Better filtration characteristics which eliminates more contaminants and improves hydraulic component life.
Retractable Tine Drum (RTD)	FeedMacX combine specific setup. Configured specifically to combine brand (auger flighting, tines and specific drive sprocket in the gearbox).	One Auger fits all	Increased harvest speeds are obtained through better feeding, especially in high volume conditions. More aggressive. (Up to 20% increase in Capacity depending on combine).
RTD flighting	Combine specific bolt-on flighting to better match combine feederhouse opening.	One Style fits all	Bolt-on flighting optimizes crop delivery for specific feederhouse widths. There is a base amount welded on then additional sections are bolted on to match the specific combines. The opening can be adjusted from 1170 mm down to 650 mm.
RTD Tines	DrumSaver tines; hollow steel with shear groove. Adjustable tine timing; 20° of adjustment (for bushy crops) Tighter tine spacing; 10% increase in tine density 13% increase in tine extension: more crop engagement Two piece holder available through parts.	Solid steel tines. Not adjustable timing.	DrumSaver tines have been redesigned to save the header & combine from damage, to maximize feeding of crop & (2 piece holder) are easier to replace. *****Not backwards compatible, damage may occur.
RTD Shaft	31.75 mm (1.25")	25 mm (1")	Added Durability with a 25% larger shaft.
RTD Drive	New cover. Improved chain alignment and tensioner. External adjustment for chain tension and Improved access.	Requires cover removal for proper chain tensioning.	Ease of use. More robust drive reduces downtime.
RTD Tine Reversing Clutch	Newly designed, purpose built Clutch mounted on center shaft Clutch driven by drum.	Clutch mounted on tine shaft Clutch driven by tine.	Elimination of the driven by finger design makes for significant improvements in up time & durability.

	FD1	FD75	Advantages
Reel Tines	4" Nominal Spacing. On average a 51% increase in reel tines.	6" nominal spacing	Makes harvesting short/light crop & lodged crop easier while saving more grain.
Reel Height Sensor	Reel height resume. Allows one touch reel in conjunction with header position. On combines that are compatible.**	N/A	Ease of use. Enables reel to lower automatically when raising header to retain crop at headlands. Allows reel to return to preset height.
Reel Sectors	Added extra reel sectors on 40' DKD and 45' DKD.	N/A	More durability & strength for harvesting heavy, tangled, bushy crops.
Auto Contour Kit	Optional - for header lateral movement sensing; ties in with existing combine AHHC.	N/A	Better ground following in some conditions. Note: Not recommended in severe hills
Header Endshield	Fully folding & hinged for complete access.	Partially folding with limited access. Removal required for full access.	Improved ease of use.
Side drapers	A) Separate circuit. Fed directly from its own piston pump. B) Better able to handle increased side draper speeds	A) Side draper and center draper circuits in series.	A) Up to 60% faster draper speeds are achieved because of independent hydraulic piston pump. B) Same motor as used on the D65 rigid header for continuity of parts.
In Cab Side Draper Speed Control	Optional	N/A	Allows for precise, in-cab setting of side draper forward speed for all harvesting conditions. When unplugging, the operator can now remain in the cab and turn down the forward movement of the side drapers as the machine is cleared.
Float Spring Lock-out	Elimination of jam nuts on float springs and replaced with easy access bolt retainers.	Jam nuts used for locking down float spring adjustments.	Ease of use for spring adjustment purposes.
Upper Cross Auger (UCA)	Revised center flighting. In tube motor and extended flighting. Plumbed first in the side draper circuit with case drain on motor. No extra kits required.	Paddle in center. Can wrap in certain conditions. Required ordering extra kits.	Improved crop transition from UCA to RTD Allows better conveying of crop from corners. More efficient overall feeding performance.

Note: ** AGCO combines are not compatible with reel height resume (Gleaner, Massey, Challenger)



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