



CHALLENGER 640

The **Challenger 640** combine offers the latest in farming technology to handle a wide range of conditions and crops.

- ▶ Excellent power-to-weight ratio allows efficient harvesting where competitors cannot
- ▶ High-inertia threshing cylinder and concave smooth out peak loads and maintain a constant cylinder speed for more efficient threshing, less grain damage, improved capacity and better fuel economy
- ▶ 5000 litre grain tank with cover for rain/humidity protection, able to unload in 116 seconds to any transport vehicles
- ▶ Automatic header functions (cutting height control, autolevel and header height control) for a low cut in all terrain conditions to maximise productivity and safety. Uniform and continuous feed guaranteed during high machine performance.
- ▶ Speed, turning radius and design of straw-walkers guarantee an intense straw agitation, increasing separation and minimising grain loss.
- ▶ Additional features including disc brakes, fan with turbine-type blades, hydrostatic reel drive and constant mesh gearbox

CHALLENGER 640

TABLE			
Type		quick-attach	
Height control		automatic/ manual	
Table flotation aid		hydropneumatic comp.	
Auger speed	rev/min	102, 122,147, 176	
Knife speed	rev/min	535	
Cutting width	ft (m)	13 (3,90), 14 (4,20), 16 (4,80), 17 (5,10), 19 (5,80)	
RIGID TABLE/FLEXIBLE TABLE			
Minimum cutting height	mm	50/38	
Knife to auger distance (min - max)	mm	392/492-558	
Reel tines	type	spring steel/polyurathane	
REEL			
Drive type / speed	rev/min	hydrostatic / 0-60	
Fore/aft adjustment		mechanical	
Reel tine positioning	type	manual	
MAIZE HEADER			
Model	Spacing	Rows	
4L70/4L80/4L90	mm	4	700-762/800-850-900/900-1000
5L70/5L80/5L90	mm	5	700-750/800-850-900/900-1000
6L70/6L80/6L90	mm	6	700-760/800/900-1000
THRESHING UNIT			
Cylinder	dia/width mm	560/1270	
Type/weight (kg)		high inertia/253	
Standard speed	rev/min	365-100	
Optional cylinder		toothed cylinder/concave	
Optional speeds	rev/min	300-900, 433-1300	
CONCAVE			
Number of bars		8/14	
Wrap angle	degrees	106	
Area (concave + extension)	m ²	0,67 + 0,33	
Standard wire dia/spacing	mm	8/10	
Optional wire dia/spacing	mm	3,6/13,5	
REAR BEATER			
Diameter	mm	380	
Speed	rev/min	960	
SEPARATING SYSTEM			
Straw walkers	number/type	5/closed bottom	
Straw walker area	m ²	4,89	
Total separation area	m ²	5,9	
CLEANING SYSTEM			
Type of sieves		closed, fully adjustable/closed, fully adjustable	
Total area of sieves	m ²	3,60	
Fan speed	rev/min	974-2075	
Fan type/number of rotors		turbine/2 MF5650	
GRAIN TANK			
Capacity - Unloading rate	litre - litre/sec	5000 - 43	
Tank full indicator		buzzer/light	

ENGINE			
Manufacturer/model		Cummins/6BT	
Number of cylinders/capacity	No./litre	6 turbo/5,9	
SAEJ power (1995)	kW (hp)	128,8 (175)	
Rated engine speed	rev/min	2400	
Fuel tank capacity	litre	330	
Safety system gauges		water temperature/oil pressure	
ELECTRICAL SYSTEM			
Alternator	V/A	12/90	
Battery	Ah	135	
TRANSMISSION			
Type		mechanical syncromesh	
Number of speeds	forward/reverse	3/1	
Forward speed grain/rice	km/h	1,5-27,90/1,00-18,50	
4 wheel drive		optional	
TYRE OPTIONS			
Grain versions	front/rear	23.1-30R1(10L)/10.0-16F2(8L)	
	front/rear	23.1-30R1(10)/12.4-24R1(6)	
	front/rear	28.1-26R1(8)/12.4-24R1(6)	
Rice versions	front/rear	23.1-26R2(10L)/9.5-24R1(6L)	
	rear option	12.4-24R1(6L)	
	front/rear	Track 640/12.4-24R1(6L)Track 640/12.4-24R1(6L)	
	front/rear	Track 800/12.4-24R1(6L)Track 800/12.4-24R1(6L)	
BRAKES			
Type/effective area	cm ²	disc / 78	
Activation		hydraulic	
OPERATOR ENVIRONMENT			
Air compressor		standard	
Steering/steering wheel column		hydrostatic/adjustable	
Canopy		standard	
Air conditioning		optional	
WEIGHTS AND DIMENSIONS			
Length with platform	grain/rice	m	8,5/8,5
Height	grain/rice	m	3,47/4,0
Width inc.header & dual tyres	grain/rice	m	3,32/3,32
Front tread width	rice	m	4,55
Rear tread width	grain/rice	m	2,88/2,77
Optional tread width	grain/rice	m	1,58
Width with header	grain/rice	m	2,16/2,75
OPTIONAL EQUIPMENT			
Fieldstar. Small seed harvest kit. Tracks. Capacity monitor. Toothed bars for rear beater.			
Grease pump. Polyethylene sliding plates for table. Cab with air conditioning.			
Concave with 3,6 mm wire and 10 mm spacing. Protecting plates for rigid header.			
Concave closing plates. Round hole sieves; 3, 5, 8, 10,12, 16 mm.			
Fixed air intake for radiator. Straw chopper. Toothed cylinder and concave. Dual tyres.			
Crop lifters. Straw spreader. Edible bean harvest kit.			

Every effort has been made to ensure that the information contained in this publication is as accurate and current as possible. However, inaccuracies, errors or omissions may occur and details of the specifications may be changed at any time without notice. Therefore, all specifications should be confirmed with your Challenger Dealer or distributor prior to any purchase.