



Grow a Better Crop

JOHN SHEARER MK4 SEEDER BAR

with **NEW** Precision Tyne Opener



4 ROW UNIVERSAL SEEDER BAR – 32'-60' SIZES AVAILABLE

Four is more – the Mk4 Universal Seeder Bar builds on a lineage of robust and effective Shearer seeding machines with a raft of improvements to meet today's needs. As always, we've worked extensively with local farmers to develop a machine that will excel in Aussie conditions.

As standard, this machine is fitted with the all-new, all-powerful Precision Tyne Opener, wielding a whopping 1300lbs of breakout force to tame the toughest terrain.

- ✓ **THE BEST GROUND FOLLOWING YET**
Front castoring wheels, high flotation tyres, floating hitch.
- ✓ **PRECISION TYNE OPENERS**
Huge 1300lb breakout capacity and precise soil packing.
- ✓ **RANGE OF SIZES AVAILABLE**
32-60' (10.3-18.8m), single and dual fold models
- ✓ **SPEC FOR SUCCESS**
Choose a hydraulic package to suit your needs.
- ✓ **HEAVY DUTY CONSTRUCTION**
Shearer continue to build machines to last.



BROAD ACRE FARMING TO THE POWER OF FOUR

The John Shearer Mk4 Universal Seeder Bar is packed with improvements to meet the needs modern farming. Wider wheels and tyres grant even better floatation in soft soil. Maximum tyne breakout pressure has been notably increased compared to previous models – now up to 1300lbs (590kg). Spec 1 configuration available with advanced hydraulics, Topcon controlled downpressure and auto lift capability.

WHEELS AND TYRES:

- Heavy duty swivelling castors
- Main frame wheels 560/60R22.5 169D
- Tyres on castors and wings - 400/60-15.5, pattern TRC-02, 14ply – bigger is better for consistent planting depth.

TYNES AND PRESS WHEELS:

- 32 to 73 Precision Tyne Openers in 10" (255mm) or 12" (305mm) spacing on four sowing ranks.
- 2.5" x 1.5" x 4" stroke, double-acting breakout pressure cylinders. 1" x 4" stroke, independant, single acting packing cylinders allows press wheel packing pressure to be adjusted 30-130 kg on the go.
- Press wheels swivel up to 30 degrees each side for optimal packing along curved sowing paths
- Dual acting cylinders raise/lower press wheels and control packing load independently of tyne depth

Single and double fold models are available in sizes from 32' (10.3m) to 60' (18.3m).

To top it all off, this is the first machine to feature John Shearer Precision Tyne Openers, combining simple and rugged ground tools with clever, hydraulic press wheels for unsurpassed soil packing in a tyne-based opener. See the back page for more info on this ground breaking ground tool.

HYDRAULIC SYSTEM:

- Valves to control tyne re-coil speed
- Depth control via tandem cylinders acting on main wheels.
- 2x 10L accumulator and 1x 4L
- Inner wing folding cylinders- 4 x 5.5"x38"x2.5" piston rod
- Outer wing folding cylinders- 4 x 5"x30"x 2.5"x2.5" piston rod
- Main frame depth cylinders- 2x 6"x12"x2.5" piston rod

ADDITIONAL FEATURES:

- Four sowing ranks
- Floating hitch
- Safety chains
- 800mm underframe clearance

Shearer

Scan the QR code to see this machine in action on the John Shearer website.



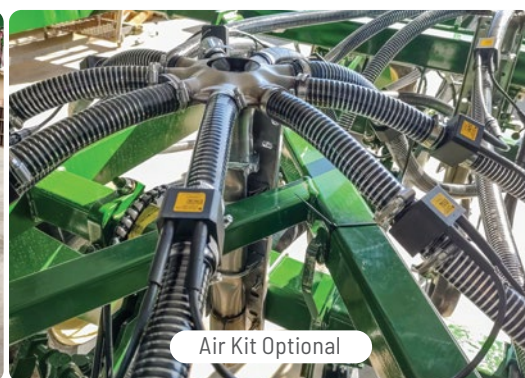
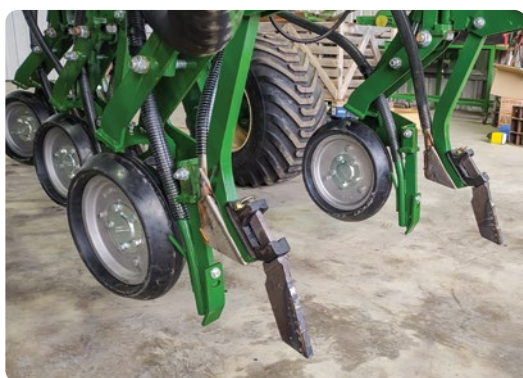


MODELS AND SPECIFICATIONS:

Spec 1: Advanced hydraulics package, Topcon controlled downpressure and auto lift capability.

Spec 2: Basic hydraulic controls.

MODEL (SPEC 1)	MODEL (SPEC 2)	WING FOLD	SIZE	OVERALL WIDTH	SOWING WIDTH	ROW SPACING	TYNES
6000DM4254-S1	6000DM4254-S2	Double	60ft	18.8m (61.8ft)	18.5m (60.8ft)	10" (255mm)	73
6000DM4305-S1	6000DM4305-S2	Double	60ft	18.8m (61.8ft)	18.3m (60ft)	12" (305mm)	60
5500DM4254-S1	5500DM4254-S2	Double	55ft	17.4m (57ft)	17m (55.8ft)	10" (255mm)	67
5500DM4305-S1	5500DM4305-S2	Double	55ft	17.4m (57ft)	17.1m (56ft)	12" (305mm)	56
5000DM4254-S1	5000DM4254-S2	Double	50ft	15.3m (50.3ft)	15m (49.2ft)	10" (255mm)	59
5000DM4305-S1	5000DM4305-S2	Double	50ft	15.3m (50.3ft)	15.2m (50ft)	12" (305mm)	50
4000DM4254-S1	4000DM4254-S2	Single	40ft	12m (39.5ft)	11.9m (39.2ft)	10" (255mm)	47
4000DM4305-S1	4000DM4305-S2	Single	40ft	12m (39.5ft)	12.1m (40ft)	12" (305mm)	40
3200DM4254-S1	3200DM4254-S2	Single	32ft	10.3m (33.7ft)	9.9m (32.5ft)	10" (255mm)	39
3200DM4305-S1	3200DM4305-S2	Single	32ft	10.3m (33.7ft)	9.8m (32ft)	12" (305mm)	32



Air Kit Optional



Due to our policy of continuing research, specifications are subject to change without prior notice.
See johnshearer.com.au/mk4 for updated details.



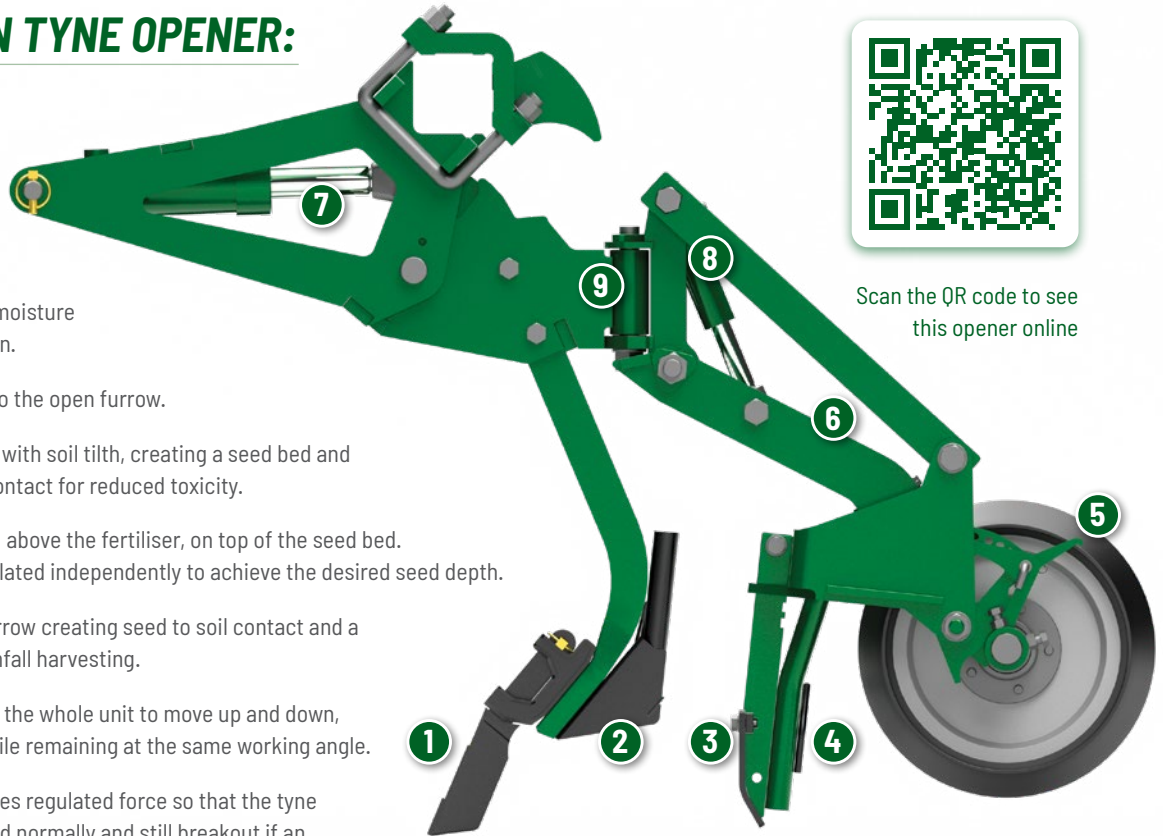


NEW PRECISION TYNE OPENER:



Scan the QR code to see this opener online

- 1 The opening tyne cultivates deeply to help roots seek out moisture and increased water infiltration.
- 2 Fertiliser is banded deeply in to the open furrow.
- 3 A closer plate covers fertiliser with soil tilth, creating a seed bed and preventing seed to fertiliser contact for reduced toxicity.
- 4 The seed tube places the seed above the fertiliser, on top of the seed bed. The seeding Tyne/tube is regulated independently to achieve the desired seed depth.
- 5 The press wheel closes the furrow creating seed to soil contact and a small trench to encourage rainfall harvesting.
- 6 A parallelogram linkage allows the whole unit to move up and down, following ground contours, while remaining at the same working angle.
- 7 The main hydraulic ram provides regulated force so that the tyne opener can bite into the ground normally and still breakout if an obstacle is encountered.
- 8 The press wheel hydraulic ram provides independent pressure from the main ram in order to apply the correct breakout and packing pressure for the conditions.
- 9 Seeding shank and press wheel swivel up to 30 degrees either side.



OPENER SPECIFICATIONS:

- Front Tyne Breakout 590kg (1300lb)
- Adjustable to multiple seeding depths
- Valves to control tyne re-coil speed.
- Press Wheel Active-Pack control automatically maintains opener packing pressure (Spec 1).
- Double acting cylinders control breakout when working and also raise the opener for increased transport clearance.
- Liquid tubes for fertiliser, soil wetters, inoculants, etc.

THE IMPORTANCE OF PACKING PRESSURE:

Packing pressure, applied by the press wheel is your main control of soil density around freshly sown seeds. A correctly packed and closed furrow reduces the risk of erosion and moisture evaporation, as well as establishing capillary action to draw ground moisture up to the seed bed.

Excessive packing pressure in dry sands or wet clays can result in surface sealing and incorrect seed depth.

Inadequate packing pressure in dry clays or loams will not press out the clods sufficiently to close the furrow, exposing available soil moisture to evaporation. Not pressing out the clods also reduces soil-seed contact and reduces capillary action.

THIS IS WHERE ACTIVE-PACK EXCELS:

In conjunction with the advanced hydraulic control system on the Mk4 Seeder Bar, Active-Pack allows the operator to set the required packing pressure on the press wheel. Active-Pack will then maintain the desired pressure constantly by varying the hydraulic pressure on the press wheel ram as conditions change across the paddock.



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