



# JOHN SHEARER PRECISION TYNE OPENER



## PERFECT YOUR SEED PLACEMENT AND SOIL PACKING WITH OUR CUTTING EDGE TYNE OPENER

Engineered for high performance and long service life, the new John Shearer Precision Tyne Opener combines brand new technologies with advanced features inherited from proven engineering designs to suit farmers with a cutting-edge mentality.

This superior design results in the most precise depth control and ground following currently on the market. Outstanding, accurate planting performance combined with versatility in a greater range of soil conditions.

- ✓ **PRECISE SEED PLACEMENT**  
With excellent ground following ability.
- ✓ **EXCELLENT SOIL PACKING**  
Thanks to the active hydraulic press wheel.
- ✓ **QUICK, SIMPLE DEPTH ADJUSTMENT**  
Wide range of seeding depths at 6mm increments.
- ✓ **HEAVY DUTY CONSTRUCTION**  
For a long service life in harsh conditions.
- ✓ **NO GREASING**  
Chromed pins and hardened composite bushing eliminate steel-on-steel wear.

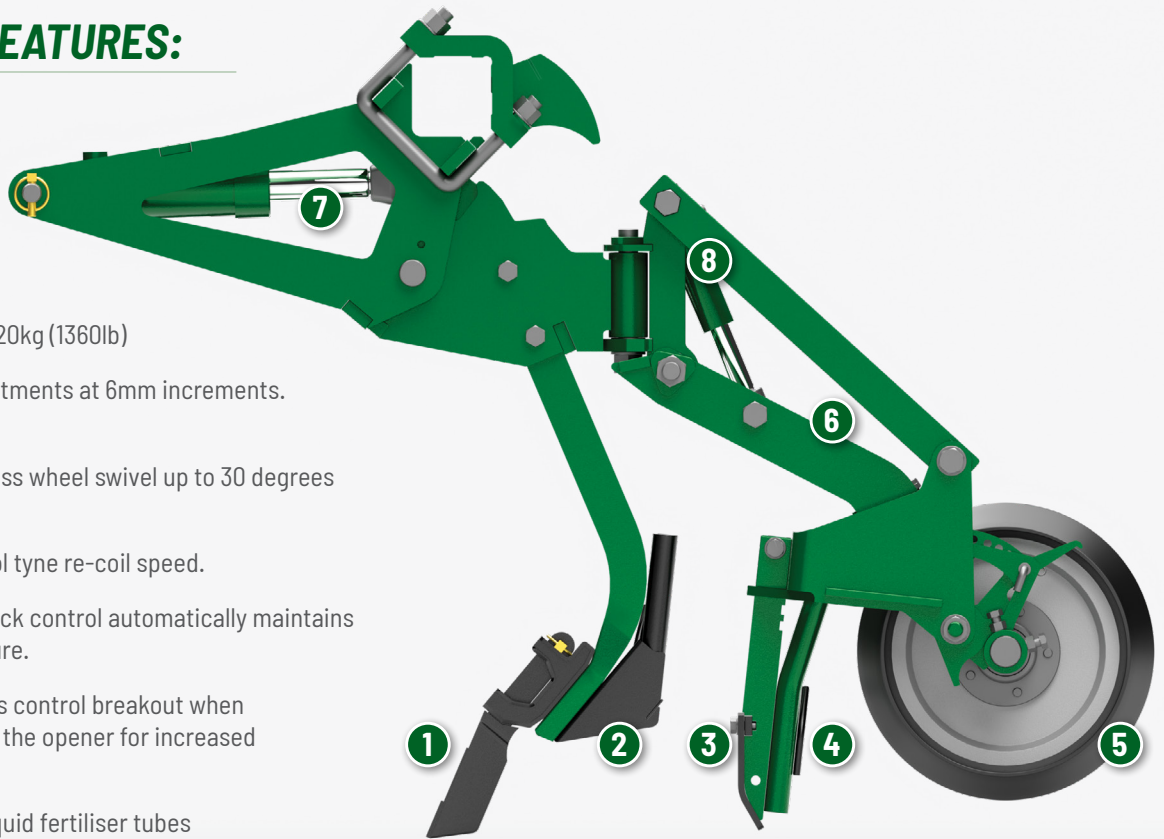


Scan the QR code to see this opener on the Shearer website.

 **AUSTRALIAN  
OWNED AND MADE**

## SPECS AND FEATURES:

- Front Tyne Breakout 620kg (1360lb)
  - 18 seeding depth adjustments at 6mm increments. (Min 6mm Max 70mm)
  - Seeding shank and press wheel swivel up to 30 degrees to either side.
  - In-line valves to control tyne re-coil speed.
  - Press Wheel Active-Pack control automatically maintains opener packing pressure.
  - Double acting cylinders control breakout when working and also raise the opener for increased transport clearance.
- + Optional starter and liquid fertiliser tubes



### THE IMPORTANCE OF PACKING PRESSURE:

Packing pressure, applied by the press wheel, is your main control of soil density around freshly sown seeds. Getting the balance right is critical for soil-seed contact and establishing capillary action to draw moisture from lower in the soil profile up to the seed bed. Different packing pressures are required for different soil conditions and seed types.

Excessive packing pressure in dry sands or wet clays can result in surface sealing and incorrect seed depth. These two factors will prevent good germination.

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 THE JOHN SHEARER VARIABLE PRESSURE PACKING SYSTEM 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.

As a result, correctly packed and closed furrows reduce the risk of erosion and moisture evaporation, creating the ideal seed environment for the best possible germination.

### HOW THE SHEARER PRECISION TYNE OPENER WORKS:

- 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 rainfall-harvesting trench.
- 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 supply constant pressure and to be able to change packing pressure on the go.

*Due to our policy of continuing research, specifications are subject to change without prior notice.*

**Shearer**

PHONE: 08 8468 4190  
EMAIL: sales@johnshearer.com.au  
WEB: johnshearer.com.au

John Shearer Pty. Ltd.  
PO Box 2466 Regency Park, SA 5942  
HQ: 34 Burleigh Avenue, Woodville North, SA 5012