
Tyre Handling Equipment

FOR SURFACE AND UNDERGROUND
MINING MACHINERY



- Innovative designs
- Safe solutions
- Comprehensive range
- Reliable operation



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Tyre Handling Equipment

AUSTIN ENGINEERING HAS ESTABLISHED AN UNSURPASSED REPUTATION FOR INNOVATION, RELIABILITY, SAFETY AND VALUE IN TYRE HANDLING EQUIPMENT.

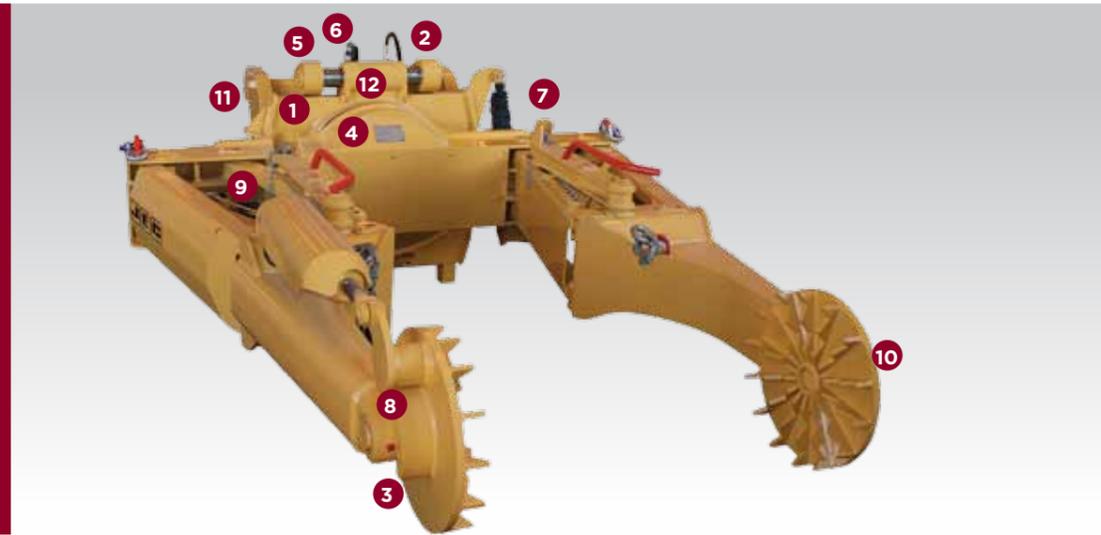


As industry leaders in the design of tyre manipulating technology, Austin Engineering significantly contributed to the development and evolution of the current standard from its beginnings in the early 1990s.

We design and manufacture a comprehensive range of dual-arm and unique three-arm tyre handlers, from 1,800kg to 15,000kg capacity.

Our tyre handler range is suitable for use on LHD, front end and wheel loaders, underground and articulated mine trucks. It is also suitable for use on quarry or mine class haul trucks, from small trucks through to ultra-class mine haul trucks.

All our units are backed by an extensive parts and service programme which ensures many years of safe and reliable operation.



JEC Dual-Arm Tyre Handlers

The JEC Dual-Arm Tyre Handler range has been engineered to provide cost effective tyre handling solutions across the entire tyre and rim spectrum, and has capability with the smallest vehicle possible.

Our Dual-Arm Tyre Handlers provide a safer, more efficient way to perform tyre maintenance on earthmoving equipment on location, and are fully adaptable to loaders, telehandlers and tool carriers.

They incorporate standard features such as body and pad rotation, combined with the availability of side shift and a quick hitch for convenience. They also have the ability to add on accessories such as crane jibs and fork frames.

JEC TYRE HANDLER RANGE - DIMENSIONS & CAPACITY

	Th-1000	Th-2500	Th-4500	Th-6000	Th-8500	Th-10000	Th-15000
Capacity**	1000Kg	2500Kg	4500Kg	6000Kg	8500Kg	10000Kg	15000Kg
Max. pad open (nominal)	2010mm	3000mm	3610mm	4500mm	4500mm	4500mm	4500mm
Min. pad closed (nominal)	910mm	1380mm	1310mm	650mm	650mm	670mm	670mm
Clamp style*	Telescopic	Telescopic	Telescopic	Parallelogram	Parallelogram	Parallelogram	Parallelogram
Weight of unit (approx.)	1200Kg	2000Kg	2850Kg	5800Kg	5800Kg	7800Kg	8200Kg
Unit length - dim. A (approx.)	1690mm	2650mm	3260mm	3890mm	3890mm	4050mm	4050mm
Unit width - dim. B (approx.)	1860mm	2150mm	3210mm	2900mm	2900mm	2900mm	2900mm
Unit height - dim. C (approx.)	1110mm	1250mm	1250mm	1520mm	1520mm	1620mm	1620mm
Standard connection	Quick coupler						
Features							
Body rotation 30 degrees	Standard						
Pad rotation 120 degrees	Optional	Standard	Standard	Standard	Standard	Standard	Standard
Sideshift 200mm	N/A	Standard	Standard	Standard	Standard	Standard	Standard

JEC Dual-Arm Tyre Handlers

- 1 Adaptable to custom designed JEC and OEM quick couplers, direct mount or fork mast
- 2 30 degree main body rotation (hydraulic cylinder)
- 3 120 degree pad rotation
- 4 Heavy duty slew ring for body rotation
- 5 4 function control box for operation of JEC tyre handler and quick coupler
- 6 Supply of hydraulic kit which includes flow and pressure control module or equivalent
- 7 Safety fall back arrestors incorporate angle adjustable support arms, attached inside of tyre handler grab arms, to

- 8 Stop blocks on pad and body rotation act as a fail-safe in the event of a failure in the hydraulic actuating cylinders
- 9 An optional overpressure alarm system can be installed with a cabin console and audible alarm. The system is triggered by pressure switches or strain gauges mounted to the clamping cylinders which detect potentially unsafe clamping practices

- 10 Innovative clamp pads give greater grabbing force for wet and slippery tyres
- 11 Tyre and rim able to rotate from horizontal to vertical via the clamp pad rotation function
- 12 Side shift function to allow side ways movement in clamp mode - 200mm range



JEC T3 Tyre Handlers



Austin Engineering has developed the innovative range of JEC T3 three-arm tyre handlers.

The JEC T3 Tyre Handler design no longer requires conventional pad rotation which substantially reduces the extended centre of gravity in tyre handling operations. It therefore allows smaller and more compact machine compatibility ideal for, but not restricted to, underground

tyre maintenance operations. Machine stability is also greatly improved.

Clamp cylinders are fully hidden to maximise visibility and accessibility around the tyre handler during tyre manipulation. If left in the clamp position when performing tyre/rim disassembly or servicing the unit will provide added protection and containment from flying debris in the case of a tyre explosion.

JEC T3 TYRE HANDLER RANGE - DIMENSIONS & CAPACITY

	JEC T3-S	JEC T3-M	JEC T3-L
Capacity**	2,500kg	6,000kg	10,000kg
Max. pad open (nominal)	2172mm	3000mm	4270mm
Min. pad closed (nominal)	1255mm	2000mm	2800mm
Clamp style	Telescopic	Telescopic	Telescopic
Weight of unit	1308kg	3500kg	5350kg
Length	1750mm	3750mm	3900mm
Width	1400mm	2100mm	2800mm
Height	1250mm	2500mm	3000mm

JEC T3 Tyre Handlers

- 1 Ability to slew 30 degrees for correct alignment of rim stud holes and valve stems
- 2 Fully adjustable clamp arms cater for a range of tyre and rim combinations
- 3 30 degree main body rotation (hydraulic cylinder)
- 4 Safety lock valves fitted to all cylinders
- 5 Heavy duty slew ring for body rotation
- 6 Low profile clamp pads allow easy access to confined clearances common around underground mine trucks and LHD's (fuel tanks, mudguards etc.)
- 7 Optional high power LED work lights strategically incorporated for additional visibility underground or for working at night
- 8 Optional camera with cab mounted monitor
- 9 Arms positively clamp in three directions simultaneously to supply superior clamping force over conventional designs
- 10 Risk of tyre escape is virtually eliminated even in the unlikely event of system failure
- 11 The design also has the ability to compress tyre side walls to allow for safe removal of the bead seat band, locking ring and o-ring in a safe and contained manner without and tyre side wall damage (requires optional quick attachment tooling)
- 12 Attachment lugs are configured to allow forward rotation sufficient to clamp the tyre situated on the ground in a horizontal position
- 13 Crowd back vertically to the required tyre mounting position and into a functional and safety carry/transit position. This eliminates the possibility tyre escape in transit.

* Alternative connections are available upon request, such as direct couple to a loader, or direct couple to a fork lift mast.

** It should be noted that the mass of rims can vary immensely and care should be taken to determine the actual weight of the tyre/rim combination if a rim is fitted to the tyre.



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