WITTENBAKER ENGINEERING SERVICES PTY

P: +61 08 94376530 **E:** sales@weservices.com.au

"WES will machine anything, anywhere, anytime with high accuracy and rapid response."

In-Situ Machining & On Site Fitting Services

www.weservices.com.au

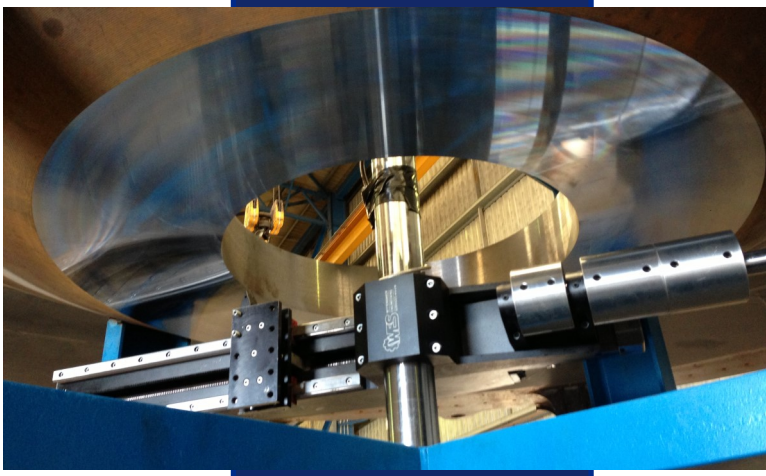
WES In-Situ Services was founded with the Family Business establishment in 2011. Passion, commitment and integrity have driven us ever since, to provide outstanding technical service in all areas. All high performing mobile equipment has been carefully designed and manufactured in house to suit the harsh environment on site, whilst maintaining its necessary precision and reliabilty. The success of our clients is our motiviation, and our On-Site-Team is prepared to do whatever it takes to get your machinery, industrial plant or even a ship back in service. When our inhouse CNC machines reach their dimensional limitations, we take metal machining above and beyond to a completely new machining level.

In-Situ Machining Capability:

- Radial Milling – 1500 to 15000mm
- Expandable X-Y Milling Machine up to 3600 x 3600mm
- CNC X-Y Milling 2000 x 1200mm
- Flange Facing – 60 to 1500mm
- Line Boring – 40 to 1000mm
- On-Site Bore welding, pad welding and od welding

On-Site Fitting Services:

- Commissioning of new installations
- Fault assessments & design improvements
- Rebuilds & spare part management
- Periodic maintenance & inspection services
- Flange management
- Laser alignment
- Laser high precision (0.0010mm/m) surface flatness surveying
- Controlled hydraulic bolting – Torque and Tensioning



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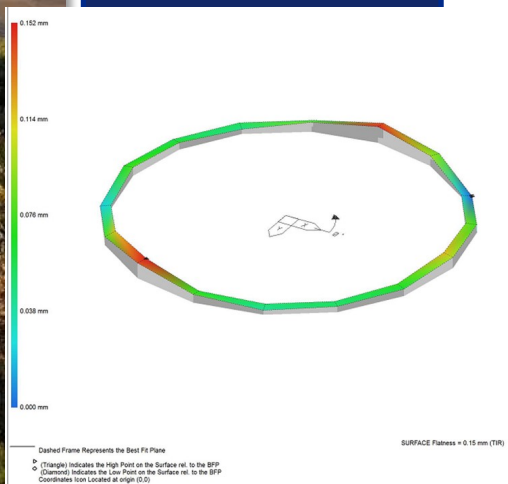
Radial Arm Milling Machines

Purpose built and designed for radial milling of slew bearing and gear drive mounting surfaces. Ideal for applications where flatness and accuracy are required for large diameters and faces.

Type	Cutting Speed	Milling Diameter	Flatness Accuracy	Surface Finish
CM-Pro 15000	15hp 6 speed milling head 0-700 rpm variable speed in all	5000 – 15000mm	<0.15mm @ Ø 15000mm	up to 0.8Ra
RAM 11000		2000 – 11000mm	<0.12mm @ Ø 11000mm	



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3-Axis Milling Machine - XY3600

A rigid portable Gantry Milling Machine that is designed for achieving flatness of Pulley Bearing Sole Plates, Pump Bases, Motor Bases or any foundation. High RPM and feed rates including rapid traverse minimize cutting time.

- Machining envelope up to 3600 x 3600mm in one setup
- Expandable machining envelope
- Hydraulic or electric spindle drive – 3300 max RPM
- BT50 Taper
- Variable speeds and feeds from inbuilt VFD's
- Achievable flatness accuracy <0.03 mm/meter

3-Axis CNC Milling Machine - Gargamill

Gargamill is a high feed portable CNC Milling Machine that is capable of machining any profile in-situ where extreme accuracy is required. It is fully programable with a CNC unit and plug-in CADCAM software. One of its kind in Australia to this capacity.

- Machining envelope up to 2000 x 1200mm in one setup
- Hydraulic or electric spindle drive – 3300 max RPM
- BT40 Taper
- Variable speeds and feeds from inbuilt VSD's & controller
- Rapid traverse
- Achievable flatness accuracy <0.03 mm/meter
- CNC operated

Large Capacity Line Boring Machine

Heavy duty line boring machine purpose built for in-situ machining of diameters up to 1000mm. Both internal and external diameter machining.

- 80mm bar diameter
- Machining diameter 100 to 1500mm
- 10hp variable electric drive
- Facing attachments for diameters 150 to 1500mm with variable feed control and together coupled with variable RPM allows constant cutting speed and surface finish control less than 1.6Ra if required.
- Achievable bore tolerance of 0.03mm @1000mm diameter and 0.015mm ovality

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Line Boring Machines TD60

Purpose built rigid line boring machines designed for optimizing cutting conditions with variable speed and feed control where quality, accuracy and alignment is paramount. Bore welding is also included in these machines' capabilities; Both internal and external diameter machining.

- 40mm and 60mm bar diameters, various lengths up to 4 meters
- Machining diameter 50 to 800mm
- Easily setup to align with bores up to 20m away using laser
- Hydraulic or electric spindle drive motors fitted with variable speed control
- Interchangeable reduction box to maximise torque for any diameter and minimise stock removal times through swarf control
- Electric power feed units fitted with variable and adjustable feed control and also mechanical feed units also with variable control
- Achievable bore tolerances of <0.02mm @500mm diameter with <0.01mm ovality and taper
- Facing attachments for diameters from 60 to 1000mm with variable feed control and together coupled with variable RPM allows constant cutting speed and surface finish control better than 0.8Ra.

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Turbine and compressor vane Grinding Machines

Various Turbine Rotor Blade and CVC grinding machines designed specifically for the Power Generation Industry where accuracy and time are critical. All machines are customised to suit your Turbine to maximise efficiency.

- Hands free operation strategically eliminates multiple safety hazards
- In-situ Turbine Rotor Blade Grinding Machine with adjustment for quickly alternating between clearance diameter and also lead angle
- Internal Compressor Vane Carrier Grinding Machine
- Half Joint Vane Body Grinding Machine
- Mechanical Friction Drive Unit with Nylon Roller specifically suited for controlled Turbine Rotor start up and rapid stopping.

Multi-Purpose Heavy Duty Portable Drill

Specifically designed for heavy, accurate and rigid onsite in-situ in-hole machining. Large diameter drilling, boring, reaming, tapping and groove machining. Ideal for damaged or seized stud removal, heavy large deep hole drilling or boring PCD's with accuracy.

- Fully fine adjustable X/Y positioning and also levelling
- Hydraulic or electric spindle motor with interchangeable reduction box for maximum torque to suit cutting conditions.
- Variable spindle RPM and feed to optimise and control cutting speeds and feeds
- BT40 and BT50 machines
- Limitless potential and extremely versatile