

# TEFCO ENGINEERING PTY LIMITED

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## LETTER OF INTRODUCTION

Tefco Engineering has been manufacturing since 1991, originally established for the design and manufacture of Bearing Housings, machining of castings and other general engineering activities.

In more recent times we have utilised the 35 years of conveyor component design and construction experience of our senior management and forged a very successful design and manufacturing business for Conveyor Pulleys, Bogies & Wheel sets, Wire Rope Sheaves and Winches.

Over these last few years we have also invested many millions of dollars in state of the art CNC machining capacity in a 1,800M<sup>2</sup> machine shop at West Gosford supported by six overhead cranes and in-house stress relieving, shot-blasting and painting facilities which has broadened our capabilities to offer larger contract CNC machining capacity to complement our traditional business.

The extensive re-equipment program has established one of the most modern machining facilities in the world.

This will be enhanced further when we complete our new 1780M<sup>2</sup> factory down our road at 11 Gibbens during the coming year. This new facility will house our General Fabrication, Shotblasting, Painting and Assembly functions.

You will see below we have the knowledge and equipment to do a large variety of complex CNC machining work & our close relationships with various foundries & forges ensure suitable materials are available in a timely manner. Our pricing is very competitive, and we offer a personalised prompt estimating service.

### COMPANY PROFILE

We are a wholly Australian owned Company, managed by the owner and a group of dedicated professional staff.

We employ 62 people with 32 tradesmen, 19 process workers and 11 Engineering, Management & support staff.

The Tefco Group turnover in 2008-09 was over \$23 million & our 2009-10 Group turnover will exceed that.

Our rapid growth is largely a result of repeat orders from customers who appreciate our engineering excellence and customer focus.

### MAIN PRODUCTS

**CONVEYOR PULLEYS**

**WIRE ROPE SHEEVES, FRAMES & WINCHES**

**SPECIAL BEARING HOUSINGS**

**BOGIES & WHEEL SETS for STACKERS, RECLAIMERS, SHIPLOADERS, TRIPPERS & SHUTTLES**

**RIGID COUPLINGS**

**CONTRACT MACHINING**



**Conveyor Pulley**



**Wire Rope Sheaves**



**Bearing Housings**



**Bogie Wheel Sets**

### EXPERIENCE

In the last 12 months Tefco have been awarded orders for more than 1000 pulleys, over 150 sheaves, dozens of wheel and bogie sets and many winches from clients such as BHP Billiton Iron Ore, Xstrata, Argyle (Rio Tinto), NCIG, Newcrest, Dalrymple Bay Coal Terminal, GEMCO, Abbot Point Coal Terminal, CQPA Gladstone Coal Terminal, Geraldton Port Authority, Krupp, Sandvik, Port Waratah Coal Services, TRUenergy, Loy Yang Power, Sedgman, Tenova plus numerous export projects to Chile, China, Russia, Indonesia & Philippines.

We are also very active providing contract machining & manufacturing services for a number of industries for such companies as Voith, FALK, Onga, FAG, SKF and many others.

We manufacture specialised bearing housings with casting masses anywhere between 1Kg to 8Tonne mill housings.

### ENGINEERING CAPABILITY

Tefco employs two Mechanical Engineers with solid modelling, CAD and Finite Element Analysis capability to assist with component design plus jig and fixture design for machining your engineered components.

*Manufacturers of quality engineered components for Industry using the latest CNC machining technology*

**QUALITY ASSURANCE & MANUFACTURING CONTROLS**

Manufacture is done under our Quality Assurance system that conforms to the requirements of ISO9001. Our normal protocol is to provide Inspection and Test Plans (ITP's) for all machined components. Because we recognise the fact that the job is not finished until the paperwork is complete we have commissioned a very impressive material traceability, manufacturing dimension data capture and document control software package that enables us to produce digital MDR's at the date of despatch. All despatch dates are controlled by our manufacturing factory plan software that shows programmed timing of every function of every part in real time so we can micro manage your project deliveries and offer prompt on-time delivery.

**EQUIPMENT**

The major re-equipment program we have undertaken in recent years has broadened our capabilities to offer CNC machining capacity for large and also high volume components to complement our traditional business. Our West Gosford and Ringwood Factory Machining Capacities include:



2 Eumach CNC Bed Mills – both with fully programmable heads for genuine five sided machining. The FBE4000 has 4000 long travel x 1000 cross travel & 1500 vertical travel and the FBE3000 is identical but with 3000 long travel. Both have a 500 diameter rotary table.



4 CNC Machining Centres with a Litz CNC Horizontal twin pallet (630x630) 4 axis machining centre shown on the left installed in 2009 and a Mitsubishi CNC Vertical Machining Centre shown on the right above with 1200 long x 800 vertical x 700 cross travels with a 500 diameter 4<sup>th</sup> axis, 26Kw 6000RPM spindle and a 24-pot tool changer. 2 x Quantum CNC Vertical Machining Centres located at Ringwood with up to 1500 long x 900 vertical x 700 cross travels . All machines are fitted with a 4<sup>th</sup> (rotary) axis for 4 side machining and are fitted with auto tool changers.



The L&L CNC shaft lathe with 900mm swing x 5200 between centres and a hydraulic steady is shown above left. The picture above right shows our Extreme swing Kinwa CNC lathe with 2500 swing x 4000mm between centres with 370dia hollow spindle, rear chucking and a 20kw milling head attachment.





Our other large CNC shaft lathes are shown above with the picture on left showing our Extreme Duty Kinwa CNC lathe with 1200 swing x 6000mm between centres and suitable for shafts with a mass of up to 17 Tonnes. This machine can also use the Kinwa 20kw milling attachment.

Above right shows our Ajax large swing CNC lathe with 1600 swing x 2500 between centres and live tools plus 355mm hollow spindle and also has rear chucking.



CNC Vertical Turret Lathe with 1250mm swing and live tooling for drilling & tapping.



Three CNC chucking lathes including a Doosan twin spindle, twin turret with Y axis 600 swing x 800 between centres for true one set up machining.

Daewoo CNC lathe with 770mm swing x 1000 between centres, fitted with full C axis control & 7.5Kw live tools.

A Mori Seiki CNC lathe with 450mm swing and full C axis and 5.5Kw live tooling & a Bar feeder suit 75mm diam bar.

We have a further 3 CNC lathes including 2 Daewoo's as above and an Acra in our Ringwood facility.



Union CNC 6 axis horizontal borer with 2,700 cross x 2,500 vertical x 2,300 long travels, full contouring B axis 2000 x 1800 table size & 8,000Kg table capacity. Includes a programmable facing head suitable for boring to 1400mm diam. Another similar CNC horizontal boring machine is also installed at our Ringwood factory.



Auto feed bandsaw suitable for cutting up to 360mm diameter bar.



A part view of our West Gosford workshop which has a number of overhead cranes with up to 20 Tonne lift capacity.

#### OTHER EQUIPMENT

- A big swing Ryazan lathe with 1370 swing x 4800 between centres.
- Various other manual lathes, mills, drills and horizontal borers, all fitted with digital measurement.
- We have welding and fabrication capacity and specialise in Submerged Arc, MIG & TIG welding of steel and stainless steel components to support our machining capabilities.  
We have large vertical and horizontal welding rotators allowing us to weld very efficiently.
- We have installed a computer controlled gas fired stress relieving oven 4200 long x 2600 high x 2600 wide
- A large shotblasting facility is installed with dust collection, shot reclamation and large doors to prep for painting.
- A large climate controlled spray painting booth is installed and we can apply any paint system desired.
- A new set of MG345G plate rolls with 4 rolls and constant pinch for widths to 3100mm and up to 70mm thick plate will be installed in August 2010.



All our machinery and equipment is as new or in first class condition.

We hope the above is acceptable and look forward to an opportunity to become an approved supplier of your machined components. For quotations or further information please contact the undersigned for prompt attention.

Yours truly,

Peter Baird  
Managing Director.