

IPS Australia after the newly formed MAN Diesel & Turbo SE worldwide

As a result of the worldwide merger of MAN Diesel SE and MAN Turbo AG the newly formed MAN Diesel & Turbo SE has decided to take direct responsibility worldwide for providing aftermarket support including the sale of spare parts.

That means for Australia, New Zealand and the Pacific Islands spare part procurement for MAN Turbo machinery has moved to MAN Diesel & Turbo Australia; however the workshop service and field service for MAN Turbo will remain the responsibility of IPS Australia, based on the continuation of IPS's Authorisation Agreement with MAN Diesel & Turbo PrimeServ for at least the next five years.

IPS will ensure that our customers continue to receive the professional service provided by our experienced workshops and field service team.

Expanding our capabilities for the benefit of our clients

For over 25 years, IPS Australia has been called on to service, maintain, overhaul, refurbish and commission many different types of rotating equipment, many beyond the machines it traditionally serviced. In the following we introduce some successfully completed projects, illustrating our growing expertise and focus on solving customers' issues.

Power generation - overhaul of boiler feed pumps

Process critical boiler feed pumps in use in steel plants, power stations and paper mills need expert care. Our experienced staff in both our Sydney and Perth workshops provide this expert care during disassembly, blast cleaning, inspection, surveying, repairing and/or replacing components, dynamic balancing and recommissioning of various pump makes and designs. Our presence on both the East and West coasts minimises our clients' cost, turn-around-time and more importantly risk when considering where to overhaul their rotating equipment such as these boiler feed pumps.



Boiler feed pump ready for dispatch in Sydney

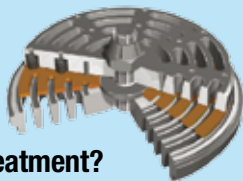


Boiler feed pump rotor dynamic balancing in Perth

RECIPROCATING COMPRESSORS VALVE OVERHAUL



IPS now offer complete valve overhaul.
All valves leaks tested and packed
for long term storage.



Why not give your valves the IPS treatment?

For further information please contact Ivan D'Cruz

Email: idcruz@ipsaus.com.au

Mining - overhaul of blower

Whilst we are used to working in both our Sydney and Perth workshops, we are also very experienced at working on site. Once inducted on site, IPS Australia's field service engineers, supervisors, riggers, fitters, welders and trade assistants carry out a multitude of tasks. For example, we overhauled the IGV and impeller shown below on site in WA. This work included disassembly, measuring clearances and inspection of key components, conducting NDT, replacing several worn and "out of tolerance" components, refurbishing other parts, balancing the rotor (in our workshop), realigning the unit using our laser alignment equipment and finally providing instructions for re-commissioning.



Blower condition - after opening on site



Impeller condition - after cleaning

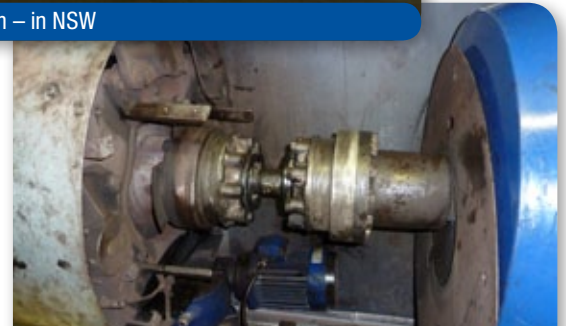
Renewable energy - service of wind turbines

In the previous issue of Turbonews, we mentioned the fact that IPS Australia was awarded a two year contract to service and maintain gearboxes from 23 wind turbines at our workshop in Sydney. We have subsequently secured a further two year contract to provide routine and unscheduled maintenance of the wind turbines themselves, at two wind farms in rural New South Wales. The delivery of these services has started, and we have completed the first year's major and minor scheduled maintenance services for both wind farms. Activities include inspection of components such as the planetary gear teeth, assessment of yaw and pitch systems, checks of the hydraulic system, and an oil change for the speed increasing gearbox; all

these are carried out in a "working at height" environment. The photographs below show one of the serviced wind farms and the coupling between the gearbox and the generator.



Wind farm - in NSW



Gearbox and generator - with coupling exposed

Power generation - gas turbine generator unit installed and commissioned

In August 2010, IPS Australia was awarded a contract to carry out the complete installation and commissioning of a used open cycle gas-turbine generating unit in SA. The unit (a GE Frame 5, model 5001 gas turbine coupled to a GEC Alstom T190-240 generator) develops 27MW from a natural gas fuel source.

A dedicated IPS Australia team of up to 12 mechanical and electrical technicians and gas turbine commissioning specialists was mobilised in order to achieve the ambitious delivery period of 6 months. Working in often difficult weather conditions and dependent on equipment and fabricated structures arriving from both Germany and the Middle East, and interfacing with numerous other subcontractors employed by our client, the IPS Australia team demobilised with the job successfully complete at the end of January 2011.



Gas turbine generator unit - during installation in SA

Power generation – overhaul of compressor

IPS Australia was asked to perform an overhaul on a Hamworthy reciprocating compressor used in a hydro power plant. Prior to the overhaul, a full condition and dimensional assessment of the compressor was conducted in our Sydney workshop. Based on our reported recommendations the necessary tasks for the overhaul were ordered by our client.

The valves were contaminated and a dynamic test revealed they were outside their design leakage rate. The decision was made to replace them with new ones. Light honing of the cylinders and piston ring replacement was also performed. Both big end bearings had hard particles embedded in their bearing surfaces resulting in light scoring to the journals. These journals were dressed before the compressor was rebuilt with all main bearings replaced. Where possible existing parts were cleaned and reused. After the reassembly, a hydrostatic pressure test was successfully performed and the unit returned to the client.



Compressor – as received



Compressor after overhaul

Power generation – control system upgrade

After the successful commissioning of an upgraded control system for two fuel gas compressors which supply fuel to a number of large gas turbine generators, the operators and maintainers of a New Zealand power station can now better control and monitor these critical units. This work included upgrading a Turbolog system operating in a DOS based environment to a dual redundant digital GA Blue Line unit and re-wiring two existing control panels. After pre-commissioning checks of all instrument loops and testing their functionality and following the client's existing procedures, fuel gas compressor No 1 was handed over in May.

In addition to our mechanical services for reciprocating and

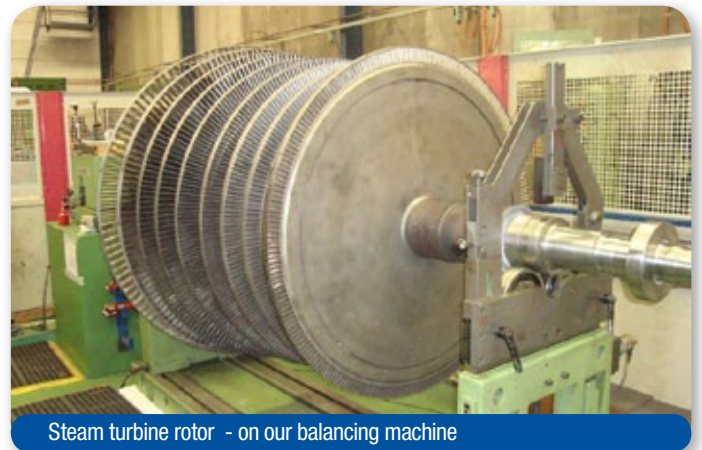
rotating machinery, we also offer a number of professional services including:

- Commissioning new and old machinery and control systems
- Control system upgrades
- Performance testing
- Condition monitoring/predictive maintenance
- Surge trials
- Over-speed testing
- Vibration monitoring and analysing



Refinery – inspection and repair of steam turbine rotor

IPS Australia was requested to perform an inspection and repair of a Brown Boveri steam turbine rotor for an aluminium refinery in the Northern Territory. It included NDT, repair of both bearing journals, replacement of the undersize LP labyrinth seals and the dressing of the final LP stage. Upon completion of repair work, the rotor was subjected to a dynamic balance which detected an unbalance at both ends of the rotor. After correcting the rotor balance, the rotor was preserved, wrapped in plastic and placed onto its transport stand ready for pick-up.



Steam turbine rotor - on our balancing machine



PROGNOST

Intelligence on Duty

Since January 2010, PROGNOST Systems GmbH has appointed IPS Australia as their representative for Australia, New Zealand and the Pacific Islands.

PROGNOST NT:

- Unique Online Monitoring of Reciprocating Compressors in Critical Applications
- Wear Monitoring and Early Failure Detection
- Safety Protection with SIL2 Certified Hardware

PROGNOST Systems has:

- 540 reference sites worldwide including 200 machines under service contracts
- Over 100 companies in the refining, petrochemical and natural gas transportation and storage industries benefiting from PROGNOST Systems
- 15 years experience in monitoring of reciprocating compressors

For further information, please contact Ivan D'Cruz

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Burckhardt Compression



Compressor - after strip down



Compressor – connecting rod removal

Since 2008, IPS Australia, as the representative for Burckhardt Compression AG for Australia, New Zealand and the Pacific Islands, has offered our clients field service and workshop support including valve service. In this time, we have completed over 90 workshop and valve shop jobs, servicing over 1200 Burckhardt and other makes of reciprocating compressor plate valves.

On the left is an example of IPS Australia undertaking a complete overhaul of a Burckhardt compressor at our Sydney workshop. The job consisted of stripping down the compressor, producing an “as-found” inspection report, supplying and fitting OEM parts and reassembly before our factory trained field service engineers will install and commission the unit on site.

New website design

The IPS Australia website has recently been redesigned and now offers more information in a simpler format. Visit us at <http://www.ipsaus.com.au> then tell us what you think of it at adm@ipsaus.com.au.

Our Strategic Partners for Rotating Equipment



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Authorised Service for Workshop and Field Service



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