Screens

AURY
AURY Australia Pty. Ltd.

About Aury Australia

Aury Australia is committed to providing world-class screening and vibrating equipment solutions and services. Backed by a team of industry professionals, we pride ourselves on being the leading mineral process equipment and service provider with a global footprint in Australia, Asia, North America and Africa. As an organisation, Aury prioritises advanced technology, practical output and customer satisfaction to deliver the best possible service to our clients.

Product Overview: Screens

Aury Australia's screens are not only innovative and efficient, their design is underpinned by proven and reliable engineering practices. Aury screens have been proven to operate efficiently and reliably for many years, thanks to the Finite Element Analysis undertaken by our talented team of screen designers. All screens are manufactured in a way that minimises unnecessary weight, therefore requiring lower energy and producing a higher level of screening efficiency.

Aury Screens incorporate many unique and field proven design features, which improve screening efficiency and screen service life. Almost all Aury screen component parts are manufactured in house, aligning with our unique quality requirements to ensure the highest quality finished products and on time delivery.

All Aury screens can be designed to suit our clients' differing specifications. Aury's in-house design team is able to modify our screen designs to suit new or existing plant designs and structures.

Quality

Our commitment to our customers is to offer the highest quality and most reliable process equipment worldwide. From design and manufacture, right through to assembly and testing of the final product - quality is always at the forefront of what we do. Our Group Company operates many process plants which utilise the screens we produce, so we understand the importance of getting it right the first time, every time.

Aury constantly improves designs and we have applied what we have learnt in the field to ensure our screens are able to exceed the process and reliability demands found in modern process plants, and the harsh environments in which we operate. Continuous product improvement ensures Aury maintains its reputation as a quality supplier of screening equipment to the mining industry worldwide.

Our Technology

Our team is committed to extensive and continued research and development to improve the life and usage of our screen products. For example, we have specially developed cross beams and deck rail mounting cleats which are cast steel, machined to mate to the circular cross beams, and then HUCK bolted onto the cross beam. This technology improves the service life of cross beams by eliminating induced stresses caused by the welding of deck rail support cleats, while also facilitating the easy replacement of deck rail support cleats.

Crossbeams and cleats are sprayed with two layers of high-quality Australian made polyurethane to a final thickness of 6mm, providing high abrasion and corrosion resistance for the life of the screen.

Our screen Exciter Beams have been designed with the aid of Finite Element Analysis software to reduce stresses in critical areas, ensuring a long and trouble-free service life. Aury Exciters are manufactured and quality tested exclusively in-house, utilising only the most modern manufacturing processes and CNC machining equipment.

Aury exciter components are subjected to a number of robotic and manual quality inspections before being accepted for final assembly. Completed exciters are then run for 24 hours minimum, while constantly being monitored for individual bearing and oil temperatures.
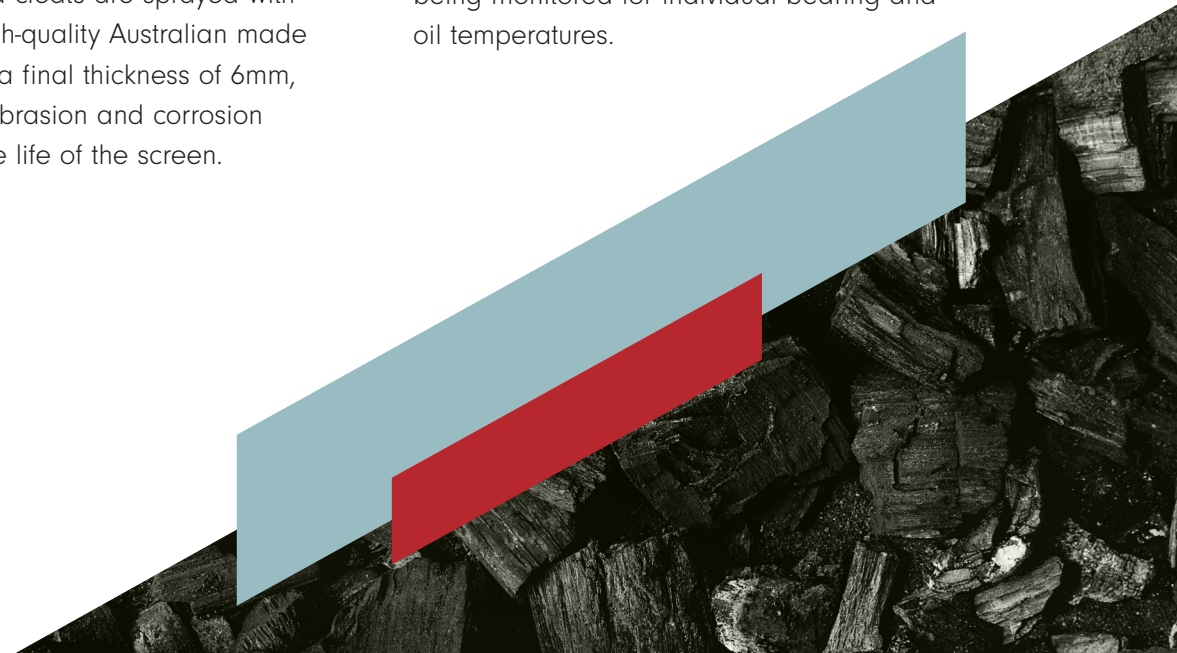
Safety and Testing

Aury Australia's management and staff is committed to safety and providing a safe working environment for all personnel. Our equipment is designed to exceed all statutory safety requirements, and our personnel are trained and developed in a culture of safe working practices and processes. We strive for constant improvement in personnel safety, and the development of safer equipment, work processes, work culture and procedures.

After assembly is complete, every Aury screen is comprehensively tested in-house on our specifically designed test stand, using sophisticated frequency measurement equipment.

Both static bump tests and dynamic frequency tests are conducted to determine natural frequencies and operational characteristics.

Screen test results are then compared against Aury standards and any necessary adjustments are performed in house prior to screen delivery. Dynamic screen tests are also performed on-site during commissioning. All screen test data is recorded and safely stored for future reference.

Screen Features

	ABS Banana Screen	AHS Horizontal Screen	AHF High Frequency Dewatering Screens
Full range of efficient reliable screens for all screening applications	✔	✔	
Full range of model sizes to suit most dewatering applications			✔
Single and double deck models available	✔	✔	
Screen mounting supports can be altered to suit most existing screen footprints	✔	✔	
Screen mounting angle can be designed to suit specific screening applications	✔	✔	
Screen deck transition angles can be engineered to suit specific applications and material characteristics	✔		

Screen Types and Features

ABS Banana Screens

The Aury Australia range of Banana Screens have been developed and designed to operate efficiently in very demanding coal and minerals processing environments and applications.

Models

The Aury ABS range of Banana Screens are available in single and double deck configurations and can be fitted with any modular deck system, including the Weide Modular Deck system exclusively sold by Aury Australia.

The screens range in size from 1.2 metres to 4.9 metres wide and 2.4 metres to 9.5 metres in length (dimensions refer to the actual usable screening deck area).

Applications

- ✔ Coal
- ✔ Iron ore
- ✔ Hard rock mining products
- ✔ Diamonds
- ✔ Quarry products
- ✔ Gold and other non-ferrous metals
- ✔ Fertiliser, etc

AHS Horizontal Screens

The Aury Australia range of Horizontal Screens have been developed and designed to operate efficiently in very demanding coal and minerals processing environments and applications.

Models

The Aury AHS Horizontal Screen models are available in single and double deck configurations and can be fitted with any of the existing modular deck systems including the Modular Deck system exclusively sold by Aury Australia.

The screens range in size from 0.6 metres to 4.9 metres wide and 2.4 metres to 9.5 metres in length of total screening deck area.

Applications include

- ✔ Coal
- ✔ Iron ore
- ✔ Hard rock mining products
- ✔ Diamonds
- ✔ Quarry products
- ✔ Gold and other non-ferrous metals
- ✔ Fertiliser, etc

AHF High Frequency Dewatering Screens

The Aury Australia range of High Frequency Dewatering Screens utilise twin vibrating motor technology to efficiently dewater a wide range of fine mineral materials and coal.

The screen sizes vary from our Model AHF-1230 (1200mm wide x 3000mm long usable deck area) right up to the Aury AHF-2448 Screen (2400mm wide x 4800mm long), which can dewater in excess of 80 tonnes per hour (fine coal). Our screens feature specially designed tubular cross beams and cleat arrangements, sprayed with two layers of polyurethane to prevent abrasion and corrosion, ensuring long screen life.

Applications

- ✔ Coal
- ✔ Iron ore
- ✔ Hard rock mining products
- ✔ Other fine granular materials

Get in Touch

Looking to get in touch? Aury Australia head office is based in Rutherford, which is part of the prosperous Hunter Region of New South Wales, Australia.

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