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solar
mining

The power industry driven by David Brown

oil & gas
rail
aftermarket
wind



The power industry driven by David Brown

As the power generation industry gears up to face ever increasing demands for energy, there's no room for compromise on performance or reliability. In an 'always-on' world, system failure is not an option. That's why the world's leading energy companies and original equipment manufacturers rely on David Brown to provide innovative, bespoke engineered solutions and high quality repair and maintenance services across the power generation process.

Working with leading energy providers including Drax and Eskom and industry-leading OEMs, David Brown goes to the very heart of the power generation industry. We provide gear systems, strategic maintenance and asset management services that help you maintain optimum plant performance and minimise the risk of unscheduled downtime.

David Brown delivers precision engineering coupled with guaranteed quality to ensure optimum output and extend the operational life of your gear systems.

Our experienced teams know gear systems and the power generation industry inside out. Not only do we speak your language, we understand what your engineering and maintenance teams need to achieve on a day to day basis. That's why we're here when you need us, on-call 24/7 to help you solve your technical and operational problems. Even the ones you might not know you have.

Worldwide, David Brown is considered a marque of quality engineering. The world's leading energy companies use our deep

sector-specific knowledge to enhance their own engineering and planned maintenance capabilities.

David Brown has commissioned over 700 mill gearboxes globally for the power generation industry, placing David Brown as one of the market leading providers of gear systems.

Whether working with power plant designers, equipment manufacturers or with energy providers, we pride ourselves on the quality of our work and the assurance that it brings.

Image courtesy of Drax Power



ENGINEERED AROUND YOU: the name David Brown has been an integral part of industry for 150 years. This is because everything that we produce is driven by client needs. We completely immerse ourselves in the demands you face, because we know that the best way to solve a problem is to look at it from every possible angle. This is engineered around you.

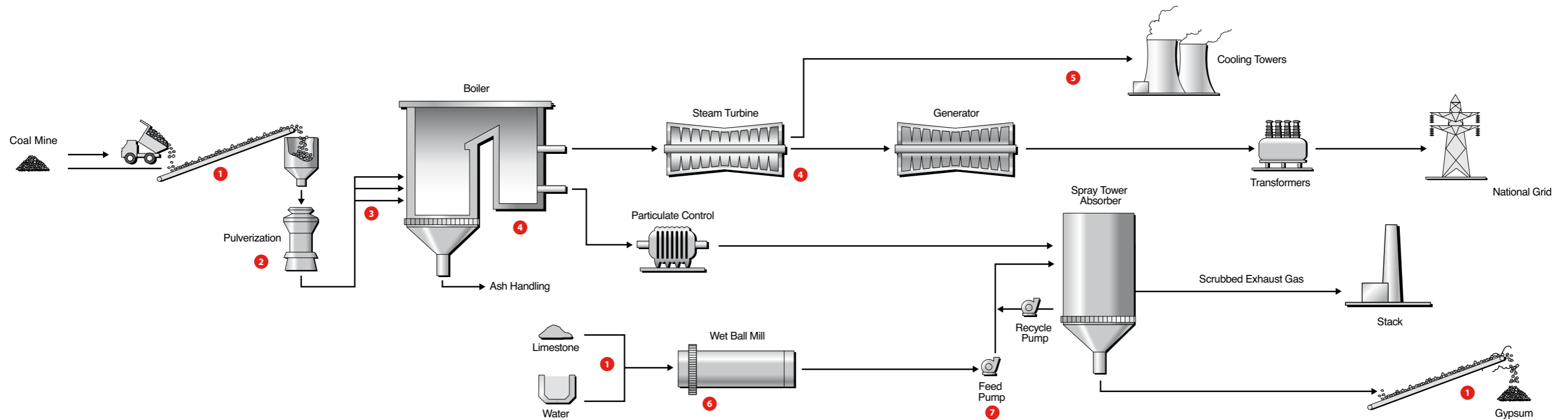
David Brown – innovation across the power generation process

No-one understands the intricacies of the power generation process better than David Brown.

David Brown can have a direct influence on the reliability of a plant and the machinery operating it. Our unparalleled experience of coal-fired power generation enables us to deliver the reliability that helps maintain optimum output at all times.



Image courtesy of Drax Power



The power generation process

- 1 Series L conveyor drives and stacker reclaimer drives
- 2 Vertical planetary, triple reduction bevel type and tube mill drives
- 3 Air pre-heater drives
- 4 High speed drives for boiler feed pumps and main steam turbines
- 5 Condenser fan and cooling tower fan drives
- 6 Girth gear and primary reduction for ball mills
- 7 Single stage slurry pump drives



Vertical mill drive (VMD)

David Brown's vertical mill drive is the ultimate combination of strength, integrity and precision. Ideal for demanding vertical mill crushing applications, our power-generation experience enables us to design solutions that will perform to the highest standards in the most demanding conditions.

Key features

- Single piece, SG iron cast planet carrier for high strength and integrity
- Planet gears case hardened, profile ground and supported in self-aligning roller bearings
- Labyrinth seals on input shaft and output coupling
- Input shaft supported with heavy duty roller bearings
- Thrust pad bearings include temperature sensors to continuously monitor for dangerous overload conditions
- Through hardened high-alloy steel annulus enclosed within the case for additional strength
- SG iron, heavy-duty output coupling, has hydraulic release for simple decoupling
- Case hardened and profile ground bevel gears
- Removable inspection covers allows easy inspection



Conveyor drives

Our extensive experience of bulk handling systems across the globe enables us to offer a full asset management program where we inspect, maintain, repair, overhaul, upgrade and replace whole conveyor drive systems.

Key features

- Complete drive system design including brakes, holdbacks and couplings, with Finite Element Analysis (FEA) also available
- Custom engineered conveyor drive solutions from 300Kw to 3Mw
- Advanced engineering capabilities – supplying solutions to fit into existing foundations for maximum interchangeability
- Solutions for specific customer specifications, such as high temperatures and noise restrictions
- Full load testing before installation
- Thermally efficient design – the majority of our drives are able to operate without auxiliary cooling systems
- Custom bespoke applications from complete drive packages (30 or 40 drives) to individual 1 off drives
- Industrial reducer range incorporates a taconite duty, triple-sealing system to prevent dust ingress and oil leakage, minimising maintenance needs and lowering operating costs. The split case design allows for on-site inspection and maintenance, further reducing downtime and minimising cost.



High speed gearboxes

David Brown has the power generation experience and knowledge needed to design, build and maintain high speed gearboxes for turbine generators, pumps and compressors that deliver the enhanced performance demanded by the energy industry.

Key features

- Gear and lubrication systems to the highest specifications, including API, AGMA & ISO
- Lubrication systems to supply the gearbox plus the driving and driven machines
- Lubrication systems designed as an integral part of the gearbox casing
- Parallel shaft or planetary designs
- Single/double helical, to your preference
- Full instrumentation packages (RTDs, vibration probes etc.)
- Barring drives designed to match the machine's inertia

David Brown added value

- Agile and flexible design
- Low operating costs and maintenance
- High system availability and reliability
- Significant increases in productivity
- Outstanding operational performance

Supporting the energy industry

David Brown has a proven track record of meeting the demands of the power generation industry. We understand the challenges your engineering and maintenance teams face – and we're there to offer you rapid, customer-focused support 24/7.

We provide the gear systems, strategic maintenance and asset management services that leading energy companies need, to improve plant performance and minimise downtime. We also work closely with OEMs to help them develop more robust and reliable precision-engineered gear systems that have a longer operational life.



Our knowledge is power

No one knows gearboxes or the power industry better than David Brown. Our experience of commissioning over 700 gearboxes in the power generation market is a testament to this.

Our experienced teams have rich, in-depth knowledge, not just of David Brown's gearboxes, but those produced by every other manufacturer. That means we're better placed to help you solve your technical and operational problems, or to reinforce your engineering and maintenance offering.

We also understand how each gearbox fits into and affects the whole power generation process. It's all about looking at the wider picture, so we can consistently deliver the whole-system solutions you require to enhance the efficiency of your plant.



Additional services

- On-site services
- Repairs, overhauls & upgrades
- Retrofit replacement gearboxes
- Asset management
- Condition monitoring
- Consulting, failure analysis and strain gaging

Full asset management

David Brown's experience in asset management will allow you to concentrate on running your business by allowing us to improve process performance and reduce long term costs with our renowned expertise.

Together we will create a management strategy meeting your exact requirements, help maximise equipment availability, reliability and minimise the total cost of ownership through the life cycle of your equipment.



Strategic spares management

David Brown field service engineers are primed to deal with any problem you may encounter in the power generation industry, anywhere in the world.

Using the latest technology, they are ready and waiting 24 hours a day, 365 days a year. Their specialist knowledge in the power generation industry ensures that they can drive value into your process and keep your business running eliminating downtime and lowering your costs. They have the technology to provide fast, effective, repair and support services anytime, anywhere in the world.



Global support

○ Manufacturing	● Service centres	● Sales offices	● Planned service centres
Australia	Australia	Australia	Brazil
China	Chile	Brazil	Peru
Canada	China	Chile	Philippines
France	France	China	Zambia
South Africa	India	Indonesia	USA
UK	Indonesia	Morocco	
USA	South Africa	Singapore	
	UAE		
	UK		
	USA		