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vertical mill drives

conveyor drives

high speed drives

The power industry driven by David Brown

horizontal ball mill drives

concrete volute pump drives

stacker reclaimers

slurry pump drives

air pre-heater drives


service and repair



Gearbox
Emergency helpline
T +44 (0) 1484 465666

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Global version

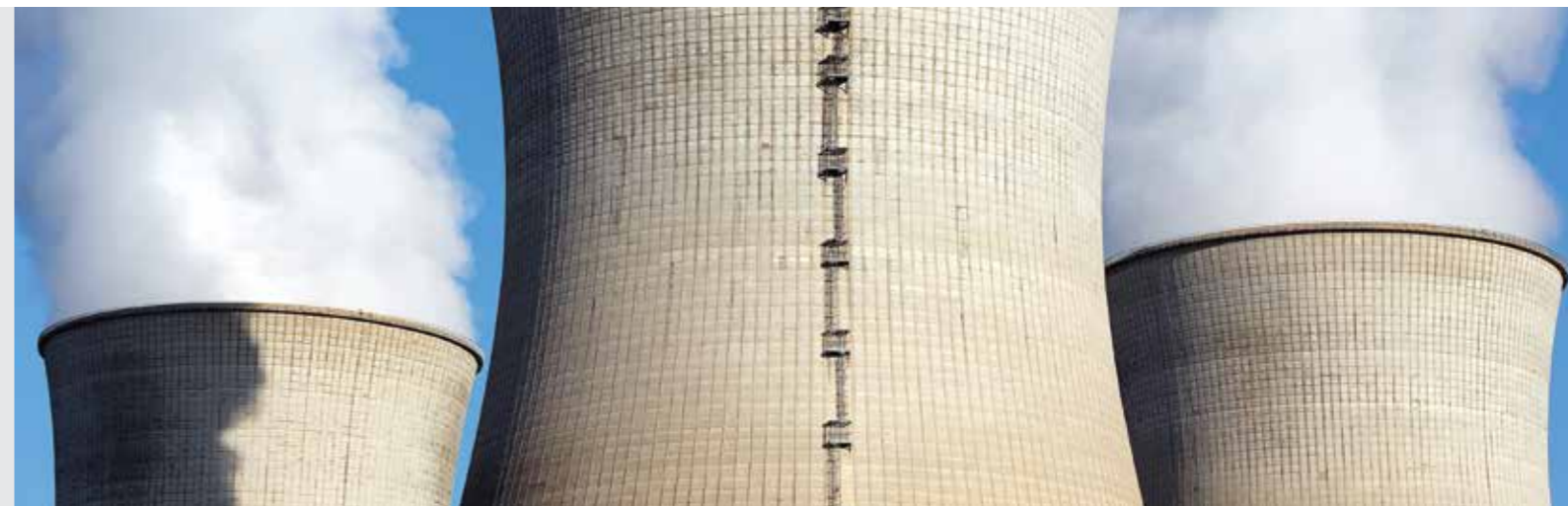
 Moventas approved service and repair centre

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In the interest of continuous development, David Brown reserves the right to alter designs and specifications without prior notice.

David Brown is certified to ISO9001:2008. Your David Brown representative should be consulted prior to product selection and use. 3X terms and conditions apply. Contact your local David Brown representative for details and to check eligibility.

The power industry driven by David Brown



David Brown offers an extensive product range for the power industry. Specialising in gear systems tailored to your specific requirements, we use our global references and key industry knowledge to deliver a product that's reliable, durable and meets your operating environment exactly.

For more than 150 years, David Brown has been recognised as a leader in the global industrial gear industry, engineering solutions for power plants across the globe. Our experience in developing assurance critical gear systems for applications that cannot fail ensures we build solutions that last.

Supported by key manufacturing and service facilities throughout the world, you can be sure that whenever you need us, we are right there with you – anytime, everytime.

Think innovation. Think David Brown

- Durable, reliable, low maintenance gearboxes
- Working in partnership with our customers to deliver engineered solutions designed to exact specifications
- Maximum interchangeability for easy drop in replacements
- Understanding and solving our customers' gearing problems to reduce the total cost of ownership
- Global network of service and repair centres for local expertise and customer support
- Supported by thousands of references across both the power generation industry and critical industries globally

Partnering with our customers to build solutions that last



Coal and biofuels

Where pulverised coal and biofuels are burned to raise steam to generate electrical energy.

Products

- Conveyor drives
- Vertical mill drives
- High speed drives
- Concrete volute pump drives
- Service and repair of any brand of industrial gearbox



Nuclear

Where uranium is used to raise steam to generate electrical energy.

Products

- Concrete volute pump drives
- High speed drives
- Service and repair of all types of gearboxes within nuclear power facilities, including those not originally manufactured by David Brown

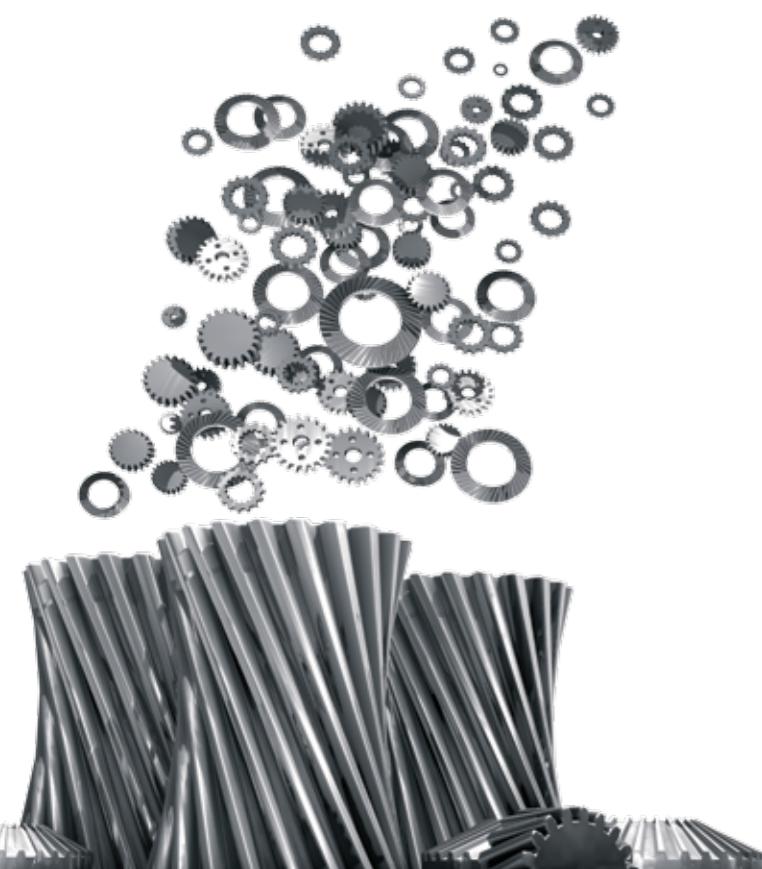


Gas

Where gas is used to drive the turbine which generates electrical energy. The waste heat from the gas is used to raise steam for Combined Cycle Plants (CCP).

Products

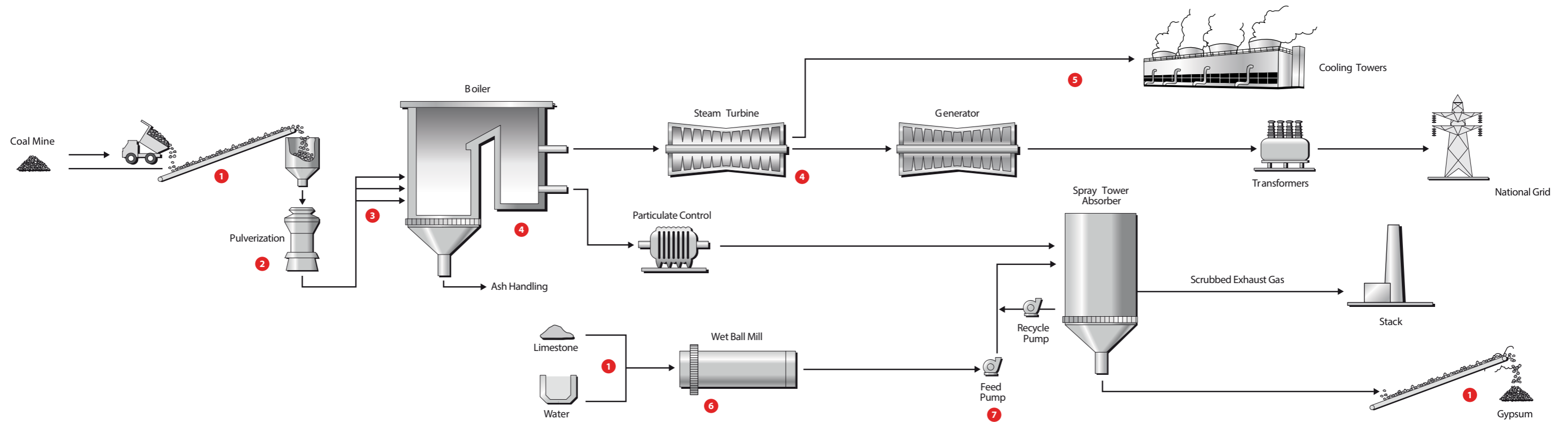
- High speed drives
- Concrete volute pump drives
- Service and repair of all gearboxes including load and accessory drives



The thermal power generation process

At David Brown we understand the power generation process and our unparalleled experience of thermal power enables us to deliver the reliability that helps you maintain optimum output at all times.

Our global manufacturing and service facilities ensure that you have access to application specific knowledge for any type of gearbox, at any stage of the power generation process, anywhere in the world.



- 1 CX conveyor drives
- 2 Vertical planetary, double and triple reduction bevel helical. Mill drives
- 3 Air pre-heater drives
- 4 HX 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

Engineering expertise

David Brown has a dedicated global team of design engineers experienced in providing tailored solutions for all applications in the power industry. Our engineers work with you to provide optimised designs using state of the art software, equipment and processes.

Housings, couplings and shafts

- Designed for thermal efficiency
- Using the latest software design tools for FEA analysis and 3D modelling (Solid Edge)

Gear design

- David Brown designs to API, AGMA, JIS, DIN or ISO standards
- Tooth modifications to achieve optimal performance
- Using the latest software design tools for power transmission

Assembly & load testing

All gearboxes follow strict quality control guidelines and reviews before being shipped to our customers worldwide

David Brown offers no-load spin testing and full scale load testing of stand alone gear units or complete drive assemblies depending on your requirements

Our full load testing capabilities include the measurement of temperature, vibration and noise

State of the art manufacturing capabilities

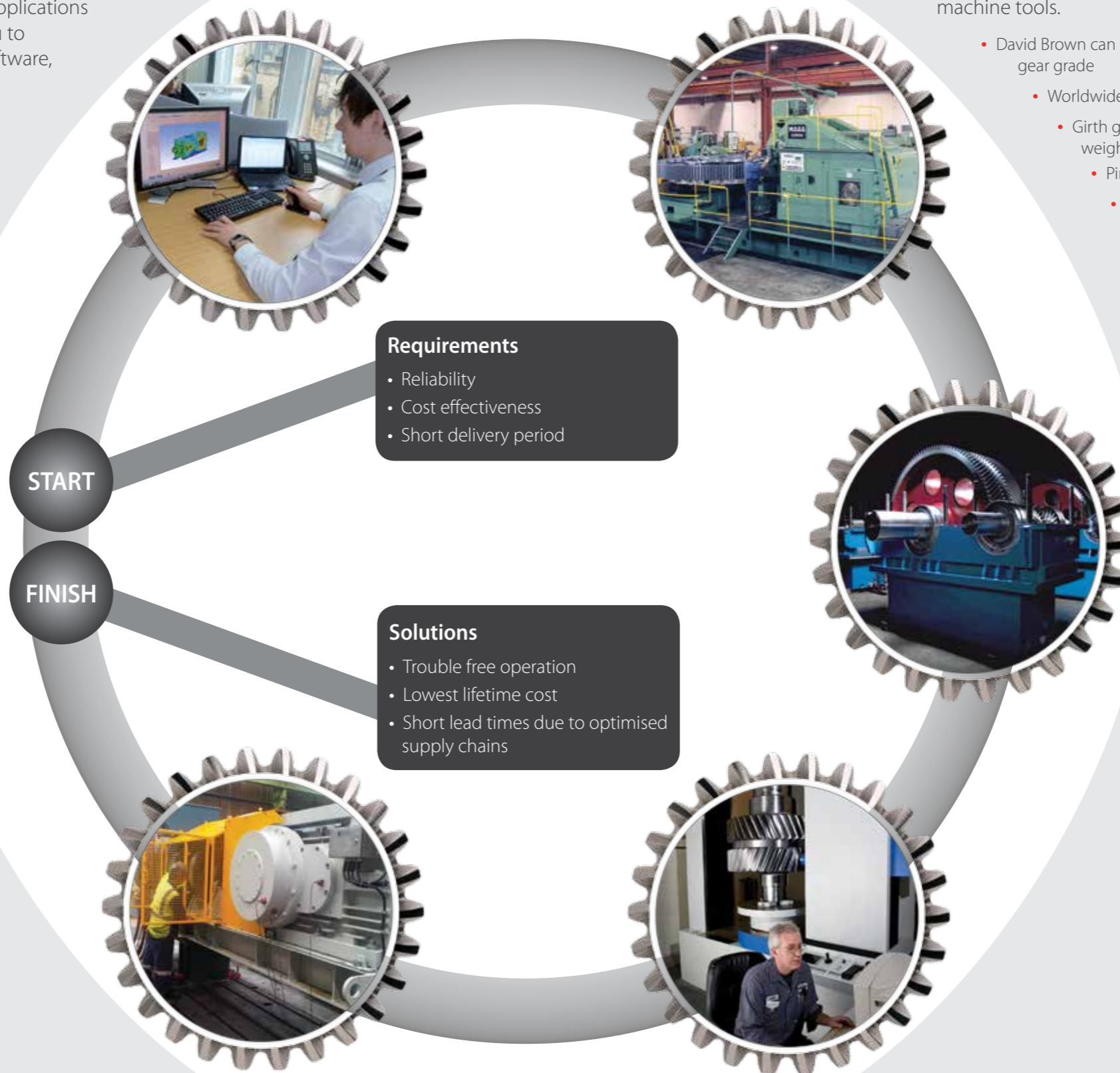
Global factories equipped with leading gear cutting and grinding machine tools.

- David Brown can manufacture gears and gearboxes to any rating or gear grade
- Worldwide facilities manufacturing:
 - Girth gears to 14.4m in diameter and up to 105,000kg in weight
 - Pinions tailored to suit your requirements
 - Annulus/internal ring gears up to 12m in diameter
 - Induction hardening of external or internal gears to 4.5m in diameter
 - In house case carburising to 3m diameter and 4.5m length
 - Nitriding heat treatment can be available on request

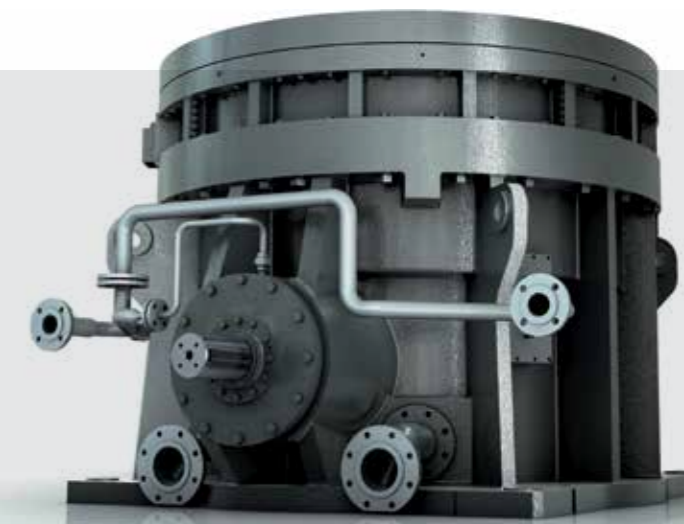
Quality control

Equipped with the latest state of the art gear inspection equipment

David Brown is globally equipped with the latest onboard and stand alone gear measurement technology



The complete power industry product range



David Brown is geared to deal with any challenge at any stage of the power generation process. Our unparalleled experience of coal, gas and nuclear power generation enables us to deliver the reliability that helps maintain your optimum output at all times. Our main priority is ensuring you have maximum availability and power generating ability, meaning all our gearboxes are designed specifically to suit your exact application and duty cycle.



Conveyor drives

Our CX range of gearboxes has been in operation over many years in some of the harshest environments.



Horizontal ball mill drives

Typically comprise a girth gear, a pinion supported in plummer block bearings and primary gearbox complete with barring drive.



High speed drives

David Brown has vast experience in developing high speed drives for power generation applications, from smaller kW gear units right through to 60MW designs.



Vertical mill drives

Our vertical planetary coal pulveriser gearboxes are specifically designed to meet the rigorous working conditions of the thermal power industry's mills.



Pinions

David Brown manufactures both integral and non-integral mill pinions, for horizontal ball mill applications.



Girth gears

Girth gears are used to drive horizontal grinding mills globally. David Brown has supplied girth gears individually and as part of fully optimised ball mill drives for more than 80 years.



Stacker/reclaimer drives

David Brown has a long history of manufacturing and servicing geared drives for stackers and reclaimers.

- Long travel drives
- Conveyor drives
- Bucket wheel drives



Concrete volute pump drive

Industrial planetary unit for coaxial pump drives. David Brown designs offer great reliability and prolonged maintenance intervals for both thermal and nuclear power.



Slurry pump drives

All centrifugal slurry pump drives are designed to handle abrasive slurry in heavy duty operating cycles.



Air pre-heater drives

David Brown can service and repair any make and model of air pre-heater drive for power generation applications. We can also design and manufacture new air pre-heater drives which typically have multiple input shafts and one single vertical output, optimised for reliability and easy maintenance.

VMX vertical mill drives



Used in vertical coal pulverising applications, David Brown's VMX vertical mill drive is the ultimate combination of strength, integrity and precision engineering. Specifically designed to meet the rigorous working conditions of the thermal power industry, our vertical planetary coal pulveriser gearboxes offer outstanding performance in handling the large axial loads and overload conditions normally experienced in power generation applications.

At a glance

- Our current VMX series covers all applications from 450kW to 1100kW and beyond
- Input speed is usually based on a six pole design but other speeds can be considered
- Individually tailored to provide an optimised design for specific customer needs enabling flexibility in:
 - Floor mounting positions
 - Input shaft centre height
 - Output coupling diameter
 - Exact ratio requirements



Product range includes:

David Brown gearbox model	THRUST LOAD (TYPICAL) kN	MOTOR POWER HP	INPUT SPEED RPM	OUTPUT SPEED RPM	WEIGHT lbs
VMX45	1100	600	980	41	17600
VMX50	1400	670	980	38	17965
VMX56	1700	750	980	35	24900
VMX60	2400	800	980	33	31000
VMX67	2700	900	980	33	35250
VMX73	2700	980	980	30	40110
VMX84	3000	1125	980	28	50700
VMX90	5000	1200	980	28	70500
VMX110	5500	1475	980	26	82650

Further VMX unit sizes available on request.

Key features

- Each model can be tailored to match the requirements of existing mills for a drop in replacement to minimise disruption and costs
- Designed for durability, reliability and low maintenance
- Transmits power to the mill whilst supporting the grinding table and effectively handling large axial loads
- Single piece SG iron cast gear case for high strength, integrity and noise deadening characteristics. A single piece design removes the risk of oil leakage
- Heavy duty seals on input shaft and output couplings to increase durability
- Sun gear self aligns with planet gears and connects to the main bevel shaft through a double jointed barrelled gear type coupling

Gearbox design features

- Case hardened, profile ground gears for greater precision and durability
- Self aligning sun gear ensures effective load sharing at all times
- Thrust pad bearings support main output coupling to transmit thrust loads
- Labyrinth seals on output shaft and output coupling to prevent dust ingress – a key factor in this application
- Option for compressed air feed to main gear case, providing positive pressure to further reduce risk of dust ingress
- Designed to handle overload conditions
- Each gearbox is designed to ensure inspection and maintenance points are easily accessible

Reference list includes:

Name of customer	Country	Quantity	Motor power (kW)
Power station	China	6	540
Power station	China	1	840
Power station	India	12	600
Power station	China	3	500
Power station	China	4	Various
Power station	Canada	2	570
Power station	Canada	1	570
Power station	China	2	570
Power station	Canada	3	500
Power station	China	8	625
Power station	China	4	335
Power station	Hong Kong	1	499



LOESCHE mill type LM23 - Avedore, Denmark



Power Station equipped with LOESCHE classifiers - Ratcliff, UK



LOESCHE mill type LM28 - Schwarze Pumpe, Germany

The HX series



When it comes to specifying high speed gearboxes for critical applications such as pumps, compressors and generators, we use our experience in designing innovative gearboxes for some of the world's most critical applications.

Our HX high speed gearbox series combines enhanced performance, adaptability and increased reliability to deliver a standard range that has the flexibility to meet your specific requirements.

At a glance

- The HX range covers applications up to 60MW
- Standard product range that's adaptable in design to suit your application as well as meet your needs for rapid delivery and minimal downtime
- Global high speed manufacturing capabilities across five continents
- Capability to supply full package solutions including lubrication systems, instrumentation, barring drives and clutches
- Additional warranties can be negotiated, including life cover for peace of mind



Key features

- Double helical gearing is supplied as standard but single helical gears can be incorporated to suit customer requirements
- All HX gearboxes are designed to limit sound pressure levels to meet your noise emissions standards
- All high speed gearboxes are no-load tested at full operating speed. Load testing and back-to-back testing programmes are available if required
- Oil reservoirs and housings that enclose moving lubricated parts are designed to minimise contamination by moisture, dust and other foreign matter during operation and when static

Gearbox design features

- The HX range is designed and manufactured to all major international standards including: API613, API677, AGMA6011, AGMA421.06, ISO and DIN
- Flexible gear case configuration allows for the positioning of oil inlets either side, or at the end of the gear case to minimise pipe runs
- The gear case is designed and manufactured in cast iron or fabricated steel, dependant on customer requirements. It is accurately machined to ensure noise and vibration damping
- All HX high speed gears are designed to operate at maximum efficiency with minimum oil quantity. If needed, we can supply an integrated or stand alone lubrication system depending on your requirements

Product range includes:

Low ratio gearbox including ratios 1.2 to 4.1 - Optimised ratios beyond 4.1 are available on request

	A	B	C	D	E	F	G	H	I	J	ØK max	ØL max	M	
													Cast	Fabricated
HX200	200	400	810	430	290	320	650	803	165	205	100	125	40	65
HX250	250	430	950	485	340	360	770	923	205	260	125	160	45	65
HX280	280	460	1030	520	370	380	830	1003	230	295	140	180	50	65
HX315	315	500	1135	560	410	410	940	1098	260	325	160	200	55	65
HX355	355	540	1245	600	440	450	1010	1203	295	365	180	225	55	65
HX400	400	590	1370	650	490	480	1140	1333	325	405	200	250	65	65
HX450	450	640	1520	720	540	530	1220	1468	365	455	225	280	65	84
HX500	500	690	1650	770	590	560	1300	1588	405	510	250	315	70	84
HX560	560	750	1800	830	640	600	1450	1763	455	575	280	355	70	84
HX630	630	820	1990	900	700	660	1570	1938	510	645	315	400	75	92
HX710	710	900	2180	975	770	700	1690	2153	575	725	355	450	80	92

High ratio gearbox including ratios 4.1 to 8.5 - Optimised ratios beyond 8.5 are available on request

	A	B	C	D	E	F	G	H	I	J	ØK max	ØL max	M	
													Cast	Fabricated
HX200	200	400	770	430	310	260	520	613	165	205	100	125	40	60
HX250	250	430	870	485	360	260	560	698	205	260	125	160	45	60
HX280	280	460	930	520	380	270	660	743	230	295	140	180	50	65
HX315	315	500	1045	560	430	300	750	808	260	325	160	200	55	65
HX355	355	540	1125	600	470	300	800	863	295	365	180	225	55	65
HX400	400	590	1230	650	510	320	900	923	325	405	200	250	65	65
HX450	450	640	1370	720	570	350	950	1023	365	455	225	280	65	65
HX500	500	690	1480	770	620	360	1010	1113	405	510	250	315	70	70
HX560	560	750	1620	830	670	390	1130	1208	455	575	280	355	70	70
HX630	630	820	1790	900	740	420	1190	1308	510	645	315	400	75	75
HX710	710	900	1970	975	820	440	1280	1433	575	725	355	450	80	80

HX800 and HX900 available in a fabricated case design

CX conveyor drives



Used in the first stage of the power generation process to transfer coal to the pulveriser. David Brown's range of helical and bevel helical conveyor drives are designed to meet the needs of the most arduous and intense conveying systems. We have designed a standard range of conveyor drives for speedy delivery, high availability and ease of integration, as well as adaptability to meet the needs of your application and business.

At a glance

- Conveyor drives from 45 – 3000kW
- Full solutions including the gearbox, holdbacks, brakes and fluid couplings
- Input speed ranging from 580 - 1750rpm depending on your exact requirements
- Range of final centre distances from 185mm and beyond with a maximum torque rating of 600kNm
- Product lifespan 7 - 10 years with a mean time to repair of 50,000 hours

Key features

- All David Brown conveyor drives can be operated as a sole drive or in tandem when fitted with a load sharing holdback
- Right angle arrangements are available in 2 and 3 stage reduction
- Parallel arrangements are available in 2 stage reduction
- Parallel single stage reductions can be supplied as custom engineered projects
- Option of full load testing as well as temperature, noise and vibration measurement before installation
- No external cooling or lubrication system required

Product range includes:

CX model number	Motor sizes		Max torque	CX model number	Motor sizes		Max torque
	(Min)	(Max)			(Min)	(Max)	
Units	kW	kW	kN.m	Units	kW	kW	kN.m
185	45	55	13.2	365	300	400	96.8
210	55	75	15.2	400	400	500	115.6
225	75	90	23.9	480	500	630	187.1
240	90	110	25.6	525	630	800	248.0
260	110	132	31.9	560	800	1000	349.1
275	132	160	35.0	620	1000	1250	422.8
285	160	185	46.9	675	1250	1600	521.4
300	185	220	53.7	720	1600	2000	619.8
320	220	260	61.3	800	2000	2500	812.4
336	260	315	68.6	1000	2500+		1000 +

Ratio range - 10.3 to 47.1, 2 or 3 stages
Safety factors - 1.25 to 1.5+

Gearbox design features

- Designed to the latest quality standards
- CX conveyor drives up to 750kW are designed to DIN 3990
- CX conveyor drives above 750kW are designed to AGMA 2101
- All David Brown CX conveyor drives can withstand 100% humidity and direct rain
- Gear and bearing lives optimised for ultimate reliability
- Ductile iron two piece housing ensures easy serviceability and no case leaking
- Heat dissipating cooling fins increase reliability and lower costs as no auxiliary cooling system is required
- Rigid high speed cartridge design for easier servicing and reduced bevel noise

Special feature options

- Alignment free tunnel mount per application
- Output shaft cover
- Double lip seals
- Non-contact double grease labyrinth shaft sealing
- Forced lube system

Reference list includes:

Project	Qty	Motor size
Iron ore export terminal	27	630 - 800kW
Iron ore export terminal	14	710 - 1120kW
Iron ore export terminal	20	185 - 900kW
Iron ore export terminal	23	450 - 710kW
Coal export terminal	20	630 - 830kW
Coal export terminal	94	7.5 - 450kW
Iron ore mine	6	1000kW
Iron ore mine	18	315 - 1000kW
Coal mine	7	315 - 450kW
Coal mine	110	110 - 500kW
Coal mine	100	110kW
Diamond mine	50	315 - 450kW

Existing designs to 3MW capacity

- Immersion heater
- Swing base
- Fluid coupling
- Brake
- Flywheels



MDX horizontal ball mill drives



We design, develop and manufacture horizontal ball mill drives for the global power industry. Our mill drive units are optimised to provide the most economical solution and are available as drop in replacements or as part of a full, integrated system.

Our mill drive series is simple, durable and designed for cost effectiveness and utmost reliability. All our standard ranges are adaptable to meet the needs of your application and its operating environment.

At a glance

- Our horizontal ball mill range covers all applications from 1000kW to 9000kW
- Fully optimised systems comprise a main mill drive unit, girth gear, mill pinion and an auxiliary/inching drive, although each stage can be bought individually
- Single stage design covers ratios 5.8 to 7.1:1, although specially optimised ratios are available on request for both replacement and new systems
- Single, double and triple reductions are available depending on your required ratio and motor speed
- Large inspection cover provided which allows for inspection of gear teeth and lubricant spray patterns

Key features

- Reducers selected to complement your girth gear design and reduce the cost of the whole system
- All gears are manufactured using high quality materials which offer key benefits such as distortion prevention, good damping, reduced noise emissions and dynamic deflection
- Gear cases machined using state of the art CNC technology to ensure perfect shaft alignment and flat sealing surfaces
- Gear cases designed in fabricated steel and ductile iron (SG iron). State of the art FEA technology ensures optimal stiffness, tooth contact and load distribution
- Flexibility in provisions for lubricant inlet and drain pipe connections to suit our customer's specific needs and operating environment

Product range includes:

MDX model number	Motor sizes [kW]	
	(Min)	(Max)
1070	5000	9000
850	3000	6750
725	2000	3750
630	1000	2250

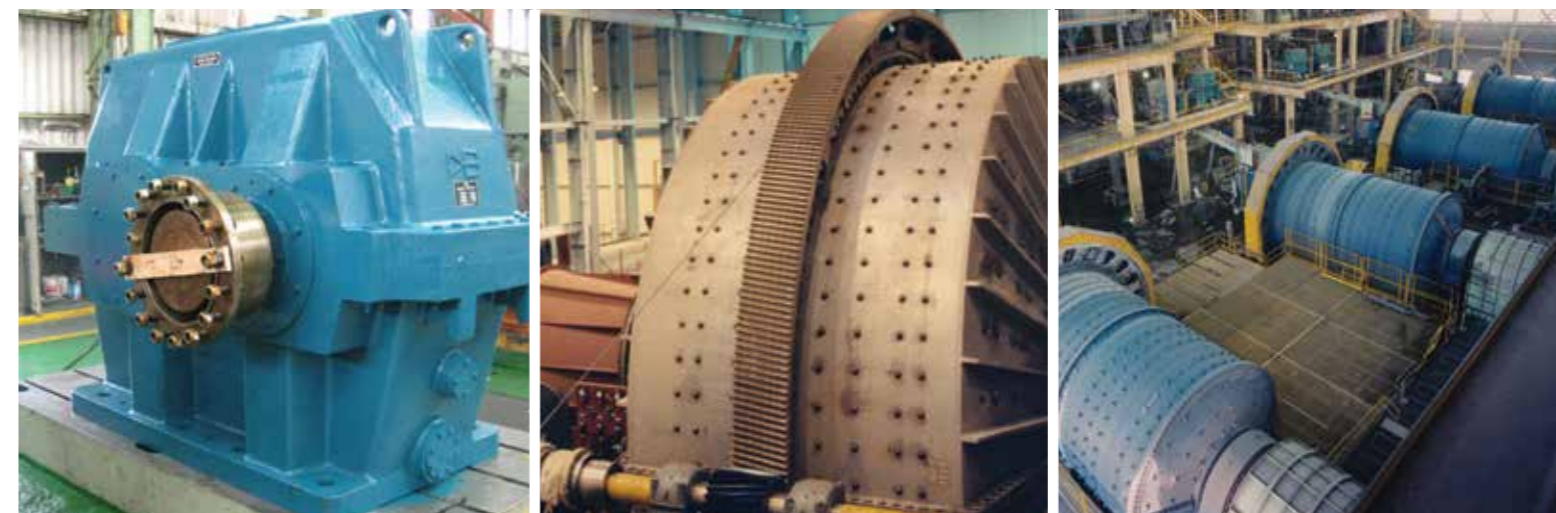


Gearbox design features

- All horizontal ball mill drives are designed to the latest AGMA 2000 A88 Q12 standard
- Optimised gear geometry provides excellent torque to centre distance ratios as well as integral load sharing for maximum performance
- Proven double helical designs eliminate axial thrust loads which reduce the bearing loads for extended bearing life
- Internal lubrication system comprises dedicated bearing feed lines as well as gear mesh sprays from both entering and exiting sides of the mesh. This ensures adequate lubrication and reduces the risk of downtime caused by non-lubrication

Reference list includes:

Customer	Description
Cement manufacturer	SPS 170 gear unit ratio 5,647:1
Gold mining	Valmet gear unit ratio 7,937:1
Gold mining	40" gear unit as per ratio 7654RH
Uranium production manufacturer	David Brown 836crs gear unit
Nickel mining manufacturer	SPS170 gear unit
Mineral ore manufacturer	TPS108 extended L series
Platinum manufacturer	BEW SB40 gear unit new box
Global distributor of mining equipment	BEW SBN 28-46 gear unit ratio 5,654:1
Uranium manufacturer	BEW DB26 gear unit same as -80
Gold mine	David Brown 36" wide type gear unit
Supplier of equipment services for cement and minerals	David Brown DPS 126 gear unit
Platinum mine	David Brown 810crs gear unit
Copper mine	David Brown size 36" wide type gear unit
Copper mine	BEW SBN28 gear unit ratio 5,654:1



Girth gears and pinions for horizontal ball mill drives

Girth gears and pinions are used to drive horizontal grinding mills and David Brown supplies them individually and as part of fully optimised ball mill drives. Designed to work specifically in your horizontal ball mill, all David Brown girth gears and mill pinions offer ultimate strength and reliability.

Girth gears - key features

- Girth gears supplied up to 10,000kW
- Global manufacturing capability to supply girth gears up to 14 metres in diameter and 105,000kg in weight
- Girth gears supplied in 2, 4, 6 or 8 segments with both T and Y section gears depending on customer requirements
- Designed and manufactured to AGMA level 10 and beyond
- Manufactured in temperature controlled environments to ensure highest accuracy and efficiency
- All girth gears can be manufactured for hardness ranging between 180-340BHN, and from the following materials:
 - Cast steel to BS3100
 - Ductile iron to ASTM A536
 - Fabricated forged steel plate

Pinions - key features

- David Brown designs and manufactures high torque, integral and non integral pinions for ball mill applications
- David Brown can manufacture pinions to a maximum of 10 tons in mass with a maximum face width of 1.2m
- Mill pinions can be manufactured up to 50 module
- Pinions shafts up to 4 metres can be manufactured, carburised and profile ground
- Profile and lead optimisation using the latest design software

Concrete volute pump drives

David Brown has more than 150 years of experience in engineering high quality gearboxes for assurance critical applications. We use this expertise to ensure our concrete volute pump drives can be relied upon in the most demanding conditions.

At a glance

- Power rating designs up to 7,000kW and beyond
- Input speeds are usually based on a six pole design but other speeds can be considered.
- Industrial planetary units comprising three planet gears for optimum load sharing capability
- Manufactured using well proven gear materials to ensure a long and predictable life
- Greater reliability and easier maintenance through reduced number of components

Key features

- Case hardened and ground sun and planet gears using high grade carburising steel
- High grade through hardened steel annulus, internally ground to minimum grade 7
- Use of either hydrodynamic or rolling element bearings, or a combination of both as per our customer's specifications
- A fully articulated internal coupling between the input shaft and the sun gear allows the sun gear to 'float' and optimise load sharing between the three planet meshes



Stacker reclaimer

The criticality of these enormous machines in the transportation of bulk materials in the processing plant requires the use of high quality, reliable gear systems.

Typically using planetary gearboxes for their light weight qualities and ability to reduce the reactive load on the main structure, we provide flexible designs to meet our customers' needs without compromise

Complete conveyor systems for the stacker

- Radial stackers
- Coal conveyers
- Bucket elevators
- Belt conveyors
- Screw conveyors
- Load hoppers

Key features

- A range of components offering high reliability and performance
- Variety of radial stacker conveyor components with key special features and material options
- Cases manufactured using high grade cast steel

Superior bogie drives that are built to last

Key features

- Custom made cast steel bogies
- Heavy industrial components manufactured to meet and exceed international quality standards
- Designed and built for lower through life costs with minimal maintenance and service

Industrial drive systems for the bucket wheel excavator

Key features

- Manufactured to our customer specifications for easy service and maintenance
- Engineered for heavy, industrial usage
- Ultimate reliability and heavy duty performance

Slurry pump drives

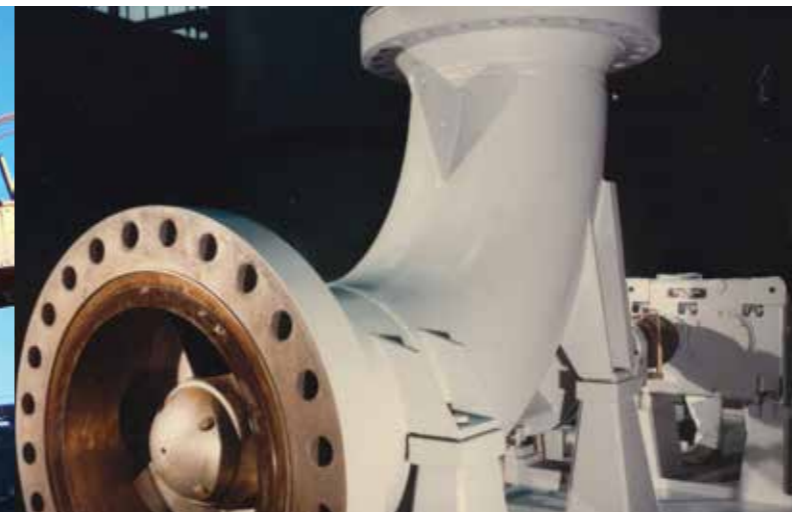
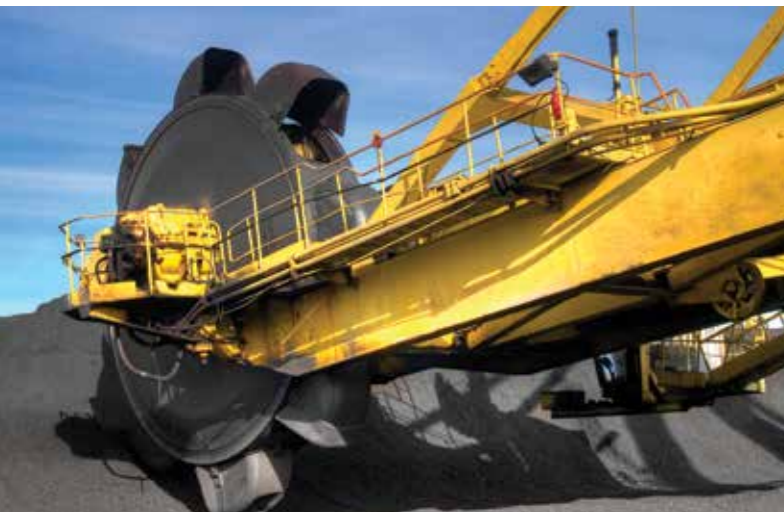
Centrifugal slurry pumps handle abrasive slurry in mineral handling and have to operate in ultra heavy duty applications. This intense duty cycle means centrifugal slurry pumps require an equally robust gear unit as part of the drive mechanism. David Brown has designed gear units for slurry pump applications that meet our customers' needs for high integrity and ultimate reliability.

Key features

- Available in both horizontal and vertical configurations to meet your exact requirements
- Cast iron two piece housing ensures easy serviceability and no case leaking
- Designed for durability, reliability and low maintenance
- Case hardened, profile ground gears for accuracy, durability and reduced noise levels
- Global high speed manufacturing capabilities across five continents

Gearbox design features

- Heavy duty helical gearbox
- Designed to the latest AGMA, API, DIN, JIS, and ISO standards
- Proven single helical designs
- Self contained lubrication systems as standard
- Gear case manufactured from cast iron or fabricated steel at our customer's request



Rapid global support delivered locally



Our global network of manufacturing and service facilities ensures we can provide support to you, our customer, wherever you are, whenever you need us. We work to make sure you are supported by engineers who know your gear system inside-out and understand your business and operating requirements.

Not only do we provide service support for all David Brown gearboxes, we can also service and repair other manufacturers' gear units including: Flender, Renk, CMD, MAAG, Moventas, Lufkin, Hansen, Falk, as well as many others.

Services offered

- Gearbox inspection and site services
- Gearbox repairs and overhauls
- Upgrades
- Asset management programmes
- Full diagnostic and performance testing
- Consulting, failure analysis and strain gauging
- Retrofit replacement gearboxes
- 3X three year assurance

David Brown has recently introduced 3X - a full three year extended warranty on any gearbox that's serviced, repaired or upgraded by David Brown at our manufacturing and service facilities across the globe.

Key features

- Available for any make or model of power industry gearbox*
- Installation, commissioning and maintenance of your gearbox at regular service intervals by a specialist David Brown service engineer local to you
- Access to round the clock support through our global network of service and repair centres as well as the option to install CMaS, a well proven remote condition monitoring system for extra assurance



- Repair and refurbishment of 970kW drives for a power station



We understand that gearbox downtime can be expensive so we strive to get your gearbox up and running in the fastest possible time to reduce your total costs of ownership.

Your local gearbox service and repair teams comprise the following key functions and are dedicated to supporting our global customers at a local level.



Engineering

- Giving our customers sound technical advice and informed, proactive upgrades
- Engineering the best solution to fix your problem
- Using our proven track record to maximise your operational efficiency



Site services

- Fast response with dedicated, experienced service engineers
- Full range of services delivered by experienced engineers local to you
- Parts and services warranty to minimise downtime impact



Project management

- Coordinating our global teams to provide rapid repair and redelivery of your gearbox
- Local support delivered through our global network of service centres



Quotations

- Competitively priced at your specified lead time
- Honest and professional service