DRIVE SOLUTIONS FOR
BELT CONVEYORS, STACKERS
AND RECLAIMERS

TORQUE FOR HEAVY DUTIES
VULKAN DRIVE TECH IS A DIVISION OF THE VULKAN GROUP WITH OVER 120 YEARS OF EXPERIENCE IN DESIGNING AND MANUFACTURING POWER TRANSMISSIONS COMPONENTS AND HIGH POWER BRAKES SYSTEMS FOR DEMANDING INDUSTRIAL DRIVES.

TORQUE FOR HEAVY DUTIES – WORLDWIDE
Operating with five international production locations, with 17 subsidiary companies and over 30 agencies worldwide, we ensure that VULKAN Drive Tech expertise is available on-site throughout the world. This means that our customers have rapid access to our specialists and that the necessary solutions are quickly available exactly where they are needed.

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INDUSTRIAL APPLICATIONS

VULKAN Drive Tech provides a wide range of flexible couplings, braking systems and resilient mounts, based engineering and know how applied into more than 20 different types of applications, within six different industrial markets segments.

→ OIL & GAS – Onshore & offshore plants involve the large-scale use of compressors, blowers, pumps and fans within the processing chain of fluids and gasses. Our torsional flexible & torsional rigid couplings and brakes will preserve the best functionality of diesel engines, electric motors and turbines in the vast majority of working profiles and environments.

→ MINING – Stackers, reclaimers, regenerative conveyors belt, mills and crushers are just a few examples of the heavy duty machinery that requires specific high speed & low speed couplings, service & emergency braking systems, backstops and resilient mounts. Our approach to such demanding applications is to deliver engineered tailor-made solutions.

→ BULK MATERIAL HANDLING – Gear couplings, electromagnetic service brakes, hydraulic emergency brakes, hydraulic rail clamps for E.O.T. gantry cranes, torsional highly flexible couplings and resilient mounts for construction machinery underline the wide product portfolio and engineering capacity of VULKAN Drive Tech.

→ ENERGY – Power generation by means of wind turbines, hydro turbines and steam turbines, requires drive solutions that are capable of withstanding high dynamic torque load and high speed. VULKAN Drive Tech responds to such requirements with high-quality hydraulic brakes, composite materials and integrated electronic power controls.

→ IRON & STEEL – Continuous ingot castings and hot & cold laminating machinery are typical examples of steelwork equipment where the drives are subjected to dust, dirt and high temperatures. Operational safety and reliability of the drive components and minimum service downtime are the main requirements that our pneumatic disc brakes, maintenance-free flexible couplings and disc couplings must fulfill.

→ SPECIAL APPLICATIONS – The unique skills and knowhow developed during more than 120 years of experience makes VULKAN Drive Tech a reliable partner for drive components that simply cannot be selected out of a catalogue. Test benches, railways, agricultural machinery and gantry cranes for aerospace equipment are just a few of the challenges that we deal with on a daily basis.
CUSTOMER BENEFITS

Our mission is to offer our customers the most reliable products, with the right level of customization, state-of-the-art design, delivered within the requested time, supported by local service closest to where it is needed. Choosing VULKAN Drive Tech means to choose innovation, technological leadership, and highly specific solutions with maximum customer benefit.

➔ TAILOR-MADE SOLUTIONS – We propose to our customers diversified systems solutions that can respond positively to their requirements in terms of products features, custom solution design, and the operating conditions and economy of the application. VULKAN Drive Tech provides the reliable products and related engineering services that your application needs.

➔ ENGINEERING – We have considerable experience and knowhow regarding the most advanced braking technology and torsional & linear vibrations calculations and measurements. Besides the most advanced 3D CAD CAM systems that are used by our Design Department, we have developed state-of-the-art calculations programs to simulate product performances in relation to the specific application. More than fifty of our engineers dedicate themselves on a daily basis to fulfilling the requirements of our customers.

➔ IN-HOUSE TESTING – VULKAN Drive Tech has in-house test center to perform either static or dynamic tests up to 5,000 kNm. This ensures we can back up the claims regarding technical performances that are listed in our catalogue, recreating the most severe operating conditions our products will face within their lifetimes. This strategic service is performed to implement our engineering knowhow and create a new breakthrough into state-of-the-art power transmission and braking systems technology.

➔ PRODUCTION – VULKAN Drive Tech comprises five wholly-owned manufacturing sites worldwide and this is where the core of our products come to life. International Quality Standards guarantee our customers that the Services and Products purchased from VULKAN Drive Tech are simply Top Quality Products which deserved to be branded with our “V” Logo.

➔ WORLD-WIDE SERVICE – 17 wholly-owned subsidiaries and more than 30 offices worldwide demonstrate the close contact we can offer to our customers. Our key areas of competence include application engineering, sales, after sales and technical support. Furthermore, service and spare part depots have been established throughout the world. And the shortest routes for material to their point of installation, as well as the flexibility and mobility of our technicians, ensure a prompt backup service all over the world.
REQUIREMENTS
Iron ores, coal, precious minerals and similar materials need to be transported from mines to different points of use – such as processing plants or stocking piling – for sea transportation to other end users. Conveyor belts, stackers and reclaimers are the main machinery used for this purpose. The expected performances of these applications are extremely high and require **powerful and reliable drives** with power ratings up to 10,000 kW and transportation capacity up to 15,000 tons per hour.

**Couplings** are generally installed onto either high speed and low speed shafts of the drive train in order to **compensate misalignments** between the motor and the gearbox. Alternatively, they can be installed between the gearbox and the pulley when the drive train is on a separate base frame from the pulley drum (typical configuration of high powered conveyors). The coupling compensates misalignments due to **thermal expansions** phenomena, as well as reduces **shock loads** transmissions. Inclined conveyors do also require **safety equipment**, in the unlike event of emergency conditions such as **failure of the drive train**, **rolling back of the belt** or **overspeeding** of regenerative conveyor belts. For these purposes either **backstops and brakes systems** have to be properly selected. Motor stalling torque, run back torque, conveyor stopping time, conveyor speed, are just few mandatory variables to be considered into couplings, backstops and brakes system design.
To face all of these requirements, **VULKAN Drive Tech** has developed a product portfolio that is specific for belt conveyors applications: torsional flexible couplings, torsional rigid couplings, service and emergency brakes and backstops, focusing on the following **three major key aspects**:

### Efficiency

To minimise service and machinery laydown costs, VULKAN Drive Tech has developed couplings with special elastic elements that are made of chemical contamination-resistant materials. These increase the lifetime of the products considerably. Brakes are equipped with special sealings that guarantee no contamination of potentially dangerous dust to internal brakes components. Backstops are equipped with additional oil reservoir tanks, which increase the operating time between services.

### Tailor-made solutions

Due to the unique nature of each belt conveyor, it is simply impossible to take another approach to the application of its products, if not the one of customised solutions. Our engineers are at the disposal of our customers to ensure that the best tailor-made solution is developed. A proposal that can satisfy either technical and economic requirements that each project specifically demands: a customised solution with standard design products.
Couplings, brakes and backstops have an extremely high interaction rate within the design of a conveyor belt drive train. VULKAN Drive Tech provides specific designs to closely match the integrated installation of couplings and brakes (or backstops), with a view to optimising product performances. State of the art engineering, 3D CAD tools, in-house testing are the foundation of VULKAN know-how.
SOLUTIONS

Product portfolio
ELECTROMAGNETIC BRAKES PAGE 12
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FLEXOMAX
Nominal Torque Range: 0.003 – 644.00 kNm

FLEXOMAX GSN
FLEXOMAX is a family of torsional flexible couplings which are used for high speed shaft installation. It is characterized by claw design and shaft to shaft design, with radial removability, without moving the connected machinery.
The three different designs available are FLEXOMAX G, FLEXOMAX GSN and FLEXOMAX GBN; each of which is developed to fulfill specific requirements in terms of nominal torque transmission, shock loads absorption, axial, radial and angular misalignments capacity. The elastic element of the three designs differs as regards material and geometry and this means that it complies with even the most demanding application requirements. FLEXOMAX is available in more than 30 different versions and 50 different sizes. This ensures it will fit the requirements of almost any application.

The FLEXOMAX coupling is suitable for reverse rotation and is typical of electric motor drives. The claws and elastic element design mean that FLEXOMAX is a maintenance-free product as it does not require any special type of servicing or maintenance. The wearing of the elastic element is minimised by the material used, which is NBR for FLEXOMAX G and polyurethane for FLEXOMAX GSN and GBN. FLEXOMAX is suitable for compensating axial, radial and angular misalignments due to thermal growth and dynamic misalignments of the machinery.

The modular design of the couplings allow the creation of specific versions to fit almost any kind of machinery, such as, for example, FLEXOMAX GH, with intermediate spool to enable the removal of the pump’s impeller without the need to move the machinery. Other examples are the FLEXOMAX GGTB, GSND-TB and GBND-TB, which are provided with an integrated brake disc in order to properly accommodate the installation of a service or parking brake as well. The radial removal of the elastic element is a common feature of all FLEXOMAX G, GSN and GBN designs, so as to enable the most straightforward replacement of the element with minimum costs.

FLEXOMAX G: Nominal Torque Range: 0.02 to 48.60 kNm and shaft accommodation up to ø250 mm
FLEXOMAX GSN: Nominal Torque Range: 0.003 to 20.00 kNm and shaft accommodation up to ø250 mm
FLEXOMAX GBN: Nominal Torque Range: 3.6 to 64.44 kNm and shaft accommodation up to ø600 mm
DENFLEX

Nominal Torque Range: 1.00 – 560.00 kNm

DENFLEX is a tooth gear coupling that is torsionally rigid and used for synchronous torque transmission. The tooth gear profile allows the transmission of high torque values within minimum sizing of the coupling and compensates axial, radial and angular misalignments with low reaction forces generation.
It is particularly suitable for low speed shaft applications where high torque within limited size and weight is mandatory. The modular design of its components allows a huge variety of design compositions, which in turn fit even the most demanding applications.

The tooth profile is the core of this coupling and DENFLEX features a specific design that guarantees the minimum surface contact area between teeth. This ensures that friction and the consequent wearing of the parts is reduced, hence increasing the lifetime of the product. The spline design of the tooth sleeves allows DENFLEX to compensate high axial misalignments; in addition, the round tooth profile compensates either radial or angular misalignments as well. A complete system of sealings and gaskets prevent the gears area from becoming contaminated by dust or aggressive elements that could reduce the internal lubricant lifetime or even damage the gears.

DENFLEX, with standard lubrication, can be used for an operation environment temperature ranging from -10°C up to 90°C. Meanwhile, special lubrication is available on demand for more extreme environmental conditions. The reduced number and modular design of the components make DENFLEX a highly customisable product. Indeed, it is available in more than 30 different versions and 17 sizes that are suitable for shaft accommodation up to ø450 mm.

A special version is also available on demand that features hardened teeth and is able to transmit an additional 30-40% (depending on size) of torque, within the same dimensions of the standard coupling.

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<th>PRODUCT KEY FACTS</th>
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<td><strong>Efficiency</strong></td>
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<td>&gt; High torque transmission within limited dimensions.</td>
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<td>&gt; Long lasting working condition between service operations.</td>
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<td>&gt; High axial misalignment capacity.</td>
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<th><strong>Tailor-made solutions</strong></th>
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<td>&gt; More than 30 different configurations available.</td>
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<td>&gt; Possibility to integrate braking discs or pulleys within the coupling.</td>
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<td>&gt; High torque transmission version (+30%) available on demand.</td>
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<th><strong>Design</strong></th>
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<td>&gt; High axial misalignment capacity with minimised reaction forces to the connected machinery.</td>
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<td>&gt; Synchronous torque transmission.</td>
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<td>&gt; Sealed against aggressive contaminants.</td>
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<td>&gt; Modular design.</td>
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ELECTROMAGNETIC DISC BRAKE

Large fans machinery might require service and parking brakes due to the high inertias of the machinery components. VULKAN Drive Tech has a wide range of failsafe ELECTROMAGNETIC BRAKES used for this scope, which are specifically designed to comply with service, parking or emergency working profiles.
Each brake model can be equipped with a variety of accessories to comply with the most demanding applications that require reliable product performances within the most extreme operating conditions. The VULKAN Drive Tech power supply portfolio completes the brakes product range that we are able to offer.

VULKAN Drive Tech ELECTROMAGNETIC BRAKES are failsafe brakes that are available in either disc or drum configuration (AISE 11 Standard). They have been designed to ensure a minimum operating reaction time of 0.2 seconds and to support repetitive braking operations up to 700 cycles per hour. Laboratory tests have shown that VULKAN Drive Tech brakes are maintenance-free for up to 4,000,000 cycles.

VULKAN Drive Tech offers the following main customisation possibilities: automatic lining wear compensation system, brakes position sensors, pads worn out sensors, automatic or manual brake release mechanism, organic and sintered pads that are asbestos-free. Furthermore, the complete range of solid and self-ventilated discs with integrated flexible couplings are also available and these complete the scope of supply.

Each brake is equipped with a power supply unit to operate it; as regards the calipers, the power supply units can also be equipped with different electric/electronic circuits to better suit the specific requirements of the applications.

**FEATURES**

**BRAKES > ELECTROMAGNETIC DISC BRAKE, ELECTROMAGNETIC DRUM BRAKE**

**PRODUCT KEY FACTS**

- **Infinity Efficiency**
  - Failsafe brake.
  - 0.2 seconds reaction time.
  - Maintenance-free up to 4,000,000 cycles.

- **Tailor-made solutions**
  - Left and right installation versions.
  - Brake and pads status monitoring available.
  - Braking torque tuning capacity.

- **Design**
  - Available in either disc or drum configuration.
  - Shunt or series coil available.
  - Automatic lining wear compensation system.

More products of this series:
ELECTROHYDRAULIC DISC BRAKE

When service brakes do not require a high degree of manoeuvring, a useful alternative to ELECTROMAGNETIC BRAKES could be ELECTROHYDRAULIC BRAKES. Available in either a disc or drum configuration, VULKAN Drive Tech ELECTROHYDRAULIC BRAKES are of a fail-safe type and do not require the combined installation of a power supply to operate the caliper, which means an economic advantage at installation.
A wide range of accessories is also available for this product family, which includes automatic lining wear compensation system, pads worn out control and sintered pads. Our applications engineering desk will provide the right configuration according to the specific requirements of the customer.

VULKAN Drive Tech ELECTROHYDRAULIC BRAKES are spring applied and released by means of an electrohydraulic thruster that can be fed by 220-380 or 440 VAC and that has been designed according to the DIN 15430 standard. The nominal braking torque value can be manually adjusted in order to properly fit each application and the electrohydraulic thruster can be equipped with delay valves for smooth braking operation.

The ELECTROHYDRAULIC BRAKES family is available in three different caliper sizes, seven different thruster models and 13 disc configurations. This ensures that the braking features of each caliper can be properly set. Furthermore, it is possible to manually adjust the nominal braking torque value of each brake to fine tune the performance of the brakes on-site. Automatic lining wear compensation system, brakes position sensors, pads worn out sensors, automatic or manual brake release mechanism, and asbestos-free organic and sintered pads, are the main customisation possibilities that VULKAN Drive Tech offers.

**FEATURES**

**BRAKES > ELECTROHYDRAULIC DISC BRAKE, ELECTROHYDRAULIC DRUM BRAKE**

**PRODUCT KEY FACTS**

- **Efficiency**
  - Failsafe Brake.
  - Easy and fast installation on site.
  - Compliance to DIN 15430 Standard.

- **Tailor-made solutions**
  - Left and right installation versions.
  - Brake and pads status monitoring available.
  - Braking torque tuning capacity.

- **Design**
  - Available in either disc or drum configuration.
  - Modular design to fit different thruster into the same caliper.
  - Automatic lining wear compensation system.

More products of this series:
HYDRAULIC DISC BRAKE

Regenerative conveyors need braking systems that are capable of preventing overspeeding of the belt during normal operations and emergency stopping in critical conditions. As proportional braking and high dynamic torque due to machinery inertias are the main features to be considered, HYDRAULIC BRAKES are the prime products for this application.
The VULKAN Drive Tech HYDRAULIC BRAKES portfolio includes a wide range of calipers with all of the relevant accessories, such as a hydraulic power pack, electronic control unit and special electronic braking monitoring system that is able to continuously control the speed of the conveyor and apply proportional braking torque. This prevents overspeeding and guarantees the belt will stop within the desired time without overstressing of the belt itself, regardless of the load percentage of the conveyor.

VULKAN Drive Tech HYDRAULIC BRAKES are available in either positive (hydraulic applied and spring released) or negative (spring applied and hydraulic released) configuration and in single spring design for disc floating conditions, or double spring design for fixed disc conditions. The SH line is the prime product used for emergency operations into the belt conveyor. Available in nine different sizes, this double spring caliper can be easily installed on any disc diameter and thickness thanks to its adjustable design. A manual lining wear compensation system, brakes position sensors, pads worn out sensors, manual brake release mechanism, and organic and asbestos-free sintered pads are the main customisation possibilities offered by VULKAN Drive Tech.

VULKAN Drive Tech also provides a wide range of hydraulic power packs with different hydraulic performances such as the simple “On/Off” CH1 circuit or the most complex and sophisticated CH6 “Digital Proportional Braking system” which has the possibility of several custom accessories.

**PRODUCT KEY FACTS**

- **Efficiency**
  - Failsafe brake.
  - Proportional braking capacity.
  - High braking force capacity.

- **Tailor-made solutions**
  - Brake and pads monitoring status available.
  - Possibility to install on any disc diameter and thickness.
  - Digital proportional braking system control unit.

- **Design**
  - Mono and dual spring design.
  - 6 different hydraulic power pack units.
  - Lining wear compensation system.
RAIL CLAMPS

Also known as the “Storm Brake”, this product is largely used on port cranes, stackers, reclaimers and gantry cranes, where extreme winds might affect stability. They provide stability during abnormal operating conditions by literally clamping the crane to its foundations: rails.

Nominal Torque Range: 50.00 – 400.00 kNm
VulkAn Drive Tech Rail Clamps are composed of a spring applied or counterweight applied brake, which is then hydraulically released. Designed to meet the most critical applications and weather conditions, the rail clamps are provided with treated alloy steel jaws enabling better clamping effort performance.

The hydraulic power pack is designed in such a way as to guarantee the clamp remains open without requiring the frequent starting of the motor. This prolongs the lifetime of the hydraulic valves and components in general. To stop the clamps from accidentally closing, they are equipped with “open/close” status sensors, and there is also a flow control valve used, the purpose of which is to enable time controlled closing during clamping. Available in seven different sizes, VulkAn Drive Tech Rail Clamps are supplied to match a specific rail profile and can be designed for either front fastening or top fastening installation.

VulkAn Drive Tech Engineering is available for the design and selection of rail clamps, which are based on the wind requirements of single projects and machinery layout.

FEATURES

BRAKES > RAIL CLAMPS

PRODUCT KEY FACTS

- Clamping force up to 400 kN.
- Long lasting static open condition without engaging of the motor pump.
- Redundant pressure switches to prevent failure risk.
- Suitable for any rail profile.
- Front or top fastening version.
- With or without hydraulic power pack.
- Secure rail side clamping jaws system.
- Clamp status monitoring system to prevent accidental closing.
- Articulated structure to avoid unnecessary friction with rails.

Efficiency

Tailor-made solutions

Design
BACKSTOPS
Nominal Torque Range: 0.001 – 578.00 kNm

LOW SPEED BACKSTOP

VULKAN Drive Tech provides backstops for either high speed shaft or low speed shaft installations. The bearings can be sprag lift off or roller type, with or without radial bearing support and torque arm. Backstops are also available for pulley shaft end installation or shaft through installation and most sub-components are symmetrical in order to simplify their assembly in relation to the free rotation side, blocking direction and torque arm positioning.
The labyrinth sealing system guarantees optimal working conditions for the bearings and rollers, which have been designed for a standard lifetime of 10,000,000 stopping cycles. Furthermore, extra oil reservoir tanks for either pulley shaft end design (T) or shaft through installation design (P) are available to increase the operating working hours between maintenance service intervals.

Finish bores according to customer specification with relative number and type of keyways, together with different torque arm designs and lengths complete the backstop custom design possibilities. This ensures compliance with the requirements of each individual project.

Every VULKAN Drive Tech backstop is supplied with internal test certification that shows the operating conditions test it has been subjected to and which corresponds to the field working conditions to which it must comply.

The sprag lift off design with radial support bearing, such as BA & BC, are generally installed on high speed shafts. Meanwhile, Design 261, with cylindrical rollers and radial bearings, is typically installed on low speed shafts.

**FEATURES**

**BACKSTOPS AND FLYWHEELS > LOW SPEED BACKSTOPS, HIGH SPEED BACKSTOPS**

**PRODUCT KEY FACTS**

- Operating lifetime of the bearing for 10,000,000 cycles.
- Steel hardened components and labyrinth sealing system for long lasting of internal components.

- Different torque arms typology available.
- Extra oil reservoir tank.
- Reaction force balancing device on demand.

- Cylindrical rollers or sprag lift off type available.
- Through shaft or free end shaft installation design.
- Blocking direction orientation possibility.

More products of this series:
PRODUCT RANGE
For Belt Conveyors, Stackers and Reclaimers

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23 HYDRAULIC DISC BRAKES
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know how applied into more than 20 different types of applica-
tions. These applications include braking systems and resilient mounts, based on engineering and industrial applications.

**Couplings and Disc Couplings**

Couplings and disc couplings must fulfill specific requirements that our pneumatic disc brakes, maintenance-free flexible couplings, and cold laminating machinery are typical examples of steelwork in this category. These applications are utilized in the vast majority of working profiles and environments.

**Large-Scale Use of Compressors, Blowers, Pumps and Fans**

With the large-scale use of compressors, blowers, pumps, and fans within various industries, it becomes evident that drivesolution requirements vary from day to day. The business environment requires flexibility and reliability, which is why our product portfolio and engineering capacity of flexible couplings and resilient mounts for construction machinery, such as hydro turbines and steam turbines, require drive solutions that are capable of withstanding high dynamic torque load and high speeds.

**Iron & Steel**

Iron and steel are just a few of the challenges that we deal with on a daily basis. These applications require specific high-speed and low-speed equipment that can respond positively to their requirements in terms of product features, custom solution design, and the operating conditions and economy of the applications.

**Energetics**

Energetics involves solutions with maximum customer benefit. The need for solutions that can be tailored to meet the specific requirements of the customer in relation to the specific application. More than fifty of our engineers dedicate themselves to fulfilling these requirements on a daily basis.

**CUSTOMER BENEFITS**

Application Compressors / Blowers / Pumps / Fans

In order to provide the most efficient and effective solution, VULKAN Drive Tech provides the reliable products and related engineering services that your application needs. The core of our products come to life with the right level of customization, state-of-the-art design, and delivery. It's not just about meeting the requirements; it's about exceeding expectations.

**ENGINEERING**

VULKAN Drive Tech has in-house test centers to perform static or dynamic tests up to 5,000 horsepower. Our engineers are capable of withstanding high dynamic torque loads and high speeds, ensuring reliability and efficiency.

**PRODUCTION**

VULKAN Drive Tech is well-equipped to handle demanding applications with more than 17 wholly-owned subsidiaries and over 30 offices worldwide. This global presence ensures that we can meet the needs of our customers, no matter where they are located.

**ENGINEERING**

We propose to our customers diversified systems solutions that can respond positively to their requirements. Our expertise is available on-site throughout the world, meaning our customers have rapid access to our international capabilities.

**CUSTOMER BENEFITS**

With five international production locations, we ensure that our customers have access to the latest technology and design. Our division, VULKAN Drive Tech, is a part of the VULKAN Group with over 120 years of experience in power transmission and braking systems technology. We specialize in designing and manufacturing power transmissions and have the capabilities to handle the most severe operating conditions our products will face within their lifetimes.

**STATUS:**

**CONCEPT AND DESIGN:**

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VULKAN Drive Tech

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### Application

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<th>Oil &amp; Gas</th>
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<td>PNEUMATIC DISC BRAKES</td>
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<td>RAIL CLAMPS</td>
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<td>BACKSTOPS AND FLYWHEELS</td>
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<td>HIGH SPEED BACKSTOPS</td>
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<td>LOW SPEED BACKSTOPS</td>
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<td>&quot;RESILIENT MOUNTS&quot;</td>
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<td>DRIVELINE COMPONENTS</td>
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<td>COMPOSITE SHAFTING</td>
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INDUSTRIAL APPLICATIONS

- Gear couplings,
- Backstops and flywheels,
- Coupling technology for electromechanical and hydraulic systems,
- Low and high speed applications.

BULK MATERIAL HANDLING

- Continuous ingot castings and hot laminating machinery are typical examples of steelwork situations where the drives are subjected to dust, dirt and high temperatures. Operational safety and reliability of the drive components and minimum service downtime are the main requirements.

ENERGY

- Hydro turbines and steam turbines, requiring drive solutions that respond to such requirements with the functionality of diesel engines, electric motors and turbines in terms of functionality of diesel engines, electric motors and turbines.
- Equipment where the drives are subjected to dust, dirt and high temperature.
- Tests and measurements of drive components to their requirements in terms of products features, custom solution design, and the operating conditions and economy of the processed fluid.

CUSTOMER BENEFITS

- Choosing VULKAN Drive Tech means to deliver engineered tailor-made solutions.
- VULKAN Drive Tech comprises five wholly-owned manufacturing sites worldwide and this is where the solutions with maximum customer benefit.
- Test benches, electronic power controls.

INTERNATIONAL QUALITY STANDARDS

- International Quality Standards guarantee our customers that the Vulkans and the services come to life. Furthermore, service and spare part depots have been established throughout the world. And the shortest contact we can offer to our customers. Our key areas of competence include application engineering, sales, after sales and technical support. Furthermore, service and spare part depots have been established throughout the world. And the shortest technical support. Furthermore, service and spare part depots have been established throughout the world. And the shortest contact we can offer to our customers. Our key areas of competence include application engineering, sales, after sales and technical support.

WORLD-WIDE SERVICE

- Test benches, electromagnetic service brakes, hydraulic emergency brakes, large-scale use of compressors, blowers, pumps and fans within the processing chain of fluids and gases. Our torsional flexible couplings and resilient mounts for construction machinery and mobile machinery.
- VULKAN Drive Tech comprises five wholly-owned manufacturing sites worldwide and this is where the torsionally rigid couplings and brakes will preserve the best efficiency and service life.

VDM SERIES

- Rigid Couplings
- Backstops and Flywheels
- Brakes
- Rigid Couplings
- Backstops and Flywheels
- Brakes

V SERIES

- Rigid Couplings
- Backstops and Flywheels
- Brakes
- Rigid Couplings
- Backstops and Flywheels
- Brakes

FLEXOMAX GMB SERIES

- Flexible couplings and resilient mounts for construction machinery and mobile machinery.
- VULKAN Drive Tech comprises five wholly-owned manufacturing sites worldwide and this is where the unique skills and core of our products come to life. Furthermore, service and spare part depots have been established throughout the world. And the shortest contact we can offer to our customers. Our key areas of competence include application engineering, sales, after sales and technical support.

ENGINEERING

- We have considerable experience and knowhow regarding the most advanced braking technology and tailor-made solutions with maximum customer benefit.
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Operating with five international production locations, with 17 subsidiary companies and over 30 agencies worldwide, we ensure that VULKAN Drive Tech expertise is available on-site throughout the world. This means that our customers have rapid access to our specialists and that the necessary solutions are quickly available exactly where they are needed.

VULKAN DRIVE TECH IS A DIVISION OF THE VULKAN GROUP WITH OVER 120 YEARS OF EXPERIENCE IN DESIGNING AND MANUFACTURING POWER TRANSMISSIONS COMPONENTS AND HIGH POWER BRAKES SYSTEMS FOR DEMANDING INDUSTRIAL DRIVES.