



Industrial lubricants catalogue



INDUSTRIAL LUBRICANTS CATALOGUE

Repsol's industrial oils are the perfect solution to lubricate your machinery. We have a wide range of industrial oils that meet the most demanding quality standards and adapt to any specific needs of the machinery, process, or customer.

In this way, we can guarantee that your machinery and equipment is perfectly lubricated and protected, thereby enhancing its functions, improving performance, contributing to energy savings, and extending its service life.

We have our research center, **Repsol Technology Lab**, at the forefront of R&D+i worldwide. There, our technicians and researchers are constantly striving to improve every product we offer to ensure maximum efficiency, as well as enhanced technical and environmental quality.

We have a wide range of mineral oils formulated using GI base oils obtained in our very own refineries. These top-quality base oils allow Repsol to meet most of the lubrication requirements set by industrial machinery manufacturers.

For more demanding applications that require high antioxidant properties or a lubricant with a long service life, Repsol uses synthetic GIII base oils (also made in our own refineries) to produce Premium lubricants that meet the highest lubrication standards.

We also have synthetic oils made using ester, polyalphaolefin (PAO), or polyalkylene glycol (PAG) base oils for applications that require these types of lubricants with excellent performance.

You can also find a range of biodegradable products that ensure both your machinery and the environment are protected.



Here you can find out all the details about the lubricant range that meets your needs, as well as the corresponding production process. For more information click on the product range or sector you are interested in.

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Find out more about the technical characteristics of each lubricant [here](#).



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HYDRAULICS

Repsol's **hydraulic oils** are formulated using specially selected and refined base oils and cutting edge additives that ensure all parts of your machinery are strong and reliable to meet your needs, even in extreme working conditions.

To do so, when developing the hydraulic fluid of each oil, we aim to combine optimal lubrication and **anti-wear, filterability, oxidation stability, demulsibility, and corrosion protection** properties, positioning the Company at the forefront of current lubricating oil technology.

Repsol has a wide range of hydraulic oils to meet the needs of all its customers, from conventional oils with state-of-the-art zinc-based **anti-wear additives** to cutting-edge oils with **ashless technology**, in addition to biodegradable oils with a high viscosity index or even fire-resistant lubricants.

This all comes with our **commitment to sustainability** and the **environment** thanks to the use of regenerated base oils and biodegradable fluids.



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Conventional hydraulic Oils	Quality Levels	ISO Grades	Applications
REPSOL ARIES	ISO 6743/4 HL, DIN 51524 HL	15, ..., 220	Multi-purpose oils that can be used to correctly lubricate all equipment that does not require a state-of-the-art hydraulic oil and that work at controlled temperatures and pressures.
REPSOL LIBRA HIDRÁULICO HLP	ISO 6743/4 HM, DIN 51524 HLP	32, 46, 68	Oils formulated with top-quality regenerated base oils that meet the maximum performance levels required in cutting-edge hydraulic circuits.
REPSOL HYDROFLUX EP	ISO 6743/4 HM, DIN 51524 HLP AFNOR NF ISO 11158 HM AFNOR NF E 48690/48691	32, ..., 100	Lubricant oils formulated with highly refined paraffinic base oils and anti-wear and anti-oxidation additives that are perfectly balanced to achieve high performance in hydraulic systems that operate at high temperatures and pressures.
REPSOL TELEX E	ISO 6743/4 HM, DIN 51524 HLP FIVES CINCINNATI P-68, P-69, P-70 PARKER DENISON HF-0, H-1, HF-1 EATON VICKERS I-286-S and M-2950-S AFNOR NF ISO 11158 HM AFNOR NF E 48690/48691 VOITH 3625-006170 (ISO 22) VOITH 3625-006058, 006072, 006073, 008426 (ISO 32) VOITH 3625-006091, 006208 (ISO 46)	5, ..., 100	Hydraulic oils that meet the quality levels established in the DENISON HF-0 specification. Suitable for use in circuits that have piston and vane pumps and operate at high pressures, as well as, potentially, elevated temperatures. Excellent control of varnish formation, thereby improving lubrication in servo valves.
REPSOL HIDRAÚLICO SC	ISO 6743/4 HM, DIN 51524 HLP PARKER DENISON HF-0, H-1 and HF-2 FIVES CINCINNATI P-68, P-69, P-70 AFNOR NF ISO 11158 HM VOITH 3625-006210 VOITH 3525-006208	32, 46, 68	Oils with zinc-free (ashless) additives that are suitable for use in lubrication circuits that require an oil with these characteristics. Cutting-edge lubricants that meet DENISON HF-0 quality levels, suitable for lubricating circuits with demanding filters that operate at high pressure and temperatures.
VACUUM PUMP OIL	ISO 6743/4 HM, DIN 51524 HP	10W, 30	This oil is recommended for use in vacuum pumps, and more specifically for milking machine pumps.

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Hydraulic Oils with a high viscosity index	Quality Levels	ISO Grades	Applications
REPSOL TELEX HVLP	ISO 6743/4 HV, DIN 51524 HVLP FIVES CINCINNATI P-68, P-69, P-70 EATON VICKERS I-286-S and M-2950-S AFNOR NF ISO 11158 HV AFNOR NF E 48690/48691	15, ..., 68	Hydraulic oils with a high viscosity index formulated using highly refined paraffinic base oils and carefully selected additives that give the lubricant excellent anti-wear and antioxidant properties. They have a viscosity index improver that allows them to maintain a stable viscosity at a wide range of temperatures. We recommend this product for hydraulic systems with a wide range of operating temperatures as they are exposed to the elements or function intermittently and are constantly switched on and off, helping cold weather start-ups and protecting equipment.
REPSOL HIDRÓLEO	ISO 6743/4 HV, DIN 51524 HVLP AFNOR NF ISO 11158 VOITH 3625-008427 [ISO 32] FIVES CINCINNATI P-68, P-69, P-70	32, ..., 100	Oils with a high viscosity index that are suitable for operation over a wide range of temperatures, helping start-ups. Oils with zinc-free [ashless] additives that are suitable for the lubrication of hydraulic circuits that have demanding filter requirements.

Biodegradable Oils	Quality Levels	ISO Grades	Applications
 REPSOL BIO TELEX	ISO 6743/4 HEES DIN 51524 HV (exc. resistance to aging)	46, 68	Systems located in environmentally sensitive locations. Used over a wide range of temperatures [from -40 °C to 100 °C] in severe load and wear conditions.

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Enhanced Safety	Quality Levels	ISO Grades	Applications
REPSOL TELEX HFC	ISO 6743/4 HFC, ISO 12922 HFC 7TH LUXEMBOURG REPORT	46	An HFC-type (water-glycol mix), fire-resistant fluid recommended to substitute conventional oils in hydraulic applications when a potential oil leak could cause a fire after coming into contact with hot areas. Self-extinguishing oil.
REPSOL TELEX VULCANO	ISO 6743/4 HFDU, ISO 12922 HFDU 7TH LUXEMBOURG REPORT	68	Hydraulic fluid based on HFDU polyol esters. A fluid that strikes the perfect balance between hydraulic system lubrication and fire resistance. Suitable for use in the most demanding hydraulic circuits (high pressure) close to hot spots.

Products for public works	Quality Levels	ISO Grades	Applications
REPSOL TELEX W	DIN 51524 HV (exc. demulsification) ALLISON C-4 CATERPILLAR TO-2	SAE GRADE 10W-20	A hydraulic fluid specially designed to offer excellent performance in public works machinery that operates outdoors and needs a lubricant that protects equipment in cold start-ups.
TELEX HLPD	DIN 51524 HLPD	68	Recommended for use in systems that work in severe conditions where it is difficult to remove water from the lubrication circuit.

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PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Telex E 5			✓		
Telex E 10			✓		
Telex E 15			✓		
Telex E 22			✓	✓	
Telex E 32	✓	✓	✓	✓	
Telex E 46	✓	✓	✓	✓	✓
Telex E 68	✓	✓	✓	✓	✓
Telex E 100	✓	✓	✓	✓	
Telex HVLP 15			✓	✓	
Telex HVLP 22		✓	✓	✓	
Telex HVLP 32	✓	✓	✓	✓	
Telex HVLP 46	✓	✓	✓	✓	✓
Telex HVLP 68	✓	✓	✓	✓	✓

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PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Hydraulic SC 32	✓		✓		
Hydraulic SC 46	✓	✓	✓		
Hydraulic SC 68	✓	✓			
Hidróleo 32			✓		
Hidróleo 46	✓		✓		
Hidróleo 68	✓		✓		
Hidróleo 100			✓		
Hydroflux EP 32	✓	✓	✓	✓	
Hydroflux EP 46	✓	✓	✓	✓	✓
Hydroflux EP 68	✓	✓	✓	✓	✓
Hydroflux EP 100		✓	✓		

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Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Libra Hydraulic HLP 32	✓	✓	✓	✓	
Libra Hydraulic HLP 46	✓	✓	✓	✓	
Libra Hydraulic HLP 68	✓	✓	✓	✓	
Telex W	✓	✓	✓	✓	
Telex HLPD 68		✓			
Telex HFC 46	✓		✓		
Bio Telex 46		✓	✓		
Bio Telex 68			✓		
Telex Vulcano 68	✓		✓		
Vacuum Pump oil 10W					✓
Vacuum Pump oil 30					✓

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GEARS

The **oils** designed by Repsol **to lubricate enclosed gears** include mineral and synthetic oils to cover all application conditions and offer solutions to meet our customers' needs.

On the basic premises of protecting equipment against wear, all our oils have an optimal mix of additives that allows for an extraordinary load capacity in FZG testing, while also guaranteeing **the lubricant's anti-oxidation and anti-corrosion properties**. To do so, synthetic gear oils allow for prolonged periods between oil changes without any loss of lubrication and protection.

Repsol has designed a complete range of lubricating oils to overcome the technical challenges posed by the wide variety of **industrial gearboxes**. In the gear oils catalogue, you can also find solutions for lubricating equipment at risk of **micropitting** with Flender-approved products.



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REPSOL SUPER TAURO	ISO 6743/6 CKD, DIN 51517 CLP, AGMA 9005-E02-EP, AIST 224, Five Cincinnati P-Specs David Brown S1.53.101	68, ..., 1000	Oils recommended for the lubrication of all types of industrial gears that work in severe load conditions. Oils with extraordinary performance in the 4 ball EP test machine, offering unbeatable results compared to other similar products on the market.
REPSOL SUPER TAURO FND	ISO 6743/6 CKD, DIN 51517 CLP, Flender Rev. 13	320	Oils suitable for the lubrication of wind turbines, cement kiln gears, and paper mills. Excellent protection against failures due to micropitting. They achieve a mark of > 10 / High in the Grey Staining test FVA 54/III.
REPSOL SUPER TAURO SINTÉTICO	ISO 6743/6 CKT, DIN 51517 CLP, AGMA 9005-E02-EP, AIST 224, FIVES CINCINNATI: P-35 (460), P-59 (320);P-76 (100), P-77 (150), P-74 (220), SIEMENS MD FOR FLENDER GEAR UNITS REV.16 (ISO 220 A 460 VG)	100, ..., 460	Oils formulated with PAO synthetic base oils suitable for use in systems that operate at very high temperatures with extended oil change periods thanks to its high oxidation stability. They provide excellent protection against failures due to micropitting. They achieve a mark of > 10 / High in the Grey Staining test FVA 54/III. They are specially designed to offer prolonged lubrication in equipment that is difficult to access in order to reduce maintenance shutdowns and maximize profitability. These oils have the quality levels required for use in wind generator gears.
REPSOL SUPER TAURO PAG	ISO 6743/6 CKPR / CKGR, DIN 51517 CLP, AGMA 250-04, AIST 224 FLENDER (ISO 680 and 1000)	150, ..., 1000	Oils formulated with synthetic PAG (polyalkylene glycol) base oils. These lubricants were developed for use in applications that require excellent oxidation stability due to high operation temperatures. Suitable for the lubrication of drying oven bearings in cement factories. Excellent protection against failures due to micropitting. They achieve a mark of > 10 / High in the Grey Staining test FVA 54/III.
REPSOL SUPER TAURO GT	ISO 6743/6 CKD, DIN 51517 CLP, ANSI/AGMA 9005-E02, AIST 224 SIEMENS MD REV. 16 (FLENDER) HANSEN, MOVENTAS, WINERGY, FAG SCHÄFFLER, DAVID BROWN	320	Semi-synthetic oils approved by Flender with improved thermal stability and load capacity compared to mineral oils. Developed for use in wind turbine gears, they extend the time between oil changes without losing lubricating properties. Excellent protection against failures due to micropitting. They achieve a mark of > 10 / High in the Grey Staining test FVA 54/III.

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Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Super Tauro 68			✓		
Super Tauro 100			✓		
Super Tauro 150	✓	✓	✓	✓	
Super Tauro 220	✓	✓	✓	✓	
Super Tauro 320	✓	✓	✓	✓	
Super Tauro 460	✓	✓	✓	✓	
Super Tauro 680	✓		✓		
Super Tauro 1000			✓		
Super Tauro FND 320			✓		
Super Tauro GT 320			✓		

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Super Tauro Sintético 100				✓	
Super Tauro Sintético 150		✓		✓	
Super Tauro Sintético 220	✓	✓	✓	✓	
Super Tauro Sintético 320	✓		✓	✓	
Super Tauro Sintético 460			✓	✓	
Super Tauro PAG 150			✓		
Super Tauro PAG 220			✓		
Super Tauro PAG 320			✓		
Super Tauro PAG 460			✓		
Super Tauro PAG 680			✓		
Super Tauro PAG 1000			✓		

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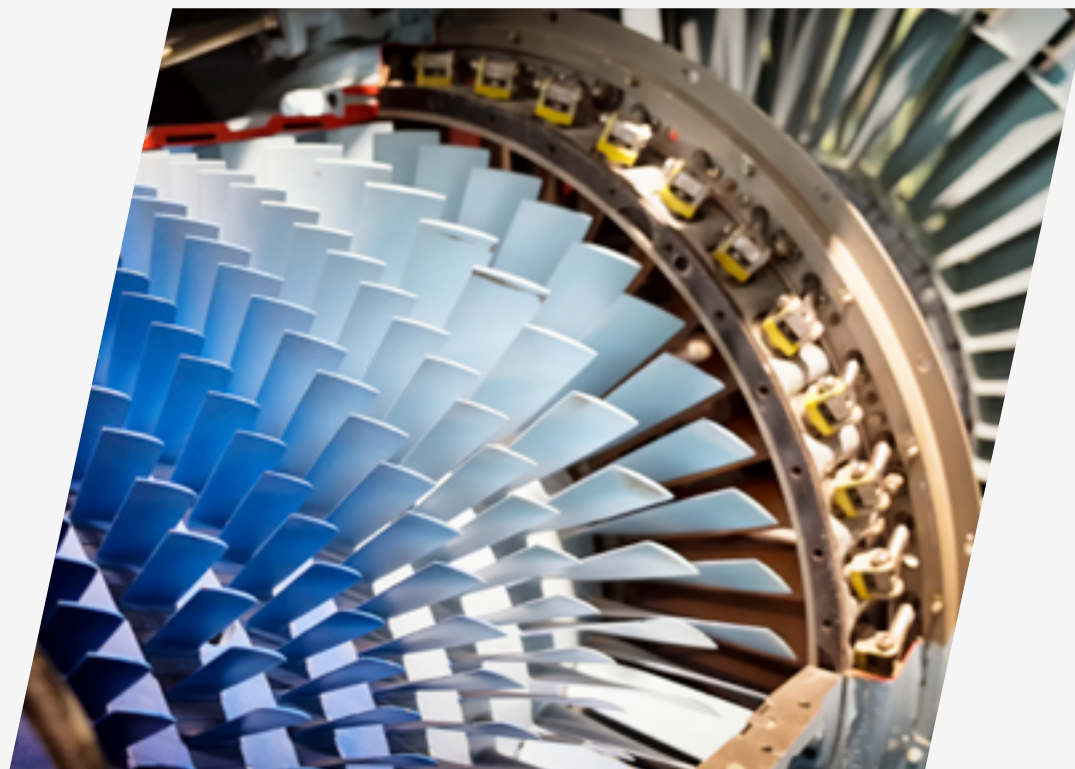
TURBINES

Repsol's range of turbine oils covers all the lubrication needs of modern equipment, from the turbines of hydroelectric plants to steam and gas turbines in combined cycle power plants, **ensuring the lubricant has a long service life.**

All oils **fulfill the majority of international quality standards**, as well as the most demanding requirements of equipment manufacturers such as Alstom, Siemens, Solar, or General Electric.

The high temperatures that can be reached in some state-of-the-art gas turbine bearings require lubricants that are highly resistant to oxidation. Thanks to the GIII base oils produced in its own facilities, Repsol has a wide variety of high-performance synthetic producesd that can take on the most demanding lubrication challenges.

The range is complemented by a specific oil for the control system of steam turbines, where high temperatures in the servo valves create the need for a specific synthetic fluid.



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Mineral Oils	Quality Levels	ISO Grades	Applications
REPSOL ARIES	ISO 6743/5 TGA/TSA, DIN 51515-L-TD, GEK 46506 E	15, ..., 220	Oils designed to lubricate hydraulic turbines that do not have high lubrication needs but require a product that works well in wet conditions. This product is able to demulsify thanks to the quality of the base oils used, thereby preventing corrosion and the hydrolysis of additives.
REPSOL TURBO ARIES	ISO 6743/5-TGB/TSA, DIN 51515-L-TD, ALSTOM HTGD90117, SIEMENS TLV 9013 04/05 (ISO 32 and 46), GEK 46506E, GEK 32568j, GEK 28143b, SOLAR ES9-224AA Class II	32, 46, 68	Oils specially developed to meet the demands of the manufacturers of steam or hydraulic turbines without a gearbox that require an oil with a long service life and good antioxidant properties. As they require a hydrodynamic lubrication system, an EP (extreme pressure) additive is not needed in the formulation. These oils remove air very quickly, preventing problems such as foaming and controlling the formation of lacquer, varnish, and other by-products of degradation thanks to the outstanding quality of the base oils.
REPSOL ARIES TURBO GAS	ISO 6743/5-TGE/TSE, DIN 51515-L-TDP, SIEMENS TLV 9013 04, GEK 46506E, GEK 32568j, GEK 28143b, GEK 101941A, SOLAR ES9-224AA Class II	32, 46	Oils developed for use in steam turbines with a gearbox. This type of applications in which the same oil circuit lubricates both the bearing and the gearbox require a product with carefully selected additives to protect the gear teeth without negatively affecting the lubrication of the turbine bearing.

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Synthetic Oils	Quality Levels	ISO Grades	Applications
REPSOL TURBO ARIES PLUS	ISO 6743/5 TGB/TSA, DIN 51515 LTGP, GEK 46506D, GEK 32568j, GEK 28143b, GEK 107395A (ISO 32), GEK 120498, SOLAR ES9-224AA Class II, MAN 10000494596 rev.02	32, 46	Zinc-free oils formulated with hydrotreated group III base oils, specially designed to provide state-of-the-art lubrication in gas and steam turbines or turbochargers without EP requirements that operate at high temperatures and call for high-performance lubricants. They are characterized by their excellent resistance to oxidation and chemical degradation, which significantly prolongs their service life.
REPSOL ARIES TURBO GAS CC	ISO 6743/5-TGE/TSE, DIN 51515-L-TGP, ALSTOM HTGD90117, SIEMENS TLV 9013 04 (ISO 32), GEK 46506E, GEK 32568j, GEK 28143b, GEK 101941A, GEK 107395A (ISO 32), GEK 120498, GEK 27070, SOLAR ES9-224AA Class II, MAN 10000494596 rev.02	32, 46	Synthetic oils formulated with hydrotreated group III base oils that have exceptional antioxidant properties, allowing them to fulfill the most recent specifications for gas turbines in TOST and RPVOT testing. The ideal lubricant for gas turbines with a gearbox that require high thermal stability to withstand the temperatures reached by the bearings, without forgetting the minimum EP additives necessary to protect the gear teeth.

High-safety Oils	Quality Levels	ISO Grades	Applications
REPSOL COMANDER BLUE EHC	ISO 6743/5-LTCD, ALSTOM HTGD 690149, GEK 46357, SIEMENS TLV 9012 03	46	Fire-resistant hydraulic fluid (HFDR) formulated with phosphoric acid esters. Recommended for use in the electric hydraulic control systems of steam turbines, including solenoid valve systems. This oil is approved by Siemens for this application.

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Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Aries Turbo Gas CC 32	✓	✓	✓		
Aries Turbo Gas CC 46	✓	✓	✓		
Turbo Aries Plus 32	✓	✓			
Turbo Aries Plus 46	✓	✓			
Aries Turbo Gas 32	✓		✓		
Aries Turbo Gas 46	✓	✓			
Turbo Aries 32	✓	✓	✓		✓
Turbo Aries 46	✓	✓	✓		
Turbo Aries 68	✓	✓	✓		
Turbo Aries EP	✓	✓	✓		
Comander Blue EHC 46			✓		

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COMPRESSORS AND REFRIGERATION EQUIPMENT

Repsol's oils for compressors and refrigeration equipment are designed to guarantee ultimate reliability and maximize efficiency, as they are key to ensure a smooth operation in industrial plants. Therefore, an essential part of maintenance systems is selecting the right lubrication system.

Repsol has designed a range of high-quality lubricants formulated using well refined base oils and cutting-edge additives. This allows them to meet all requirements of the different types of compressors on the market.

The Repsol lubricants range includes highly-refined paraffinic oils for normal working conditions, as well as other long-life synthetic oils for air compressors operating in more severe conditions.

The range is complemented by **oils for refrigeration systems** with both synthetic and naphthenic base oils, which are miscible and compatible with the various refrigerant gases commonly used in this type of equipment and ensure the compressor is correctly lubricated at low temperatures.



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Air Compressors	Quality Levels	ISO Grades	Applications
REPSOL ARIES	ISO 6743/3 DAB/DVA/DVC/DVE, DIN 51506 VCL	15, ..., 220	The higher viscosity index ensures excellent lubrication of reciprocating compressors. Minimal ash generation to avoid problems in compressor outlet valves.
REPSOL TURBO ARIES	ISO 6743/3 DAA/DAG, DIN 51506 VCL	32, 46, 68, EP	Lubrication oils suitable for use in screw compressors [ISO 32 and 46] or reciprocating compressors [ISO 68] that require excellent antioxidant properties and a good lubricant film to prevent wear.
REPSOL ARIES TURBO GAS CC	ISO 6743/3 DAB/DAH, DIN 51506 VDL	32, 46	Oils formulated with hydrotreated group III base oils that afford excellent performance in such severe oxidation conditions as the lubrication of screw compressors. During the compression stages, the oil travels with air at high temperatures, and the thermal stability of these lubricants ensures that the oil does not suffer premature degradation and lubricates the bearings correctly, while minimizing ash formation for 6,000 operational hours.
REPSOL MERAK VDL	ISO 6743/3 DAA/DAG, DIN 51506 VDL	32, 46, 68, 100	Lubrication of cylinders and rotary or reciprocating compressor mechanisms, whether air or inert gas compressors that have high discharge temperatures [up to 220 °C].
REPSOL SINTÉTICO THOR	ISO 6743/3 DAB/DAJ/DGE/DVE, DIN 51506 VDL	100	Lubrication of reciprocating compressors that operate in severe conditions, for rotary vane or screw compressors where the fluid allows for long periods between oil changes. This product can also be used in vacuum pumps and inert gas compressors.

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Refrigeration Equipment	Quality Levels	ISO Grades	Applications
REPSOL ICE OIL	ISO 6743-3B-DRA, DIN 51503 KAA , KC	32, 46, 68	Naphthenic oils for refrigeration compressors that use freon, R12, R22, ammonia, or carbon dioxide as a refrigerant. They guarantee that compressors are protected at low temperatures and are highly miscible/compatible with the gases being used.
REPSOL ICE OIL S	ISO 6743-3B-DRD, DIN 51503KD and approved by several manufacturers, including DANFOSS COMMERCIAL (scroll and piston) for ISO 32, BITZER (screw), FRASCOLD (piston), BLISSFIELD (piston) for ISO 68, and DORIN (piston).	32, 68	POE-based synthetic oils for use in compressors that mainly use HFC refrigerants (R-134a). These oils do not lose viscosity when they come into contact with this type of gases, thereby ensuring that the system is lubricated correctly.

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Merak VDL 32			✓		
Merak VDL 46	✓	✓	✓	✓	
Merak VDL 68			✓	✓	
Merak VDL 100			✓		✓
Sintético Thor 100				✓	
Aries 15			✓		
Aries 22			✓		
Aries 32	✓	✓	✓		
Aries 46		✓	✓		

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Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Aries 68	✓	✓	✓	✓	
Aries 100	✓	✓	✓		
Aries 125			✓		
Aries 150	✓	✓	✓		
Aries 220	✓	✓	✓		
Ice Oil 32		✓	✓		
Ice Oil 46			✓		
Ice Oil 68			✓	✓	✓
Ice Oil S 32					✓
Ice Oil S 68					✓

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COMPRESSORS
AND REFRIGERATION EQUIPMENT

PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Turbo Aries 32	✓	✓	✓		✓
Turbo Aries 46	✓	✓	✓		
Turbo Aries 68	✓	✓	✓		
Turbo Aries EP	✓	✓	✓		
Aries Turbo Gas CC 32	✓	✓	✓		
Aries Turbo Gas CC 46	✓	✓	✓		

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INSULATING OILS

Repsol's insulating oils offer top performance, reliability, and safety, making them the most popular choice for use in transformers and switchgear.

Both the **Repsol Electra** and **Repsol Centauro** ranges, which have inhibited and non-inhibited products, have a high oxidation stability, good dielectric strength, and excellent properties at low temperatures. They ensure there are no impurities such as dissolved gases, water, or solids in suspension.

In addition, **all of these products meet the requirements of international standards** such as the IEC 60296 and the ASTM D3487. They have been validated and used by a wide variety of electricity companies and transformer and electrical equipment manufacturers. Furthermore, Repsol Electra 3X Plus meets the requirements of section 7.1 of the IEC 60296 standard, with higher oxidation stability and a low sulfur content.

The range is complemented by two biodegradable products. **Repsol Bio Electra** and **Repsol Bio Electra Synth**, formulated with refined vegetable oils and synthetic esters, respectively. Thanks to their chemical composition, they are highly biodegradable and extremely fire-resistant. This makes them highly recommended for use in areas that, apart from demanding technical requirements, call for elevated safety conditions.

Discover all the products in our [Insulating Oils Catalogue](#).



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HEAT TRANSFER

Repsol's oils are designed for heat transfer processes, which are crucial in a large number of industries.

Repsol has worked on developing efficient lubricants for use in these processes in closed heating systems.

These oils allow for rapid **heat transfer**, which leads to high energy efficiency. They are characterized by their long service life thanks to their resistance to degradation and to sludge formation.



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HEAT TRANSFER

Heat Transfer	Quality Levels	Applications
REPSOL MULTIGRADO TÉRMICO	ISO 6743/12-QB, DIN 51522-Q	Heat transfer fluid with specific additives to obtain high levels of oxidation stability. For use in enclosed circuits that reach maximum temperatures of 300 °C.
REPSOL MULTIGRADO TÉRMICO SINTÉTICO	ISO 6743/12-QC	Synthetic heat transfer fluid with special additives to obtain extraordinary oxidation stability. For use in enclosed circuits that reach maximum temperatures of 315 °C.
REPSOL HELIOTERMO 2250 UF	ISO 6743/12-QA, DIN 51522-Q	Heat transfer fluid with high oxidation stability. For use in electric radiators.

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HEAT TRANSFER

PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Multigrado Térmico Sintético	✓	✓	✓		
Multigrado Térmico	✓	✓	✓		
Heliothermo 2550 UF	✓				

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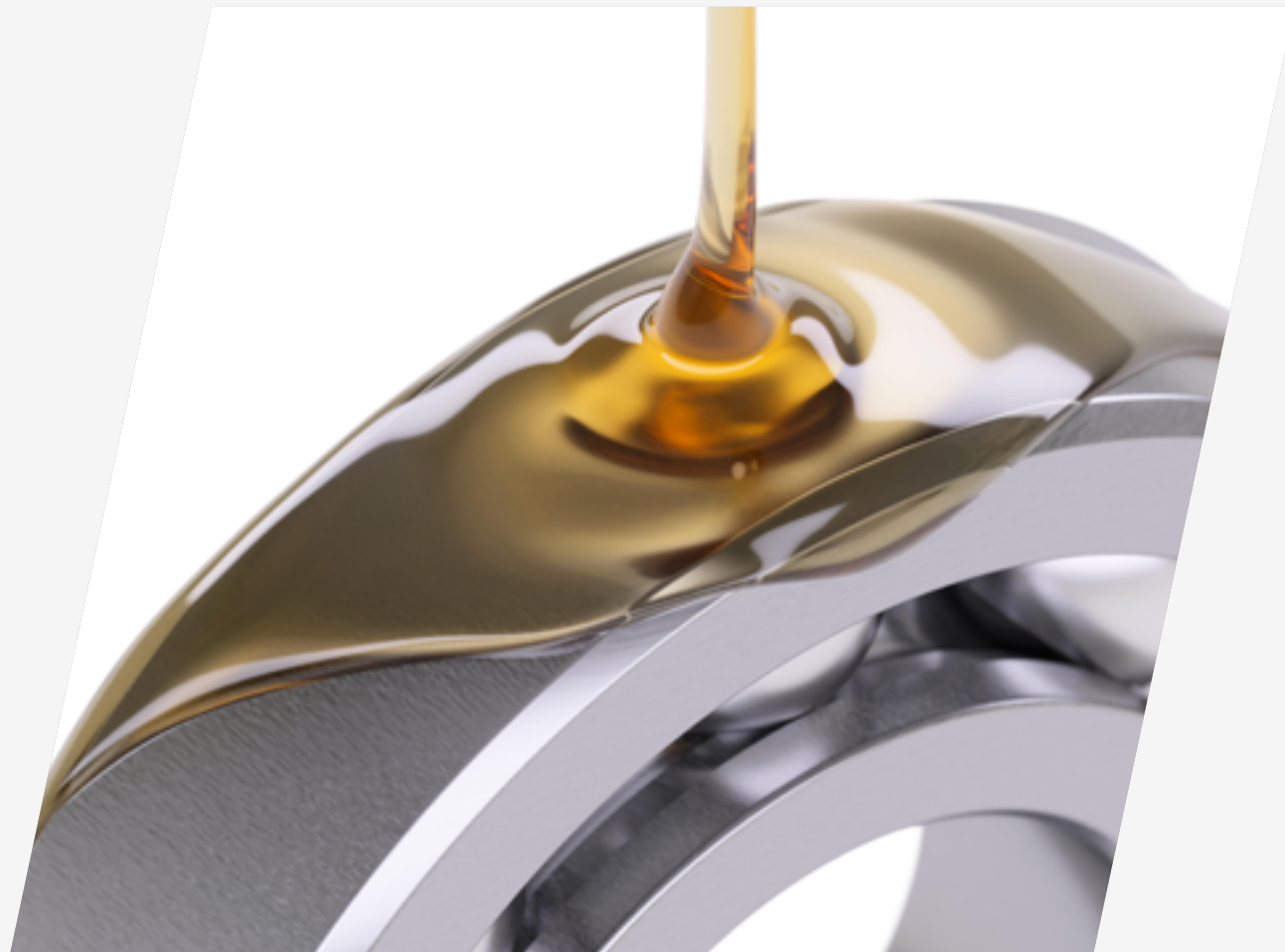
Biodegradable

— CIRCULATION —

Repsol's circulation lubricants provide the strength and reliability required by large bearings.

They also have excellent water removal properties, making them especially suitable for use in damp environments such as paper factories, as well as for general lubrication [with or without high pressure].

They are all prepared in the viscosity grades traditionally used to lubricate rolling mill bearings and meet the requirements of the bearing manufacturer MORGOIL.



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CIRCULATION

Circulation	Quality Levels	ISO Grades	Applications
REPSOL CIRCULACIÓN	FC class, in accordance with ISO 6743/2. Meets the requirements of the manufacturers of MORGOIL bearings.	220, 320, 460, 680	Fluid for lubricating bearings subjected to severe operating conditions (such as rolling mills), in addition to industrial gears that work in non-demanding conditions or the sumps of some compressors.
REPSOL CIRCULACIÓN EP	FD class, in accordance with ISO 6743/2. Meets the requirements of the manufacturers of MORGOIL bearings.	100, 220, 320, 460	Fluid for lubricating bearings subjected to very severe operating conditions (such as rolling mills), in addition to industrial gears that withstand medium loads.

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CIRCULATION

PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Circulation 220	✓		✓		
Circulation 320	✓				
Circulation 390	✓		✓		
Circulation 460	✓		✓		
Circulation 680	✓		✓		
Circulation EP 100	✓	✓			
Circulation EP 220	✓		✓		
Circulation EP 320	✓	✓			
Circulation EP 460		✓			

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FOOD GRADE

Repsol's Food Grade lubricants meet the most demanding lubrication needs of the food processing industry and its machinery, where lubricants may accidentally come into contact with food items.

This range is able to protect against wear, corrosion, and deposit formation inside machinery in the same way as conventional oils with a special formulation to meet the highest quality standards demanded by the food industry (NSF category H1).

Discover all the products in our [**Food Industry Lubricants Catalogue**](#).



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METAL INDUSTRY

Repsol's various oil ranges for metal industries cover the majority of current demands in this industry: **Repsol Ibercut, Ibertem, Empatem, and Laminox.**

The high quality of the base oils and the carefully selected additives make it **an excellent choice to optimize any metal industry operations**, from the initial extraction and subsequent purification of metals to cutting, polishing, tempering, and corrosion protection operations, including transformation processes such as continuous casting and rolling.

Given the demanding requirements and large number of processes, on many occasions the Repsol team develops ad-hoc products for a specific application.



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METAL INDUSTRY

Sector	Name		Viscosity at 40 °C	Viscosity at 100 °C	Applications
CONTINUOUS CASTING	REPSOL EMPATEM	CC-30 G	54	8.6	Oils that are specially recommended to help remove melted stainless steel ingots from molds after being prepared in the furnace.
		CC-30 GS	32	6	
		CC-30 H	110	12	
		CC-50 GS	50	8.3	
CUTTING	REPSOL IBERCUT	12 AM	11	2.8	Oils for use in the general machining of steel and alloys. Lubrication in chip removal machining mechanisms. They meet ISO 6743/7 category ISO-L-MHE. EDM-2 meets ISO 6743/7 category ISO-L-MHE.
		20 C	27	4.9	
		30 A	27	4.9	
		20 A	22.5	4.4	
		10 AM EP	10	2.7	
		EDM-1	2.33	-	
		EDM-2	3.3	1.2	
POLISHING	REPSOL METAL	200	12	3	Oils for polishing stainless steel.
		300	12	3	
ROLLING	REPSOL LAMINOX	1197	10	2.65	Oils for use in the cold rolling of ferretic and austentic stainless steel with a low carbon content. It meets ISO 6743/7 category ISO-L-MHB.
		G 3000	7.8	2.3	
		G 50	4.9	1.7	

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METAL INDUSTRY

Sector	Name		Viscosity at 40 °C	Viscosity at 100 °C	Applications
DEFORMATION PROCESSES	REPSOL TREFI 20		60	6.5	Oils designed for deformation, stretching, drawing, cupping, shaping, and stamping applications.
PROTECTION	REPSOL ANTIX F		11	3	Oils to protect against corrosion and displace water. It meets ISO 6743/8 category ISO-L-REE.
TEMPERING	REPSOL IBERTEM	15 15-R 24 34 99-F	24 24 32 65 215	4.5 4.5 5.4 8.3 18.5	Oils for steel tempering, with suitable cooling speeds for the corresponding process.

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METAL INDUSTRY

PACKAGING						
Application	Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Continuous casting	Empatem CC 30 G	✓				
Continuous casting	Empatem CC 30 GS	✓				
Continuous casting	Empatem CC 30 H		✓			
Continuous casting	Empatem CC 50 GS	✓	✓			
Cutting and polishing of metals	Ibercut 10 AM EP		✓			
Cutting and polishing of metals	Ibercut 12 AM	✓	✓			
Cutting and polishing of metals	Ibercut 20 A	✓				
Cutting and polishing of metals	Ibercut 20 C	✓	✓			
Cutting and polishing of metals	Ibercut 30 A	✓		✓		
Cutting and polishing of metals	Ibercut EDM 1	✓				
Cutting and polishing of metals	Ibercut EDM 2	✓		✓		
Cutting and polishing of metals	Metal 200	✓				
Cutting and polishing of metals	Metal 300	✓				

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METAL INDUSTRY

PACKAGING						
Application	Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Rolling and deformation processes	Laminox 1197	✓	✓	✓		
Rolling and deformation processes	Laminox G 3000	✓	✓			
Rolling and deformation processes	Laminox G 50	✓				
Rolling and deformation processes	Trefi 20	✓				
Protection	Antix F	✓		✓		
Tempering	Ibertem 15	✓	✓			
Tempering	Ibertem 15 R	✓				
Tempering	Ibertem 24	✓				
Tempering	Ibertem 34	✓	✓			
Tempering	Ibertem 99 F	✓	✓			

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SPECIAL APPLICATIONS

The different types of **Repsol lubricating oils for special applications** are developed to cover most of the industry's needs in any transformation process. From mold release agents to products for valve control, including ad-hoc developments for the **specific uses** of large customers.



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SPECIAL APPLICATIONS

Special Applications	Quality Levels	ISO Grades	Applications
REPSOL ZEUS GUÍA	ISO 6743/4-HG (ISO 32 Y 68), DIN 51524, part 2 HLP: ISO 32 and 68, ISO 6743/13-G, DIN 51517, part 3 CLP: ISO 220, FIVES CINCINNATI P-47 (ISO 68), P-50 (ISO 220), P-53 (ISO 32)	32, 68, 150, 220	Oils for the lubrication of horizontal and vertical machine-tool slideways. The ISO 32 and 68 grades can also be used as a hydraulic fluid in systems that require lubrication of the slideways, in addition to the hydraulic circuit.
REPSOL HELEN 140/240	DIN 51510 – ZA (grade 140) and ZB (grade 240), ISO 6743/12 – Q, ISO 6743/6 – CKB	460, 1000	Oils recommended for use in steam machine cylinders, as well as multipurpose lubrication and gears, or other elements that could operate at high temperatures. They can also be used as heat transfer fluid in open thermal circuits.
REPSOL ASTRA	ISO 6743 / 11 – PAC and PBC. Meets the requirements of the main OEMs: Atlas Copco, Ingersol Rand, Gardner Denver, etc.	46, 100, 150	Fluid for the lubrication of drills, hammers, and pneumatic tools that operate in severe conditions, as well as pneumatic mechanisms requiring a product that is able to capture moisture and prevent it from coming into contact with metallic surfaces (demulsification rig values of 0-0-80 after 30 minutes).
REPSOL GASÓMETRO	ISO 6743/2 - FC, DIN 51517 part 2-CL, DIN 51524 - HL	68, 100	Product specifically designed to seal gas storage tanks. Stands out due to its excellent demulsibility.

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SPECIAL APPLICATIONS

Special Applications	Viscosity at 40 °C	Viscosity at 100 °C	Applications
REPSOL DESMOLDOIL 90	11	3.3	Oils formulated to act as a mold release agent on any type of surface, such as metal or iron.
REPSOL DESMOLDOIL L	24	4.3	
REPSOL DESMOLDOIL PU	9.8	2.7	
REPSOL DESMOLDOIL P	24	4.3	Oils formulated to act as an aluminum mold release agent, thanks to their exceptional oiliness.
REPSOL DESMOLDOIL A	22	5.5	Water-based mold release oils with appropriate additives, designed to release pieces of concrete from wood, iron, etc.
REPSOL DESMOLDOIL R	24	4.8	Mold release oils formulated using highly refined mineral base oils and high-quality regenerated base oils that prevent concrete from adhering to formwork.
REPSOL PRO-50	11.5	3.2	Process oils formulated with highly refined paraffinic base oils, which give the product high oxidation stability at high temperatures.
REPSOL PRO-70	25	4.3	
REPSOL PRO-100	62	8.1	
REPSOL PRO-150	100	11	Hydraulic control fluid with a water/glycol base that is specifically formulated for use in subsea production control systems. It is biodegradable and does not accumulate on marine surfaces.
REPSOL HIDRAPLATFORM	2.21	-	

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SPECIAL APPLICATIONS

PACKAGING						
Application	Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Mold release agents	Desmoldoil 90	✓		✓		
Mold release agents	Desmoldoil A	✓				
Mold release agents	Desmoldoil L	✓	✓	✓		
Mold release agents	Desmoldoil P			✓		
Mold release agents	Desmoldoil PU	✓				
Mold release agents	Desmoldoil R	✓				
Slideways	Zeus Guía 150			✓		
Slideways	Zeus Guía 220		✓	✓		
Slideways	Zeus Guía 32			✓	✓	
Slideways	Zeus Guía 68	✓	✓	✓	✓	

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SPECIAL APPLICATIONS

PACKAGING						
Application	Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Pneumatic tools	Astra 100			✓	✓	
Pneumatic tools	Astra 150			✓		
Pneumatic tools	Astra 46			✓		
Steam-powered machinery	Helen 140	✓		✓		
Steam-powered machinery	Helen 240			✓		
Valve controls	Hidraplatform		✓			
Gasometer	Aceite gasómetro	✓				
Gasometer	Aceite gasómetro 100	✓				

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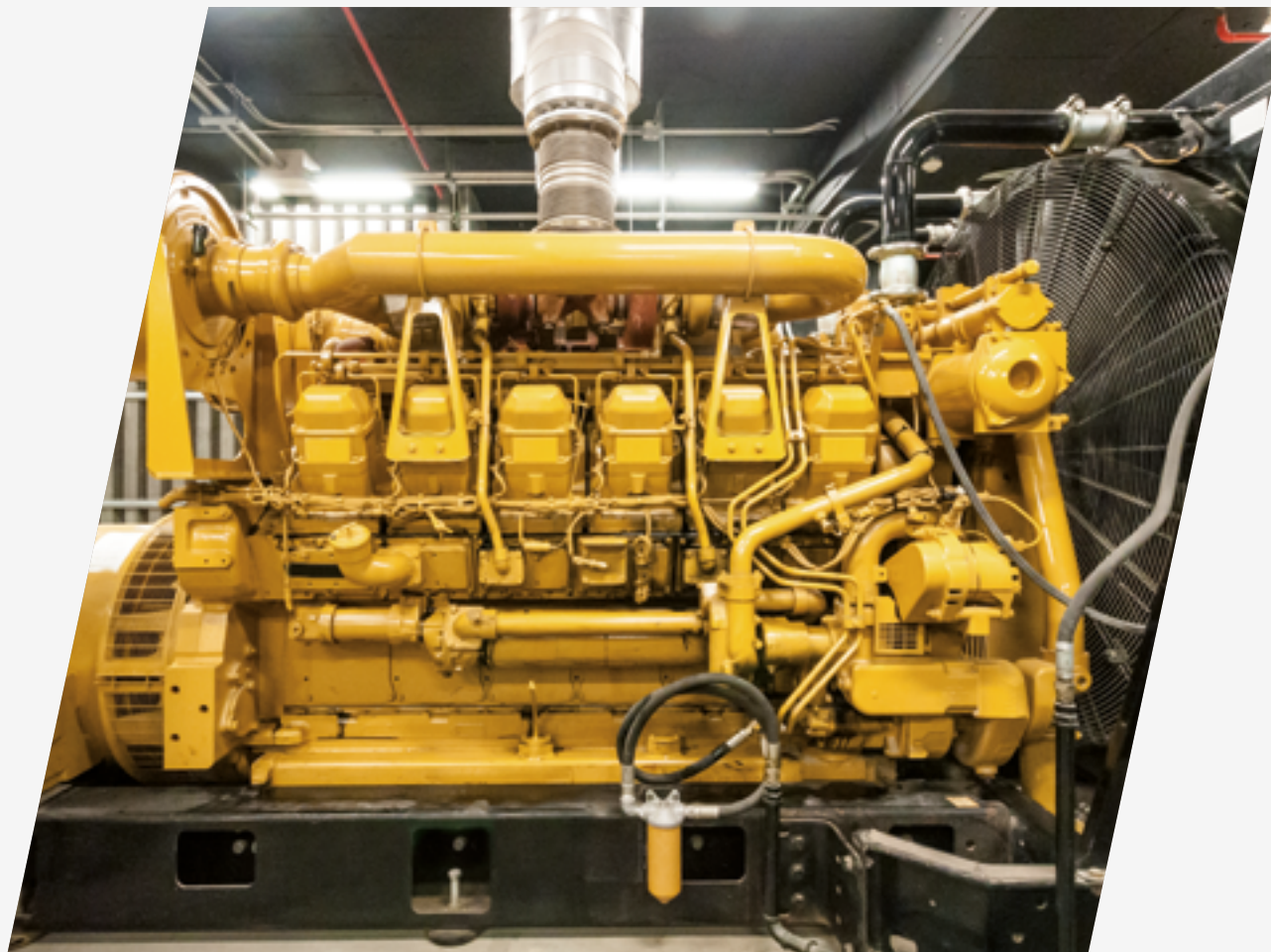
GAS COGENERATION

Repsol's range of oils for gas motors covers the needs for this market, adapting to the demands of each type of customer by motor, type of gas, and application.

Repsol's constant technological innovation has led to a range of lubricants that perfectly meet the needs associated with **gas cogeneration**.

They offer significant benefits and are approved by the main motor manufacturers (MWM Deutz, INNIO Jenbacher, MAN, Rolls Royce, WÄRTSILÄ, and Cummins). They also meet the technical requirements established by Caterpillar and Waukesha, among others.

Discover all the products in our **Cogeneration Lubricants Catalogue**.



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MULTI-PURPOSE

Repsol's range of multi-purpose lubricants have excellent oiliness and give equipment the protection they need in total loss applications.

It also includes **biodegradable** fluids that, in addition to protecting the machinery, do not harm the environment.



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MULTI-PURPOSE

Multi-purpose	Applications
REPSOL MULTIUSO EXTRA	Fluid for general lubrication in total loss applications. Highly recommended for the lubrication of chainsaws.
REPSOL V	Fluid for multi-purpose lubrication with excellent oiliness and resistance to aging that is suitable for use in total loss applications or with no high demanding requirements.
REPSOL BIO MULTIUSO EXTRA	Biodegradable fluid formulated with plant-based esters for use as a multi-purpose lubricant or in total loss applications.

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MULTI-PURPOSE

Processes

PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
PRO 100	✓				
PRO 150	✓				
PRO 50	✓		✓		
PRO 70	✓	✓			

Multi-purpose

PACKAGING					
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle
Bio Multiuso Extra 68			✓		✓
Multiuso Extra 30	✓		✓	✓	✓
Multiuso Extra 40	✓		✓	✓	✓
V 46			✓		

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GREASES

Repsol's greases are formulated with cutting-edge additives to cover all the market's needs.

The range of products developed includes multi-purpose **greases** to meet the lubrication requirements of the majority of facilities, as well as **special products** designed to work in highly demanding conditions due to the loads, temperatures, or environmental contamination.

Meeting the specifications set by the most stringent quality regulations and standards, thanks to their exclusive formula our greases deliver excellent performance in all types of machinery, increasing their service life and providing extra reliability, making Repsol's greases the best investment for your business.

Discover all the products in our [**Greases Catalog**](#).



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BIODEGRADABLE

Repsol's oils for biodegradable products are designed with the challenges facing the industry in mind.

An industry that faces increasingly demanding environmental regulations and requires biodegradable products that do not pollute the environment where they are being used in the event of an accidental spill, also guaranteeing the characteristics required by the machinery.



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BIODEGRADABLE

Range	Products	Applications
 Hydraulic	REPSOL BIO TELEX 46 and 68	Synthetic and biodegradable fluid designed to replace conventional oils when there is a need for or an interest in biodegradable fluids. EcoLabel-certified product. ISO HEES.
Multi-purpose	REPSOL BIOMULTIUSO EXTRA 68	Formulated with plant-based esters for use as a multi-purpose lubricant or in total loss applications.
Insulating oils	REPSOL BIO ELECTRA and REPSOL BIO ELECTRA SYNTH	Both of these biodegradable oils allow for higher safety and display excellent dielectric performance. BIOELECTRA is made using specifically selected plant-based base oils, which gives this product exceptional oxidation stability. BIOELECTRA SYNTH is designed for extremely cold climates.
 Grease	REPSOL BIOGRASA CÁLCICA EP 2	Formulated using biodegradable products for use in situations where leakages or spills are a possibility, such as dam floodgates, agricultural machinery, or forest work. EcoLabel-certified product.

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BIODEGRADABLE

PACKAGING						
Product	Bulk	1000 L Container	208 L Drum	20 L Drum	5 L Bottle	45 kg Drum
Bio Telex 46		✓	✓			
Bio Telex 68			✓			
Biomultiuso Extra 68			✓		✓	
Bio Electra	✓	✓	✓			
Bio Electra Synth	✓	✓				
Biograsa Cálcica EP 2						✓

Sectors

Paper mills

Cement

Iron and steel industry

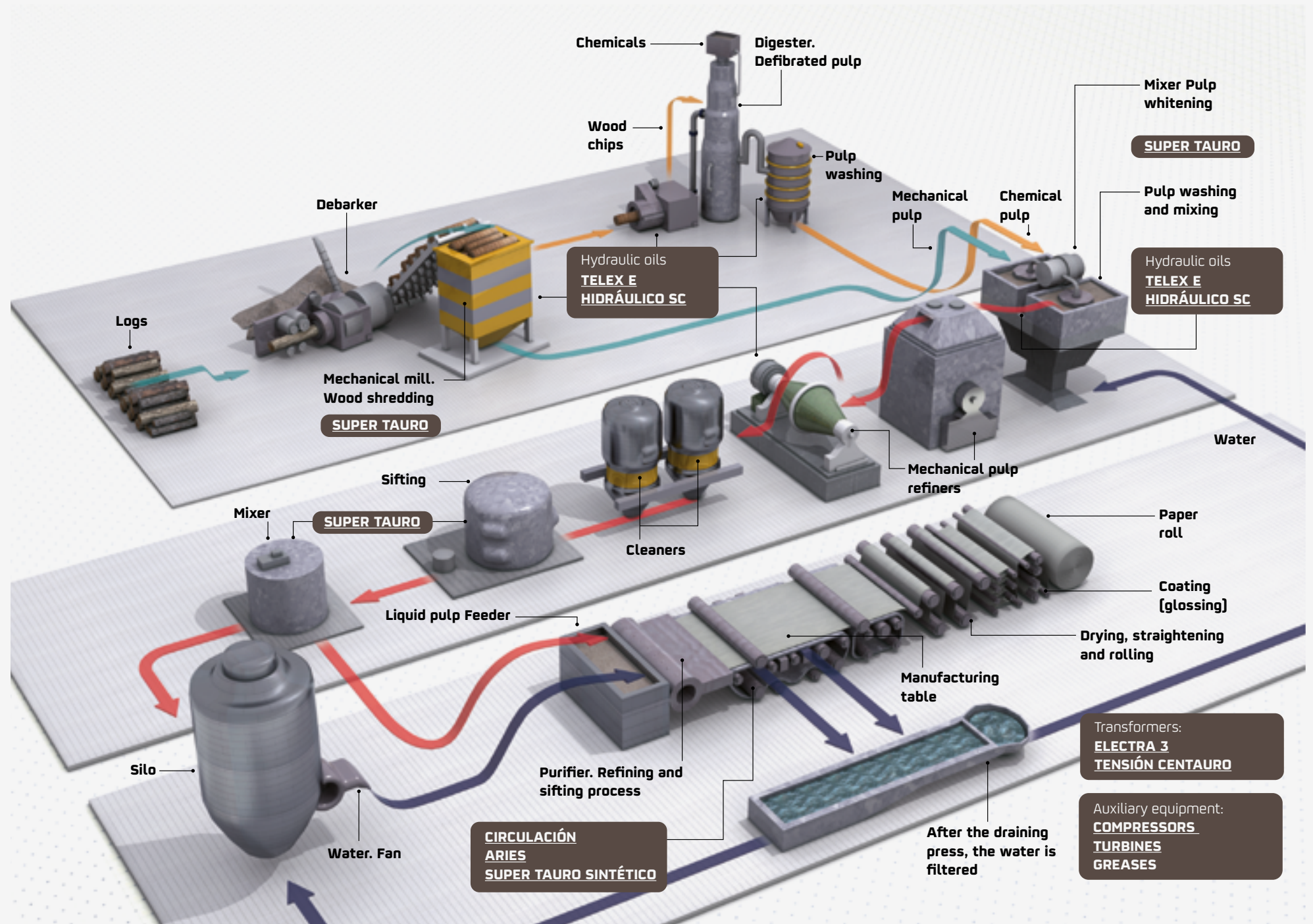
Chemicals industry

Power generation

Mining

Food industry

PAPER INDUSTRY



Sectors

Paper mills

Cement

Iron and steel industry

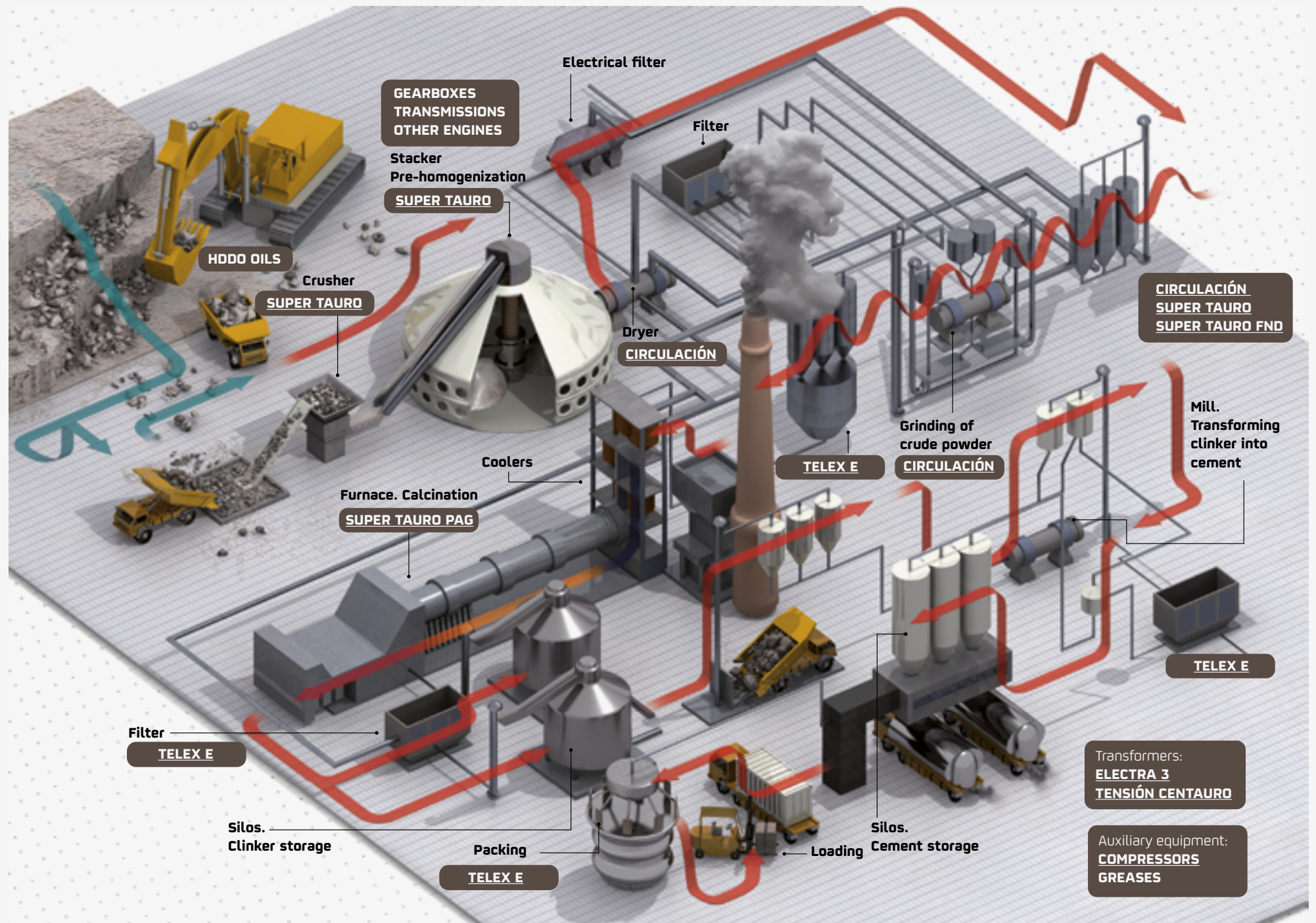
Chemicals industry

Power generation

Mining

Food industry

CEMENT INDUSTRY



Sectors

Paper mills

Cement

Iron and steel industry

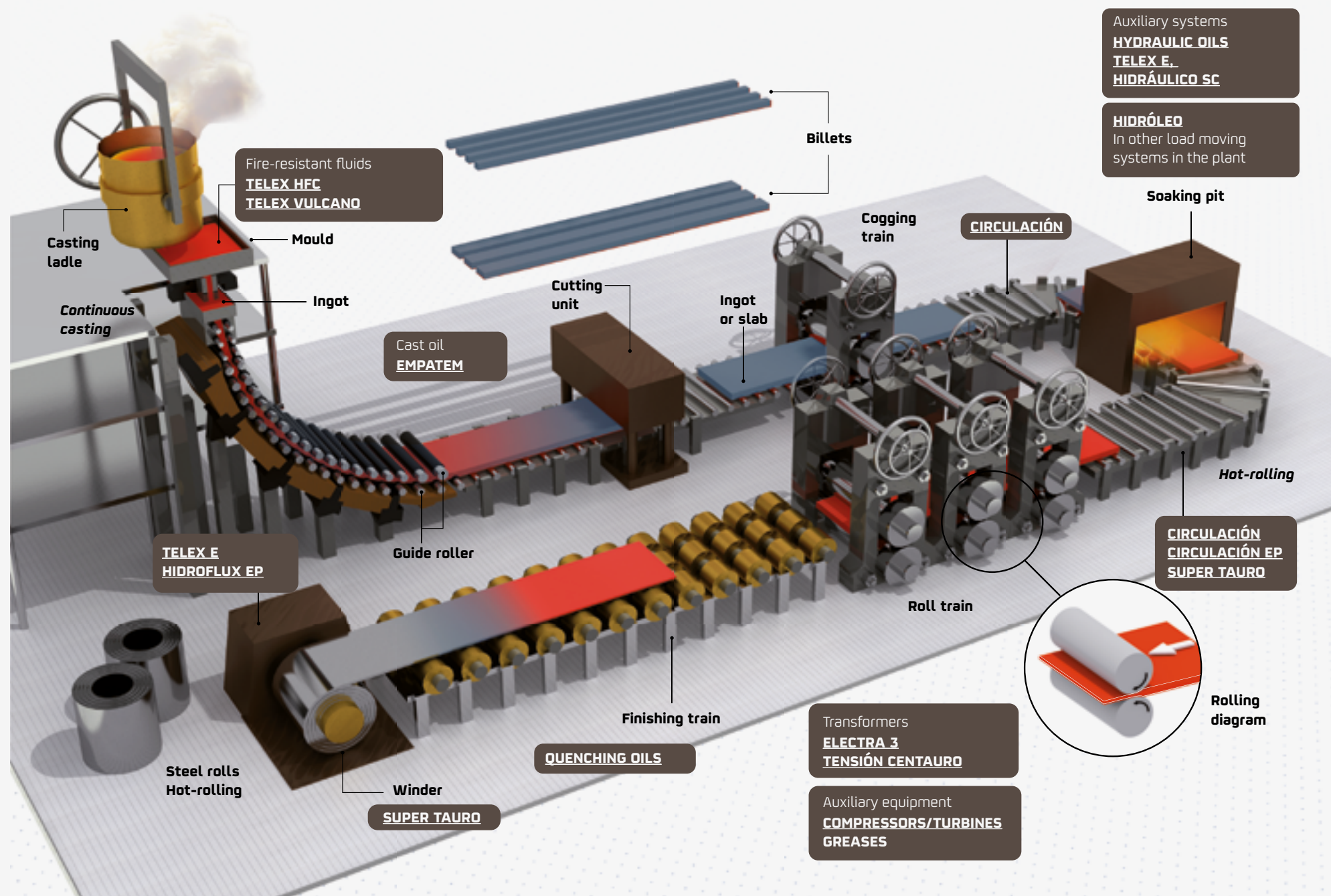
Chemicals industry

Power generation

Mining

Food industry

CONTINUOUS CASTING AND HOT ROLLING INDUSTRY



Sectors

CHEMICAL, REFINING, FERTILIZER, AND INDUSTRIAL GAS INDUSTRIES

Paper mills

Cement

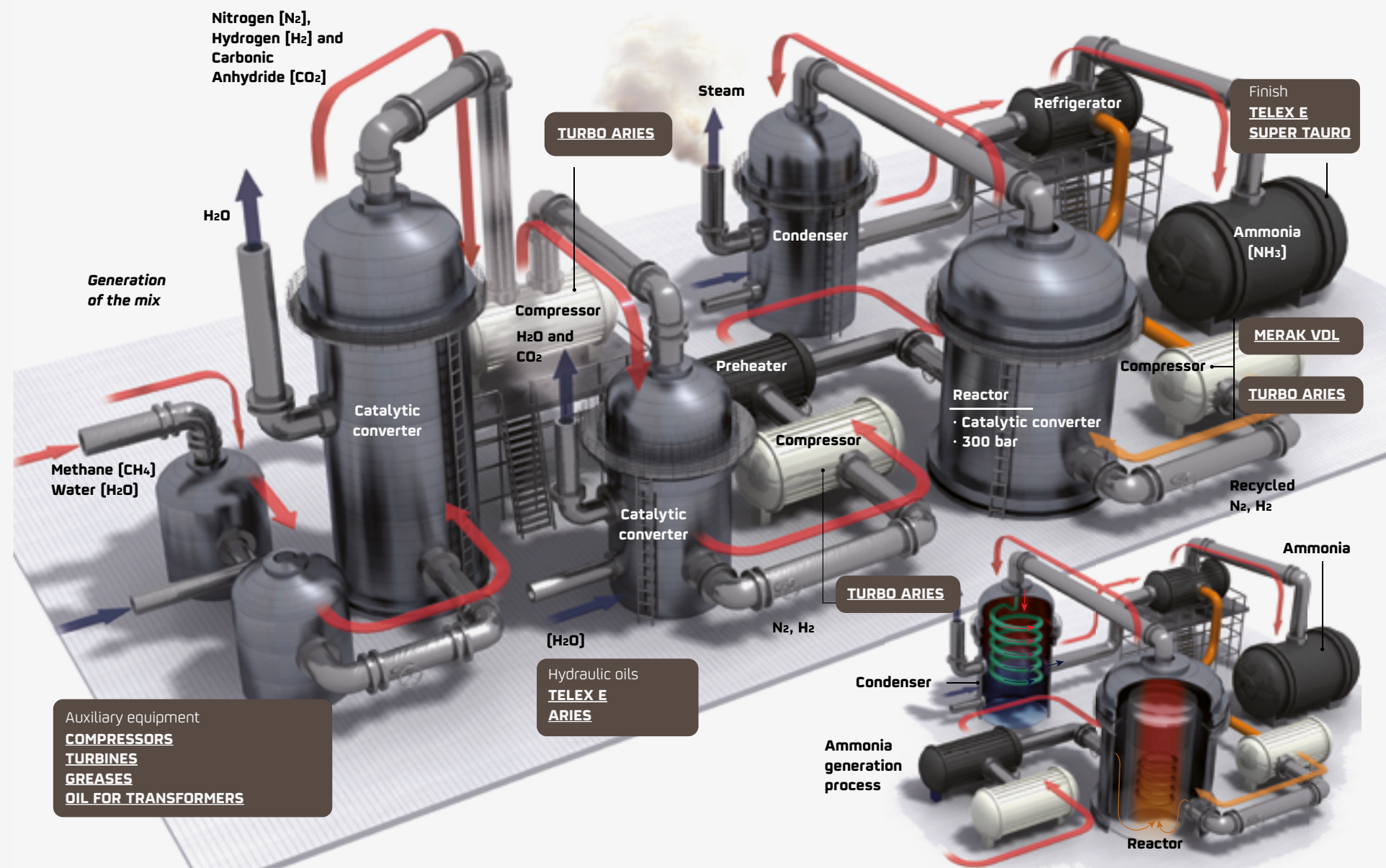
Iron and steel industry

Chemicals industry

Power generation

Mining

Food industry



Sectors

POWER GENERATION INDUSTRY

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Cement

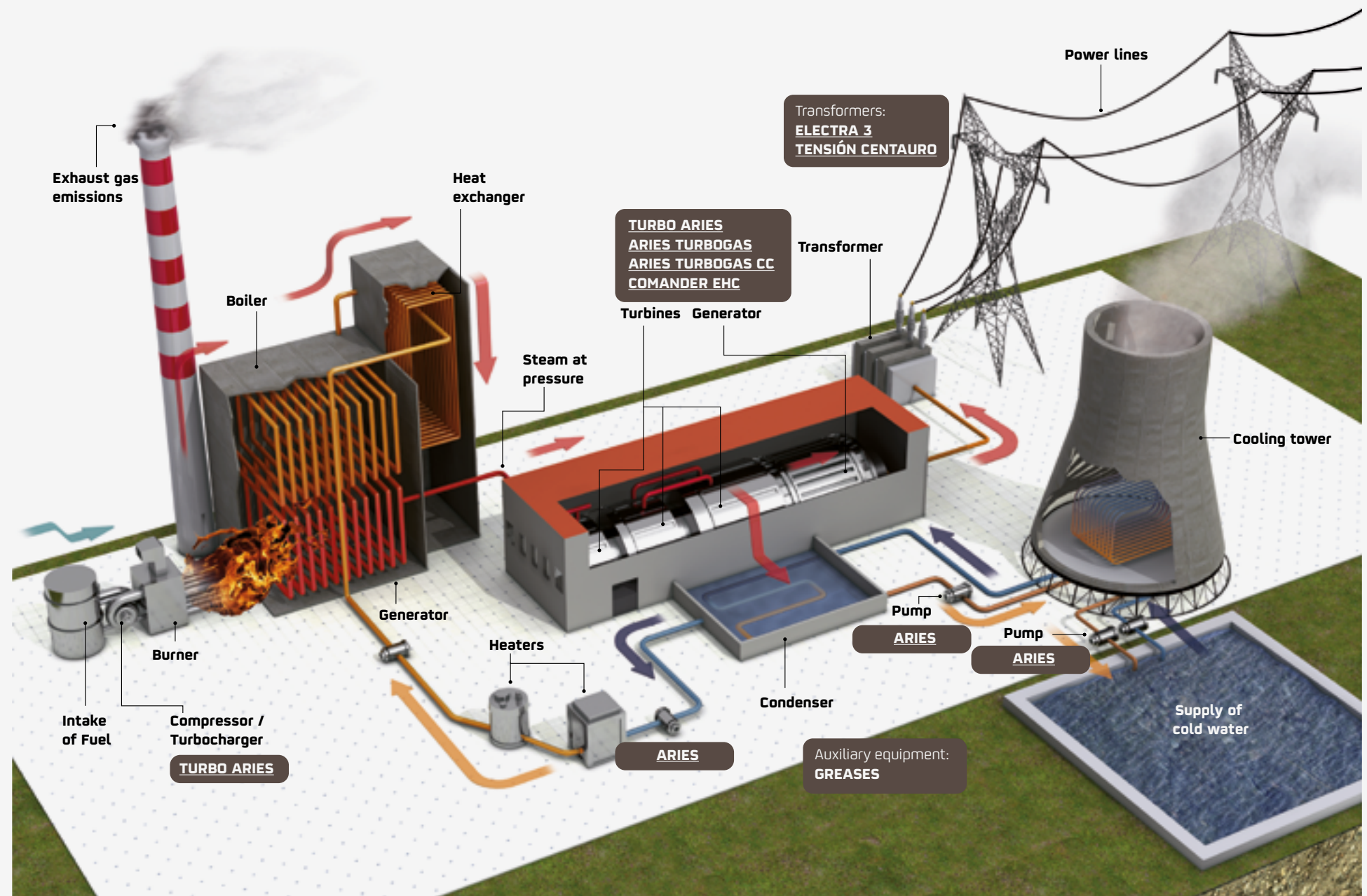
Iron and steel industry

Chemicals industry

Power generation

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Food industry



Sectors

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Cement

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MINING, QUARRYING, AND AGGREGATES INDUSTRY

