

Miretti Group

overview



about Miretti Group



- Miretti has been leader since 1973 in the Explosion Proof Protection of mobile vehicles, engines and industrial
 equipment and boasts impressive experience in the field.
- The company operates all over the world with branches in Italy (head office), USA, Singapore, China, Germany, UK, France, Spain, Hungary, Benelux, Middle East, Algeria, Israel, Australia.
- Miretti is ISO 9001, ISO14001 and ISO 45001 certified and is an approved supplier for the most important world producers. Constant research focuses on new technologies and innovative solutions.
- All explosion proof conversions are developed and implemented in agreement with OEM Original Equipment Manufacturers to maintain original safety levels and ergonomics in conformity with local standards and regulations.
- Miretti ensures a reliable after-sales service, qualified technicians, quality and fast maintenance.
- Miretti Group has also been on the market since 1973 as a supplier of SCR DeNOx Systems, Catalysts, Ecological Kits thanks to many years of experience also in the field of **Exhaust Cleaning Solutions** reducing exhaust pollutants.





Certifications





Miretti Safety Systems & Services certified according to worldwide standards ATEX, IECEx, NEC.







Worldwide Standards

Miretti are approved and certified to manifacture and supply products that comply with various world-wide accepted standards for equipment operating in hazardous areas.

Standards:

- EN 1834-1:2000 "Reciprocating internal combustion engines –
 Safety requirements for design and construction of engines for use in potentially explosive atmospheres Group II engine for use in flammable gas and vapor atmospheres
- IEC 60079 Series
- NEC 500 V Electrical system: FM Class 3600:2011,
 FM Class 3610:2010, FM Class 3611:2009, FM Class 3615:2006.

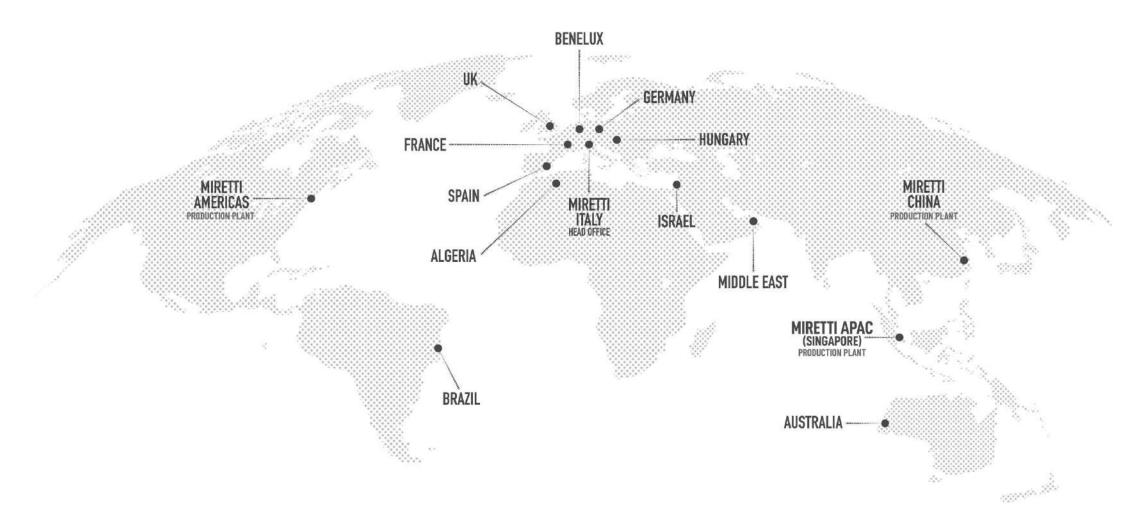
Certifications:

- Mark: II 3G IIA T3 Gc
- Class I Division 2 Group C&D T3
- ATEX Directive 2014/34/EU



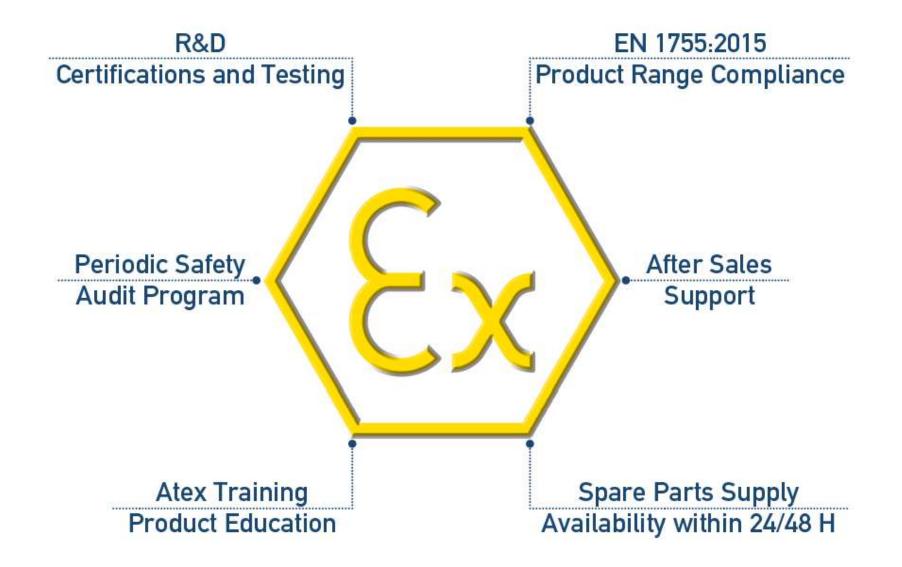
Global Footprint Global Support

«by the customer's side, globally»





Support for Atex Systems and Services anywhere in the world





Why is the explosion proof transformation mandatory in areas classified as dangerous





What can Miretti do for Oil&Gas?





Oil & Gas

We are specialized in the Oil & Gas industries offering:

- Top Quality
- IP protected
- Innovative and fully certified systems for oilfield equipments
 - Power Packs
 - Compressor units
 - Gensets
 - Cement units
 - > Others....







Miretti Group can provide worldwide....

Ex Engine Power Systems



Ex Engine Powerpacks /Full Conversions

Ex Engine Kits for local installation



Thanks to:

- Research & Development
- Technical Department with mechanical and electrical engineers
- Certification Department

Ex Engine Powerpacks / Full Conversions

Full conversion and complete project builds in compliance with **Zone 2 (ATEX) Kits, Class I Div. 1-2 (US), Tier 4 Engine, IECEx**

Ex testing and third party certification included, available through Miretti factories in Italy (head quarter), USA, Europe, Singapore and China.

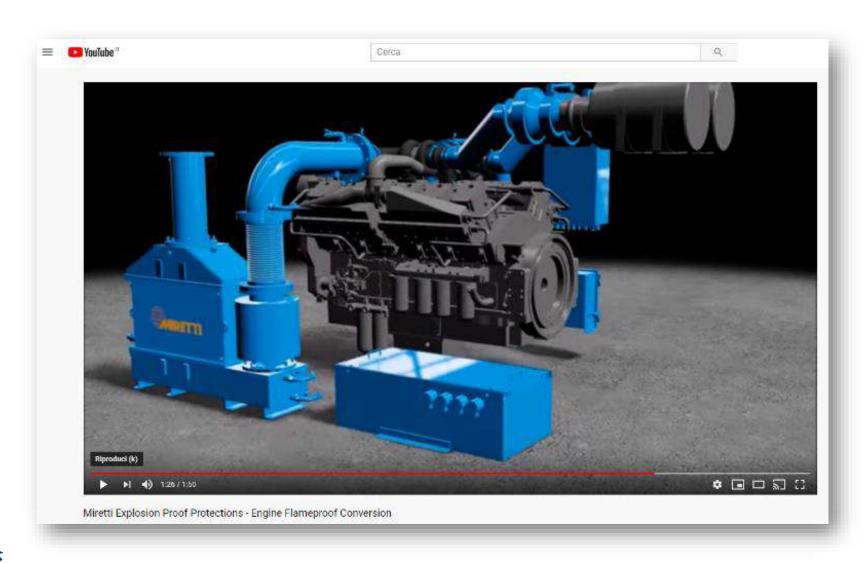
Zone 2 Atex kits for local OEM installation

Zone 2 ATEX compliant kits, reliable and safe, optimized for installation and 'uptime', maintenance friendly with FilterEx self-cleaning exhaust flame traps and spark arrestor elimination.

Miretti has developed a range of Engine Explosion Protection Kits for marine and for industrial engines in compliace with ATEX Zone 2, Group I M2, Class I Div.1-2



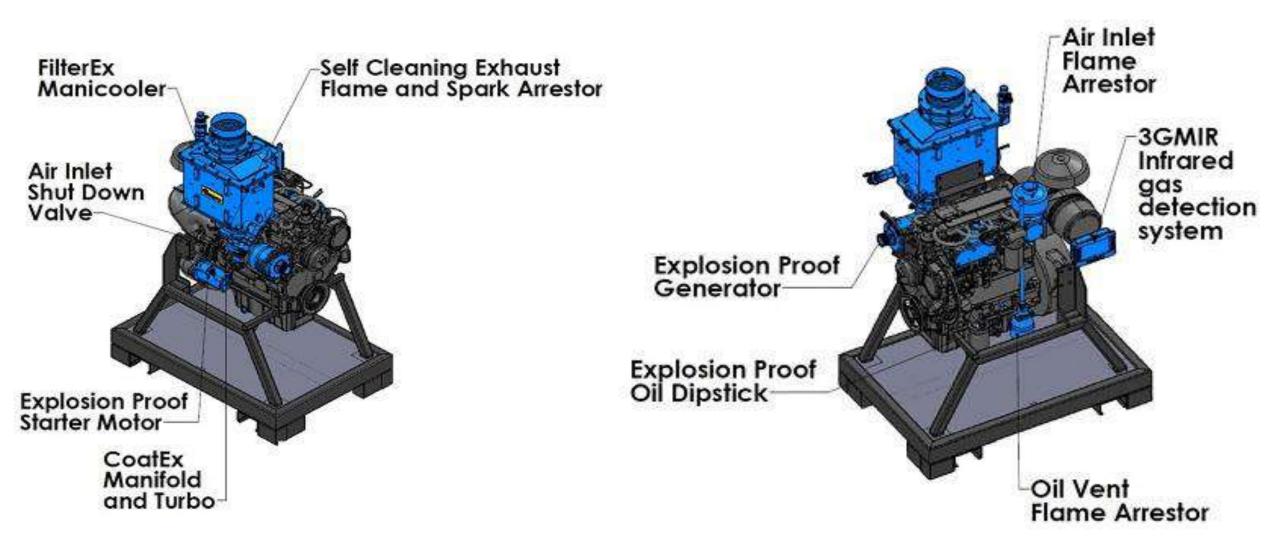
Miretti Ex Engine Conversion







Example of Miretti Engine Explosion Protection System Zone 2 ATEX Kits





Miretti Kits Zone 2, IIA/IIB, T3 KIT

A) Miretti Air Inlet

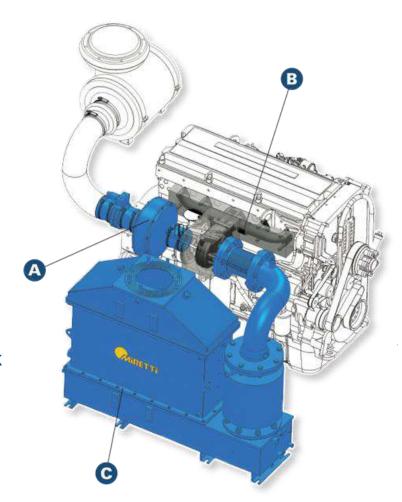
- Shut Down Valve & Flame Arrester
- Provides shutdown on abnormal engine operating condition

B) Miretti CoatEX

- Exhaust Manifold (OEM) & Turbocharger (OEM)
- Ensure surface temperature is below 200°C (T3)

C) Miretti FilterEX

- Flame arrester, Heat Exchanger & Spark Arrester
- Cools the engine exhaust gas below 200°C (T3).
- Ensure that no flames, sparks and no hot particles escape into the atmosphere



Miretti Zone 2 (ATEX) kits also include:

- Crankcase oil breather flame arrestor
- Exhaust flexibles, water-cooled exhaust pipes
- Automated shut-down system
- Ex Electrical & Instrument
- Engine Control Module (ECM) Ex Protection
- Ex Electrical starting system:
 - Battery charging alternator
 - Battery box and battery
 - Battery cut off switch enclosure
 - Conversion of original (OEM) electrical starter motor



Focus on ... FilterEx for Zone 2



Sizes:

- < 90 kw FilterEx Manicooler
- 60-120 kw
- 121-250 kw
- **251-499** kw
- 500-800 kw
- >800 kw



Miretti Group has developed a range of Engine Explosion Protection Kits: for Industrial & Marine engines too









Miretti Ex Solutions and Miretti Engine Kits are available for many worldwide brands and OEMs manufacturers:
Atlas Copco, MTU, Cummins, Caterpillar, Volvo, Perkins, John Deere, JCB, FPT, Deutz, Man, Doosan, Detroit, Kaeser, Sisu Power, Kubota, Volvo, Mercedez, Lombardini, etc...



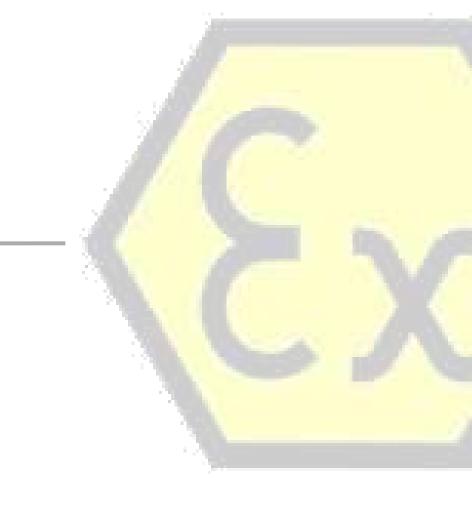


Thanks to its production facilities based in Europe, America, Singapore and China and its workshops and sales offices around the world Miretti Group can explosion proof protects equipment locally without necessarily having to send the engine to the head quarter in Italy



Miretti Explosion Protection Systems & Services for Engines

Some of the latest case histories





The FIRST gas powered engine Ex converted to Class 1, Division 2 for the NEC500

C1D1 gasoline engine Explosion Proof converted by Miretti Americas, our USA production facility.

This is not only an Innovative Project for the safety in "Hazardous Areas". This project has been an impressive challenge and is a great accomplishment which has never been done until now.









First 4 engines of a 56-unit supply









C1D2 rated fire pump diesel engine drivers





Wilitec and Miretti Group: the collaboration in Explosion Proof Solutions

Atlas Copco Compressor 350CFM 12bars fitted with Cummins engine converted for Atex Zone 2

Doosan Compressor 250CFM 10bars fitted with Perkins converted for Atex Zone 2

Genset 15KVA

fitted with Miretti Atex Kit (small footprint with Manicooler)







*Source: Linkedin page of WILITEC PTE. LTD.

https://www.linkedin.com/company/wilitec-pte-ltd-/posts/?feedView=all





CL 1 DIV 1 T3/T4

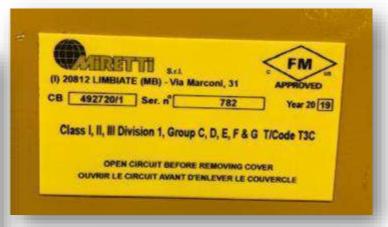
Marine Explosion Proof Diesel Engines









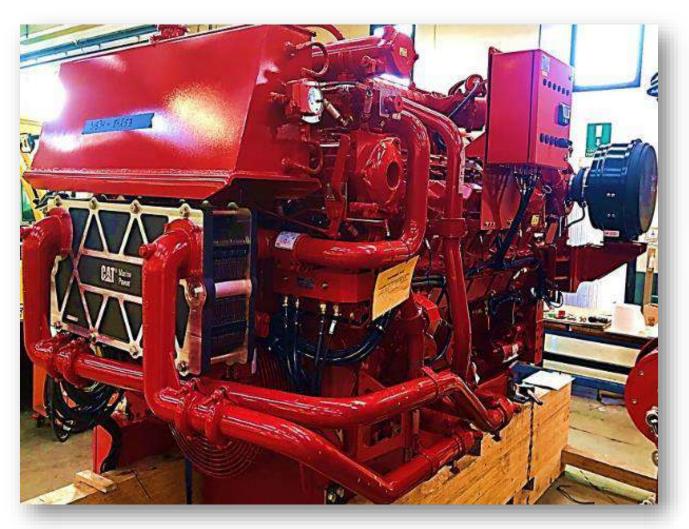






CL 1 DIV 1

Ex Conversions in compliance with North American Class I Div. 1 (USA standard)















Three international companies together in Explosion Proof Solutions

Atex Explosion Proof Protected for Offshore Application







Miretti FilterEx



Explosion Protection Diesel Fire Pump

Clarke Diesel Fire Pump JU6H-NLAD

137-235 kw (185-315HP) @ 1760-2350 rpm

















Ex Solutions for Onshore Drilling











Miretti Explosion Protection Systems & Services for Engines

Some of the main projects carried out by Miretti Grouprecently and globally

overview





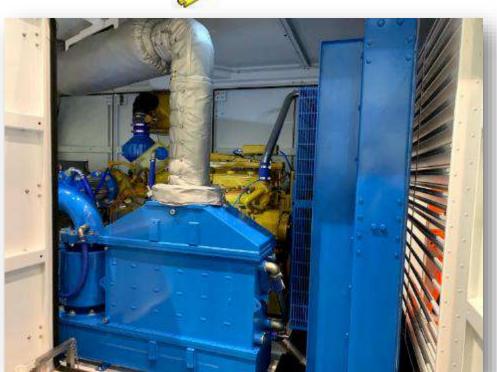
CAT 3406C

365.5 kw (490HP) @ 2200 rpm









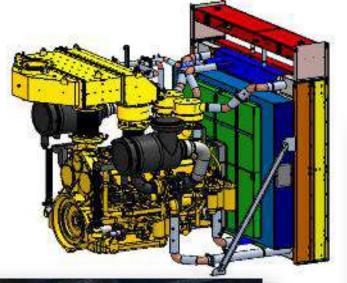








597 kw (800 hp) / 2100 rpm

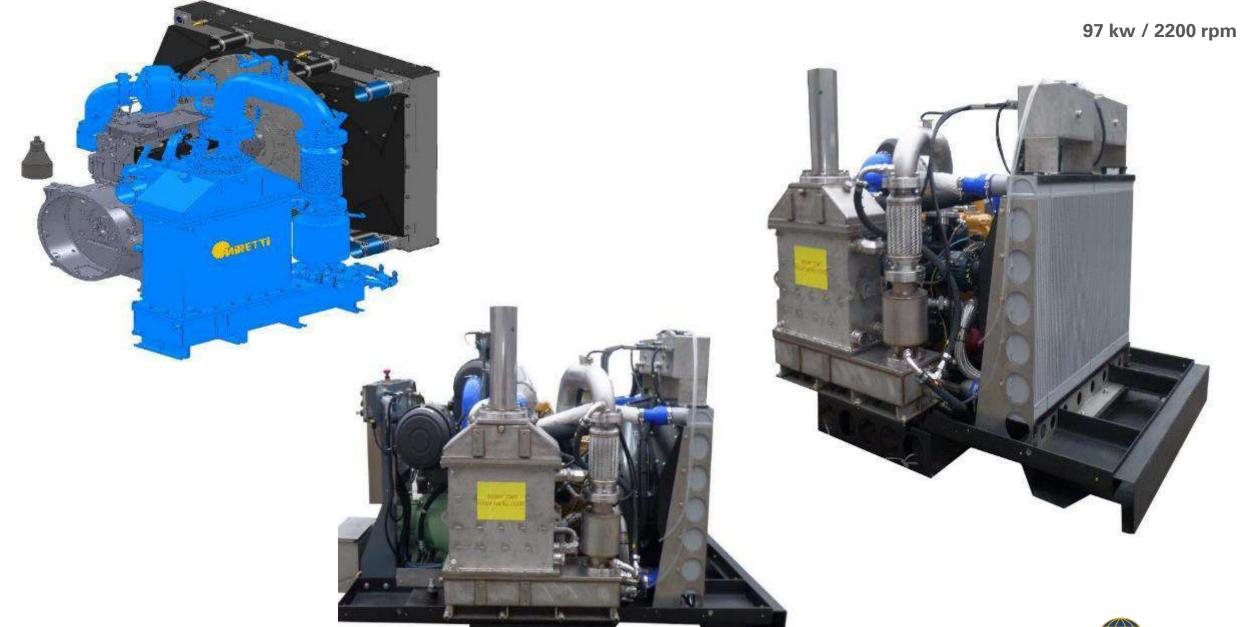








CAT 3054C





CAT C4.4

106 kw / 2200 rpm



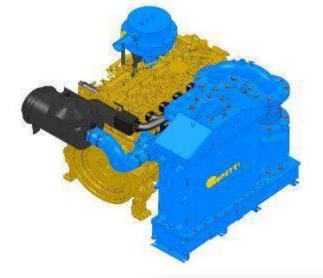








178 kw / 1800 rpm



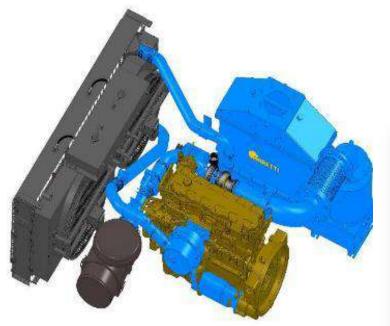


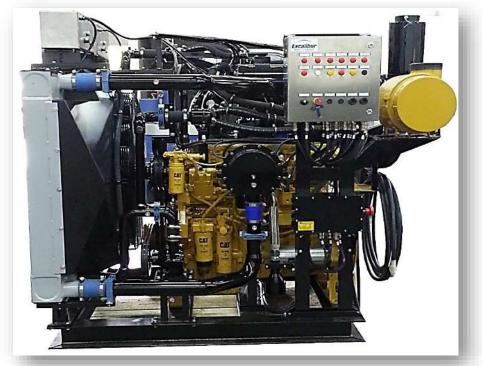




CAT C9

261 kw / 2200 rpm



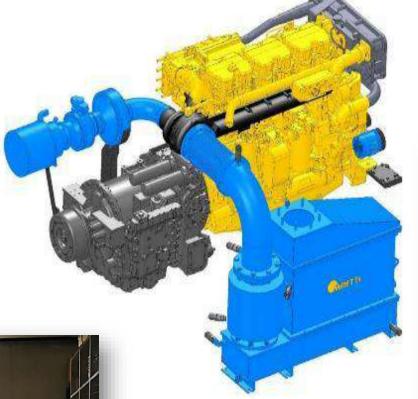






CAT C15

597 kw / 2300 rpm









597 kw / 1900 rpm

















CAT C18

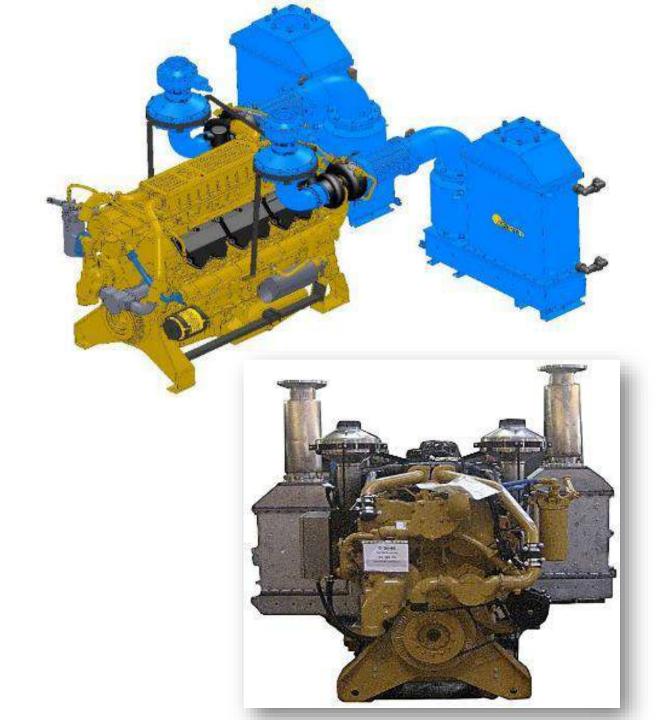
597 kw / 2200 rpm





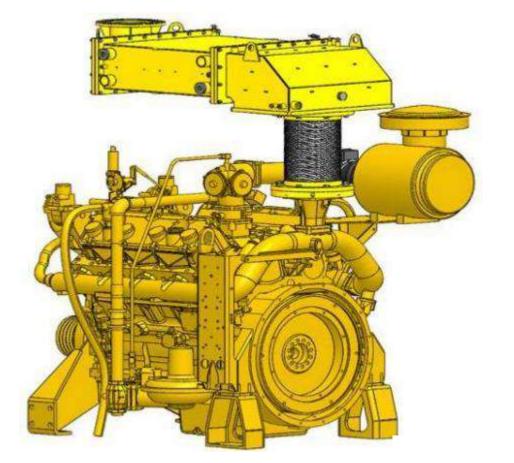


1268 kw / 2300 rpm









CAT G3408 (Gas Engine)

190 kw (255HP) @ 1800 rpm T3 rated









Doosan XP1050 CFM | Cummins QSM11







Air Compressors



Atlas Copco 1600CFM | Cummins KTA19

Air Compressors

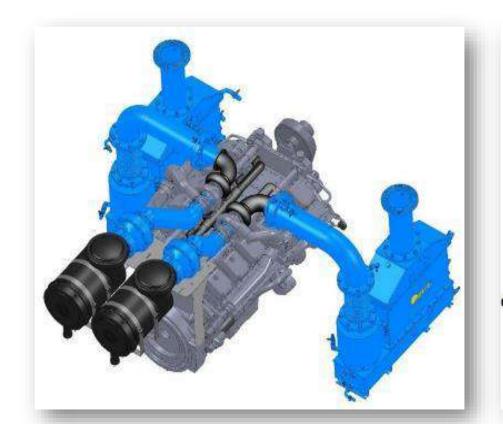














Cummins KTA38

776 kw / 1800 rpm
Two exhaust KITS
3G IIB T3

Zone 2 ATEX conversion of Cummins KTA 38 engine included

- FilterEx 'compact' exhaust gas coolers with self-cleaning exhaust flame arrestors
- CoatEx system applied to 'dry' engine turbos and exhaust manifolds
- Miretti Exd conversion of electric starter
- Miretti Exd alternator and Exe battery
- Miretti Control and Instrumentation







Cummins KTA38







DRY EXHAUST GAS SELF-CLEANING ... EXHAUST GAS COOLER-EXHAUST GAS INLET PLENUM (WATERCOOLED)

KIT – Cummins 6LTAA8.9-C360

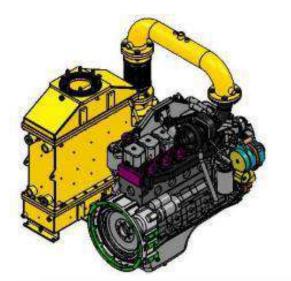
264 kw (360 HP) @ 2200 rpm

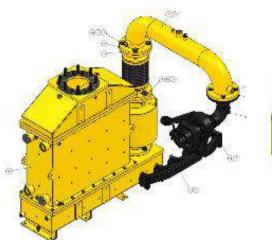
















Cummins 6BTA5.9-C180

132 kw (180HP) @ 2200 rpm











Cummins QSB 6.7

164 kw (220HO) @ 2200 rpm

















Cummins 6CTAA8.3-C215

160 kw (215HP) @ 2200 rpm





Cummins QSL9D

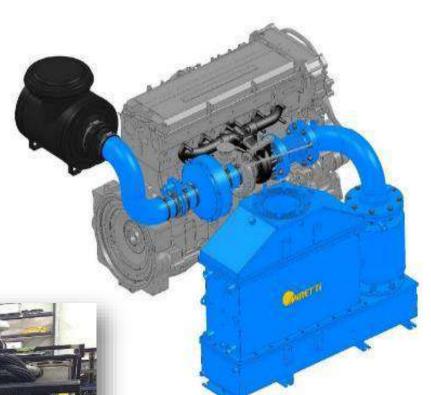
253.5 kw (349HP) @ 1800 rpm











Cummins QSX15

496 kw / 2100 rpm



3G IIB T3

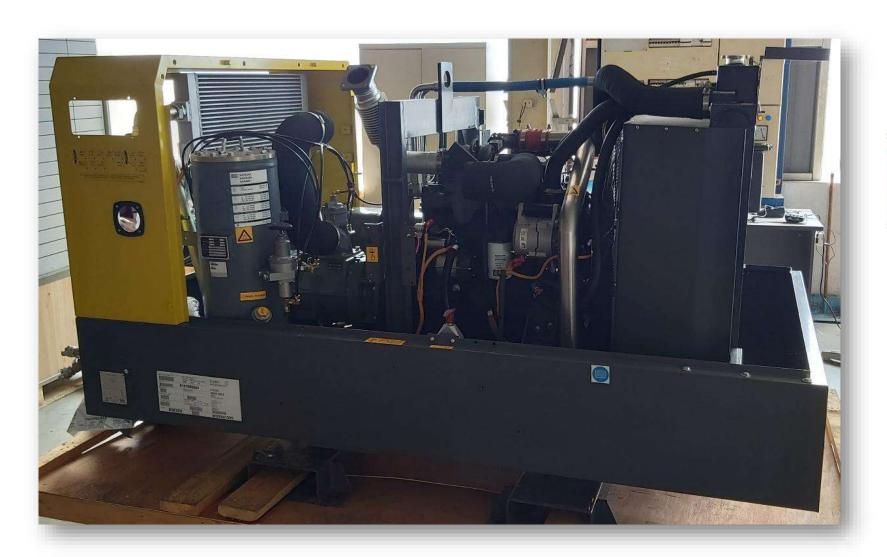


CL I DIV 2 T3





Atlas Copco XAHS350, 350CFM | Cummins 4BTAA3.9-C125







Cummins QSX60







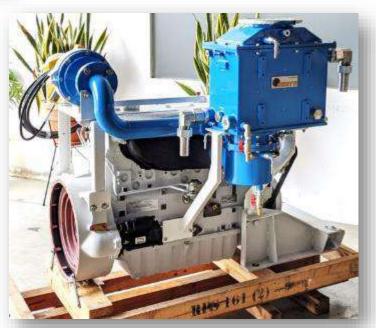
Perkins 1104C-44 Perkins 1104C-44T Perkins 1006.6



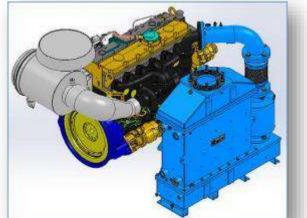
ATEX Zone 2 3G IIB T3











KIT - Perkins 1106A-70TAG3

162.7 kw (218.2HP) @ 1500 rpm









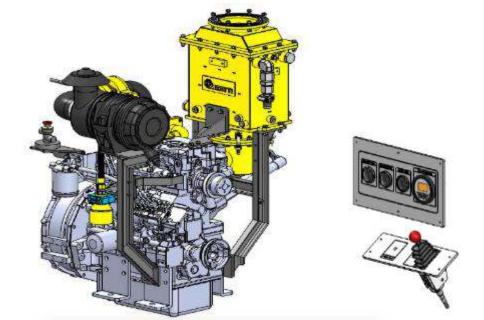
Perkins 1104A-44TG2













Perkins 404D-22G

22 kw (29.5HP) @ 1800 rpm















97 kw (130.1HP) @ 2200 rpm















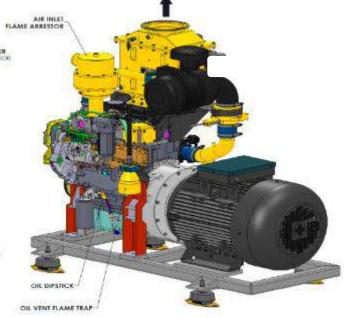
FOR SHUT OFF VALVE FILTEREX MANICOOLER (DOLCAS FLAME ARRESTOR EX) GAS COOLER SPARK ASSRESSOR) ORIGINAL ENGINE AIR CLEANER ENGINE START -ENGINE STOP COATEX ON EXH GAS MANIFOLD, TURBO AND CURVE AIR INLET SHUT DOWN VALVE COUPLING FOR GENERATOR BORVA GENERATOR



Perkins 1104C-44TAG2

106.8 kw (143.2HP) @ 1800 rpm

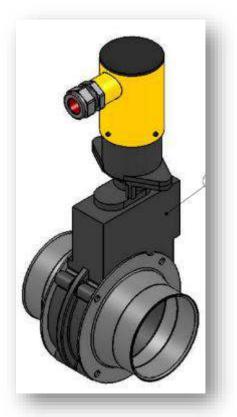


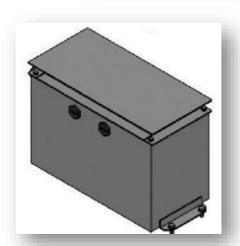












KIT – Perkins 1103A-33G

28.2 kw (37.8HP) @ 1500 rpm

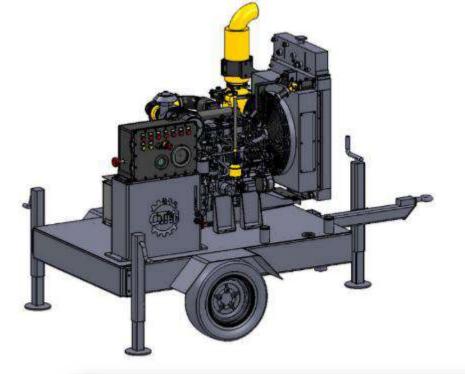


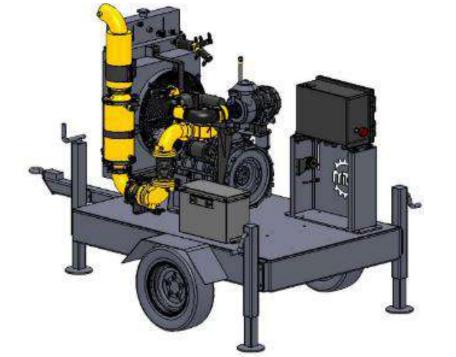














Perkins 404D-22G

18.7 kw (25.1HP) @ 1500 rpm







Perkins 1104D-E44TA









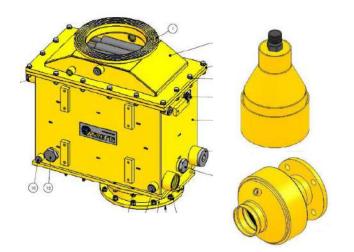
Perkins 1106

109 kw TIER II





Atlas Copco XAS97Dd, 190CFM | KIT - Deutz D2011L03 / F3M2011



36 kw (48.3HP) @ 2750 rpm



Air Compressors







Deutz TCD2012L06

135 kw / 2400 rpm







Deutz TCD2013L064V



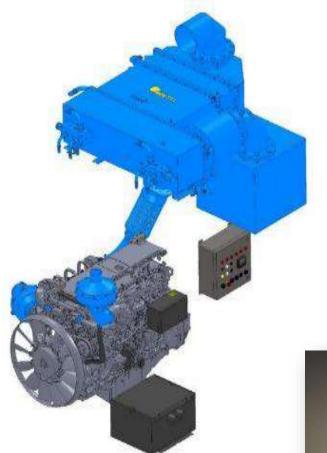


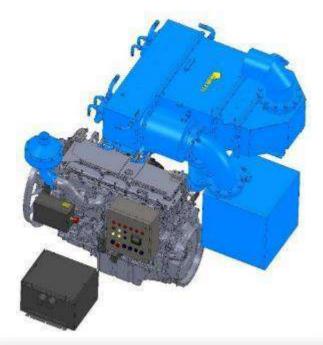
263 kw / 1800 rpm

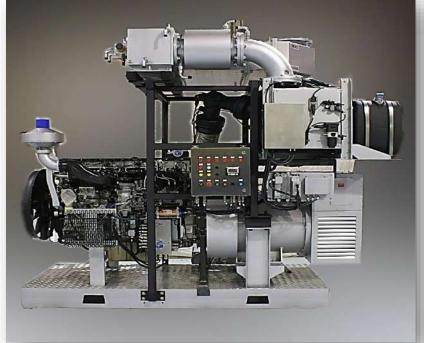










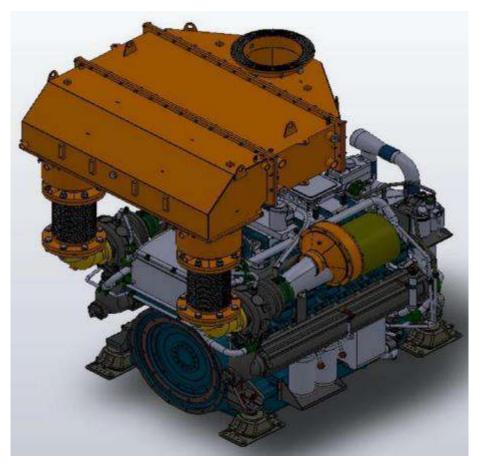


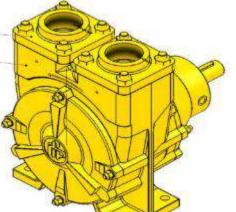
MTU MERCEDES MBE 1500

460 kw / 1300 rpm







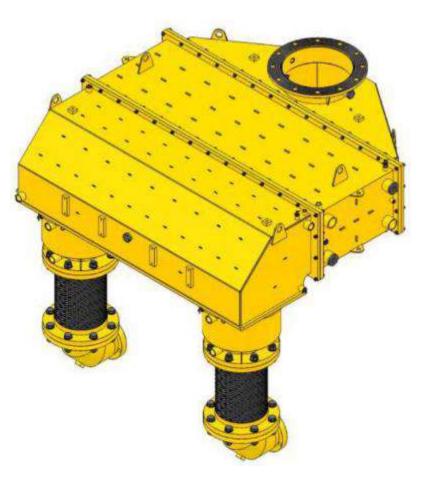




MTU 12V2000P82

600 kw (805HP) @ 1800 rpm

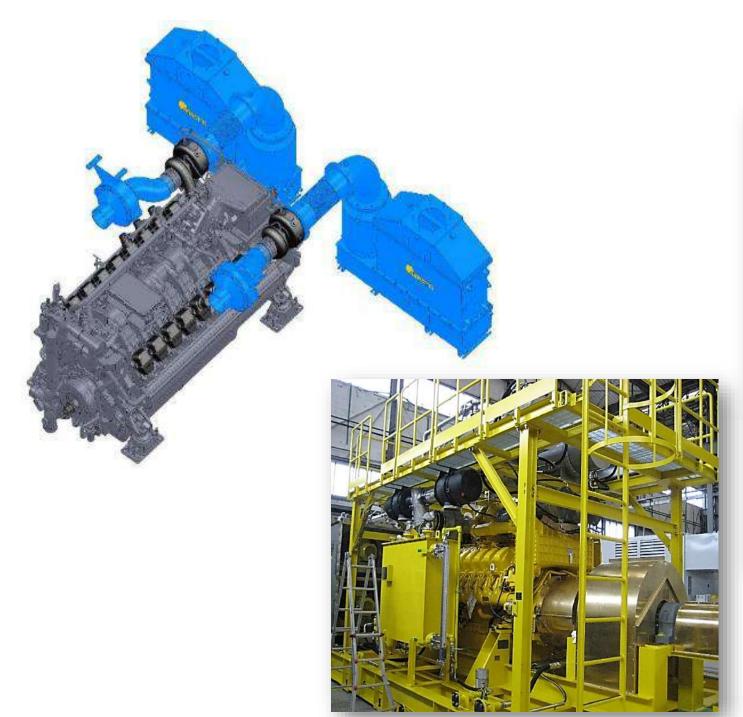






MTU 16V4000P

930 kw / 1800 rpm



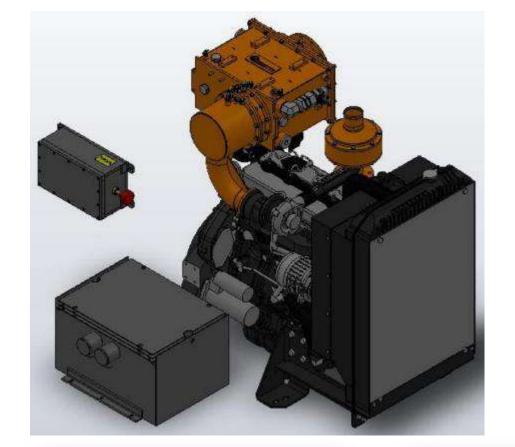




KIT – JCB G-TC2

74 kw (99.2HP) @ 1500 rpm





















JCB 444TCA

70.1 kw (94HP) @ 2200 rpm





John Deere 4045HFU81











Detroit Engine S60



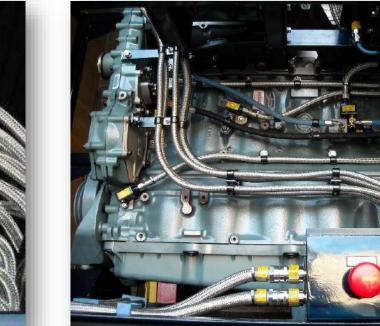












Detroit Engine







Kaeser M123, 405CFM











Atlas Copco U100CFM | Kubota D902

Air Compressors







Atlas Copco U130CFM | Kubota V1505

Air Compressors







Airman PDS185S | Yanmar 4TNV88

Air Compressors



AIRMAN



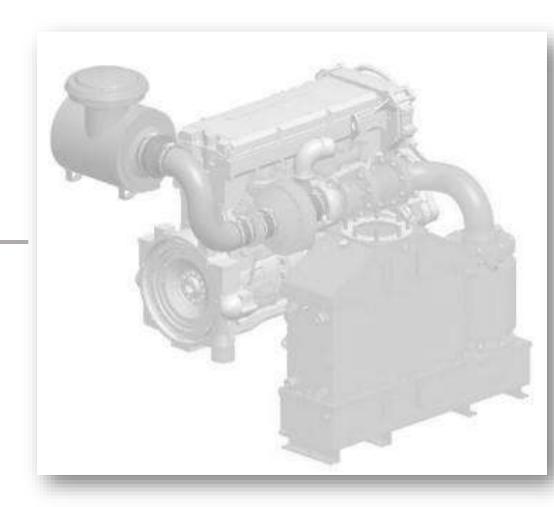






FilterEx

Miretti Innovative Solution





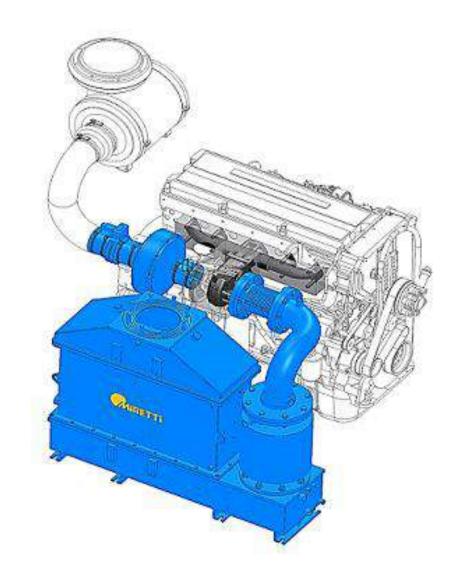
About FilterEx

3 in 1

Compact exhaust cooling system with an embedded self-cleaning exhaust Flame and Spark arrestors

• Gas cooler

- Flame arrestor
- Spark arrestor
- Approximately 1,000 hours before inspection
- Easy to install and clean
- IIA, IIB certified







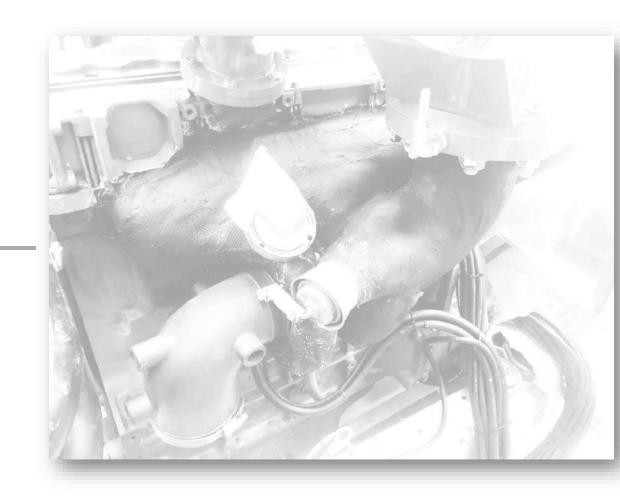
About FilterEx

- Dedidacted to ATEX compressors, generators, pumps operating continuously without frequent interrumptions due to the maintenance of the exhaust line flame arrestor
- Miretti's technology: the bestpoke alternative to the traditional systems based on
 - Exhaust gas cooler
 - Removable heavy tray that has to be replaced for cleaning every 200 working hr max
- Miretti's offer of a solution for reducing
 - Cost
 - Service manteinance
 - Equipment downtime



CoatEx

Miretti Innovative Solution





About CoatEx

- Thermal barrier between hot engine surfaces (turbochargers and exhaust manifolds) and the atmosphere
- Most dry engines enabling to be converted to Zone 2 ATEX specification
- Original engine OEM turbocharger enabling to be retained, reducing risk of failure when replacement water-cooled turbochargers are fitted
- Retaining the original OEM turbocharger warranty minimum impact on exhaust emission levels
- Supplied with embedded cooling for special applications
- Miretti CoatEx systems fully patented







About CoatEx

- Non-toxic solution
- Resistant to many chemical and corrosive atmospheric agents
- Temperature surface decrease 75%
- Thermal insulation capability up to 600°C
- In compliance with the requirements of European Standard EN 13463-1:2009
- Group I and Group II certified with an ambient temperature range from -20°C to + 60°
- Original engine parts Same performances in terms of power and emissions





Why choose Miretti?

Reliable Customized Solutions

Research & Development

Quality & Innovation

Global Footprint

Certifications & Testing

After Sales Service

Training & Product Education

Engineering Excellence













Ex Material Handling

Oil & Gas Ex Engine Power Systems

> Mines & Tunnels Ex Heavy Duty Solutions

Explosion Proof Components

Fumes Purification Devices

Exhaust Cleaning Solutions

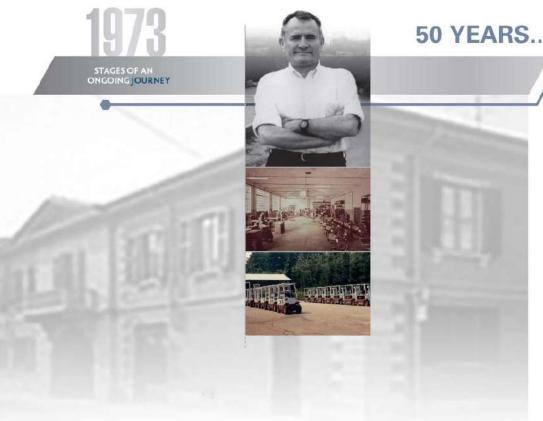




New Design for the Miretti Group

SCR DeNOx systems and the marine sector

"Our future is still in the making with you by our side"





2023

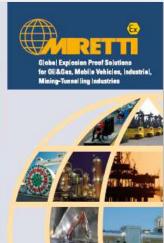
With an extraordinary 50year
history of entrepreneurial
determination and
technological
innovation, the Miretti
Group
looks towards the future
with
enthusiasm and confidence,
ready to embrace new
challenges and to continue
growing alongside its
employees, clients, and
staff.



Guide to Potentially Explosive Atmospheres & Hazardous Locations



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Guide made by Miretti Group about Hazardous Areas Regulations and Standard worldwide



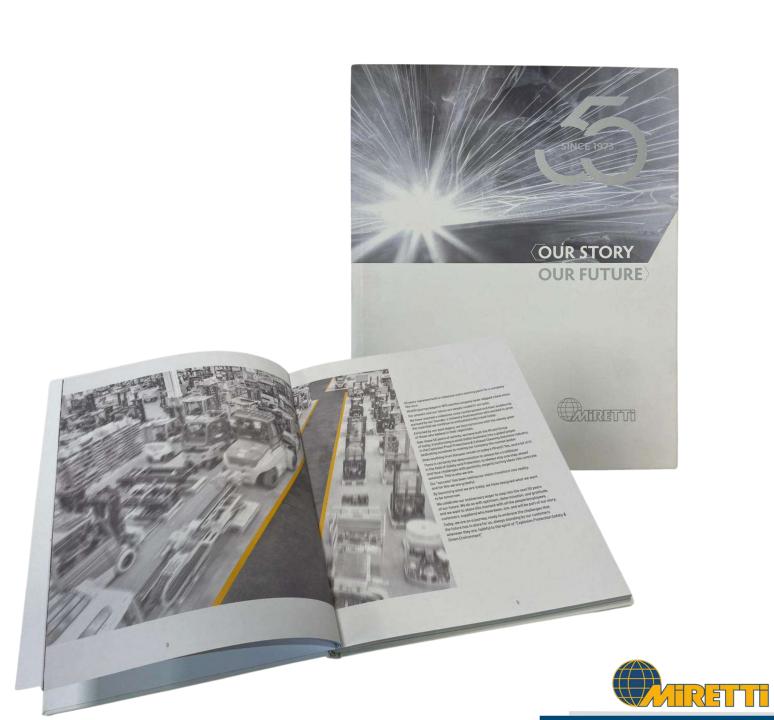




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