



TURBOCHARGER **REMANUFACTURING SPECIALIST**



SUMMARY

1

OUR COMPANY

2

OUR PLANT

3

OUR DNA

4

OUR STRENGTHS

5

OUR RANGE

6

OUR PROCESS

1 OUR COMPANY



1/ OUR COMPANY

- Established since more than **50 years**
- Turbocharger Remanufacturer **specialized in Automotive and Truck Industry**
- **On board R&D skilled Team** industrializing new market opportunities
- **Worldwide capacities for a smart and safe partnership**

1 Plant

80 Persons

36 000 M²

30 000 Units produced per year

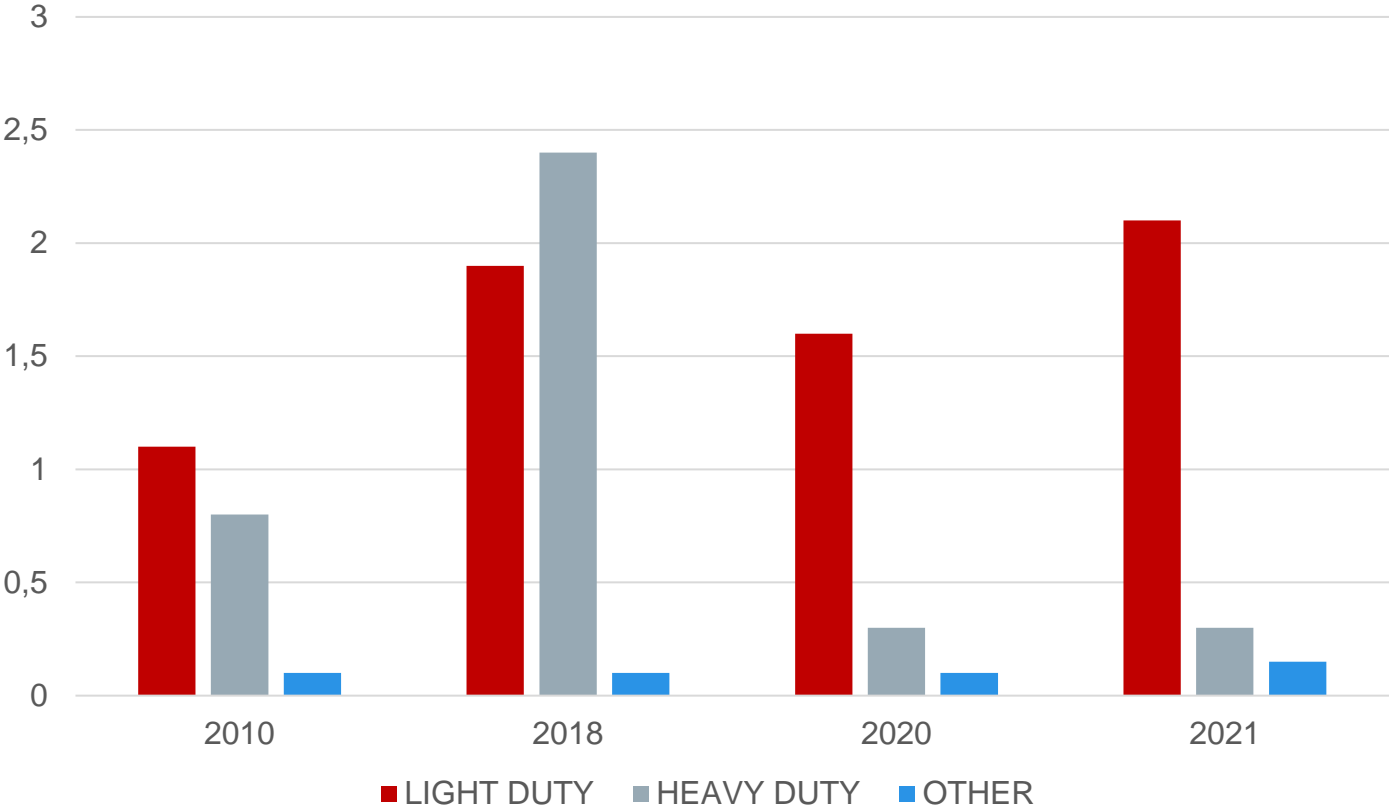
INDUSTRIAL REMANUFACTURER

HISTORY

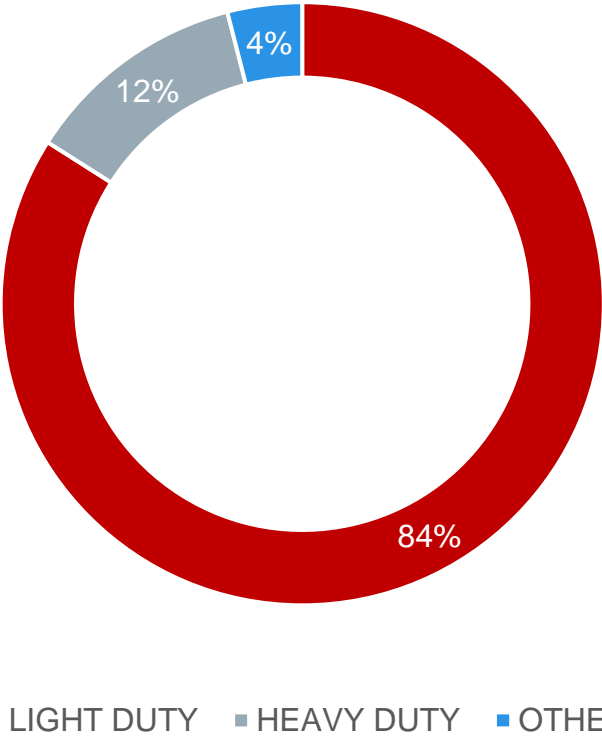


- **1978** = MECATRANS creation on the request of a French manufacturer to produce new driveshafts
- **1980** = Drive shafts and homokinetic seals **Remanufacturing process development** for European manufacturers
- **1985** = **New Remanufacturing range is developped on brake calipers**
- **1995** = Growing as an Industrial Remanufacturer with **3 different product lines (braking, airco and driveshafts)**
- **2000** = **Identified by Key customers as the European Remanufacturer leader**
- **2002** = First European player to launch **VNT Turbochargers Remanufacturing process**
- **2005** = First European player to launch **E-Actuators Turbochargers Remanufacturing process**
- **2010** = **Official Remanufacturer of major Light Duty constructors**
- **2015** = **Worldwide development for Heavy Duty constructors**
- **2020** = MECATRANS is becoming part of an **Industrial and Automotive family Group**

TURBOCHARGERS PRODUCTION SPLIT



SPLIT PRODUCTION PER VEHICLE TYPE



2 OUR PLANT



2/ OUR PLANT

- On board quality insurance management system that meets ISO & IATF best practices
- 36 000 m² eco-responsible factory located in France
- Flexible and fully computerized production site



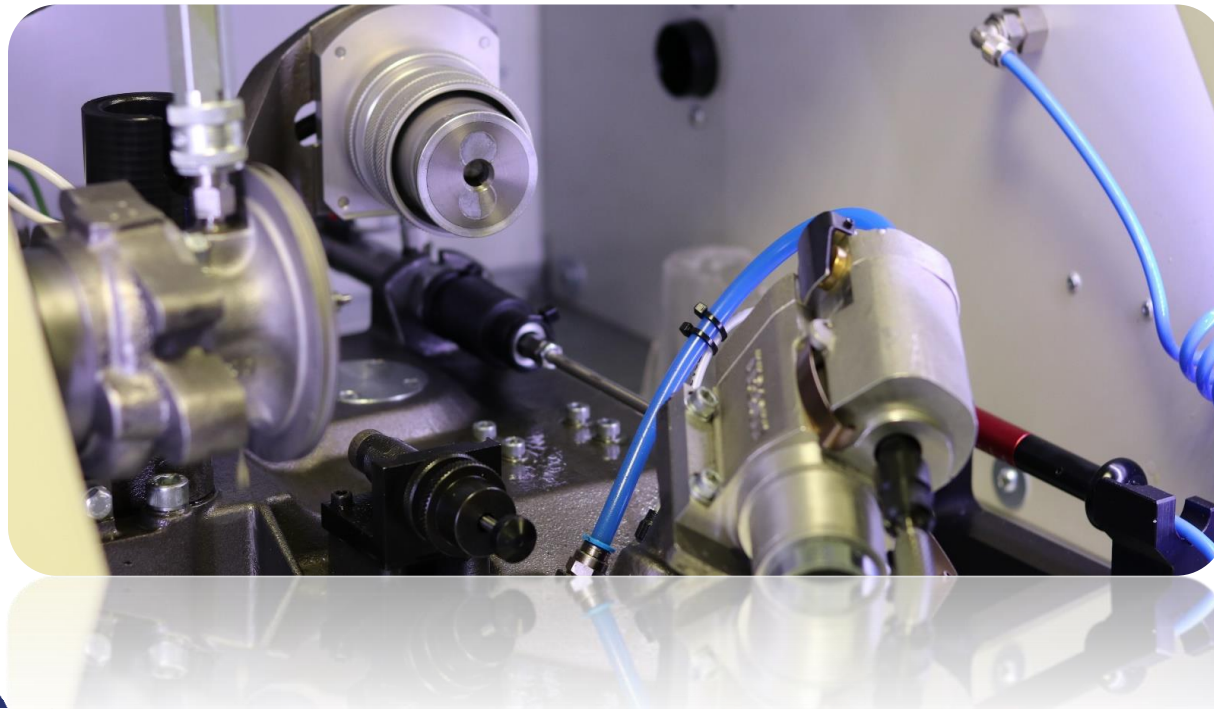
**RELIABLE,
MASSIVE
AND SMART**

3 OUR DNA



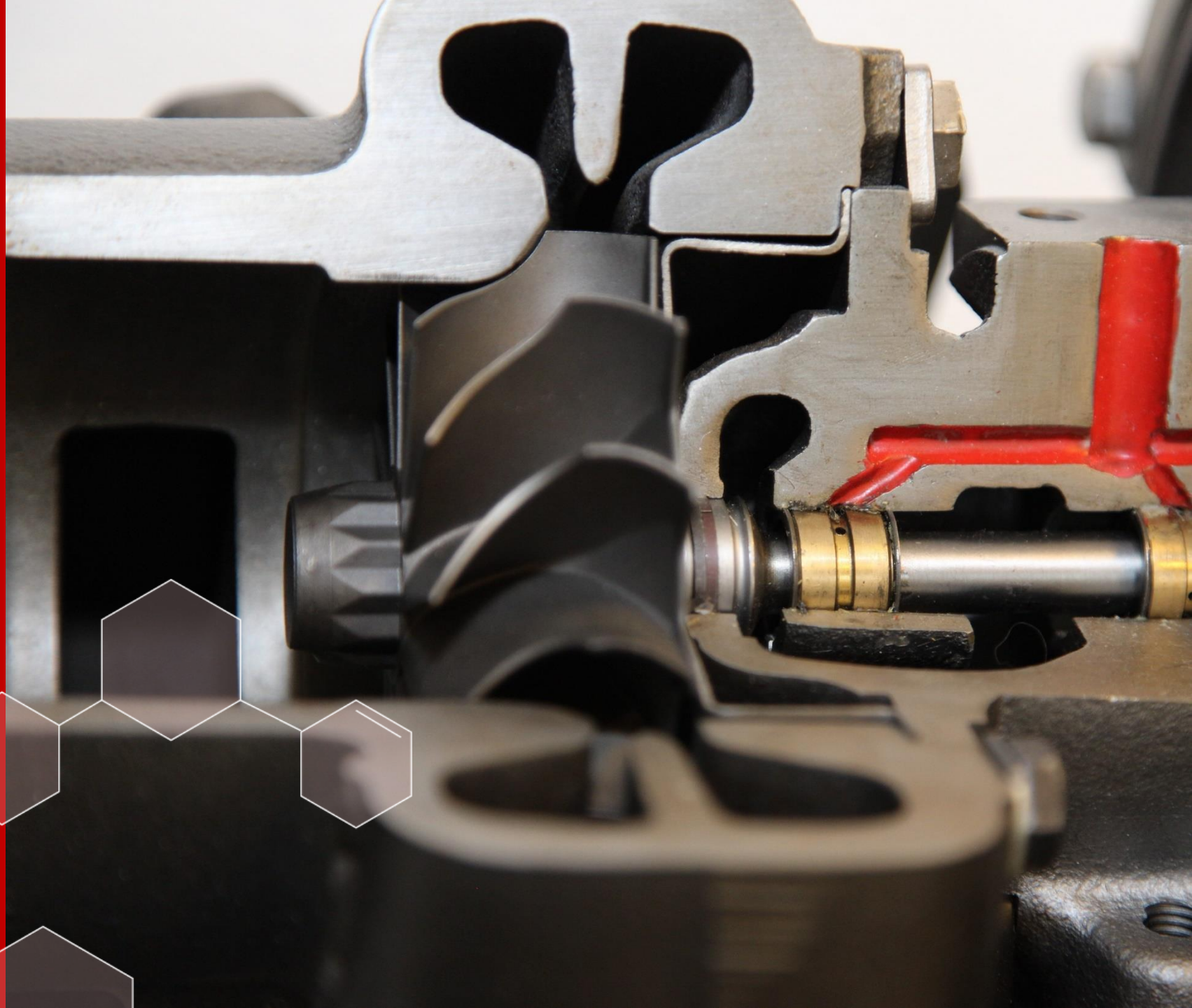
3/ OUR DNA

- **State-of-the-art** Remanufacturing
- **360 degrees customer's support**
- **Highly skilled** and permanent trained staff
- Permanent investment to be in line with last market technologies



**SAVING ENERGY,
RESOURCES
AND COSTS**

4
OUR
STRENGTHS



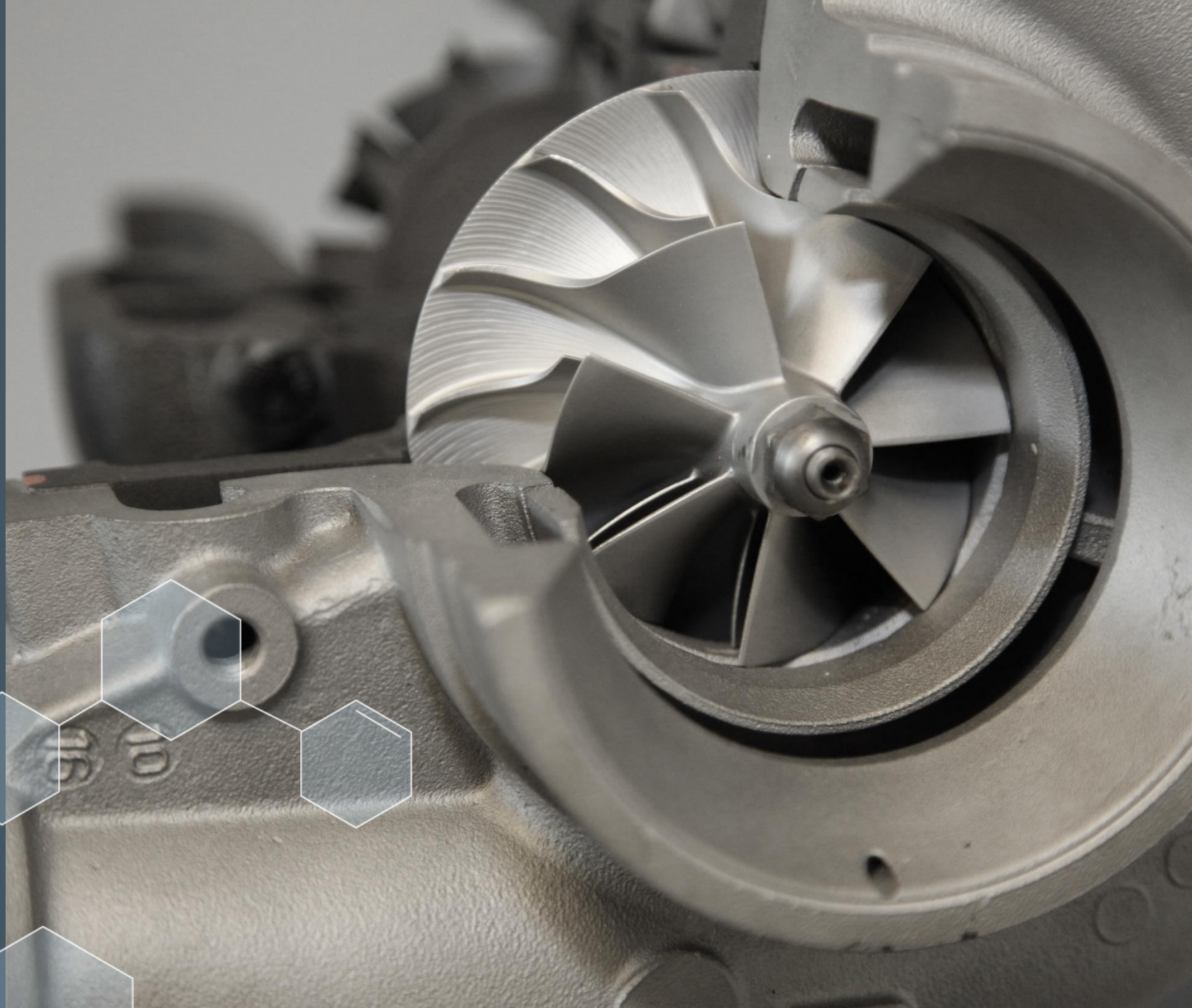
4/ OUR STRENGTHS

- **First class operational excellence**
- **European's largest cores stock (more than 450 000 cores)**
- **In house core logistic center** dedicated to each customer's requirements



ADDED VALUE
PARTNERSHIPS EXPERIENCE
HIGH PRODUCTION CAPACITY

5
OUR
RANGE



5/ OUR RANGE

- **A full range of Remanufactured Turbochargers with different technologies for all applications :**
- Wastegate regulation, Variable Nozzle Turbocharger (VNT), Bi & Tri stages Turbochargers
- E-Actuators, specific design materials (D5S or Titanium...)



**LIGHT DUTY,
HEAVY DUTY
AND OFF HIGHWAY**



6 OUR PROCESS

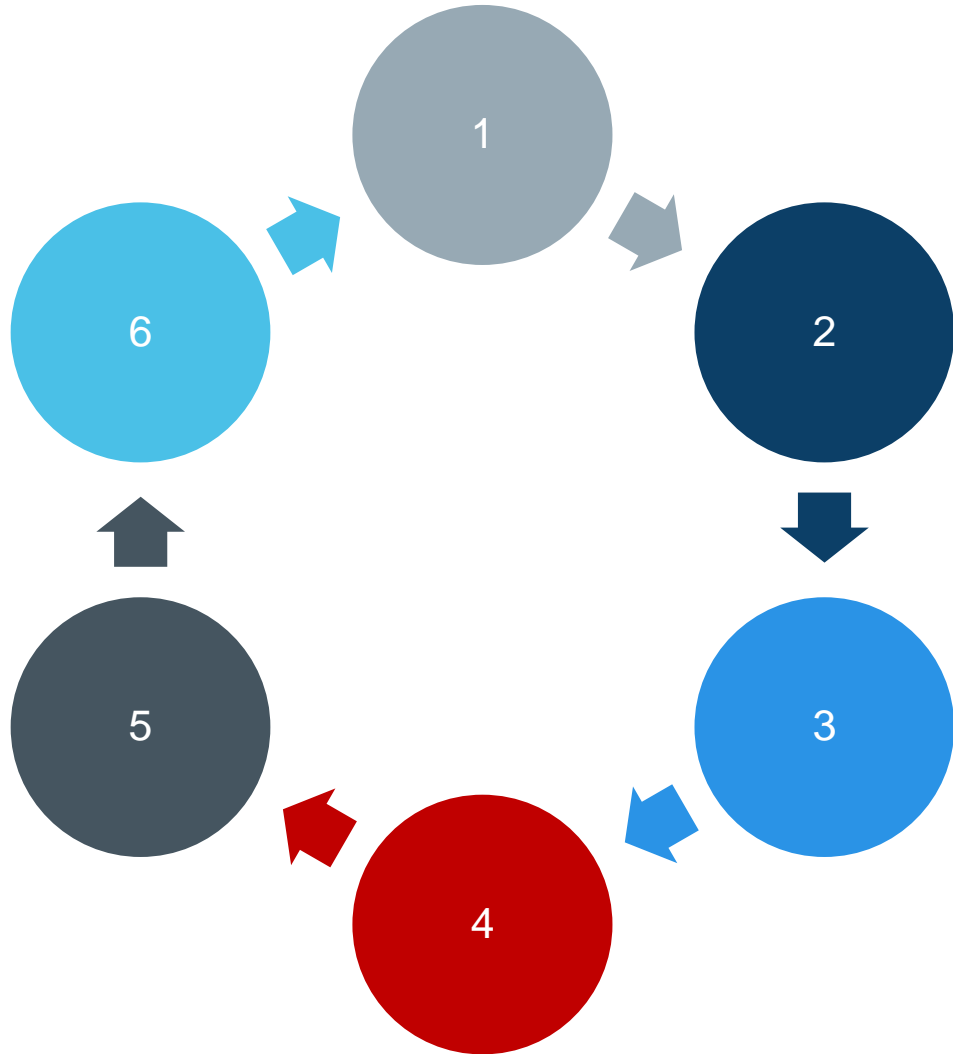


6/ OUR PROCESS

- **FMEA** : Failure Mode and Effects Analysis based on functional analysis for processes and products
- **Retro-Engineering** : products studied and developed from new master sample units
- **PPAP** : Production Parts Approval Process to reach original functionalities and performances
- **CAPM** : Computer Assisted Production Management



**UNIQUE,
VERTICAL
AND SAFE**



- **1/ Reception and Storage**
 - Visual inspection and sorting
 - Dispatch and Geolocalized cores
- **2/ Dismounting and Inspection**
 - Cores dismounting (scraping non reused parts)
 - Reused parts visual inspection
 - Critical parts dimensional inspection
- **3/ Cleaning**
 - Complete components cleaning (reused parts)
 - Shot blasting and washing
- **4/ Balancing**
 - Turbine shaft low speed balancing
 - Axial and radial plays inspection
 - CHRA High speed dynamic balancing
- **5/ Mounting and Setting**
 - CHRA reassembly stage
 - Compressor and Turbine housings assemblies
 - Regulation assembly and settings (Wastegate or VGT)
- **6/ Stamping, Final Control and Packaging**
 - Serial number nameplate stamping
 - Final inspection and release
 - Packaging



THANK YOU
FOR YOUR ATTENTION



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