



# Welcome to Modugno!



- Swamy Kotagiri CHIEF EXECUTIVE OFFICER
- Vince Galifi PRESIDENT
- Pat McCann CHIEF FINANCIAL OFFICER
- Eric Wilds CHIEF SALES & MARKETING OFFICER
- Aaron McCarthy CHIEF HUMAN RESOURCES OFFICER
- Boris Shulkin CHIEF DIGITAL AND INFORMATION OFFICER
- Anton Mayer CHIEF TECHNOLOGY OFFICER
- Bruce Cluney CHIEF LEGAL OFFICER
- Uwe Geissinger PRESIDENT MAGNA EUROPE
- Zhen Wu PRESIDENT MAGNA CHINA

# Magna leadership.

John Farrell | President

Tom Rucker | President

BODY EXTERIORS & STRUCTURES

SEATING SYSTEMS

POWER & VISION

COMPLETE VEHICLES

NEW MOBILITY

BODY & CHASSIS

EXTERIORS

SEATING

POWERTRAIN

ELECTRONICS

MECHATRONICS,  
MIRRORS, LIGHTING

COMPLETE  
VEHICLES

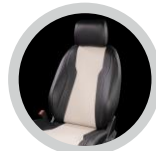
NEW MOBILITY



John O'Hara  
PRESIDENT



Grahame Burrow  
PRESIDENT



John Wyskiel  
PRESIDENT



Diba Ilunga  
PRESIDENT



Sharath Reddy  
SENIOR VICE  
PRESIDENT



Jeff Hunt  
PRESIDENT



Roland Prettnner  
INTERIM PRESIDENT



Matteo DelSorbo  
EXECUTIVE VICE  
PRESIDENT

# Magna

## By the numbers.

**\$37.8B** in sales

**344** manufacturing  
assembling facilities

**181,000+** entrepreneurial employees

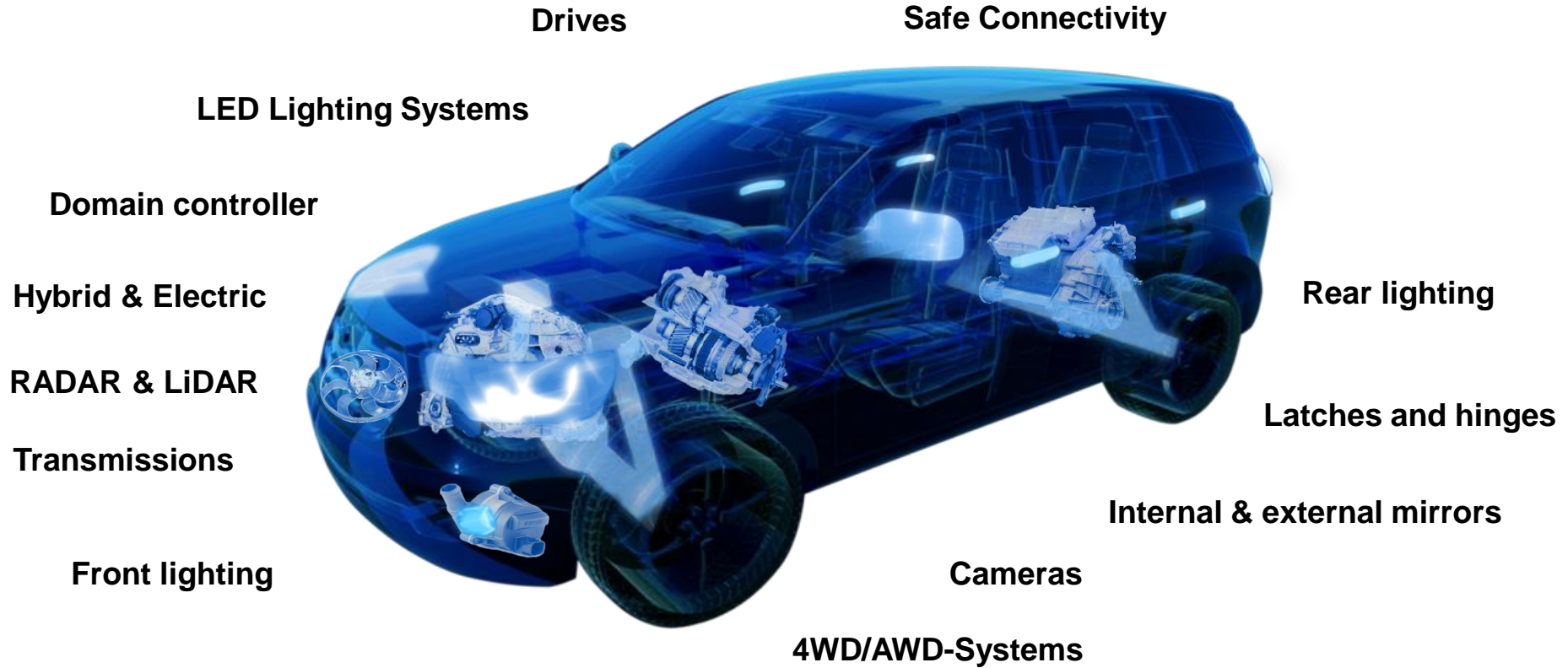


**#1** north america  
market position

**#4** global  
market position



# Magna Powertrain is part of the "Power & Vision," Business Unit



# Plant Modugno



# Modugno Division: History



**1998**

Start of production



**2016**

Integration into Magna



**2018**

Company name changed in Magna PT S.p.A.



**1996**

Established as "Getrag S.p.A"



**2016**

Groundbreaking ceremony  
Building extension



# Modugno Division: Product Time Line



**1998**

August

SOP 28x

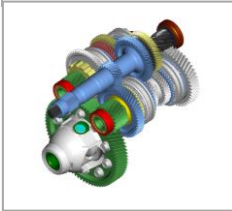


28x FWD-Transaxle 5 speed Manual Transmission  
Capacity : 728.000/year  
Total investments: ~ 300 mil €

**2008**

July

SOP Gear Sets 6DCT250



**2009**  
**April:** SOP 6DCT250 RSA  
**May:** SOP 6DCT250 Ford  
Capacity: 437.000/year  
(1.560/day)

**2018**

January

SOP 7DCT300 1<sup>st</sup> Assembly Line

Capacity installed: 375.000/year (1.339/day)



**2019**  
2<sup>nd</sup> Assembly Line 7DCT300  
Capacity installed:  
375.000/year (1.339/day)

**2021**

7DCT300

Total capacity installed:  
840.000/year (3.000/day)





# Modugno Division



**2** transmission architectures  
**3** Customers  
*DAG/Mercedes, Ford, Renault/Nissan*

**Layout**

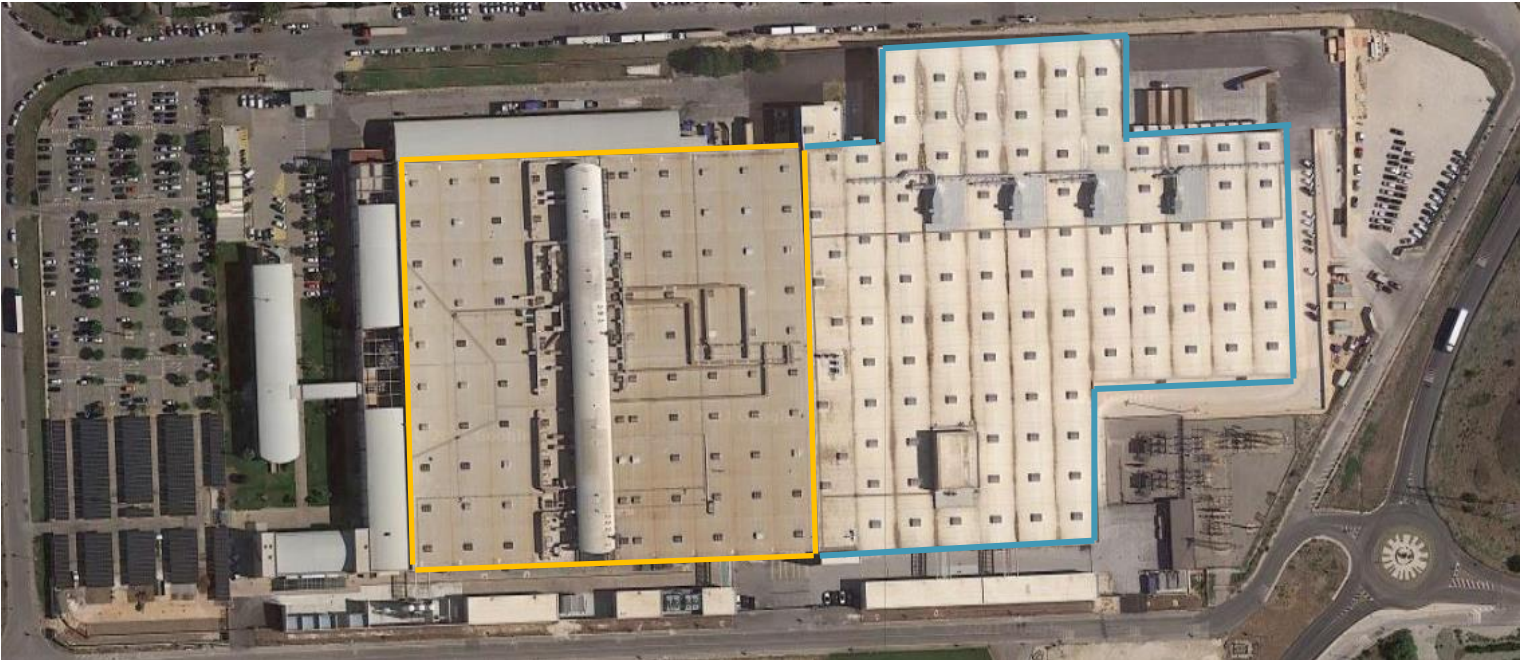
Total: **110.011 m<sup>2</sup>**

constructed area: 53.106 m<sup>2</sup>  
paved area: 48.627 m<sup>2</sup>  
green: 8.878 m<sup>2</sup>



<b>Employees</b> <i>(June 2023)</i>	
<b>Direct</b>	<b>601</b>
<i>assembly</i>	313
<i>production</i>	288
<b>Indirect (backbone)</b>	<b>291</b>
<b>Trainees</b>	<b>6</b>
<b>Total</b>	<b>898</b>

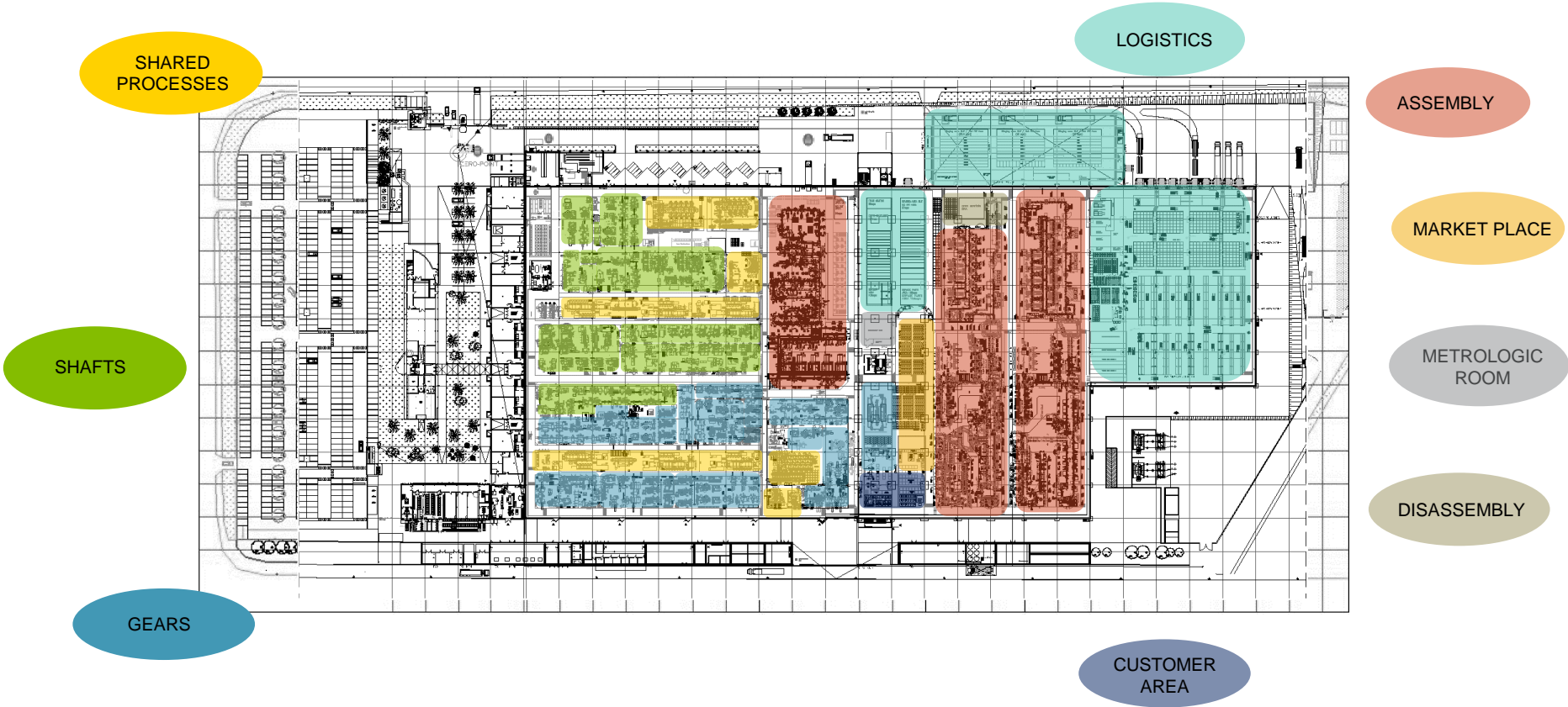
# Building Aeroview



 *Production Hall*

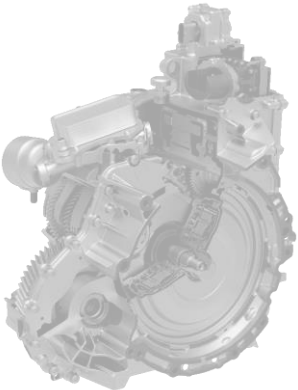
 *Assembly Hall*

# Plant Layout





# Product Portfolio

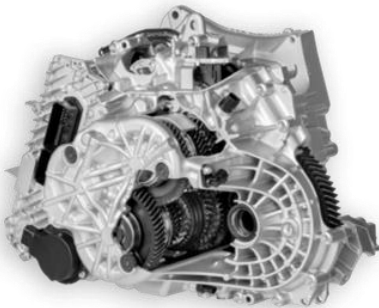
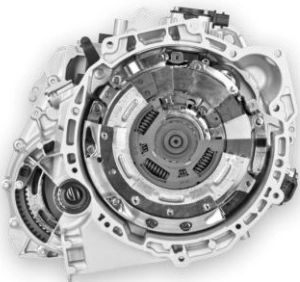


SOP 2025

**6DCT250  
Dual Clutch  
Transaxle**

**8F-eDCT  
Triple Clutch  
P2 Hybrid  
Transaxle**

**7DCT300  
Dual Clutch  
Transaxle**



# 6DCT250 FWD Dual-Clutch Transmission

Dry dual-clutch transmission with demand-controlled smart actuation and six gears for efficient automation of small-medium torque vehicles.



## Features and Specifications

- Max. torque: 280 Nm
- Weight (incl. oil) 75 kg
- Installation length: 380 mm
- Gear ratio spread: up to 7.1

## Benefits

- Excellent shift comfort
- System is applicable from sporty to comfortable
- Electro-actuated Dry Clutch
- Electro actuated shift system
- Excellent fuel efficiency performance
- Ready for start-stop and sailing without hardware change
- Cost-optimized design
- Flexible production strategy

# 6DCT250 applications





# 7DCT300 FWD Dual-Clutch Transmission

Highly versatile wet dual-clutch transmission with demand-controlled smart actuation and seven gears for efficient automation of medium-torque vehicles.



## Features and Specifications

- Max. torque: 320 Nm
- Weight (incl. oil) 70 / 71 kg
- Installation length: 369 mm
- Input shaft – differential: 188 mm
- Overall ratio 1st gear: 13.7 - 18.6
- Gear ratio spread: up to 8.5

## Benefits

- Excellent shift comfort
- System is applicable from sporty to comfortable
- Best-in-class efficiency
- Electro-hydraulic actuation with very low power consumption
- Ready for start-stop and sailing without hardware change
- All-wheel drive application possible
- Optional integrated cooling
- Ready for Mild-Hybrid

# 7DCT300 applications



# 8F-eDCT Triple Clutch P2 Hybrid Transmission

Highly efficient 8-speed 48V 2WD/AWD hybrid transmission with P2 architecture and triple clutch to allow full decoupling of combustion engine.



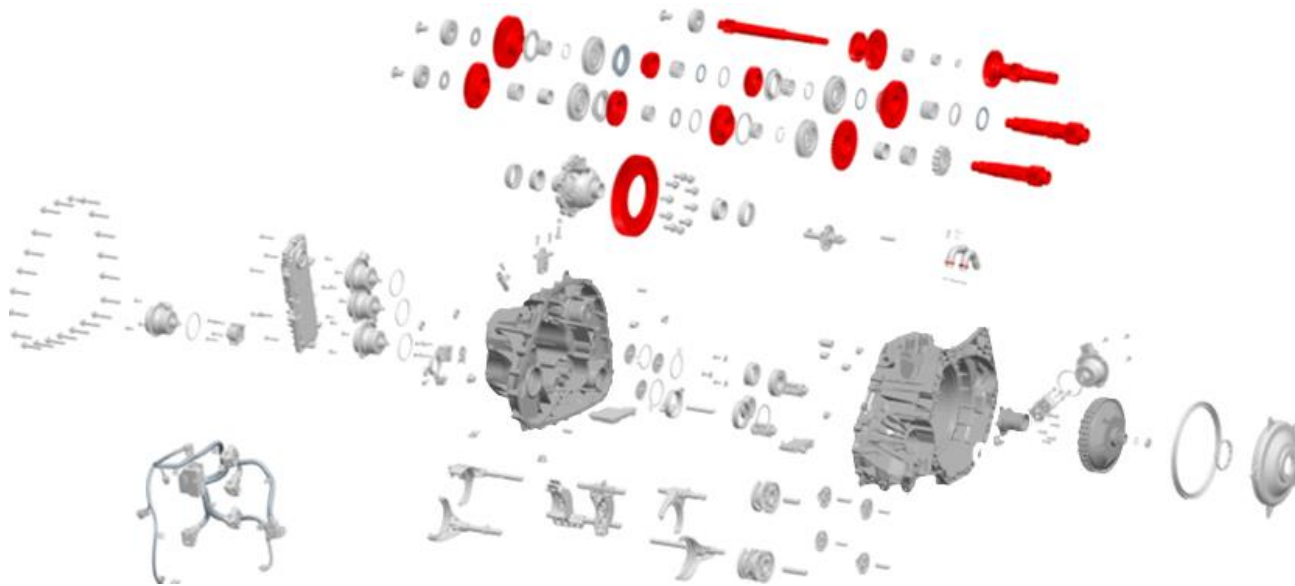
## Features and Specifications

- Max. torque: 390Nm
- Weight (incl. oil)                      appr. 114kg 2WD  
  appr. 126kg AWD
- Installation length: 375,4mm
  
- Overall ratio 1st gear: 15.9 - 17.6
- Gear ratio spread: up to 8.8
  
- E-Motor: 48V, 25kW, 83Nm

## Benefits

- fully-fledged P2 hybrid architecture
- integrated 48V E-Motor and Inverter
  
- Excellent shift comfort
- System is applicable from sporty to comfortable
- AWD capability
  
- Hydraulic-actuated triple Clutch
- Hydraulic-actuated shift system
- Excellent fuel efficiency due to combustion engine decoupling capability
  
- Cost-optimized design
- Flexible production strategy





## **Gears & Shafts**

*Soft Turning  
Hobbing  
Shaping  
Pointing*

*Spline rolling  
Laser Welding  
Vacuum Carburizing  
Quenching*

*Straightening  
Hard Turning  
Grinding  
Superfinishing*

*Tooth grinding  
Power honing*

## **Gearbox**

*Assembly Line  
100% EOL Testing*

# Quality, Health, Safety Environment, SR, IT

Certification of the Management System according to:

- ISO 14001 : 2015
- ISO 45001
- EMAS
- IQ Net SR 10
- IATF 16949
- ASI Certification
- TISAX Certification



External Recognitions:

- FORD: Q1 Award
- MBAG: Supplier Status “A”
- Renault: Supplier Status “H1”
- Italian National Safety Award 2014
- Italy’s Best Employer 2021-2022-2023-2024
- Prize “Sustainability Award 2023-2024”

CERTIFICATE NUMBER 201	ASI STANDARD PERFORMANCE STANDARD (V2 2017)	CERTIFICATION LEVEL FULL CERTIFICATION	ASI ACCREDITED AUDITOR GUTCERT (AFNOR GROUP)
DATE OF ISSUE 19 APRIL 2022	DATE OF EXPIRY 18 APRIL 2025	CERTIFIED SINCE 19 APRIL 2022	
AUTHORISED BY 		CERTIFICATION SCOPE Production of automotive transmissions at the Modugno site (Italy).	
Aluminium Stewardship Initiative Ltd ACN 606 661 125, Australia info@aluminium-stewardship.org  Validity of this Certificate is subject to continued compliance with the applicable ASI Standard and can be verified at <a href="http://www.aluminium-stewardship.org">www.aluminium-stewardship.org</a>			





**Modugno (Bari)**  
a sustainable plant



# WINNER

## “Product” Category

**MAGNA**  
COMMITMENT TO  
SUSTAINABILITY  
2022 AWARD



## POWERTRAIN, MODUGNO, ITALY REMANUFACTURING OF TRANSMISSIONS (#4796)

### The task at hand

Remanufacturing transmissions that were sent to recycling to turn into salable and recovering greatest number of components. Saving 9,600 Kg of Aluminium, 15,000 Kg of steel, and 300Kg of electronic parts

### Category

PRODUCT

### The team that made it happen

The result of teamwork involving several colleagues from the BAA, BCS, BLS, BQS, BRE departments

### How can others implement this idea?

Rethink every waste stream! Can an item being recycled be repurposed ? Re-salvaged and reused?

# Magna Powertrain Leadership

## MAGNA POWERTRAIN

Diba Ilunga, President

## CORE DRIVE

Sandro Morandini, Sr. VP

## NEXT DRIVE

Juergen Schranz, Sr. VP

## GLOBAL ENGINEERING

Andreas Docter, Sr. VP

## CORPORATE FUNCTIONS

- Business Development – **James Tobin Jr., VP**
- Corporate Development & Alliances and Managing Director Asia – **Yi Wang, VP (Interim)**
- Finance & Information Security – **Mike Bacci, VP**
- Human Resources - **Richard Piller, VP**
- Information Technology – **Mashfique Haque, VP**
- Legal - **David Mimms, VP & General Counsel**
- Operational Excellence – **Martin Kiessner-Schatz, VP**
- Purchasing – **Mark Brennan, VP**
- Sales & Marketing/Communications – **Bill Wardle, VP**



# Core Drive Product Portfolio



4WD/AWD  
Systems



Manual  
Transmissions



Dual-Clutch  
Transmissions



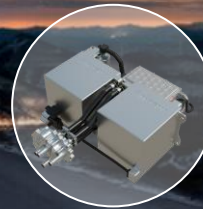
48V Hybrid  
Dual-Clutch  
Transmissions



eDeoupling  
& eClutch



eDrive  
Transmissions



Thermal  
Management



High Precision  
Metal Forming &  
Cutting Products



# Connessione di dispositivi

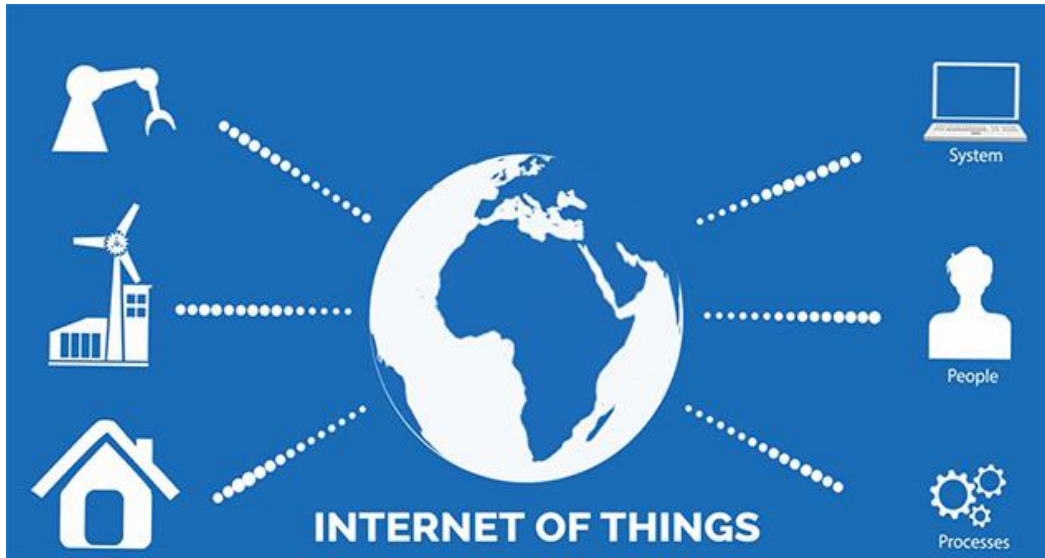


## Vantaggi:

- Monitoraggio in tempo reale
- Ottimizzazione delle prestazioni
- Riduzione dei tempi di fermo macchina
- Maggiore efficienza
- Riduzione dei costi
- Miglioramento della qualità
- Riduzione carta

# Internet delle Cose (IoT)

Ruolo dell'IoT nella connettività industriale:



- Sensori intelligenti
- Tracciamento dei prodotti
- Manutenzione predittiva

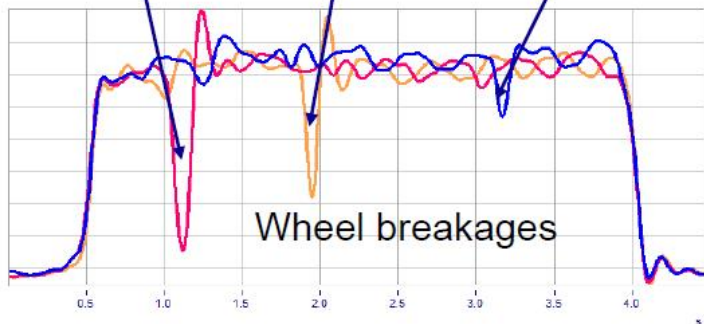
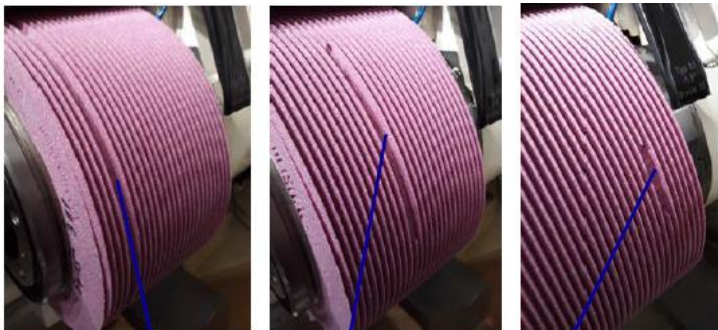
## Tecnologie di rete utilizzate nell'Industria 4.0:

- Ethernet
- Wi-Fi
- 5G





# Analisi Vibrazionale



Un set di **Sensori Vibrazionali**  
Monitoraggio in tempo reale dello stato  
qualitativo della lavorazione su machine di  
rettifica denti

**Sensore di vibrazione** montato sulla Reishauer



# Esempio di risultato progetto di stage



## HEALTH CHECK - MACHINE STATE



ZEISS		HUMMEL	
ZEISS PRISMO		COMBOD	
P26		WELLE	
PNC35		PROFILOMETRO	

	STATO OK		HEALTH CHECK IN SCADENZA
	STATO NON OK		

## ESEMPIO STATE UPDATE PER PNC35

### PIANO DI PULIZIA

	CB	T/F
Verifica pulsante di emergenza	<input type="checkbox"/>	FALSO
Verifica pulsantiera (joystick)	<input type="checkbox"/>	FALSO
Pressione Pneumatica	<input type="checkbox"/>	FALSO
Pulizia Scrivania,Macchina	<input type="checkbox"/>	FALSO
Pulizia Mandrini,Supporti	<input type="checkbox"/>	FALSO
Pulizia contenitore porta pezzo	<input type="checkbox"/>	FALSO
Verifica/rifacimento linee pavimento	<input type="checkbox"/>	FALSO
Verifica targhette e scadenze master	<input type="checkbox"/>	FALSO

Task Completate	0
% Task completate	0%

### VERIFICHE DI PROCESSO

	CB	T/F
Calibrazione Tastatori con Sfera master MJU 458959	<input type="checkbox"/>	FALSO
Verifica con Master_Ingranaggi	<input type="checkbox"/>	FALSO

Task Completate	0
% Task completate	0%

Task Completate

0
---

# Creazione di rete: i seminari dell'ITS



## SEMINARI 4.0

LA FORMAZIONE 4.0  
DEI DOCENTI



FORM DI ISCRIZIONE

BARI 25 GENNAIO 2023



LA FABBRICA CONNESSA  
SMART MANUFACTURING

BRINDISI 15 FEBBRAIO 2023



LA TRASFORMAZIONE DIGITALE  
DELL'INDUSTRIA: LEAN  
ORGANIZATION & INDUSTRY 4.0

ANDRIA 22 FEBBRAIO 2023



DALLA SIMULAZIONE DEI  
PROCESSI PRODUTTIVI  
AL DIGITAL TWIN

TARANTO 6 MARZO 2023



GREEN ECONOMY E  
SOSTENIBILITÀ AMBIENTALE

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[ufficiotecnico@itsmeccatronicapuglia.it](mailto:ufficiotecnico@itsmeccatronicapuglia.it)

