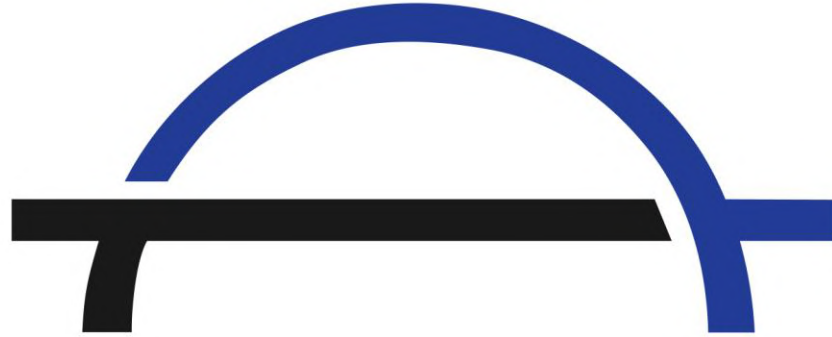




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Connecting Businesses

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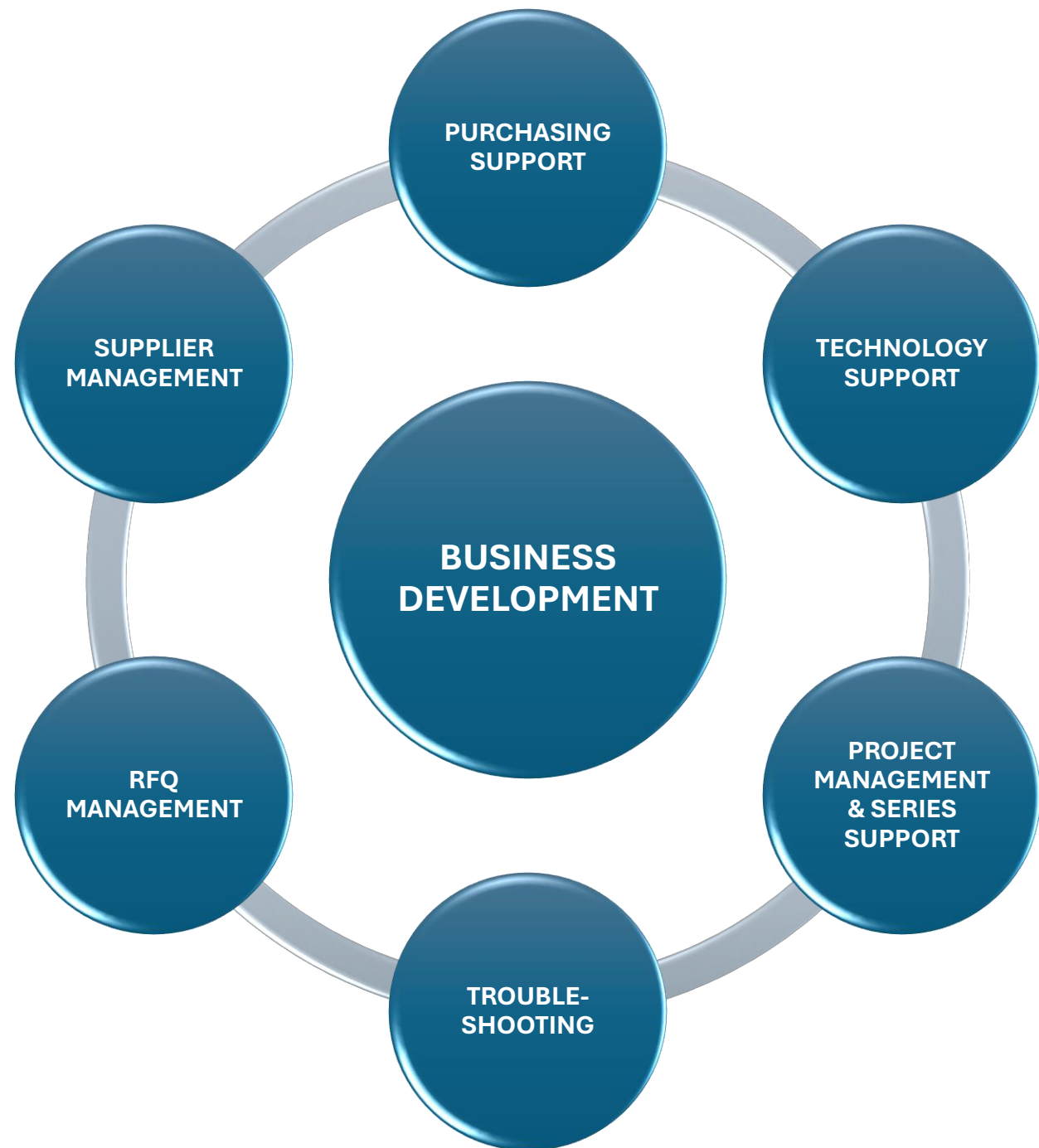
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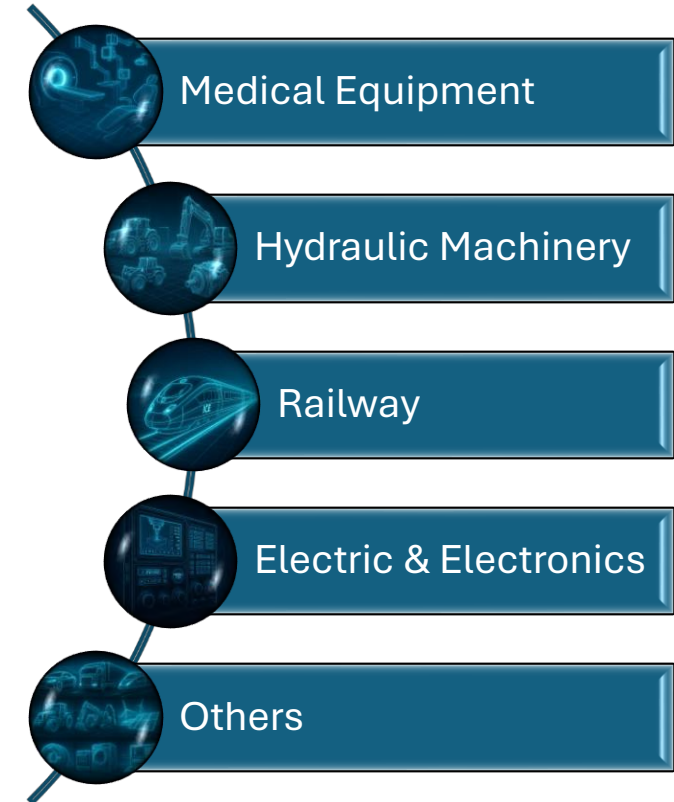
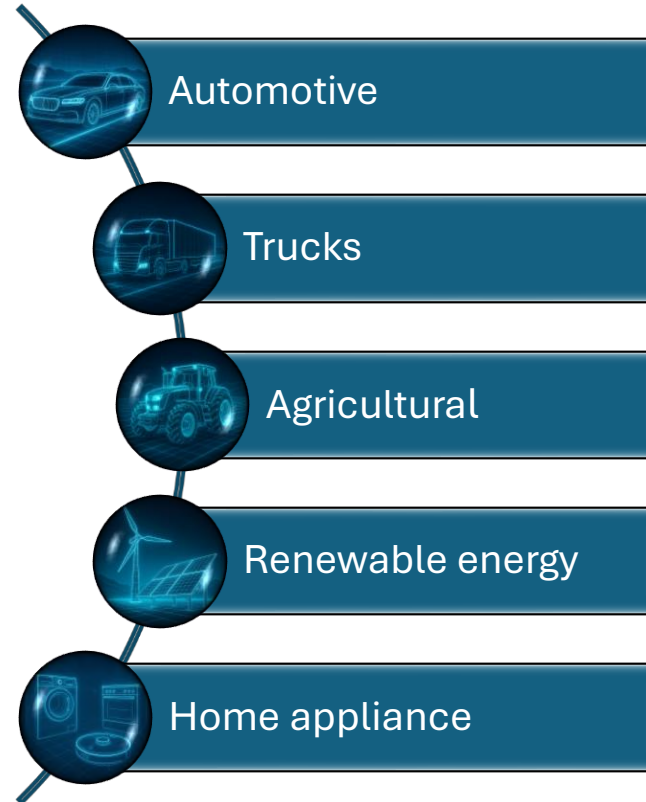
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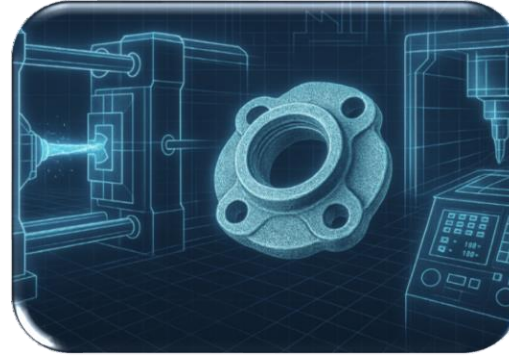
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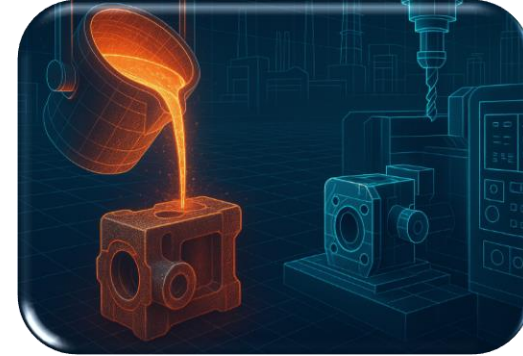
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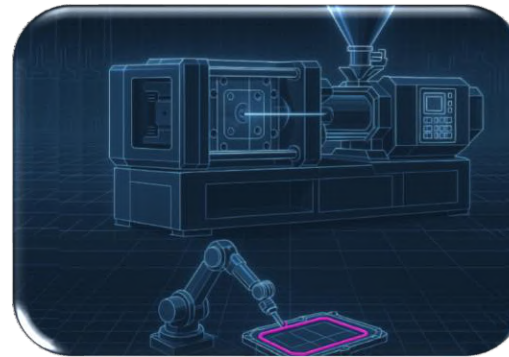
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Ferrous Metal
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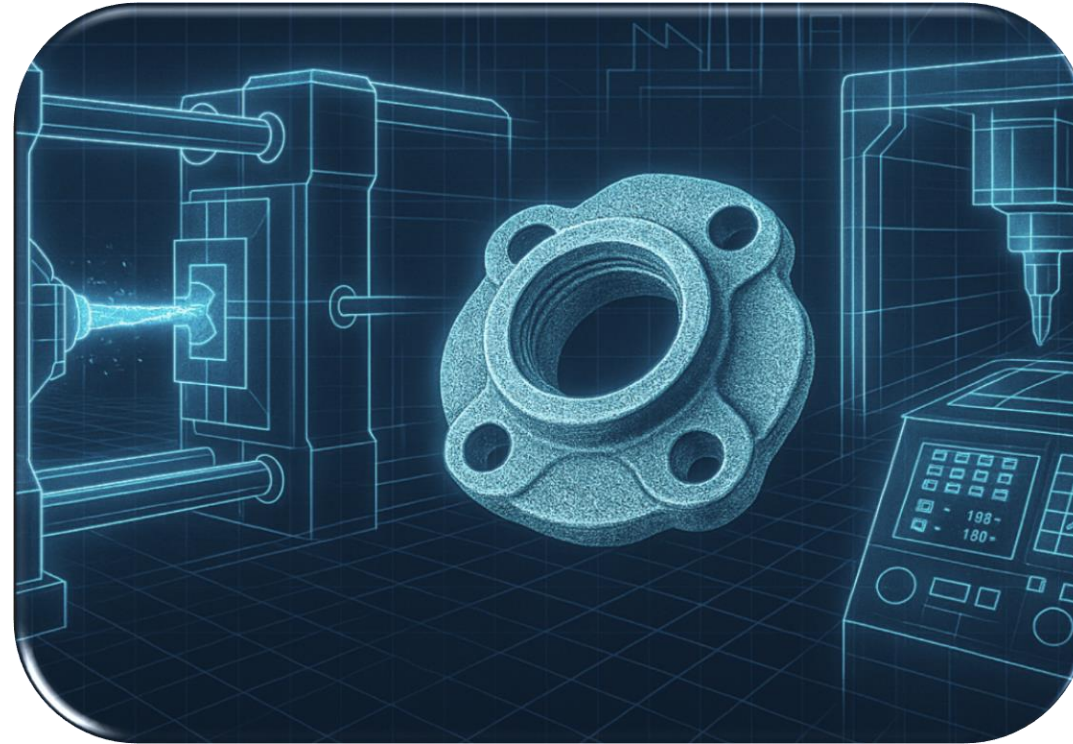
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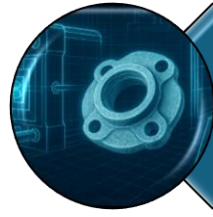
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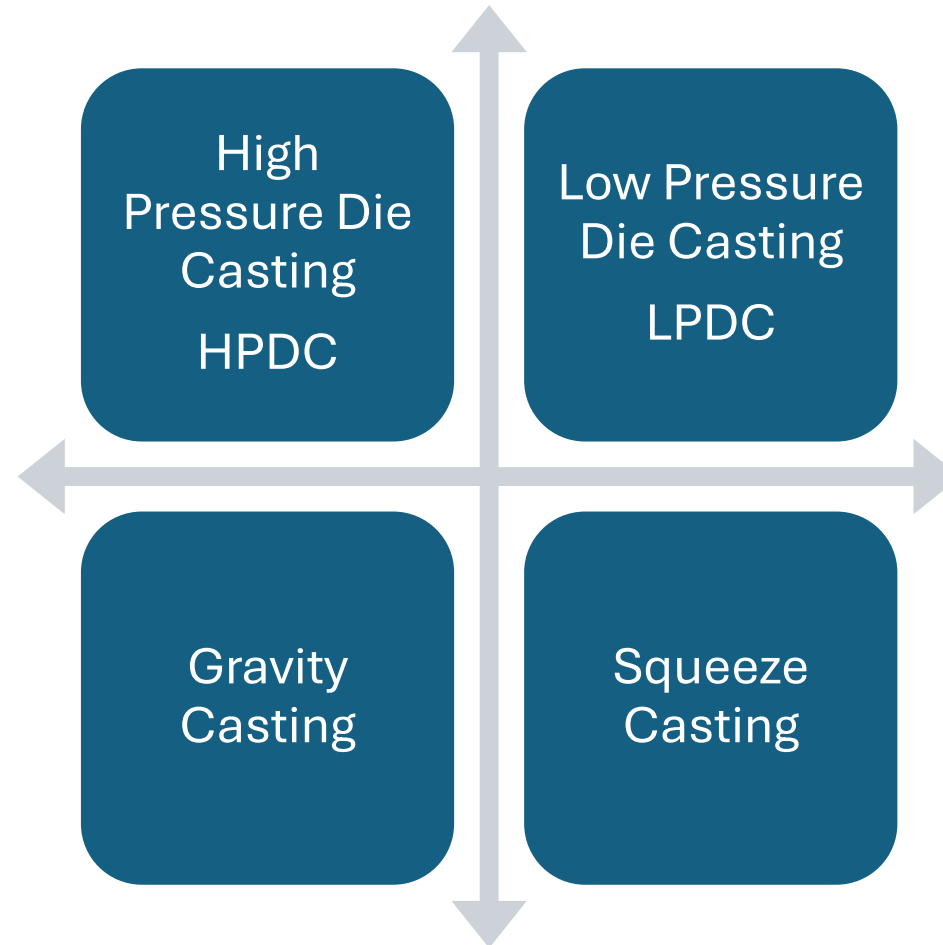
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Light Metal Casting



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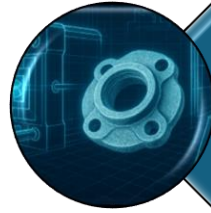
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High Pressure Die Casting

Aluminium HPDC (160Tn-2.200Tn)

Zamak HPDC (80Tn – 220Tn)

Machining, Assembling, Tests...

Treatments (Diverse surface & material)

High Production
Speed

Excellent surface
finish

Thin-wall capacity



Diverse Aluminium
Alloys

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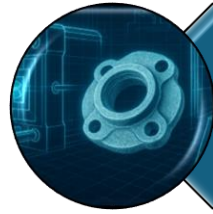
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Low Pressure Die Casting

3 LPDC machines

Weight from 0,1kg to 30kg

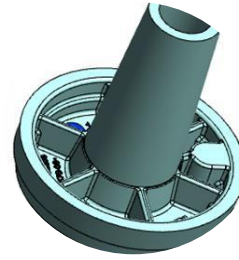
Machining, Assembling, Tests

Treatments (Diverse surface & material)

Controlled filling
process

Low porosity parts

Good mechanical
strength



Diverse Aluminium
Alloys

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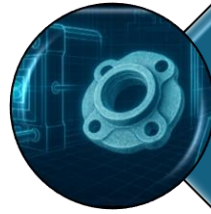
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Gravity Casting

6 Manual cells + 3 Robotic cells

Weight from 0,1kg to 35kg

Machining, Assembling, Tests

Treatments (Diverse surface & material)

Sand core production (internal)

Simple, low cost

Large, thick sections

Flexible alloy choice

Diverse Aluminium Alloys



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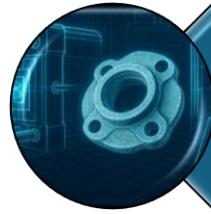
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Squeeze Casting

Squeeze casting (650Tn-1000Tn)

Weight from 0,1kg to 12kg

Machining, Assembling, Tests

Treatments (Diverse surface & material)

Near-forged
strength

Minimal porosity

Fine
microstructure



Diverse Aluminium
Alloys

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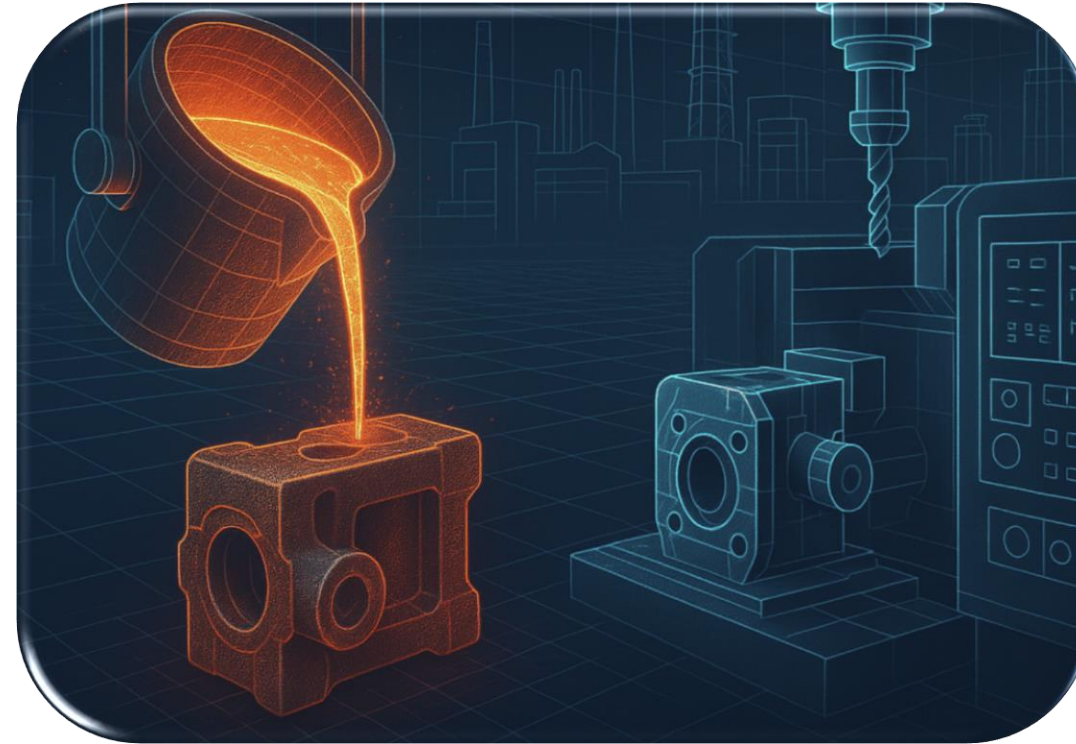
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Ferrous Metal Casting & Forging

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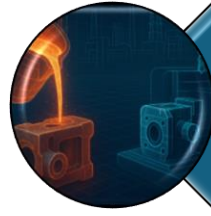
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Production Partners

Casting & Forging

Surface Treatment (KTL, others)

Milling / Turning / Honing

Lapping / Deburring

Cleaning / Leak test

Assemblies

Weights from 250gr – 30kg

Yearly quantities from 2.000 to >1M

Cast Iron

Forged Steel

Magnesium

Titanium

Others (Acc Customer)

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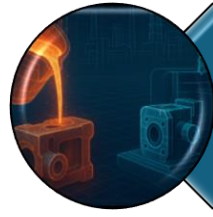
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Project Examples



Hydraulics Plate

23,7 kg - Nodular Iron



Hydraulics Motor Housing

15,3 kg - Gray Iron



Hydraulic Valve Housing

1,024 kg - Ductile Cast Iron



Automotive Exhaust System Bracket

1,4 kg - Ductile cast Iron



Automotive HP Pump Flange

0,508 kg - Grey Iron



Hydraulic Pump Gear Rim

3,45 kg - Ductile Cast Iron

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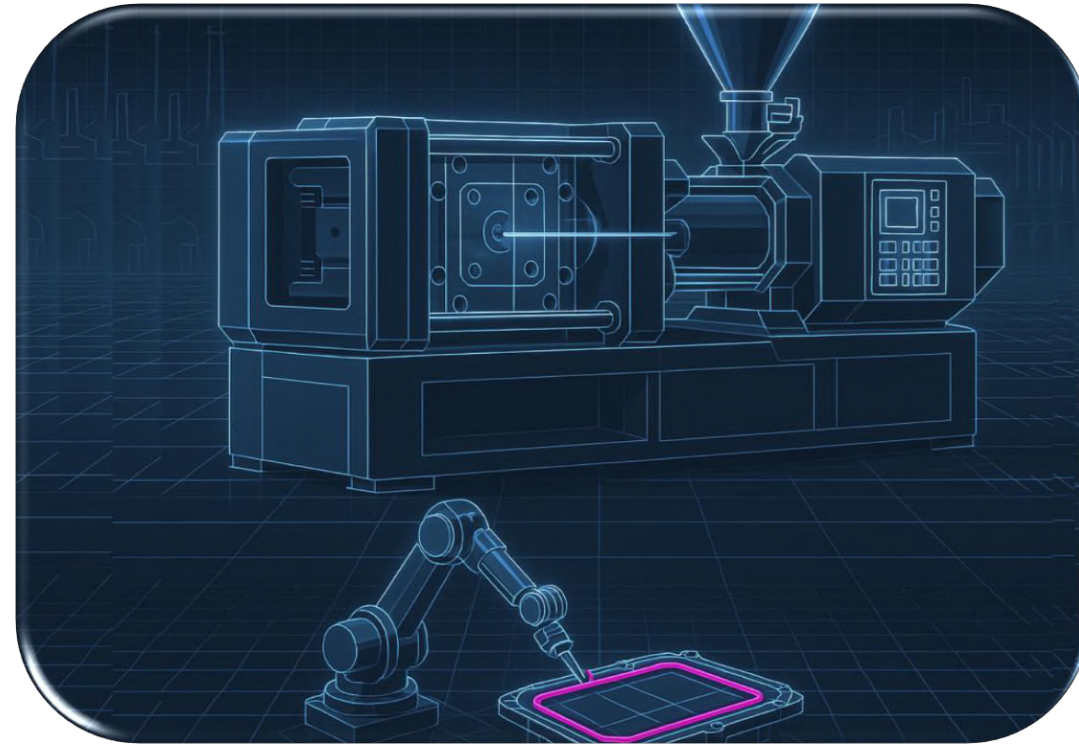
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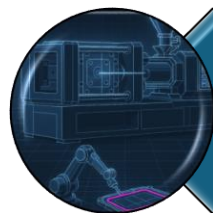
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Production Partners

Technical parts (5Tn – 650Tn)

2K Technical parts (110Tn – 650Tn)

Plastic to Plastic / Rubber / Metal

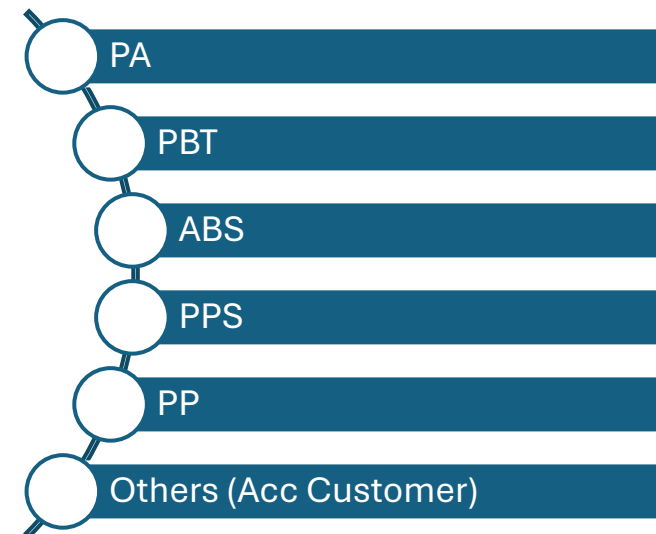
100% Visual Check Stations

Cleaning stations

Assemblies

Weights from 0,5gr to 1,5kg

Yearly series from 1.000 to >3M



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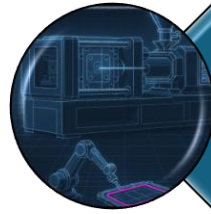
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Project Examples



Combustion Sensor Spigot (Automotive)

PA66 + Brass insert
58 gr



Oil Tank Cover (Automotive)

PA66
208 gr



Fluid Handling Spacers, Retainers & Connectors (Automotive)

PA12 + Diverse GF
Diverse weights



Diverse Valve, Electric & Electronic components



Diverse Medical Equipment Components



Diverse Door Lock Components

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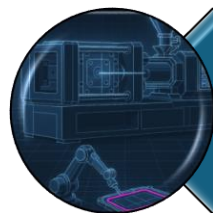
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Project Examples



Air Filter Box (Automotive)

5 different parts assembly from
0,075kg to 0,610kg - PP+TPE
1K and 2k technology



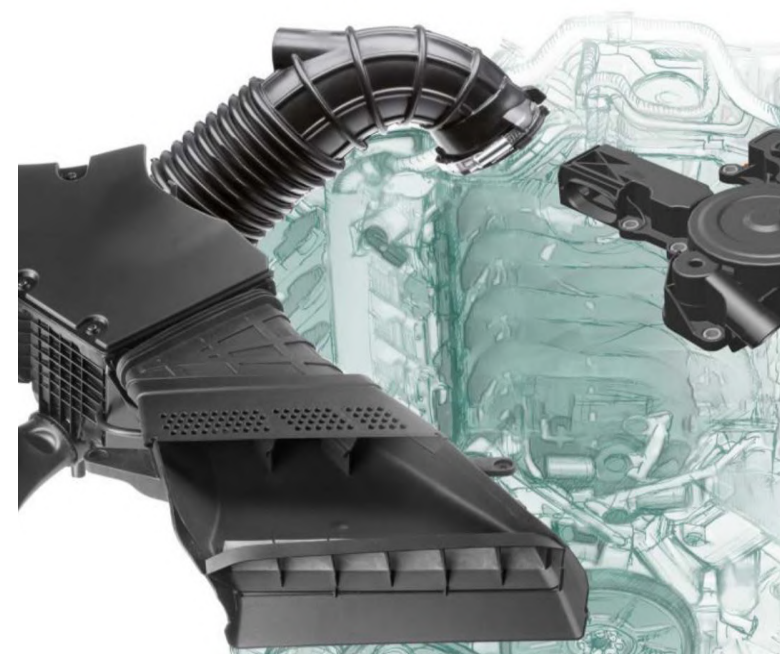
Air Filter Box (Automotive)

2 different parts assembly
0,27kg and 0,48kg - PP+TPE
1K technology



Gear Cover (Automotive)

0,11kg - PAGF35) + 0,013kg -
ACM
Overmoulding



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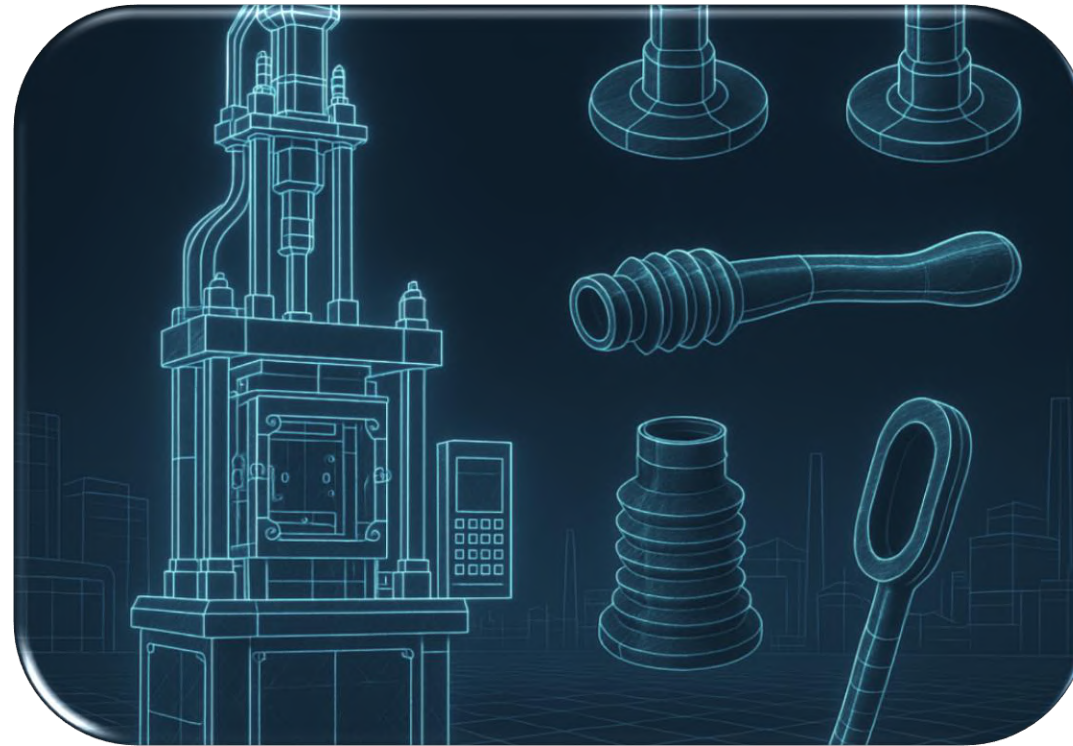
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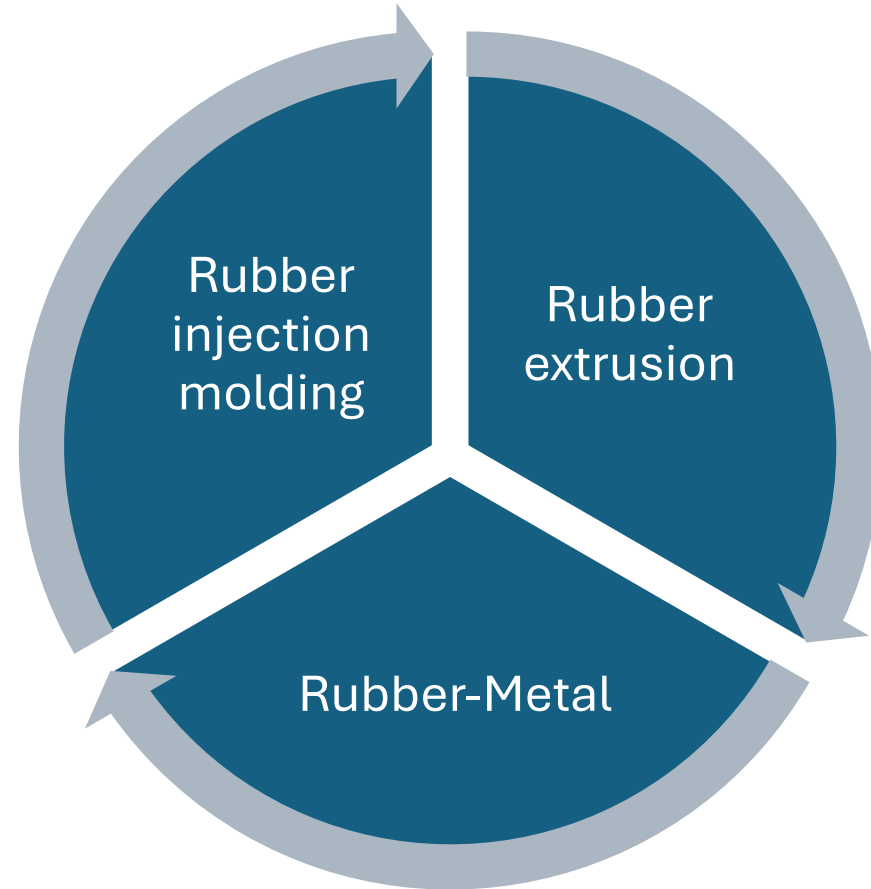
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Rubber injection molding

Rubber Injection (255Tn – 500Tn)

Horizontal & Vertical machines

Cleaning + Postcuring stations

Deflashing (Criogenic) & Drying

EPDM

NR

NBR

HTV

TPE

Others (Acc. Customer)



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Rubber-Metal

Rubber Injection (255Tn – 500Tn)

Horizontal & Vertical machines

Cleaning + Postcuring stations

Buterolage & Calibration

Diverse rubber materials

Rubber-Metal

Rubber-Plastic



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Rubber extrusion

Extrusion for curved tubes

Max length 1,5m

Diverse diameters (interior, exterior)

Assemblies

EPDM

AEM

NBR

Others



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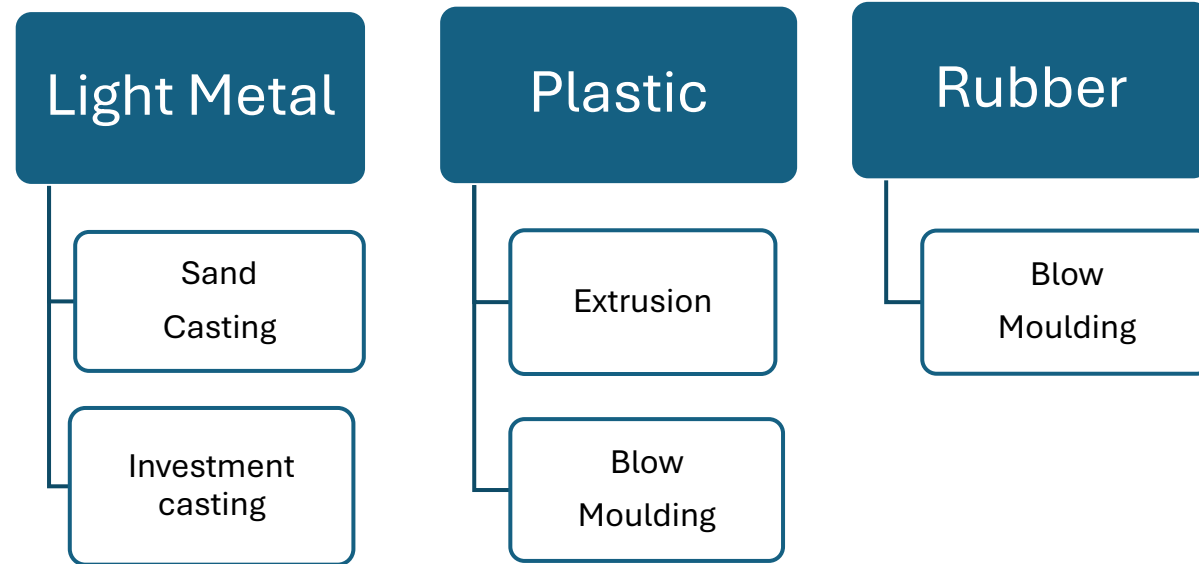
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