

CARBON FIBER
PRODUCTION

01

CARBON TOOLS & PARTS
PRODUCTION - new 2017



MOLDS PLASTICS &
INJECTIONS

02

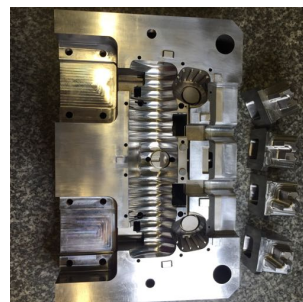
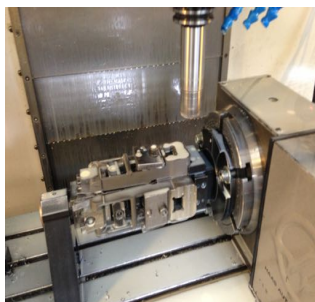
MOLDS FOR PLASTIC



MECHANICAL PARTS &
CAST MILLING

03

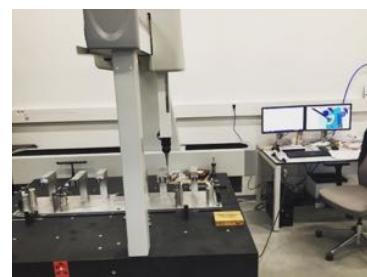
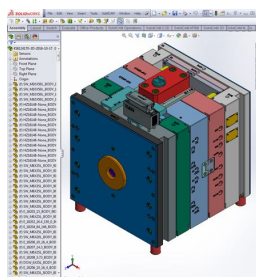
MECHANICAL PARTS &
PROTOTYPES, CASTS



DESIGN & OTHER
SERVICES

04

DESIGN, CAD/CAM,
MEASURING, OTHER SERVICES



COMPANY DETAILS

05



CARBON FIBER PRODUCTION

From idea thru design and
mold manufacturing to visual
part and very precision
technical part

01

Service Process	Description
Autoclave technology	Size of autoclave 4000x1500mm
Pressmolding technology	-maximum size of mold 2000x1300mm -heating plates
RTM technology	-mixing machine Tartler -maximum size of mold 2000x1300mm
Light RTM technology	-maximum size of mold 2400x1500mm
Other service	-bonding jigs -trimming jigs -checking fixtures -measure jigs
Trimming technology	-5 axis CNC technology with maximum size of part 1600x1000mm -3 axis CNC technology with maximum size of part 2400x1500mm
Inspection & Measuring service	-2pcs of 3D CMM -laser scanning -max. size 1200x1000x1000mm



RTM mold BMW Mirror



Autoclave mold



RTM mold



[whole technology for carbon part production]

CARBON FIBER PRODUCTION

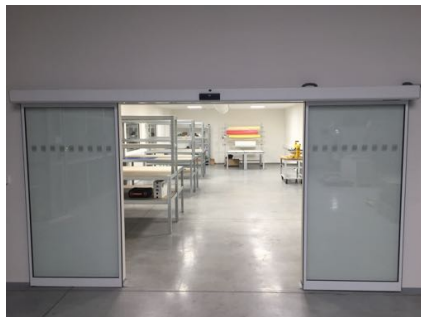
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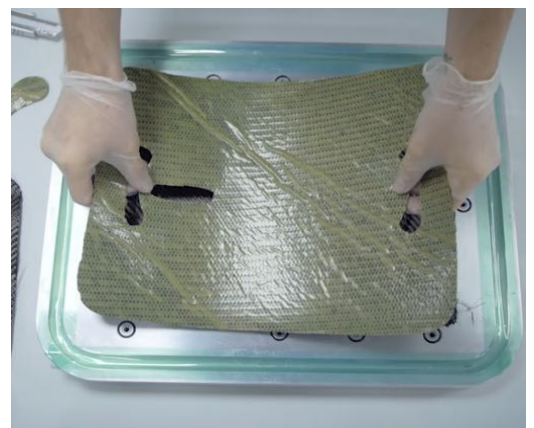
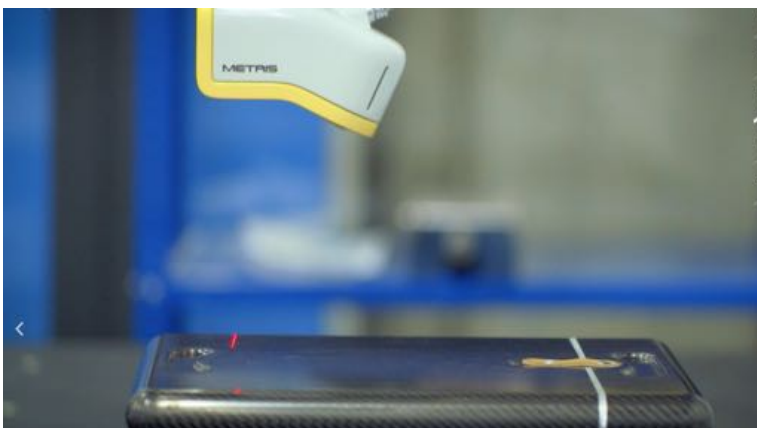
Autoclave 4000xD1500mm



Clean Room



Composite material



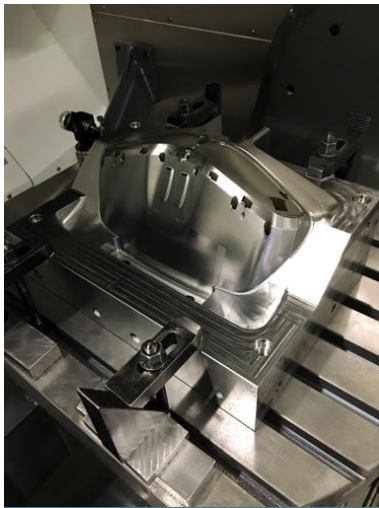
[whole technology for carbon part production]

MOLDS PLASTICS & INJECTIONS

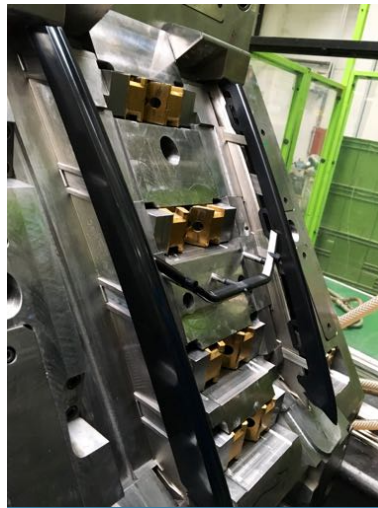
Design, mold manufacturing, injection, measure from small to big parts

02

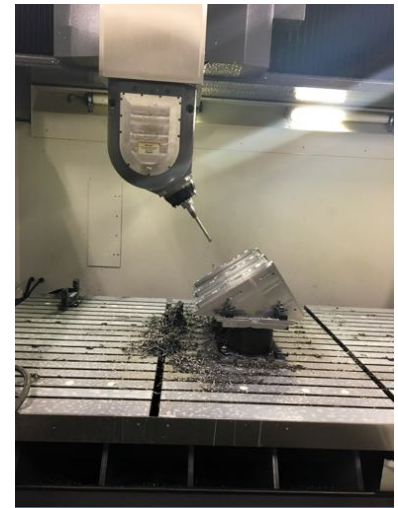
Service Process	Description
Mold design	<ul style="list-style-type: none"> - 4 internal designers - SolidWorks Plastic, Moldex 3D (mold flow) software
Mold manufacturing	<ul style="list-style-type: none"> - manufacturing molds until 5t of weight - 12 pcs of CNC milling machines - 5 pcs of EDM machines - grinding, welding, laser marking, fitting services - possibility of graining application
Mold trialing & mass production of plastic parts	Machines till 200t and mold size max. 1.20x0.8m
Measure	Measuring of parts by 3D CMM or laser scanning
Mold services	Quick repairing & modification
Other services	<ul style="list-style-type: none"> - measure fixtures - fixtures for painting - bonding fixtures



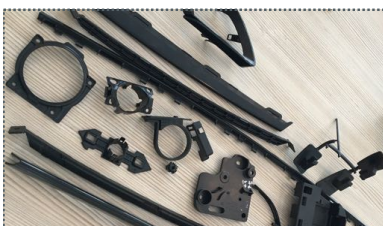
Jeep mold insert on 5axis CNC



Porsche interior parts trialing



Mold frame machining



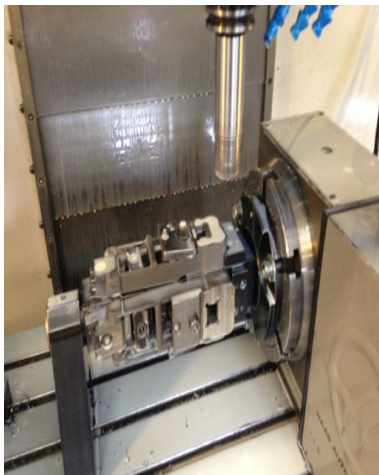
[plastic's injection for all kind of industry]

MECHANICAL PARTS & CAST MILLING

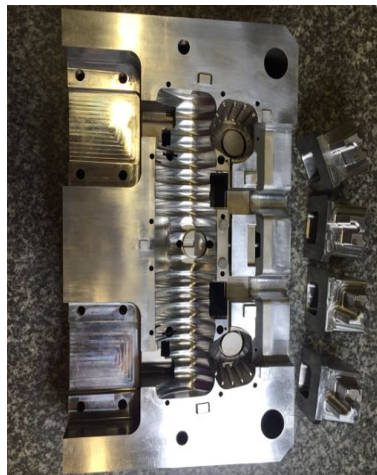
Small or big part, alway very
precision machined on
progressive technology

03

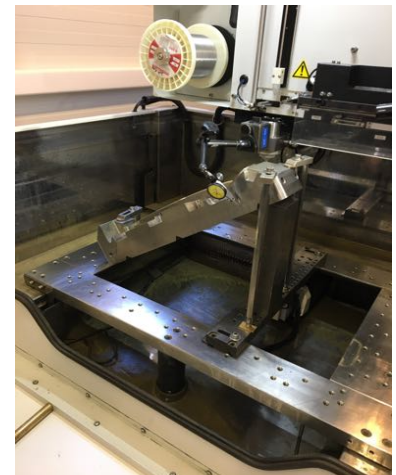
Service Process	Description
CNC machining	-3-5 axis CNC milling (12 machines) -max. part size 2600x1600x800mm -6 axis turning (2 machines) -max. part size D550x700mm
EDM machining	-EDM cutting (2 machines) -max. part size 1000x550x310mm -EDM die sinker (3 machines) -max. part size 1600x800x600mm
Grinding	-surface grinding machines -rotation parts grinding
Laser marking	Possibility of marking & engraving parts
Sand blasting	Blasting with different fractions
Assembly	Light assembling
Mass metal parts & casting machining	4-5 axis multi parts machining vertical & horizontal
Graphite electrodes manufacture	High speed graphite electrode CNC



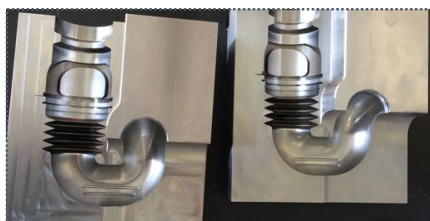
Multi parts casting machining



Metal precision parts



EDM wire cutting



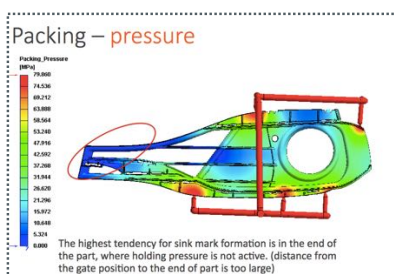
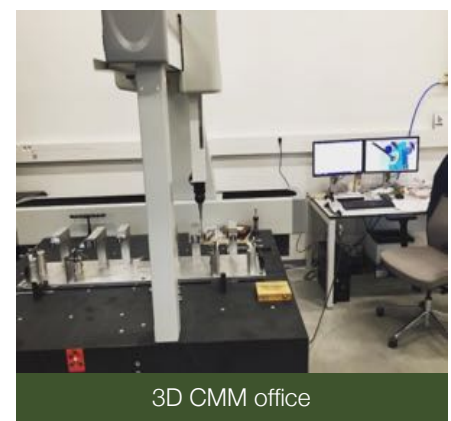
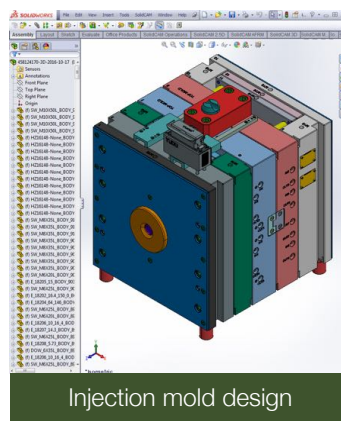
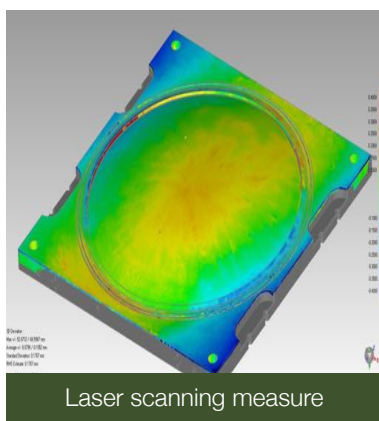
[cost effective precision parts machining]

DESIGN & OTHER SERVICES

All engineering services from design to measuring report under one roof

04

Service Process	Description
Mold design	-autoclave molds -RTM & Light RTM molds -pressmolding molds -molds for plastic injection -molds for precision casting
Mold flow	-simulation of plastic flow in mold -analyze part deformation -setting of injections parameters
Fixtures design	-measure fixtures -fixtures for painting -bonding fixtures -clamping fixtures
CNC programming	Whole production under CAM control -milling -turning -EDM
Electrodes design for EDM	-professional EDM electrodes design & manufacturing -laser scanning validation
Project management	Project management and online sharing of production progress
All data & processes thru ERP system	All data versions & generated data for production process are stored and controlled in company ERP system
Measure service	-2 CMM offices -internet & external laser scanning possibility



[whole pre&post manufacture engineering]

COMPANY DETAILS

Address, economy,
reference...

05

Information	Detail
R&D Mold Date of establish	Year2008
Actual nm. of employees	58 -21 engineering & administration -37 production
Last year turn over	3.1 mil. EUR
Nm. of active customer in year 2016	32
Nm. of shifts	-2-3 shifts in production -1 shift in engineering

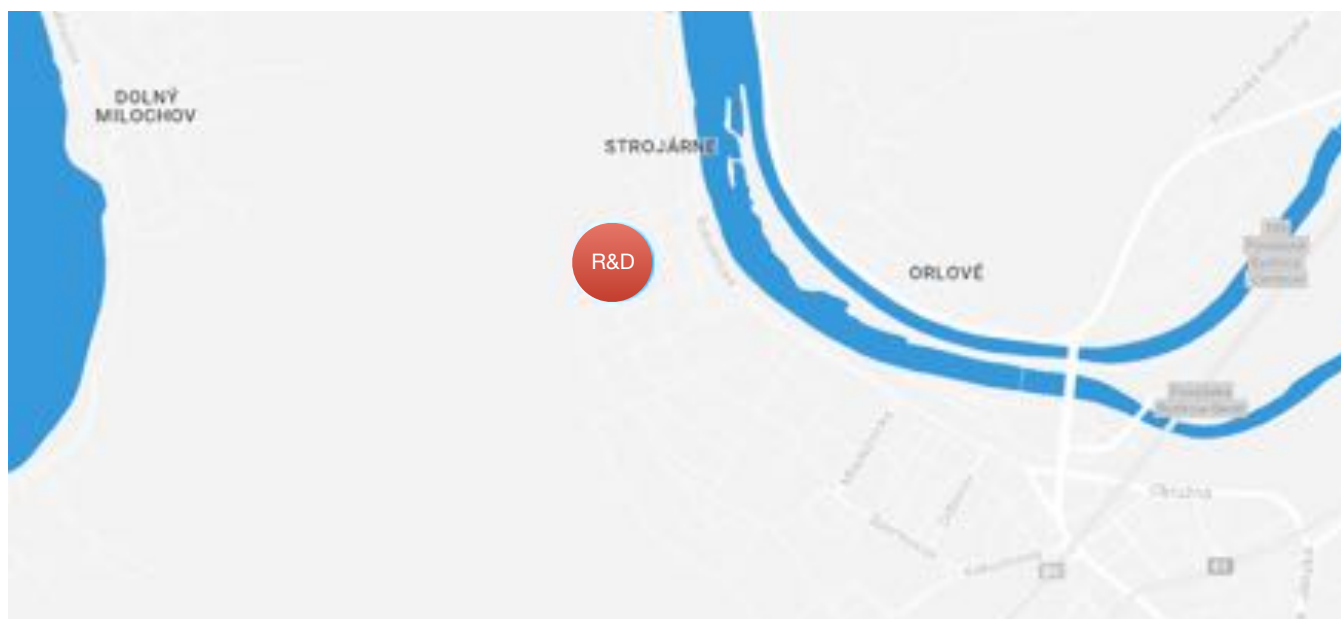
Data	Year 2011	Year 2012	Year 2013	Year 2014	Year 2015	Year 2016
Annual turnover	1.295.610,38 EUR	1.340.531,61 EUR	1.653.558,21 EUR	2.314.864,81 EUR	2.712.142,05 EUR	3.108,220,11 EUR
Number of stable customer	14	22	28	30	32	32
Number of employees	16	26	38	49	51	58
Index of credit	5,83 -AAA	2,93 - AA	2,98 - AA	2,95 - AA	3,88 - AAA	2,91 - AA

Reference name	Industry
Honeywell Brno Czech Republic	Automotive
TRW Bytca Slovakia	Automotive
CRW Spiska /n Ves Slovakia	Automotive
KIA Slovakia, Zilina	Automotive
Eismann automotive, Skalica Slovakia	Automotive
ZKW Light Technology, Topolcany Slovakia	Automotive
Bentley Motor UK/SK	Automotive
VW motor DE	Automotive
Porsche motor DE	Automotive
Logman Povazan a.s SK	Automotive
Dongil Rubber Belt Slovakia, s.r.o.	Automotive (Rubber)
....	

CONTACT

R&D Mold Machining s.r.o.

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