



protospain.com

A perfect partner for prototyping,
pre-series and series

Service offered by:



PRODICEX
SOLUTIONS

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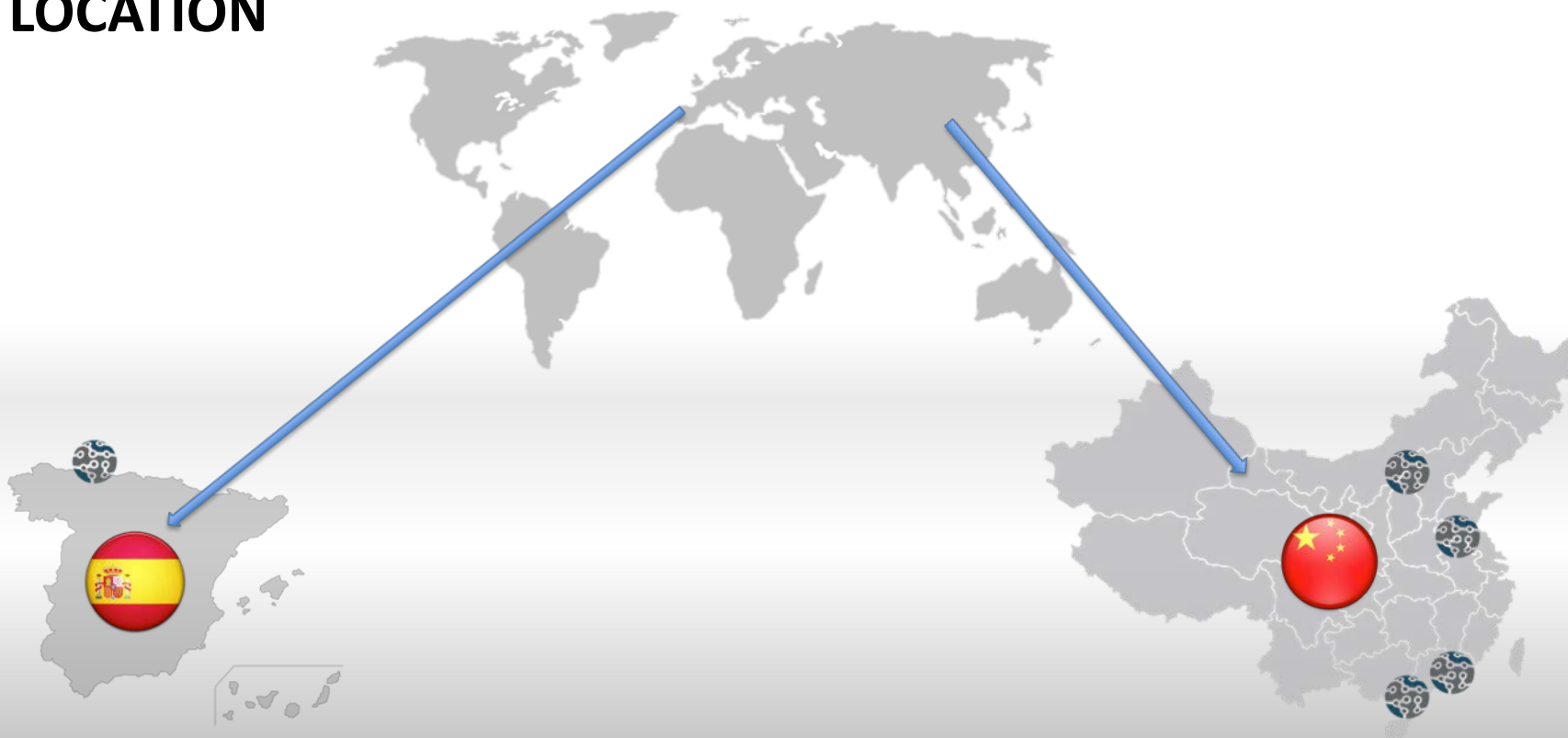
COMPANY PRESENTATION

Following its line of services specialization, **PRODICEX SOLUTIONS, S.L.** creates the brand **PROTOSPAIN** with the aim of offering manufacturing services of rapid prototyping, pre-series, prototype molds and serial production molds.

Therefore, its manufacturing plants are **equipped with state-of-the-art technology, have highly qualified personnel, are extremely flexible and offer a great production capacity**, allowing them to provide the maximum level of service to their clients and to meet their deadlines, quality and pricing commitments.

The **professional background in the industry** of PRODICEX SOLUTIONS, S.L. partners **and its broad experience** with more than 10 years carrying out multiple projects in different areas, together with the satisfaction and recognition of their clients, **have always been their best credentials..**

LOCATION



SERVICES

MAIN TECHNOLOGIES

1. Prototyping and pre-series

- CNC machining → 3 axis, 3+2 axis and 5 axis
- Silicone rubber injection molding
- Stereolithography (SLA)
- Selective laser sintering (SLS)
- Reaction Injection Molding (RIM)

2. Prototyping molds

3. Serial production molds

SERVICES

Materials

We have a wide range of materials to manufacture your parts, whether they are plastic or metal parts. We can provide a detailed technical data sheet to verify its properties, if required by the client.

Finishes

We offer all types of finish, from different levels of polish (ranging from a simple deburring to a mirror polish) to painted, anodized, screen printed, pad printed, etc.

Tolerances

Although we can get tolerances of up to ± 0.02 mm (0.0008 in) in metal parts, in general terms we guarantee tolerances of ± 0.04 mm (0.0015 in) in plastic and metal materials.

OPERATION

PROTOTYPING AND PRE-SERIES QUOTATION

Normally, we can elaborate a quote in 24 hours from the reception of the required information, consisting of:

1. **3D Files** in solid format (IGS, STEP or CATIA, mainly).
2. **Surface finishes:** Directly from the machining process, industrial or mirror polish.
3. **Special finishes:** Machining minimum radii, anodized, painted, UVI treatment, surface finishes affecting its texture, etc.
4. **Number of units or escalation.**
5. **Material** desired for the parts.
6. **Other requirements** including inserts, threaded inserts, added or assembled parts, dimensional reports, etc.
7. **We have a model NDA agreement** in case the client wishes to sign it and does not have its own.
8. **The quotation will detail all the points aforementioned.**

OPERATION

PROTOTYPING MOLDS AND SERIAL PRODUCTION MOLDS QUOTES

Normally, we can elaborate a quote in 24-72 hours from the reception of the required information, consisting of:

1. **3D Files** in solid format (IGS, STEP or CATIA, mainly).
2. **Surface finishes** implying mold texturing.
3. **Additional special finishes:** Painted, screen printed, UVI treatment, etc.
4. **Number of units to be injected** each time and number of units expected of the **product**.
5. **Material** chosen to be injected into the parts.
6. **Other requirements** including inserts, threaded inserts, added or assembled parts, dimensional reports, etc.
7. **We have a model NDA agreement** in case the client wishes to sign it and does not have its own.
8. **The quotation will detail all the points aforementioned.**

GUARANTEES

QUALITY

The continuous investment in the most advanced technology and the ongoing improvement of our processes, allow us to offer our clients a final product with the most demanding finishes.

DEADLINE

Our output capacity allow us to offer a strong competitive advantage guaranteeing strict deadlines.

PRICE










The economies of scale achieved in manufacturing, allow us to reduce the price and increase the profit margins of our customers.

SAMPLES

Below you can find a brief sample of the pieces manufactured with different materials and using different technologies, indicating the finish levels and tolerances, as well as transportation and manufacturing lead times estimations for your information.










Nowadays, we stay focused on the automotive industry, carrying out several projects, specially in functional lighting but we have also carried out projects in rear mirrors, bumpers, rear and front lighting, logos, interior parts (functional), etc.

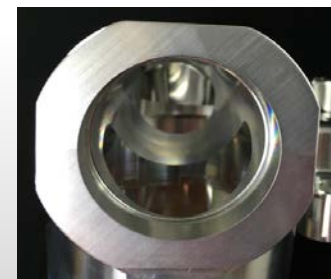
FLAP - MOTOR CASE

	Process / Technology	-----	Mech. CNC (5 Axis)
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	12 Days
	Measurements (L X W X H) cm	-----	26 X 16 X 8



CARDAN CASE

	Process / Technology	-----	Mechanized CNC
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	12 Days
	Measurements (L X W X H) cm	-----	28 X 18 X 8



FINS - TURBO










	Process / Technology	-----	Mech. CNC (5 Axis)
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mirror polished
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	8 X 8 X 4



PLATE - METAL



Process / Technology ----- cut, bending, punching



Material ----- Stainless Steel



Surface finishing ----- Deburred



Treatments ----- No



Tolerances ----- +/- 0,2 mm



Mech. Min. Radius ----- No



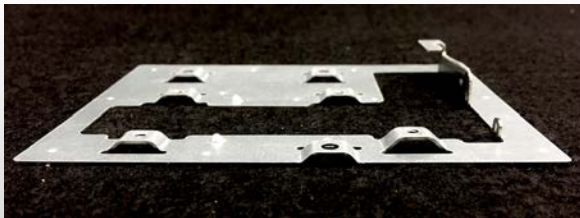
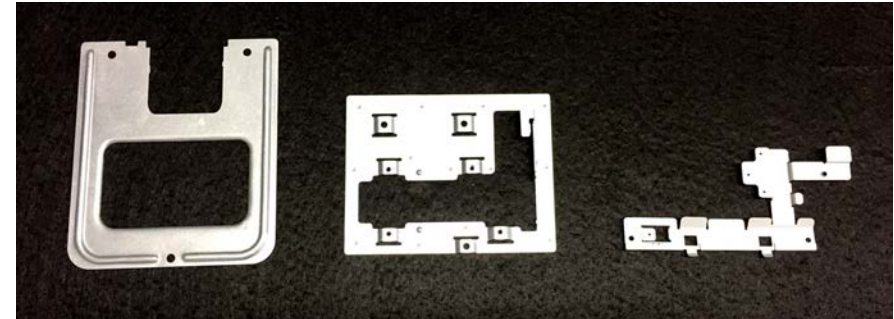
Sector ----- Devices



Leadtime - Total ----- 10 Days



Measurement (L X W X H) cm



FLAP - MOTORCYCLE



Process / Technology ----- Molded by carbon fiber



Material ----- Carbon fiber



Surface finishing ----- Glossy polished



Treatments ----- No



Tolerances ----- +/- 0,5 mm



Mech. Min. Radius ----- No



Sector ----- Automotive












Leadtime - Total ----- 15 Days

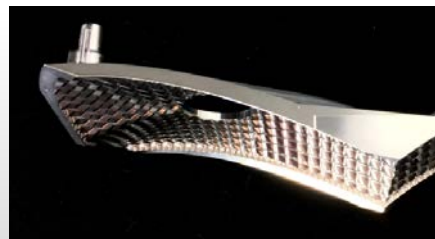
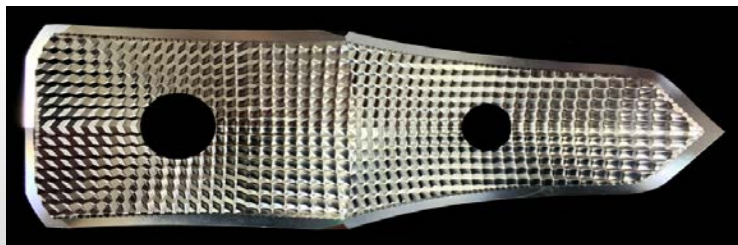
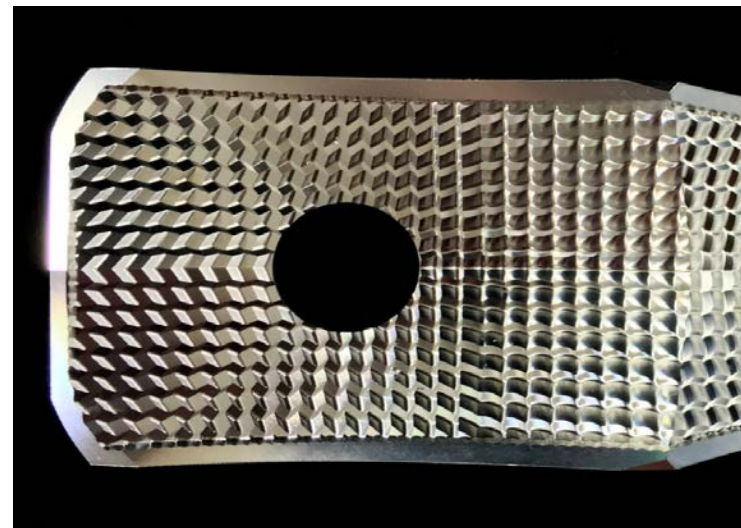


Measurement (L X W X H) cm



REFLECTOR 1

	Process / Technology	-----	Mech. CNC (5 Axis)
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	11 Days
	Measurements (L X W X H) cm	-----	22 X 7 X 5



REFLECTOR 2



Process / Technology ----- Mech. CNC (5 Axis)



Material ----- Stainless Steel 2311



Surface finishing ----- Mechanized



Treatments ----- -



Tolerances ----- +/- 0,04 mm



Mech. Min. Radius ----- 1,00 mm



Sector ----- Automotive












Leadtime - Total ----- 11 Days

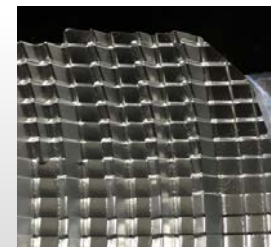
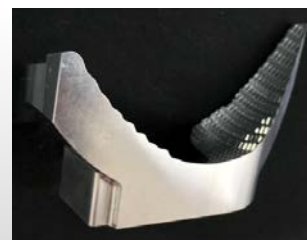
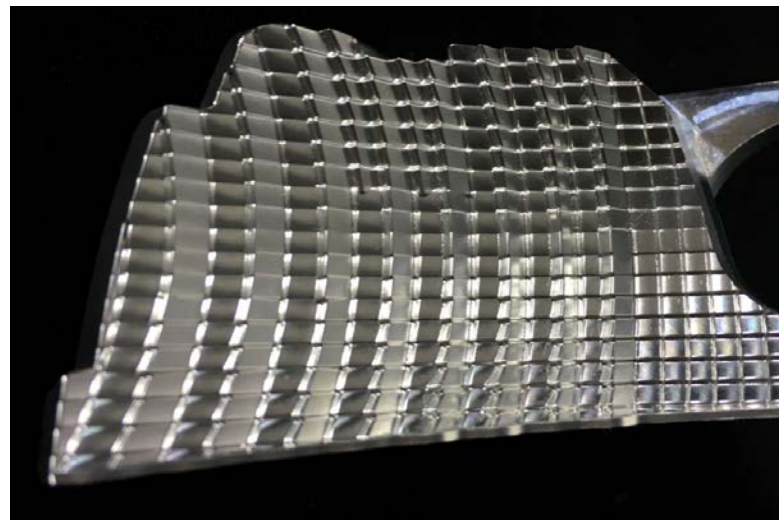


Measurements (L X W X H) cm ----- 16 X 6 X 4












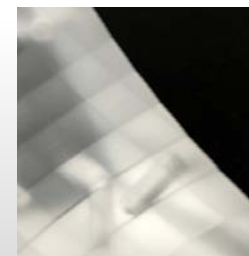
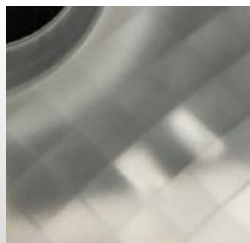
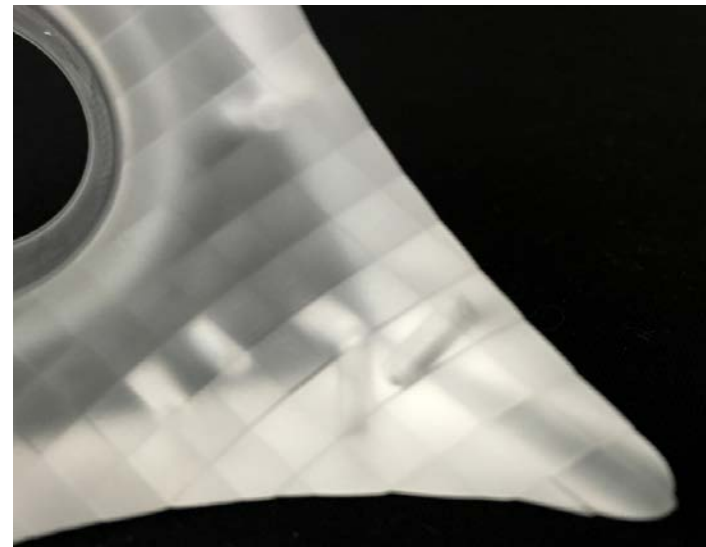
REFLECTOR 3

	Process / Technology	-----	Mechanized CNC
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	11 Days
	Measurements (L X W X H) cm		12 X 4 X 6












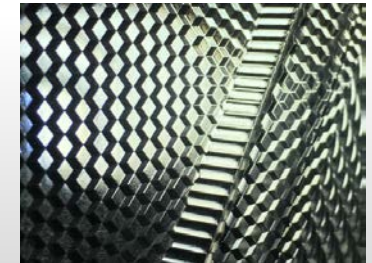
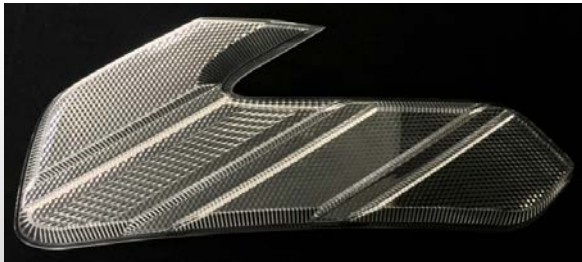
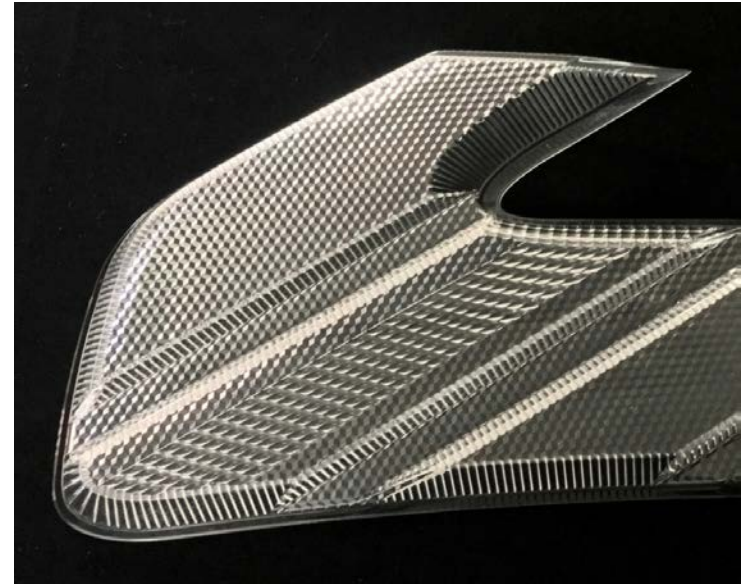
REFLECTOR 4

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,15 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	8 X 8 X 6












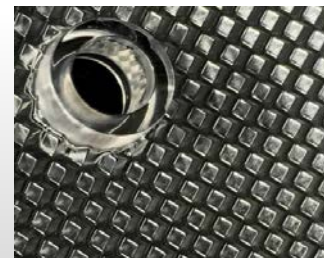
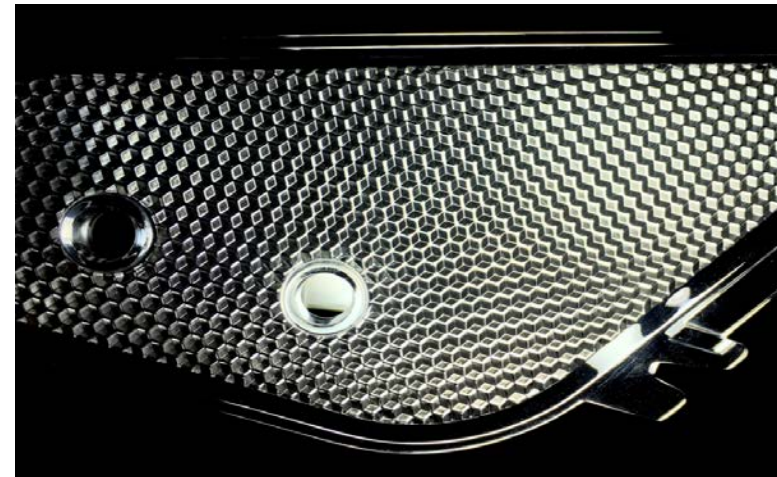
PILOT FILTER 1

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mirror polished (Steam)
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,15 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	11 Days
	Measurements (L X W X H) cm	-----	32 X 14 X 2












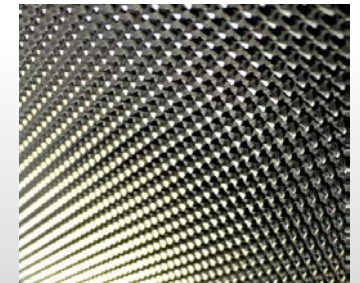
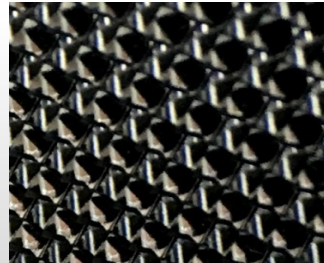
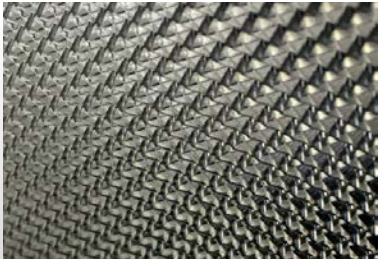
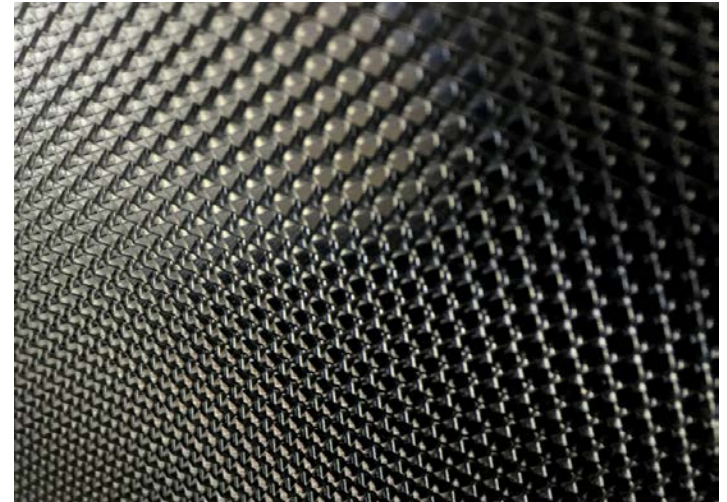
PILOT FILTER 2

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mirror polished (Steam)
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,15 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	10 Days
	Measurements (L X W X H) cm	-----	27 X 7 X 2












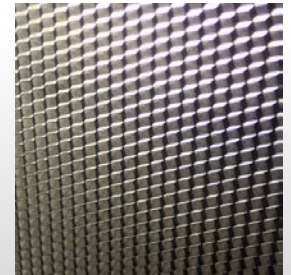
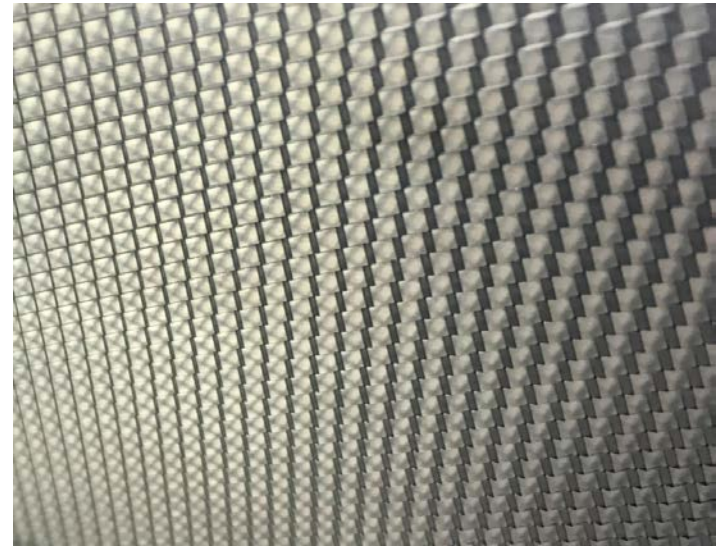
FILTER 3

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mirror polished (Steam)
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,15 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	10 Days
	Measurements (L X W X H) cm	-----	28 X 10 X 0,2












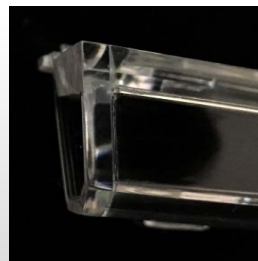
FILTER 4

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,15 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	10 Days
	Measurements (L X W X H) cm	-----	28 X 10 X 0,2












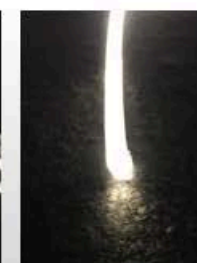
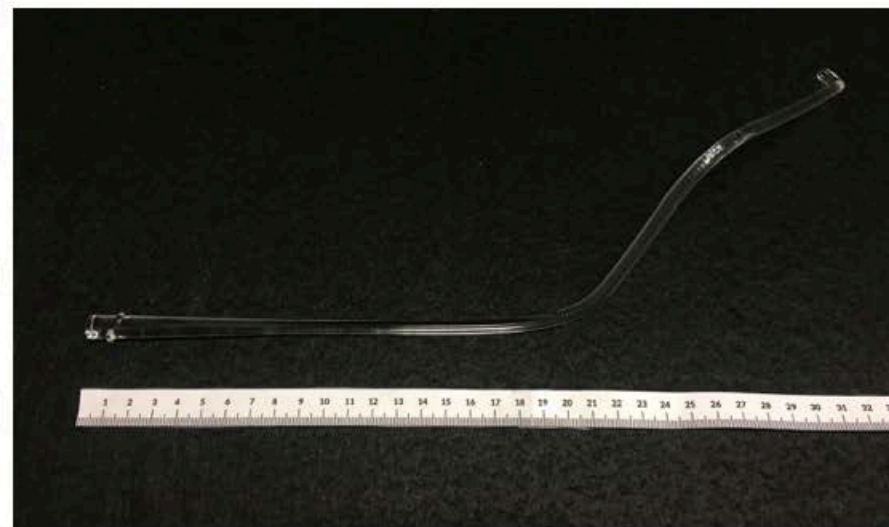
BEZEL

	Process / Technology	-----	Mechanized CNC
	Material	-----	PMMA
	Surface finishing	-----	Mirror polished
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	0,5 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	10 Days
	Measurements (L X W X H) cm	-----	36 X 10 X 6



LIGHT GUIDE

	Process / Technology	Mechanized CNC
	Material	PMMA
	Surface finishing	Mirror polished (Steam)
	Treatments	-
	Tolerances	+/- 0,04 mm
	Mech. Min. Radius	0,1 mm
	Sector	Automotive
	Leadtime - Total	10 Days
	Measurements (L X W X H) cm	38 cm



LIGHT GUIDE VACUUM CASTING



Process / Technology ----- Vacuum Casting



Material ----- PU (Similar PC)



Surface finishing ----- Mirror polished



Treatments ----- Chemical polished



Tolerances ----- +/- 0,05 mm



Mech. Min. Radius -----),10 mm In master piece



Sector ----- Automotive



Leadtime - Total ----- 12 Days



Measurement (L X W X H) cm ----- 39 cm



SUPPORT - CELL



Process / Technology ----- Mechanize CNC



Material ----- PMMA



Surface finishing ----- Mirror polished



Treatments ----- No



Tolerances ----- +/- 0,05 mm



Mech. Min. Radius ----- No



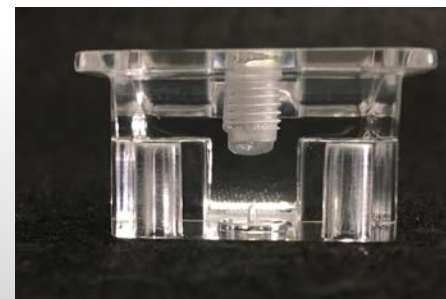
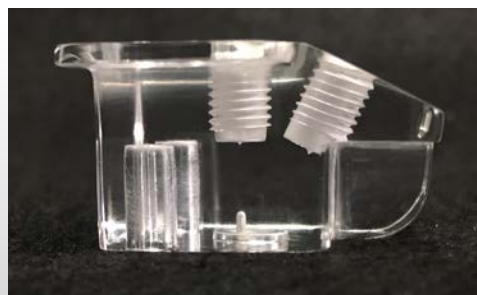
Sector ----- Biotechnology












Leadtime - Total ----- 7 Days



Measurement (L X W X H) cm ----- 4x4x2 cm












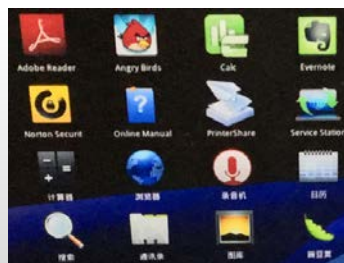
CAR CONSOLE

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, PMMA
	Surface finishing	-----	Mirror polished
	Treatments	-----	Painting / Pad printing
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	2,0 mm
	Sector	-----	Automotive
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	26 X 24 X 4












TABLET 1

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, AL, PC, PIEL SINT.
	Surface finishing	-----	Mirro polished
	Treatments	-----	Painted / Anodized
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	2,0 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	26 X 18 X 2












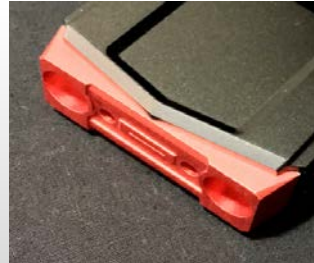
TABLET 2

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, AL, PC
	Surface finishing	-----	Mirror polished
	Treatments	-----	Painted / Anodized
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	2,0 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	24 X 20 X 0,6












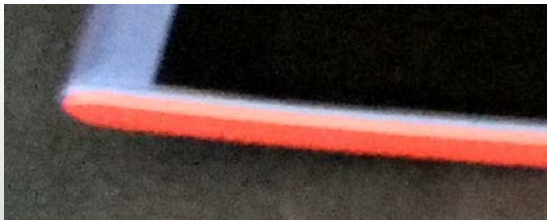
METAL CASE

	Process / Technology	-----	Mechanized CNC
	Material	-----	Aluminum AL-6061T6
	Surface finishing	-----	Mechanized
	Treatments	-----	Anodized / Pad printing
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Devices
	Leadtime - Total	-----	10 Days
	Measurements (L X W X H) cm	-----	13 X 8 X 3












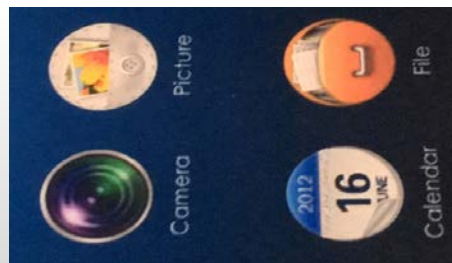
MOBILE PHONE 1

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, AL, PC
	Surface finishing	-----	Mirror polished
	Treatments	-----	Anodized
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,0 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	14 X 6 X 0,6












MOBILE PHOE 2

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, AL, PC
	Surface finishing	-----	Mirror polished
	Treatments	-----	Anodized
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,0 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	14 X 6 X 0,6












SMARTWATCH

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS, PU, PC
	Surface finishing	-----	Painted
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,0 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	7 X 5 X 2












VACCUM CLEANER

	Process / Technology	-----	Mechanized CNC
	Material	-----	AL (AL7075), PC, ABS
	Surface finishing	-----	Mirror polished
	Treatments	-----	Painted / Anodized
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Devices
	Leadtime - Total	-----	11 Days
	Measurements (L X W X H) cm	-----	40 X 22 X 28



MIXER

	Process / Technology	-----	Mechanized CNC
	Material	-----	AL (AL7075), PC, ABS
	Surface finishing	-----	Mirror polished
	Treatments	-----	I/Anodized/Pad printing
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Devices
	Leadtime - Total	-----	11 Days
	Measurements (L X W X H) cm	-----	26 X 26 X 28



SAMPLES FINISHINGS IN PC



Process / Technology ----- Mechanized CNC



Material ----- PC



Surface finishing ----- Mirror polished



Treatments ----- -



Tolerances ----- +/- 0,04 mm



Mech. Min. Radius ----- 0,15 mm



Sector ----- Automotive












Leadtime - Total ----- 9 Days



Measurements (L X W X H) cm ----- 18 X 6 X 2












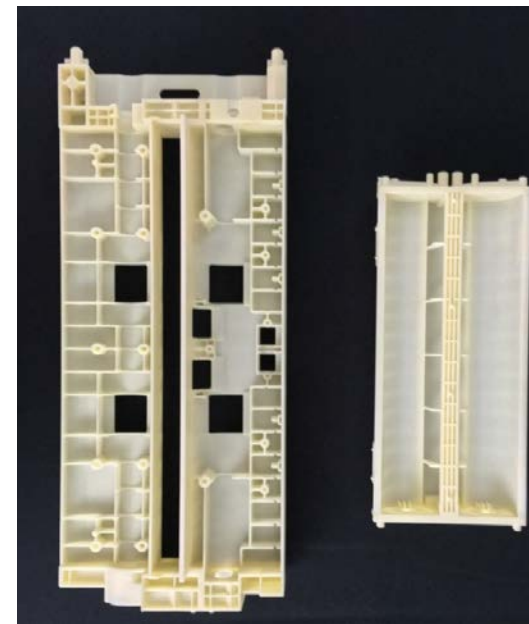
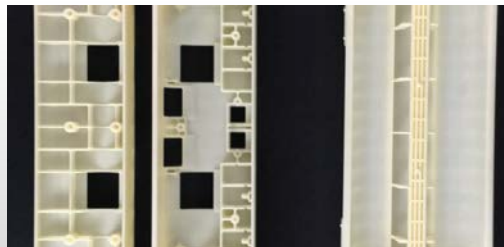
FAN

	Process / Technology	-----	Mecaniz. CNC (5 Axis)
	Material	-----	ABS
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	32 X 32 X 4



PRINTER

	Process / Technology	-----	Mechanized CNC
	Material	-----	ABS
	Surface finishing	-----	Mechanized
	Treatments	-----	-
	Tolerances	-----	+/- 0,04 mm
	Mech. Min. Radius	-----	1,00 mm
	Sector	-----	Devices
	Leadtime - Total	-----	9 Days
	Measurements (L X W X H) cm	-----	42 X 16 X 6



CONTACT



César Burón Alonso
Managing partner – Projects
cesar.buron@prodicex.com
+34 626 10 17 06



Gonzalo García Jul
Managing partner – Operations
gonzalo.garcia@prodicex.com
+34 630 43 69 75

Prodicex Solutions, S.L.
CEEI – Centro Europeo de Empresas e Innovación
Parque Tecnológico de Asturias.
Zip code: 33428
Llanera (Arroyo)
Asturias
Spain

PROTOSPAIN IS A REGISTERED TRADEMARK OF PRODICEX SOLUTIONS, S.L.