

The logo for ARRK, featuring the letters in a bold, italicized, sans-serif font. The background of the entire page is a blue-tinted image of a car's chassis and components, with a grid pattern and some technical-looking lines overlaid.

ARRK

SPG Pre-Series Tooling & Prototyping B.V.

Automotive

**Shaping
the world of
tomorrow**

Driven by experience, motivated by your ideas

With dedicated **project management** and extensive experience in **Prototyping**, **Pre-Series** and **Low Volume Production** of plastic and metal parts, we serve the Automotive, Lighting and Design & Industry sector. This enables us to embody your wildest ideas!



Project Management



Motivated to fulfill

Project Management & Logistics

- Planning, EDI & RFID labeling
- Pro-active approach with sense of ownership

Quality control

- Parts measurement 3D CMM, tactile or scanning
- Process FMEA and control plan
- PPAP / EMPB & IMDS registration

Certificates

- ISO9001:2015 / ISO14001:2015
- ISO27001:2017 and TISAX-Label

Assembly & Finishing

Ready to install

- Complex assemblies with multiple options, e.g. bumper facias and door panels
- Functional lighting modules including PCB's

Welding and Industrial gluing

Full surface finishing

- Painting: Soft-touch, texture and high gloss painting
- Laser texturing, machining and etching
- E-coating (KTL), Electroplating and anodizing
- Flocking and galvanic chrome plating
- Metallization and PVD-coating
- And many more...

Prototyping



From 1 up to ...

CNC-machining

- Of a wide range of plastic block materials including engineering plastics
- Of metals including stainless steel, aluminium and brass
- Block modelling

PU-vacuum casting

- Of a wide range of materials
- Including 2-/3-shot casting
- Standardized colours and surface finishing for (semi-)translucent materials
- Silicone tools based on CNC-machined masters for excellent surface quality, highest accuracy and optimum dimensional stability

Silicone casting and extrusion

- Of high spec silicone part applications

Sheet metal cut & press

ARRK global 3D-Rapid Prototyping

- SLS Selective Laser Sintering
- SLA Stereolithography
- Polyjet (Objet)
- DMLS / SLM Metal Sintering

Special Competence

Lighting applications and show cars interior trim and modules

Low Volume Production



50 ~ 2.000 parts or assemblies

Injection moulding

- Using aluminium moulds operated at SPG as well as rapid steel non-export moulds operated from our ARRK Far East facilities
- PRE-TENSION Tool® for large mouldings
- In-Mould-Decoration (IMD) & IML/FIM with printing electronics
- Including 2-/3-shot over-moulding, gas injection (GID) and Sequential Valve Gating (SQV)
- Expandable plastics EPP & PUR-Foaming

Light-weight solutions

- MuCell® and Chemical foaming
- CRFP composite solutions (TP-prepreg over-moulding)
- D-LFT Direct Long Fiber Thermoplastic moulding

Blow moulding

Thermoforming

Liquid Silicone Rubber (LSR)

High Pressure Die-Casting (HPDC)

Extrusion

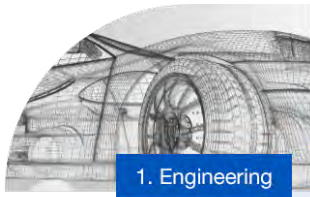
- Of plastics, silicone rubber and aluminium

Sheet metal stamping, deep drawing and pressing

Special Competence

Full finished and assembled modules for automotive and truck industry

SPG Pre-Series Tooling & Prototyping B.V.



1. Engineering



2. Rapid Prototyping



3. Raw Materials



10. Logistics



4. Toolmaking



9. Warehousing



5. Parts Production



8. Quality Control



7. Assembly



6. Finishing

ARRK Corporation



International technology group established in Japan in 1948

- > 3.800 employees
- > 20 companies in 15 countries



ARRK SPG



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Interested in what we can do for you?
www.spg-arrk.nl