Expertise in PLASTICS
PARAT is the expert for innovative, custom-made plastic concepts. Over the decades, PARAT has managed to make itself a big name in the plastics engineering business and stands for cutting-edge products that reach out from the shelf.

PARAT has gathered many years of experience in many industrial sectors such as construction machines, agricultural engines, recreational vehicles, heavy trucks, automotive, energy or electromobility industries. PARAT comes up with tailored solutions designed around your specific needs.

PARAT is a one-stop shop and IATF certified system supplier that leads you through all stages of project execution for your exterior and interior components: from product design right up to series production - all under one roof.

**THE CERTIFIED SYSTEM SUPPLIER.**

**System Partner**

1. **Design**
   - R&D → design → model making

**Module Partner**

2. **Engineering**
   - CAD Engineering → selecting technology

**Components Partner**

3. **Project work**
   - tool making → validation → SOP
EXPERTISE IN PLASTICS

PARAT offers a broad range of technologies, a high-tech machinery and plant equipment and operates one of the largest LFI plants designed for producing extremely large components.

With the most advanced technologies, PARAT can cater for a great variety of customer wishes. From composite technology, fiber-reinforced plastics for complex and highly demanding applications up to innovative surface technologies.

PARAT is your specialist partner for every possible application!

• high-strength structural components
• uncompromising lightweight design with high fiber content
• maximum systems integration

• high dimensional stability under heat and long-term durability
• innovative surface technologies
• optimal cost-effectiveness
SURFACE TECHNOLOGIES.

CLASS A FILM TECHNOLOGY
- high gloss
- dyed-through film
- highly weather-proof and lightfast
- corrosion-resistant
- high strength
- scratch-resistant
- easy to repair

SOFT-TOUCH FILM TECHNOLOGY
- high-spec surface with a sophisticated touch
- different grains and structures possible
- hard-wearing and abrasion-proof
- anti-slip
- surface generation via 'one-shot process'
- low-emission

IN-MOULD COATING (IMC)
- high-grade structured surfaces
- various grains and structures possible
- low investment cost
- surface generation via 'one-shot process'
- customized color schemes

LAMINATING
- premium surface finishing with laminated textiles
- impressive look
- low tooling cost
- manufactory work
PLASTICS TECHNOLOGIES.

TF - THERMOFORMING

1. heating of plastic sheet
2. pre-stretching of plastic sheet
3. tool rises; vacuum draws preformed sheet tightly onto male mould
4. cooling of plastic mould
5. tool is removed from plastic mould
6. CNC milling

LFI - LONG FIBRE INJECTION

1. thermoforming sheet / film
2. inserting preformed sheet / film
3. injection of PUR glass fiber mix
4. reaction and curing
5. demoulding and removal

RIM - REACTION INJECTION MOLDING

1a. inserting film
1b. In-Mould Coating is sprayed onto the mould
2. PUR mixture is injected into closed mould
3. reaction and curing
4. demoulding and removal