

figure 1: global partner for plastic trim parts and structural components

## PARAT GROUP: THE PLASTICS EXPERT FOR TRIM COMPONENTS

With strong international presence, the PARAT Group is a renowned partner in the field of highly functional plastic trim parts and structural components. Thanks to our wide range of technologies, PARAT Group offers you a full spectrum of products – from a simple thermoformed part up to high-grade composite system components with complex geometric shapes.

As a globally active and reliable system partner, we support our customers right from the development phase through the series production of formed components for exterior and interior applications.

Being a leading innovator with a focus on thermoforming, RIM and LFI as key technology pillars, PARAT Group is perfectly positioned to meet demanding OEM requirements in the agricultural and construction machinery industry, recreational and commercial vehicle industry as well as energy industries worldwide.

As the world's largest LFI manufacturer with its core competencies in the ,agricultural machinery and construction vehicles' sector, we also offer exclusive engineering and development support.



figure 2: the market segments of PARAT Group

## PARAT GROUP: THE DEVELOPMENT PARTNER

As a leading innovator in the field of highly-functional plastic trim parts and structural components, PARAT Group offers exclusive engineering and development support at the company's in-house Development and Service Center.

We support you in this early phase of planning and engineering to achieve optimum results of development that are optimized to your materials and processes.

As your system partner, PARAT Group offers a wide range of technologies and is thus able to pick exactly the right one that perfectly matches your product concept/development result. This enables PARAT to guarantee our customers not only maximum cost reductions thanks to optimum materials usage, but also optimized cost structure thanks to constructive synergies (system integration), which, for example, may go along with a lower product weight.

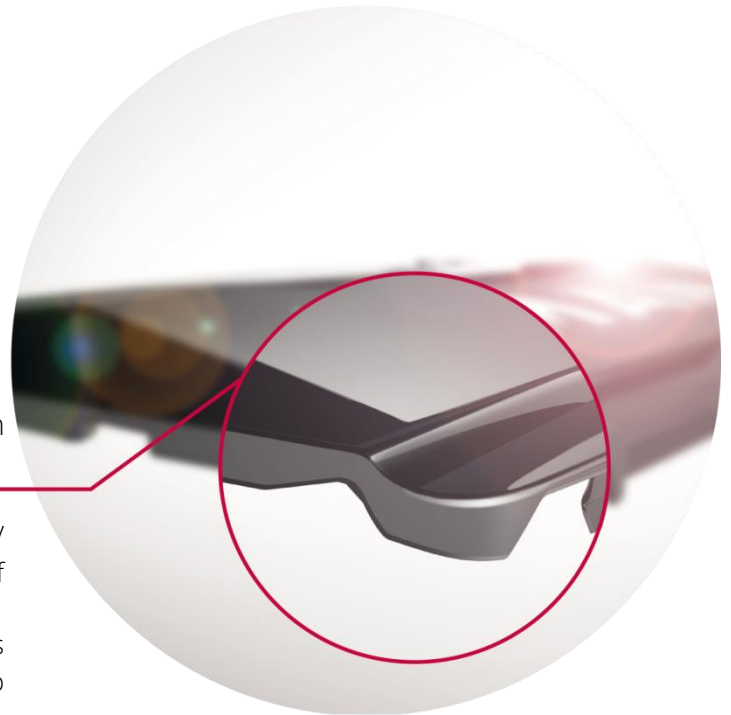
### PARAT TECHNOLOGIES OFFER THE FOLLOWING BENEFITS FOR YOUR TRIM COMPONENTS:

- ✓ Integration of functions represents an appreciable advantage of PARAT formed components–this enables components to assume substantial additional functions and thus meet even higher standards when it comes to quality and functionality of your products
- ✓ High-strength and dimensionally stable components with significant damage tolerance (minor damages)
- ✓ Scratch-resistant and media-resistant as well as high-gloss and UV-resistant surfaces
- ✓ Our off-tool formed parts offer a high grade of reproducibility thanks to tight tolerances
- ✓ Our hybrid applications (RIM / metal) also enable possibilities for system integration along with optimum weight ratios and rigidity

### KEY COMMUNICATION ISSUES AT THE CSD:

#### 1. UV proof & scratch-resistant high gloss Class A film

- a PMMA layer guarantees UV resistance and a high degree of gloss (depth effect)
- a dyed-through plastic film shows high scratch resistance thanks to an enormously hard PMMA layer
- small scratches scarcely lead to visual impairments thanks to a 2 – 3 mm dyed-through film



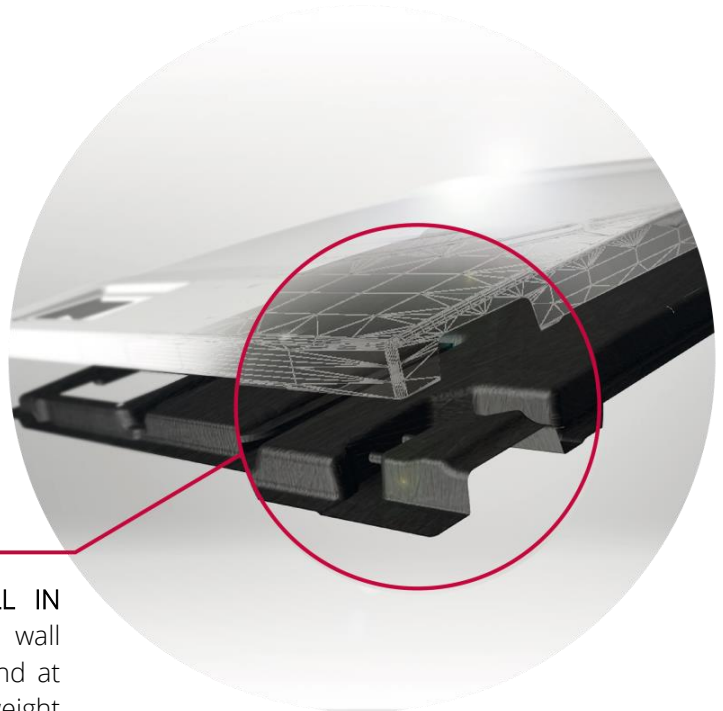
#### 2. intelligent module formation & technical integration of functions

- domes, ribs and material build-ups in order to enable system integration
- reduction in single components by up to 20 %
- bundling in assemblies



### 3. PUR/GF composites with variable density

**STRUCTURE/SURFACE AND INSULATION ALL IN ONE!** Reducing density and increasing wall thickness – this creates thermal insulation and at the same time great rigidity and significant weight reduction.



### 4. Exceptional design freedom Brand Recognition

„A BRAND ELEMENT“ aims to provide the end user with an emotional experience. This concept can best be implemented in plastics ensuring cost-optimized realization of stylistic elements (design to cost).



## APPLICATIONS FOR MOTORHOMES / CARAVANS:

### I BUMPER FOR MOTORHOMES



### I REAR LIGHT MOULDING FOR MOTORHOMES



## PRESS INFORMATION CSD 2017

### | FRONT PANEL FOR CARAVANS



### | GAS BOX FOR CARAVANS - INTEGRATION OF FUNCTIONS



Additional information: PARAT has been supplying motorhome and caravan manufacturers for more than 30 years now:

## 30 YEARS OF INNOVATION À LA PARAT IN THE CARAVAN INDUSTRY

PARAT – THE PLASTICS EXPERT FOR EXTERIOR & INTERIOR TRIMS AND LAMINATED COMPONENTS

For more than 30 years, PARAT has been supporting renowned caravan and motorhome manufacturers worldwide with innovative plastic solutions.

In this area, PARAT profits greatly from its many years of experience in manufacturing and processing highly functional composite components made from polyurethane and glass fiber. The use of leading-edge surface technologies makes PARAT plastic components extremely UV-proof, heat-, shock- and scratch-resistant. These are requirements that have a very high priority - above all in the caravanning sector. Furthermore, integration of functions is as much a part of PARAT's strengths as is the manufacture of complex geometric shapes.

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