



## **POLYZINK®** - A WORLDWIDE UNIQUE TECHNOLOGY THAT MOULDS PLASTIC AND ZINC IN A SINGLE PROCESS

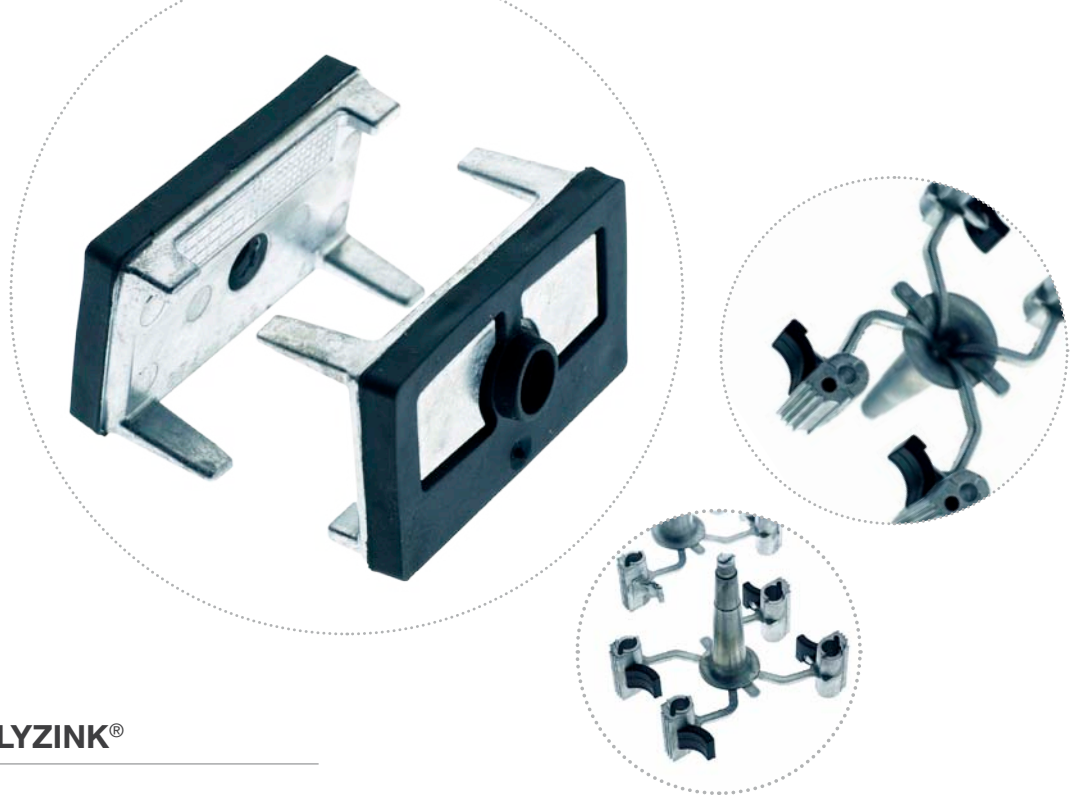
There's nothing new in combining zinc parts with injection-moulded plastic, and many manufacturers do so. In contrast, PolyZink® is [an innovation](#) patented by us and we are its [sole supplier worldwide](#). This technology means a completely new way of thinking for construction engineers, product developers and designers.



### **AN EFFICIENT PRODUCTION PROCESS**

There are many advantages in being able to manufacture plastic and zinc parts in a single process. Reliability and safety are increased, and the production process becomes more efficient. There is no need to invest in expensive ancillary equipment, such as vibrators and picking robots for feeding the parts to the plastic injection-moulding machines. The costs of verification, manual mounting and transport between factories as well as of administration are also reduced. PolyZink technology is unique anywhere in the world and was patented in 2004.

# POLYZINK®



## ADVANTAGES OF POLYZINK®

- ▶ The finish of plastic, the durability of zinc
- ▶ The conductivity and shielding properties of zinc (EMC protection), the insulation of plastic
- ▶ Plastic replaces the surface treatment of zinc, such as painting
- ▶ Snap functions
- ▶ The plastic is always in place, with no risk of incorrect assembly or misplaced plastic parts
- ▶ Easy to adapt the material thickness to both zinc and plastic
- ▶ Logistics advantages, as all parts are ready in a single process
- ▶ You pay for only a single machine shift
- ▶ Only a single tool is needed
- ▶ No costs for automation equipment
- ▶ Many applications with sealing devices

## POLYZINK® FACTS

### ZINC ALLOY

Alloy 5 SS7030 ZL0410

### POLYMERS

Designation	Adhesion
PP (polypropylene)	Mechanical
PA6 with 15% fibreglass	Good
ABS (acrylonitrile butadiene styrene)	Mechanical
PC/ABS	Mechanical
POM (acetyl polymer)	Mechanical
TPE (thermoplastic elastomer)	Excellent

### AFTER-TREATMENTS

Blasting  
Tumbling

### SURFACE FINISHES

ZnFeC1 3+  
ZnFeC1 3+ + DeltaColl  
ZnFeC4 3+ + Topcoat  
Nickel CuNi  
Chrome CuNiCr

That's what we've tested so far. We will be pleased to test alternative polymers, surface treatments etc. We look forward to hearing from you.



MOVES FORWARD