



RAMPF ADVANCED POLYMERS



#### **+** YOUR BENEFITS

- > RAKU<sup>®</sup> TOOL boards contain up to 30% raw material components from chemical recycling
- Excellent abrasion resistance >
- Dimensional stability (no post-shrinkage) >
- Good wear resistance >
- Good shape stability and strength >
- Low moisture sensitivity >
- Easy to repair and modify >
- Quick build-up, reduction in process costs >



### **RAKU<sup>®</sup> TOOL** | Reliable products Epoxy and polyurethane systems for the foundry industry

From prototyping to series production, we offer the perfect solution for your applications:



HIGH-PERFORMANCE PLASTICS VS ALUMINUM AND STEEL



-50% Reduction in milling

time vs steel

2 to 3x Faster processing





> 90% CO<sub>2</sub> reduction

vs aluminum

Easy in-house production

MILLING

Boards / Close Contour products

CASTING Polyurethane and epoxy casting systems

LAY-UP Polyurea and epoxy gelcoats + backfill



6x Cheaper than steel



Eco-friendly



0.7 – 1.5 g/cm<sup>3</sup> Density, lightweight



# **RAKU® TOOL** | Production methods Plastic modeling options

### Core boxes

RAMPF offers ideal solutions for all build-up methods of plastic foundry patterns and pattern plates, tailored to operating conditions, customer requirements, and production volumes.

Core production in the foundry industry demands core boxes with high dimensional stability (up to 60 °C), high abrasion and chemical resistance. RAMPF's extensive product portfolio provides versatile solutions for all core box production methods.





STEPS UP TO PRODUCTION

#### BACKING BACKING MILLING STRUCTURE **STUCTURE / FACE CASTING** core box milling (HSC) model model aluminum backing backing structure core box EP/PU structure with face casting production core box core box production production 丛 -111-

## **RAKU<sup>®</sup> TOOL** | In action















# RAMPF **#DiscoverTheFuture**

We have been developing and manufacturing reactive resin systems based on polyurethane, epoxy, silicone, and silane-modified polymers - for more than four decades.

#### Our portfolio includes

- > Sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives
- > Board and liquid materials for model and mold engineering
- > Chemical solutions for the manufacture of customized recycled polyols based on polyurethane, PET, and PIR residues

Our products and solutions are used globally and in a wide range of industries – from automotive and electromobility, electrics/electronics, and white goods to aerospace, foundry, furniture, and mattresses.

We conserve resources and protect our environment, both in the development of our chemical products and in their manufacture and recycling. Together with our customers and partners, we are working towards a successful and sustainable future.

#### **Chemical and Engineering Solutions**





Advanced Polymers Composite Solutions Machine Systems

**RAMPF** Advanced Polymers is a company of the international RAMPF Group.







Production Systems

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