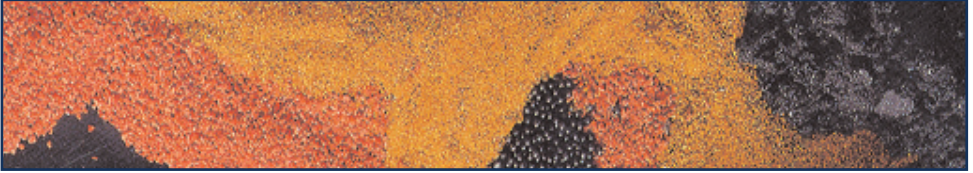


# EPMA Awards 2008

for Excellence in Powder Metallurgy



**Parmaco**  
Metal Injection Molding AG

## MicroMIM Carrier with Sun Gear

Parmaco's customer was looking for a method to produce cost efficiently some 12 million high torque Planet-Carriers with Sun Gear for its high volume requirement of planetary gear boxes, with an outer diameter of only 6.2 mm. These Planetary-Gear-Boxes are intended to be used in an opening and closing mechanism for cellular phones.



The most cost effective manufacturing route for the high production volumes proved to be MicroMIM because instead of assembling 5 parts, MicroMIM can produce the Planet-Carrier with Sun Gear in one part. Cost savings compared to traditional production techniques which are in the range of 40% sealed the capture of this new application.



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