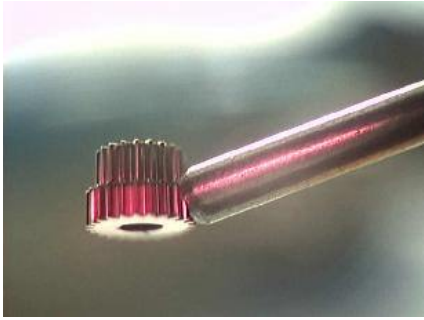



RM case study

Case name	micro gear wheels		
Dimensions in mm (L x W x H)	$D_a = 1200/828 \mu\text{m}$ $D_i = 400 \mu\text{m}$ $H = 300 \mu\text{m}$		
Application	Planetary gear		
RM process	RMPD [®]		
Software	SolidWorks		
System	RMPD [®] system		
Material	Acrylate or epoxide compounds/photopolymer		
Lead time (hours/days)	10 Millions within five weeks		
Costs	0,85€ / 100 pcs. @ 10 Mio		
Surface finish	$R_a < 1 \mu\text{m}$		
Mechanical properties	ABS like material		
Thermal properties	Up to 180°C long term		
Any additional info	Self lubricating pastic possible/ high aspect ratios/ no draft angles needed, e.g., for internal toothing		
Contact info	Name	Götzen, Reiner	
	Organisation	microTEC Ges. f. Mikrotechnologie mbH	
	Website	www.microtec-d.com	
	Email	goetzen@microtec-d.com	
	Telephone	++49 203 306 2050	
 <p style="text-align: center;">Gear wheels with internal toothing</p>			