

RM case study

Case name	Specific hinges for car door		
Dimensions in mm (L x W x H)	160 x 110 x 41		
Application	Automotive industry		
RM process	3DP Prometal		
Software	-		
System	R10 (1000 * 500 * 250 mm)		
Material	S4: stainless steel (60 %) + bronze (40 %)		
Lead time (hours/days)	5-8 days		
Costs	1600 € / 8 parts		
Surface finish	Shot peening + some post machining		
Mechanical properties	Tensile strength (at break): 680 MPa		
Thermal properties			
Any additional info	Extended car with large doors. Components of a new hinge system. Very short series. Summary: 5 times cheaper than High speed milling and much faster.		
Contact info	name	Thierry Dormal	
	organisation	CRIF	
	website	www.crif.be	
	email	thierry.dormal@crif.be	
	telephone	(+32) (0)43 61 87 63	
			