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At a glance

Achieve more

We commit ourselves to a promise. That promise is "Achieve more." It's a commitment to create the right conditions for our customers to obtain competitive results. When our customers win, we win.

GF AgieCharmilles

We enable our customers to run their businesses efficiently and effectively by offering innovative Milling, EDM, Laser and Automation solutions. A comprehensive package of Customer Services completes our proposition.

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MIKRON Injection Mold Application

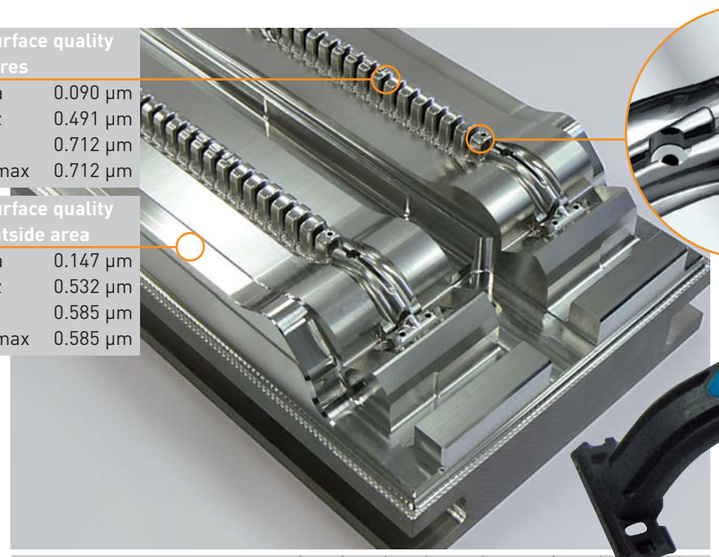
Achieve more...

+GF+ AgieCharmilles

Injection Mold Application

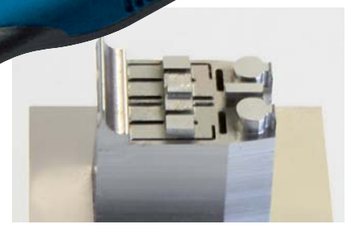
Precision, speed, automation...

We're predestined for Mold and Die

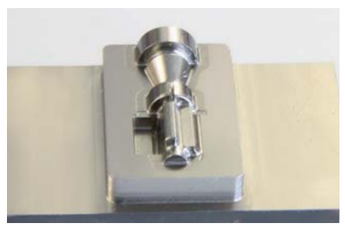


Manufacturing Step	Cutting Tool	Diameter D [mm]	Corner-Radius R [mm]	Number of Teeth z	Spindle Speed n	Feedrate f	Stepover a_e [mm]	Cutting Depth a_p [mm]	Processing Time T [min]
Finishing form 1st step	Toric end mill	10							54'
Finishing form 2nd step	Toric end mill			2	16000	1300	0.03		
Finishing positioning		5	-	6	10000	350	0.02	6	
Finishing swarf cut	End mill	10	-	6	4800	500	0.02	12	6'
							Processing Time		13h 52'

Manufacturing Step	Cutting Tool	D Diameter [mm]	R Corner-Radius [mm]	z Number of Teeth -	n Spindle Speed [min^{-1}]	f Feedrate [mm/min]	a_e Stepover [mm]	a_p Cutting Depth [mm]	T Processing Time [min]
Finishing form 1st step	Ball end mill	0.8	0.4					0.05	77
Finishing form 2nd step	Toric end mill	0.8							44
Finishing positioning	Ball end mill			2	29700	240	0.02		
Drilling ejector hole		1.2		2	7957	39			
Engraving	Ball end mill	0.3	0.15	2	36000	300	0.005	0.01	3
							Processing Time		13h 39'



Material	1.2767 / 52 HRC
Machine	MIKRON XSM 400U LP
Machining time	3h 10min



Material	1.2379 / 55 HRC
Machine	MIKRON HSM 400 LP
Machining time	4h 3min

Material	1.2343 / 47 HRC
Machine	MIKRON HSM 400 LP
Machining time	18h 44min

Material	1.2767 / 52 HRC
Machine	MIKRON HSM 400 LP
Machining time	3h 15min

Material	1.2312 / 51 HRC
Machine	MIKRON XSM 400U LP
Machining time	7h 7min

Material	1.2344 / 52-54 HRC
Machine	MIKRON HSM 400U LP
Machining time	2h 26min

Let us convince you!

In our Application Center, we will give you a demonstration with all the possibilities.