Type of tool	Technical specification	Applications						
End mill 2-flute fish	- Solid carbide-end mill Ø1.0 mm	- Universally applicable						
	- Double-flute	- Aluminum						
	- Fishtail bottom	- Plastics						
	- Upcut- or downcut spiral	- Wood						
End mill diamond	- Solid carbide-end mill Ø1.0 mm	- Glass fiber						
	- Diamond toothed	- Carbon fiber						
	- Fishtail	- Wood						
		- Printed circuit boards						
End mill single flute	- Solid carbide-end	- High quality contours						
	- Single-flute	- Has only one flute, much space for chip						
	- Flat bottom	evacuation						
	- Upcut- or downcut spiral	- Very good for soft materials						
		- Soft plastics						
		- PE, teflon, plexiglas, styrofoam						
		- Soft aluminum						
End mill spiral	- Solid carbide-end mill Ø 2 mm	- Glass fiber						
	- Spiral toothed	- Carbon fiber						
	- Fishtail	- Wood						
	- Upcut- or downcut spiral	- Printed circuit boards						
Radius mill	- Solid carbide-radius mill	- Universal usability of all materials						
	- Center cut (diving possible)	- Wood						
	CALCULATION OF COMPANY OF THE COMPAN	- Aluminum						
		- Non-ferrous metals						
V-bit	- Solid carbide V-router bit	- Engraving printed circuit boards						
	- tip angel from 30° to 120°	- Engravings on many materials						
	- Single-cut with upcutting spiral	- Chamfering						

MID = Maximum infeed depth per cycle [mm]

RPM = Revolution per minute of the HFS [1000x n/min.]

 $V\rightarrow$ = Horizontal feed speed (X-/Y-direction) [mm/s]

V↓ = Vertical speed (Z-direction) [mm/s]

Ø = Diameter of end mill [mm]

	Ø 1			Ø2				Ø3					
Material	Type of end mill	MID	RPM	V↓	V	MID	RPM	V↓	V-	MID	RPM	V↓	V
Softwood	End mill spiral	5	20	4	12	6	15	5	18	8	10	5	14
Hardwood	End mill spiral	2	18	3	4	3	12	4	6	4	8	4	5
Carbon fiber	End mill diamond or spiral	3	20	3	4	3	16	4	4	2	12	4	3
Glass-fiber reinforced plastic	End mill diamond or spiral	3	20	3	4	3	16	4	4	2	12	4	3
Soft plastic	End mill single flute	5	12	4	4	6	12	5	6	8	6	5	6
Hard plastic	End mill single flute	2	18	3	3	3	14	4	5	4	10	3	4
Acrylic glass	End mill 2-flute fish	2	15	1	3	3	12	2	5	3	8	2	4
Aluminum (alloy with plumb)	End mill 2-flute fish	0.5	20	1	2	11	17	1	2	1	14	1	2
Brass	End mill 2-flute fish	0.5	20	1	2	1	17	1	2	1	14	1	2