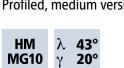
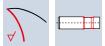
## Cylindrical/Square end mills

Profiled, normal version, short neck Profiled, medium version, neck

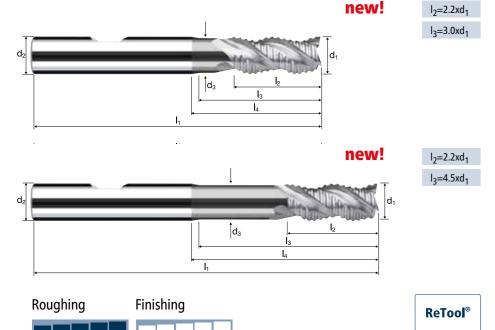


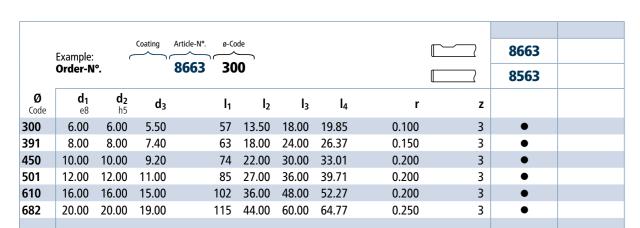












			Caatina	Australa NIO Ca	ماد						
	Coating Article-N°. ø-Code  Example:									8673	
	Order-N°. 8673 300									8573	
<b>Ø</b> Code	<b>d</b> <sub>1</sub> e8	<b>d<sub>2</sub></b> h5	d <sub>3</sub>	I <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	<b>I</b> <sub>4</sub>	r	z		
300	6.00	6.00	5.50	65	13.50	27.00	28.85	0.100	3	•	
391	8.00	8.00	7.40	76	18.00	36.00	38.37	0.150	3	•	
450	10.00	10.00	9.20	90	22.00	45.00	48.01	0.200	3	•	
501	12.00	12.00	11.00	105	27.00	54.00	57.71	0.200	3	•	
610	16.00	16.00	15.00	125	36.00	72.00	76.27	0.200	3	•	
682	20.00	20.00	19.00	145	44.00	90.00	94.77	0.250	3	•	

Further information can be found in our High-performance milling tools catalog.







# Aluminum roughing – economical and efficient

## FRAISA ReTool®Services -CO<sub>2</sub>NSEQUENT

Living the circular economy for precision tools: By using the FRAISA ReTool®Services, you extend the life cycle of your cylindrical end mill and at the same time reduce your ecological footprint.

- ► FRAISA ReTool®: Reconditioning of used tools achieving guaranteed 100% of a new tool's performance
- ► FRAISA ReTool®Blue: Closed raw material cycle through Tool2Tool recycling: Tools become tools
- ► FRAISA ReTool®Green: Buying used tools, reconditioning and then reselling them at attractive conditions

Here, you will be provided with further information on the FRAISA Group.

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You can also find us at: facebook.com/fraisagroup



















fraisa

for precision

Available online

**FRAISA ToolExpert®** 

## Innovative roughing profile for the highest productivity and process reliability

Productive newcomer in the performance class: FRAISA presents an extremely economical and productive solution for aluminum machining. Like all tools in this class, the new roughing cutter impresses with a remarkable performance regarding the volume machined per unit

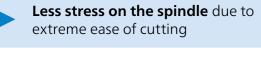
Our engineers have optimized the tool technologies to the essentials during development. Thanks to a new roughing profile, especially developed for aluminum machining, the tool can be used with process reliability in all High

Performance Cutting applications. A clean chip removal is guaranteed by a robust and very smooth cutting edge.

When using the new FRAISA roughing tool, you benefit from the safe and efficient aluminum machining with low force and energy consumption. In addition, you can look forward to an optimal price-performance ratio and an increase in your productivity.

#### The advantages

- **Higher productivity** and performance
- **Strong price-performance ratio** through optimized technologies









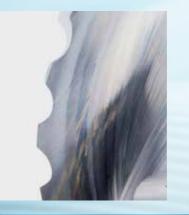


**Ideal life cycle** by FRAISA ReTool® Services





- Improved tool rigidity and therefore less radial deflection
- Minimal step formation with several infeed depths
- Higher mechanical load and therefore improved performance



#### New roughing profile

- Specially developed for aluminum machining
- Higher process reliability due to better chip removal, especially regarding full slots





- Decisive for aluminum machining, especially for full slots
- Perfect alignment of the cooling lubricant hose to the
- Use of clamping systems with central internal cooling, if
- The more cooling the better

Supporting chamfer

Support of the tools in radial and axial direction

Better surface qualities due to better running smoothness

Reduced vibrations and higher performance



### **High-gloss technology**

- High gloss-ground cutting surface as well as flutes
- Reduction in adhesion tendency
- Increase in tool life and performance





#### Corner radius with partially polished blade

- Specification of the radii sizes for every diameter in the
- Reinforcement of the exposed cutting corner through a partially polished blade
- Absorption of high cutting forces







#### **Economically optimized edge**

- Axial penetration possible by center cutting edge
- Optimized grinding technology for the best price-performance ratio