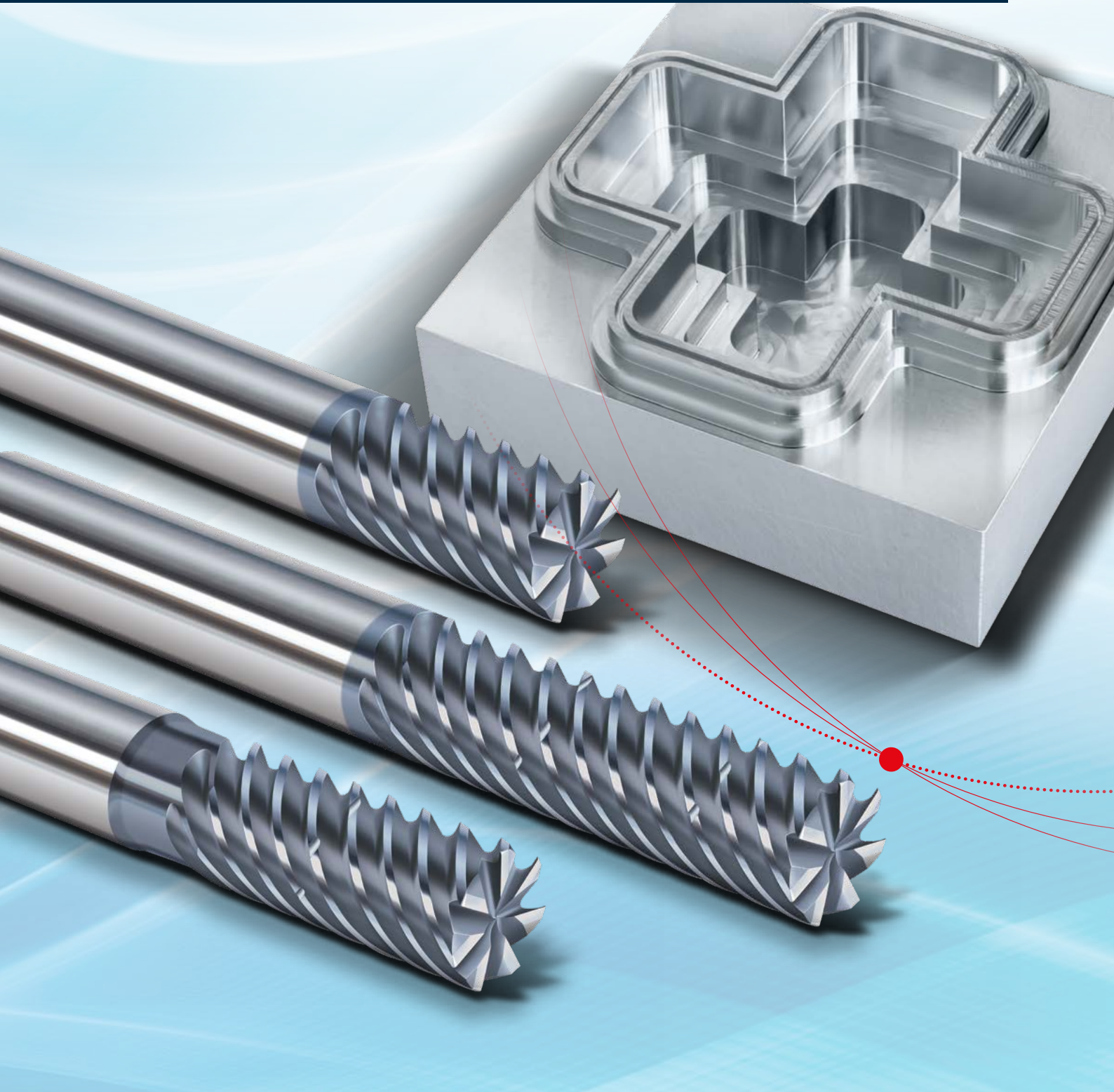


passion
for precision



FRAISA E-Cut finishing cutter –
highest precision and process reliability



FRAISA E-Cut finishing cutter: Easy to use – effective – economical

The FRAISA **E-Cut** range has been strategically expanded, with a clear focus on high-precision finishing. The new finishing cutters deliver outstanding dimensional accuracy and surface quality – whether for tiny components or autonomous production.

Thanks to finely ground flanks and the advanced chip breaker system, the new **E-Cut finishing cutters** provide smooth machining, minimal burr formation, and a significantly extended service life. Optimized transitions for tools < 6 mm ensure exceptional stability – perfect for fine contours and intricate components.

The range of tools has been expanded to include three highly specialized tool designs:

- Short design 1.5xd (from Ø 1 mm) – for maximum stability with low infeeds
- Normal design with short neck – for precise standard finishing operations
- Medium-length design – for greater flexibility with complex geometries

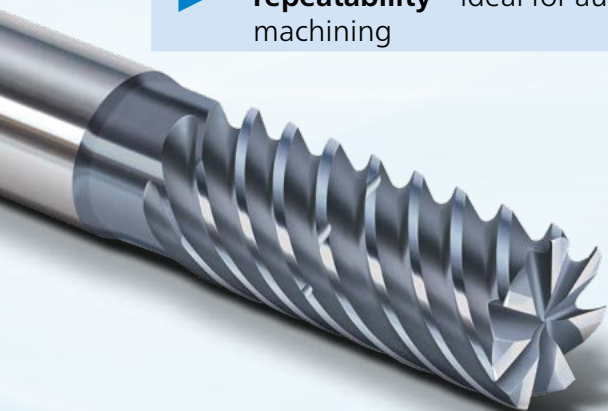
The new efficient **E-Cut** end mills are ideal for challenging finishing operations, with a versatile range that provides the ideal tool for every machining requirement. Plus, with the **FRAISA ToolExpert®**, you can access verified, precise cutting data in just a few clicks, for maximum process reliability. Using our sustainable **FRAISA ReTool®Services** for industrial tool reconditioning not only reduces environmental impact but also lowers your process costs.

The advantages

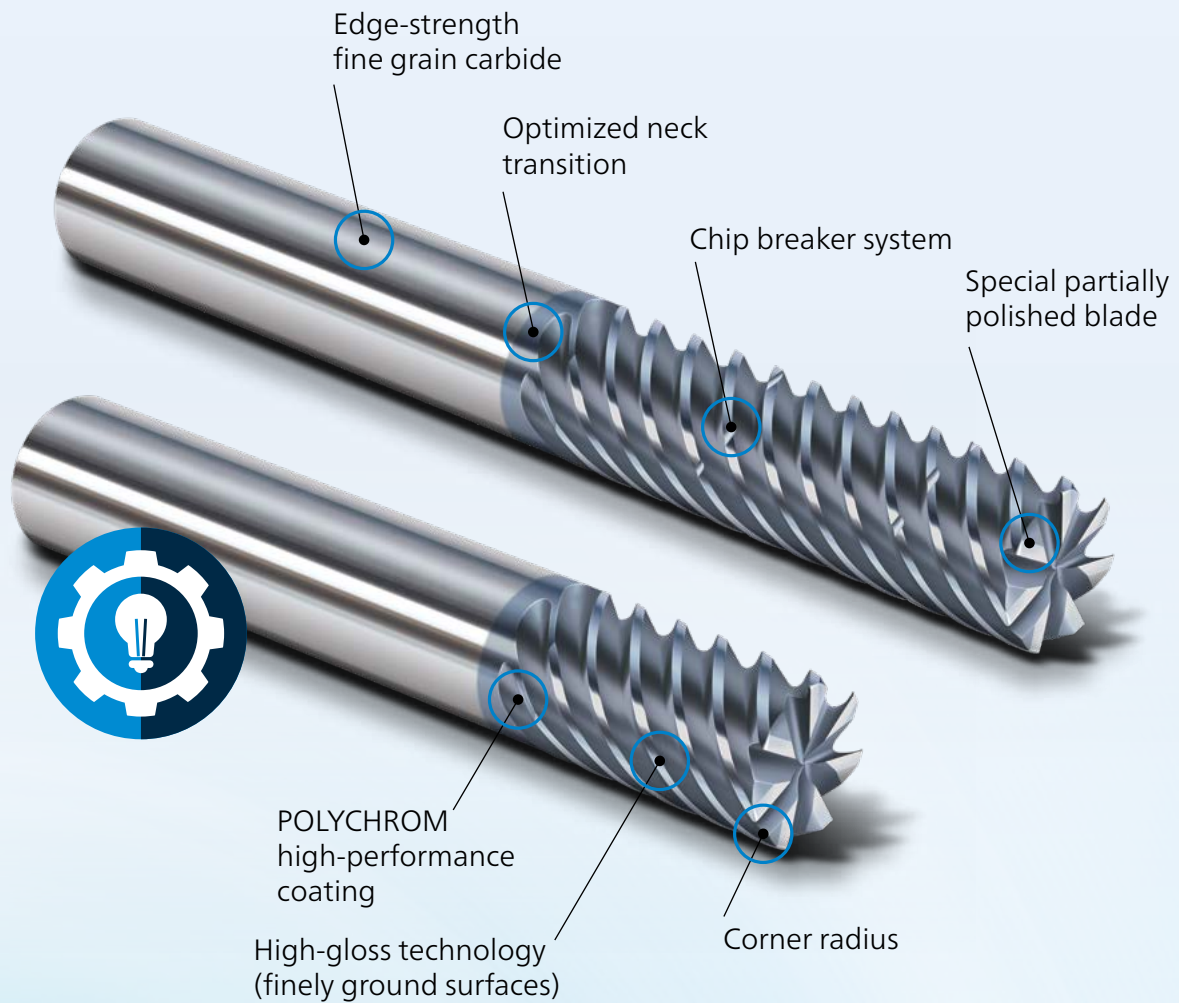
- ▶ **Maximum stability** during fine machining thanks to optimized tool geometry
- ▶ **Perfect chip formation and clean chip management** thanks to the chip breaker system
- ▶ **High process reliability and repeatability** – ideal for autonomous machining

- ▶ **Significantly longer service life** thanks to finely ground flanks and stable cutting edges
- ▶ Versatile range for **maximum flexibility**: Ø 1–20 mm, number of teeth z4–z8
- ▶ **Excellent results** when machining steel, stainless steel, and harder materials

- ▶ Consistent **cutting edge length/diameter ratios**



Technologies



[3]

✓ Perfect surface qualities thanks to optimized cutting edges

✓ Maximum dimensional accuracy – ideal for precision components

✓ Maximum stability and process reliability – even with small diameters

✓ Minimal burr formation – for clean machining results

✓ Perfect application data in the FRAISA ToolExpert®

✓ Sustainable service offers with FRAISA ReTool® Services



Experience the
FRAISA E-Cut
finishing cutter
in action.



Perfect finishing – **systematically** and **reliably**

The demands on finishing operations are steadily increasing: Tighter tolerances, finer contours, and higher demands on surface quality require precision and process reliability at the highest level. Modern manufacturing also calls for stable, repeatable processes – preferably automated and requiring minimal manual intervention.

The solution for every finishing challenge: FRAISA E-Cut

From short, particularly stable end mills from Ø 1 mm to medium-length variants for complex geometries, FRAISA **E-Cut**'s comprehensive range of finishing cutters offers the right tool for every application. With finely ground flanks, optimized chip breaker systems, and robust transitions, these tools achieve outstanding results even with small diameters or hard-to-machine materials, while ensuring high dimensional accuracy and minimal burrs.

With FRAISA ToolExpert®, you get verified, proven cutting data instantly, maximizing your efficiency. This enables reliable process planning, reduces potential errors, and ensures automated machining runs smoothly and consistently.

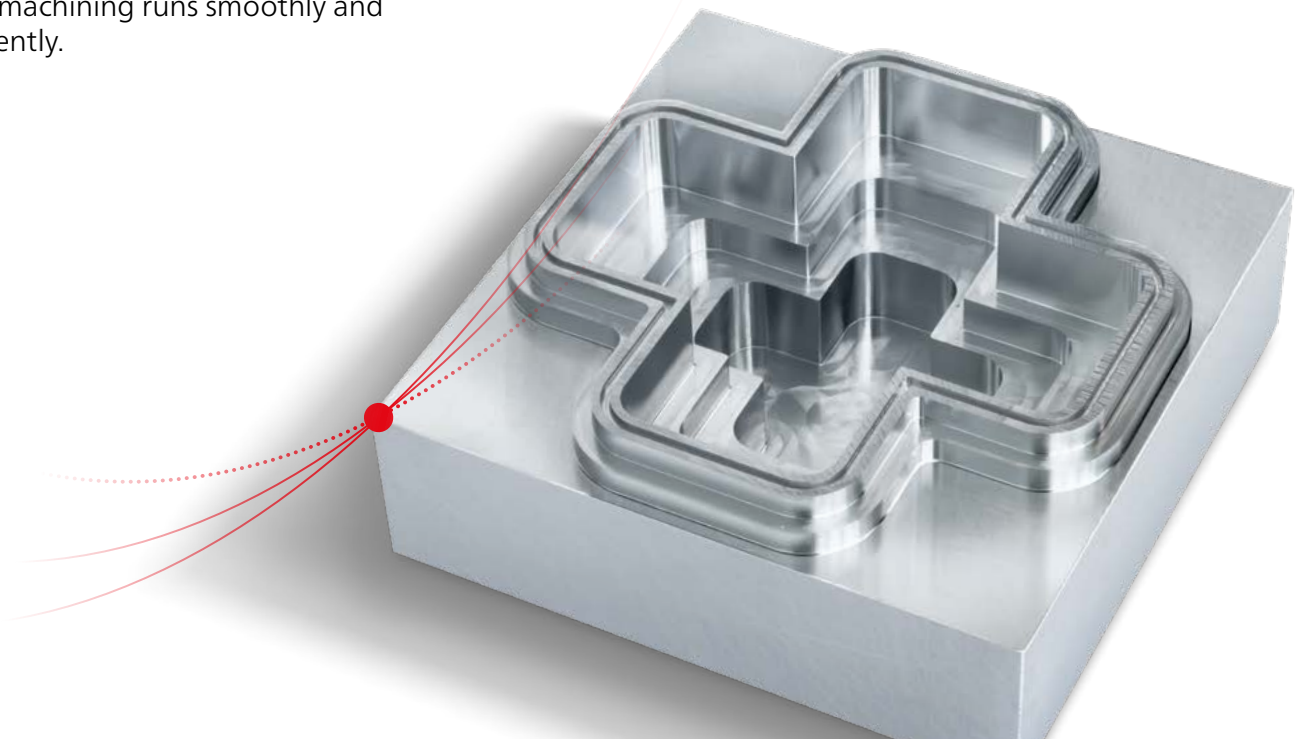
FRAISA specialists also offer personalized application consulting to help select the right tools, define optimal strategies, and optimize your processes.

Efficient and economical finishing for perfect results

With FRAISA **E-Cut** finishing, you can rely on optimal results, including consistently high quality from the very first component and stable processes in series production.

Product range overview:

- Diameter range: Ø 1–20 mm
- Three designs:
 - short (1.5xd)
 - normal with short neck (2.2xd and 3.0xd)
 - medium-length (up to 3.7xd)
- Number of teeth: z4–z8
- Designed for high-quality fine machining



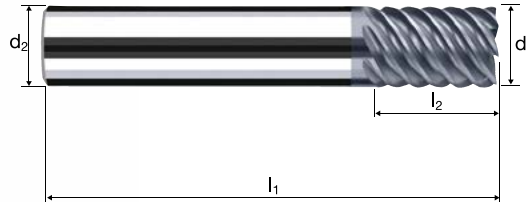
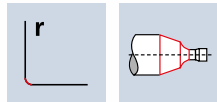
Cylindrical/Square end mills E-Cut

Finishing, short version



HM
MG10 λ 55°
 γ 10°

new!



Roughing Finishing

ReTool®

Rm <850 HRC <24 Rm 850-1100 HRC 24-34 Rm 1100-1300 HRC 34-42 Rm 1300-1500 HRC 42-48 HRC 48-56 Inox Stainless Ti Titanium GG(G) Tool Steel

Example: Order-N°.										POLYCHROM
										P
										8358
										100
										P8358
Ø Code	d1 e8	d2 h5	l1	l2	l4	r	z			
100	1.00	6.00	50	1.50	8.07	0.050	4	●		
140	2.00	6.00	50	3.00	9.46	0.050	4	●		
180	3.00	6.00	50	4.50	10.45	0.050	5	●		
220	4.00	6.00	50	6.00	12.04	0.100	5	●		
260	5.00	6.00	51	7.50	13.37	0.100	5	●		
300	6.00	6.00	51	9.00	-	0.100	6	●		
391	8.00	8.00	55	12.00	-	0.150	6	●		
450	10.00	10.00	63	15.00	-	0.200	7	●		
501	12.00	12.00	73	18.00	-	0.200	7	●		
610*	16.00	16.00	85	24.00	-	0.200	8	●		

[5]

FRAISA ToolExpert®

Optimal cutting data for maximum process reliability

Have you encountered a new machining challenge? In the FRAISA ToolExpert®, you will receive precise cutting data for efficient and safe production – and, of course, for all **FRAISA E-Cut finishing tools** as well.

Discover valuable application tips, fascinating contributions and our extensive **FAQs** all about the **FRAISA ToolExpert®** by scanning the QR code:



Cylindrical/Square end mills E-Cut

Finishing, chip breaker, normal version, short neck

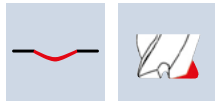
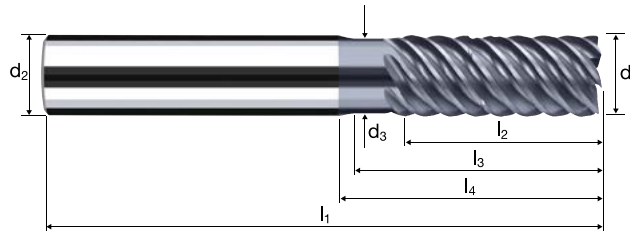
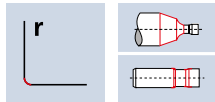


$$l_2 = 2.2 \times d_1$$

$$l_3 = 3.0 \times d_1$$

HM
MG10 λ **55°**
 γ **10°**

new!



Roughing **Finishing**



Rm <850 HRC <24	Rm 850-1100 HRC 24-34	Rm 1100-1300 HRC 34-42	Rm 1300-1500 HRC 42-48	HRC 48-56		Inox Stainless	Ti Titanium	GG(G) Tool Steel
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										POLYCHROM	
Example: Order-N°.											
										P	
										8460	
										180	
Ø	d ₁	d ₂	d ₃	l ₁	l ₂	l ₃	l ₄	r	z		
Code	e8	h5									
180*	3.00	6.00	2.80	54	6.60	9.00	12.33	0.050	5	●	
220*	4.00	6.00	3.70	54	9.00	12.00	14.54	0.100	5	●	
260*	5.00	6.00	4.60	57	11.00	15.00	16.72	0.100	5	●	
300	6.00	6.00	5.50	57	13.50	18.00	19.85	0.100	6	●	
391	8.00	8.00	7.40	63	18.00	24.00	26.37	0.150	6	●	
450	10.00	10.00	9.20	74	22.00	30.00	33.01	0.200	7	●	
501	12.00	12.00	11.00	85	27.00	36.00	39.71	0.200	7	●	
610	16.00	16.00	15.00	102	36.00	48.00	52.27	0.200	8	●	
682	20.00	20.00	19.00	115	44.00	60.00	64.77	0.250	8	●	
* without chip breaker											

[6]

FRAISA ReTool® – Industrial tool reconditioning with performance guarantee



FRAISA ReTool® provides an all-round service, which restores the initial performance of the used tools, which is done with resource-saving and state-of-the-art technology. Our team of experts takes the performance guarantee into account during the early stages of product development. The result: reconditioned tools in mint condition and as powerful as if used for the first time.

Video on our service offer
FRAISA ReTool®:



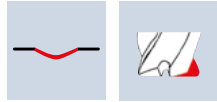
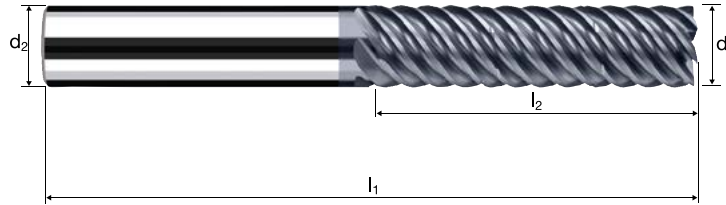
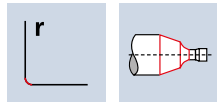
Cylindrical/Square end mills E-Cut

Finishing, chip breaker, medium version



HM
MG10 λ 55°
 γ 10°

new!



Roughing Finishing



Rm <850 HRC <24
Rm 850-1100 HRC 24-34
Rm 1100-1300 HRC 34-42
Rm 1300-1500 HRC 42-48
HRC 48-56
Inox Stainless
Ti Titanium
GG(G) Tool Steel

Example: Order-N°.									POLYCHROM	
Coating		Article-N°.		ø-Code						
P		8370		180					P8370	
Ø Code	d1 e8	d2 h5	l1	l2	l4	r	z			
180*	3.00	6.00	57	11.10	17.05	0.050	5		●	
220*	4.00	6.00	60	15.00	21.04	0.100	5		●	
260	5.00	6.00	63	18.50	24.37	0.100	5		●	
300	6.00	6.00	63	22.50	-	0.100	6		●	
391	8.00	8.00	72	30.00	-	0.150	6		●	
450	10.00	10.00	84	37.00	-	0.200	7		●	
501	12.00	12.00	100	45.00	-	0.200	7		●	
610	16.00	16.00	120	60.00	-	0.200	8		●	
682	20.00	20.00	140	74.00	-	0.250	8		●	
* without chip breaker										

[7]



We are proud that **FRAISA ReTool®** is one of three practical examples in the new standard ISO 59020 for circular economy.



Optimized User Experience: The advantages of the FRAISA webshop

- ✓ A modern design and attractive features at the cutting edge of technology
- ✓ Individualized and simple handling thanks to intuitive user navigation and extensive **filter options**
- ✓ Responsive design for an **optimal website view** on all kinds of end devices
- ✓ Direct link to the **FRAISA ToolExpert®** to retrieve the perfect cutting data
- ✓ Download of relevant **CAD data** as well as information about new **promotions, stock levels** and **availabilities**

Discover the
FRAISA webshop:



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on the FRAISA Group.

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instagram.com/fraisagroup/

passion
for precision

fraisa



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