

QUALITY DOESN'T HAVE TO BE EXPENSIVE.

An independent series of tests conducted by **Fraunhofer IPA** compares BICHAMP band saw blades with products from other renowned manufacturers. After completion of the first test series, the results show an equal performance level across all tested band saw blades and all parameters. A second round is currently underway for validation.

The decisive difference:

With comparable performance, BICHAMP offers a product price that is up to 30% lower. This gives users across all industries the long-term potential for significantly lower tooling costs and a better TCO.

-30%

BICHAMP DELIVERS CONVINCING RESULTS ON KEY QUALITY PARAMETERS.

In a direct comparison, BICHAMP demonstrates clear strengths in the key factors for stable and cost-efficient sawing processes:

- ✓ *Cut Quality*
- ✓ *Dimensional accuracy*
- ✓ *Wear behavior*



TEST IT NOW!

Secure your BICHAMP test blade at exclusive trade show conditions.

bichamp-emea.com/order-test-blade



Process Reliability

We deliver reliability – with advanced production facilities, maximum availability, and the highest standards of quality control.



Planning Capability

With exceptionally short delivery times, flexible order handling, and direct communication, we ensure high delivery reliability.



Cost-per-Cut Optimization

We maximize productivity and cost efficiency with tailored consulting that lowers the cost per cut.

QUALITY MAKES THE FUTURE

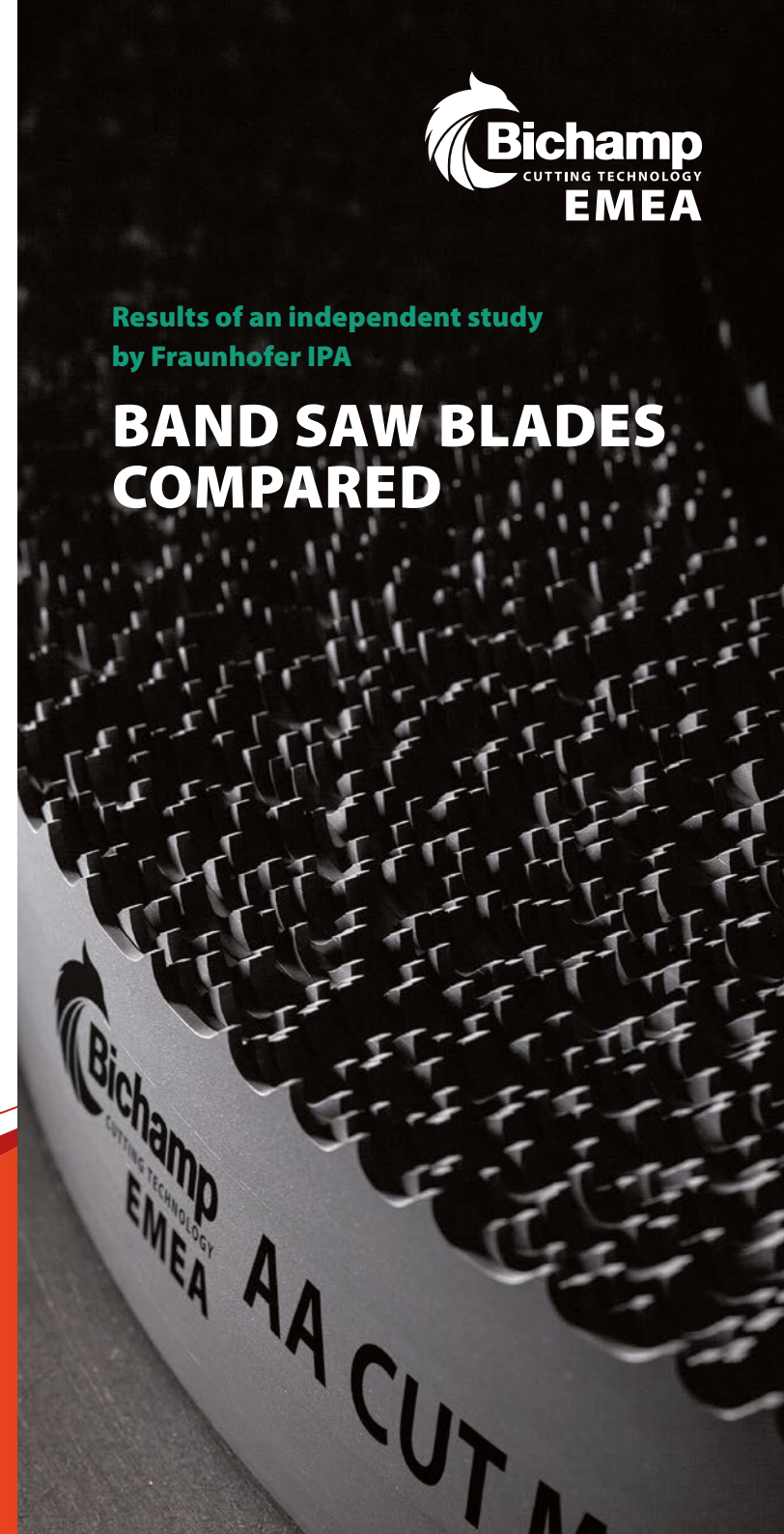
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Results of an independent study
by Fraunhofer IPA

BAND SAW BLADES COMPARED



THIS IS HOW THE TEST WAS CONDUCTED.

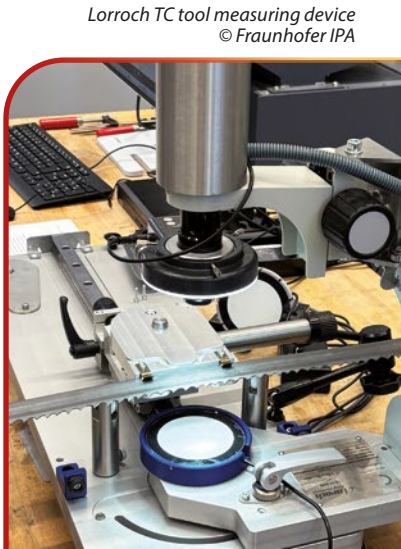
The **Fraunhofer IPA** compares BICHAMP bimetal M42 band saw blades with products from other renowned European and international manufacturers in an independent test series. The objective is to evaluate performance objectively under defined practical conditions using ten test criteria across different materials, including stainless steel (V2A) and C45.

The test procedure comprised 5 break-in cuts in C45, followed by 50 cuts in V2A and another 45 cuts in C45.

Key process and quality parameters were evaluated, including current consumption, vibration, cutting force, perpendicularity, thickness deviation, roughness, wear mark width, and chip class.

The measurements were performed using a Lorroch TC tool measuring device in conjunction with Delphin hardware and software for data acquisition on a MEBamat 330 band saw during the period from May to September 2026.

MEBamat 330
© Fraunhofer IPA



Test results after 100 cuts C45 STRUCTURAL STEEL

	Bichamp	Competition average	
Power Consumption Ø I max [A]	3.30	3.21	↗
Vibration Ø max. acc. [m/s²]	40.14	50.72	↗
Max. Cutting Force [-]	3.10	3.09	↗
Dimensional Accuracy [mm]	0.07	0.20	↑
Ø Thickness Deviation [mm]	0.13	0.09	↓
Roughness Ra [µm]	6.74	9.40	↑
Roughness Rz [µm]	40.97	54.93	↑
Ø Cutting Edge Radius [mm]	0.07	0.09	↗
Ø Wear Mark Width [mm]	0.10	0.11	↗
Ø Chip Class Rating	1.67	1.44	↗

Test results after 100 cuts STAINLESS STEEL V2A

	Bichamp	Competition average	
Power Consumption Ø I max [A]	3.01	2.79	↗
Vibration Ø max. acc. [m/s²]	21.87	26.14	↗
Max. Cutting Force [-]	6.77	6.34	↗
Dimensional Accuracy [mm]	0.08	0.61	↑
Ø Thickness Deviation [mm]	0.05	0.10	↑
Roughness Ra [µm]	4.83	5.97	↗
Roughness Rz [µm]	27.83	32.01	↗
Ø Cutting Edge Radius [mm]	0.08	0.07	↗
Ø Wear Mark Width [mm]	0.08	0.09	↗
Ø Chip Class Rating	3.00	3.00	→