



IKF

INSERTS



www.ikf.com.br



IKF Tools and Services of Brazil Ltd. follows national and international standards in the construction of inserts for machining operations, keeping our Quality Management System according to ISO 9001:2008, with certification granted by Bureau Veritas.

MISSION

"Provide effective machining solutions with the best cost-benefit ratio, making customer's satisfaction our strongest ally in the country's sustainable development."

VISION

"Be a reference in our segment."

VALUES



I - Initiative

K - Know-How

F - Fidelity

QUALITY POLICY

"Satisfy the expectations of our customers by applying innovative solutions with the best cost-benefit ratio, enhancing the human potential and continually improving processes, products and services."

Inserts developed according to customer's necessities

Projects based on modeling CAD / CAM

Business Management Software - ERP

Constant technological improvement



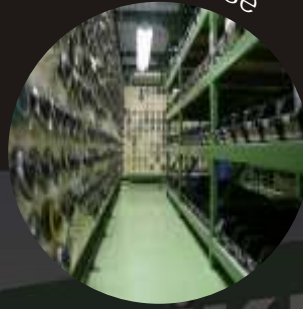
Production



Quality Control



Warehouse



Stock



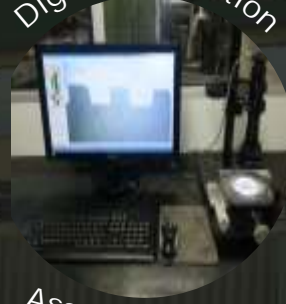
Production



Quality Control



Digital Inspection



Ultrasonic Cleaning



Maintenance



Commercial



Assured Quality

Receiving & Dispatching



Profile Projector



Product Engineering

PCP

Laser Engraver



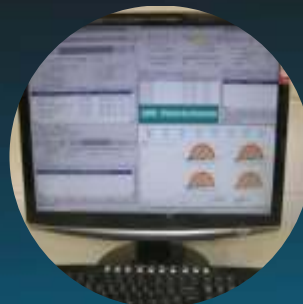
Metallographic Laboratory



CAD / CAM



ERP

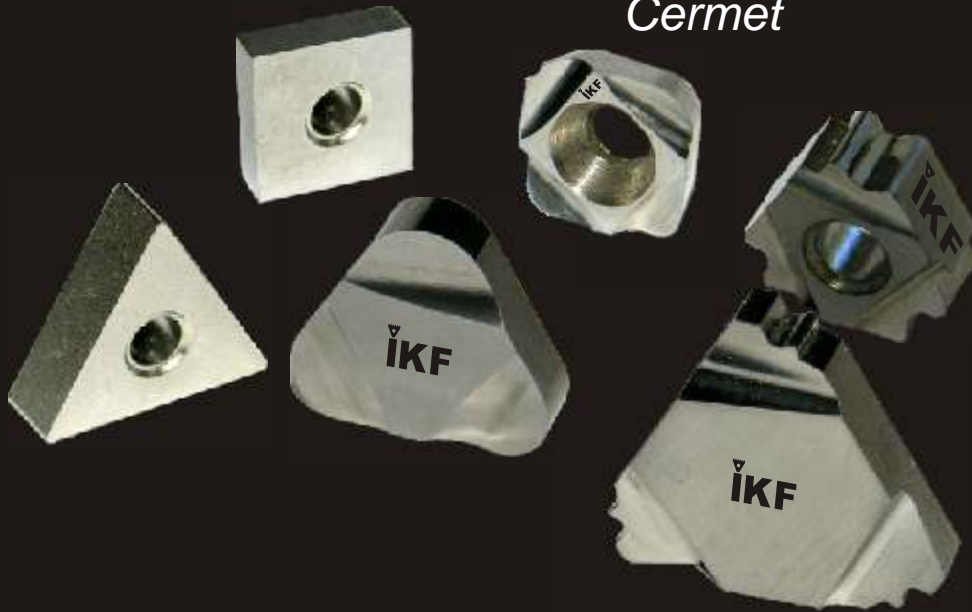


Training

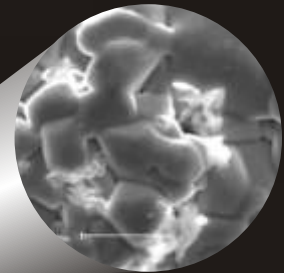


Blanks

*Inserts made of
Cermets*

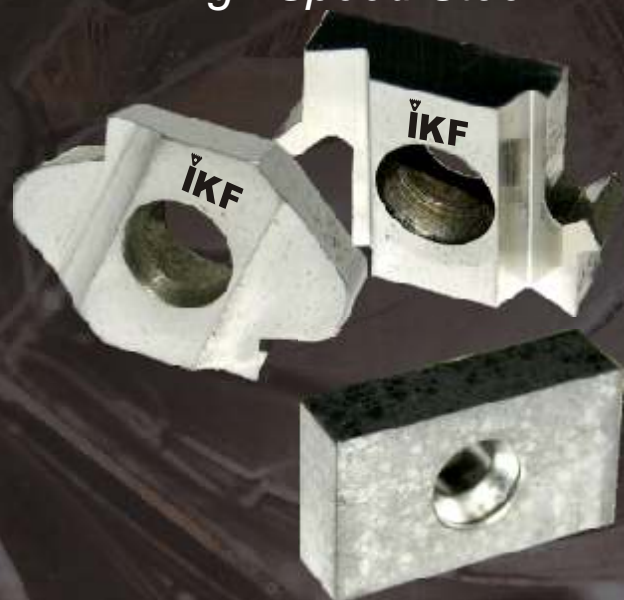


*Inserts made of
Carbide*



*Metallographic
analysis of Raw
Material - Quality
Assurance*

*Inserts made of
High Speed Steel*



Inserts made of CBN



Individual solutions with quality for machining of different types of products.

Technology developed for milling materials such as Titanium, Aluminum, Steel, Cast Iron and Stainless Steel.

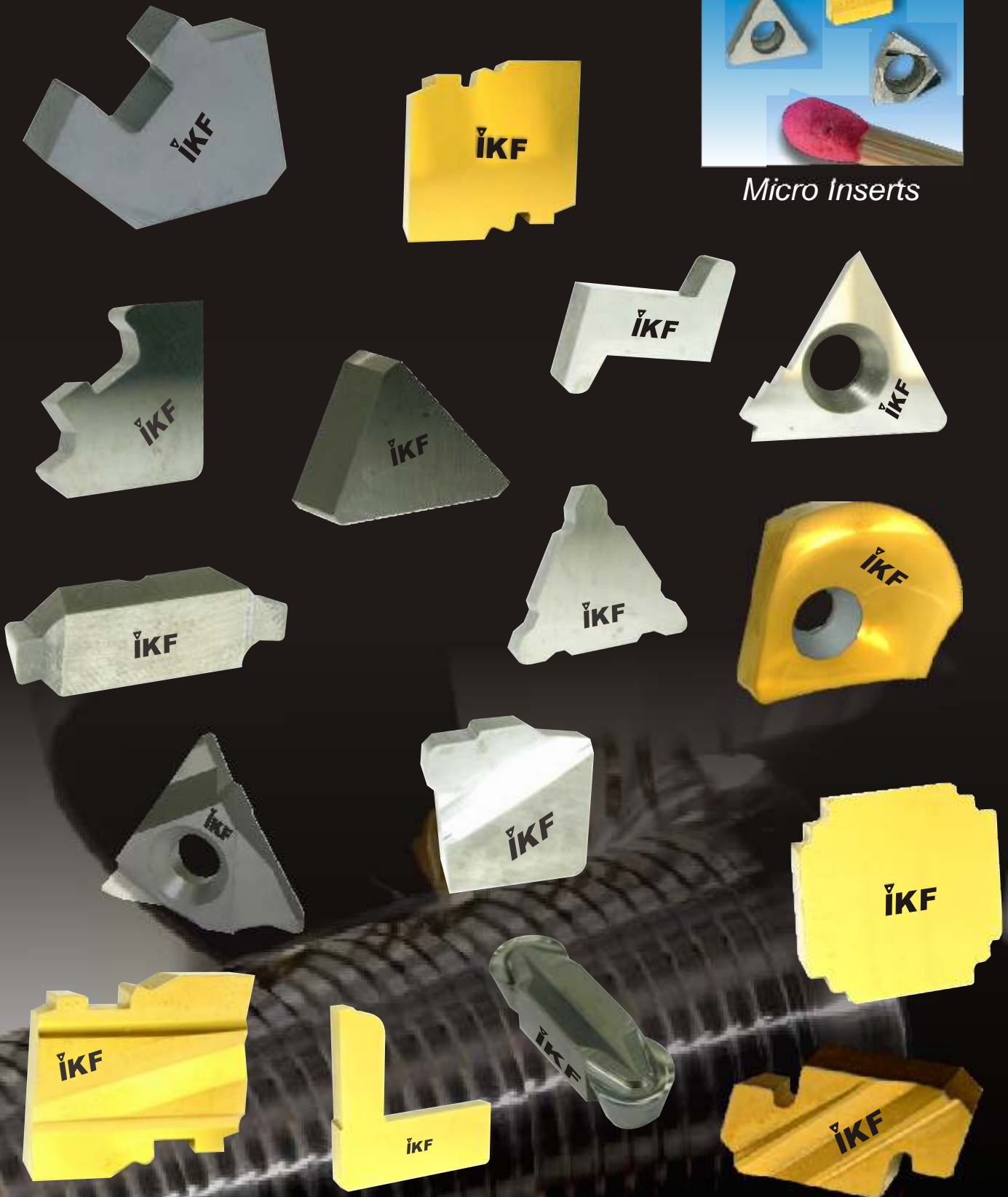


Turning

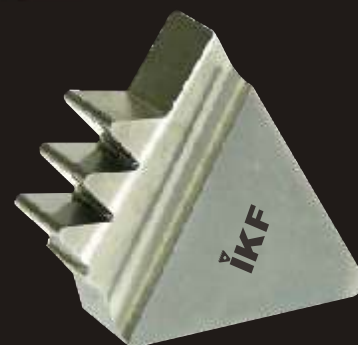
The technical characteristics of our inserts, allow turning with high performance and efficiency.



Micro Inserts

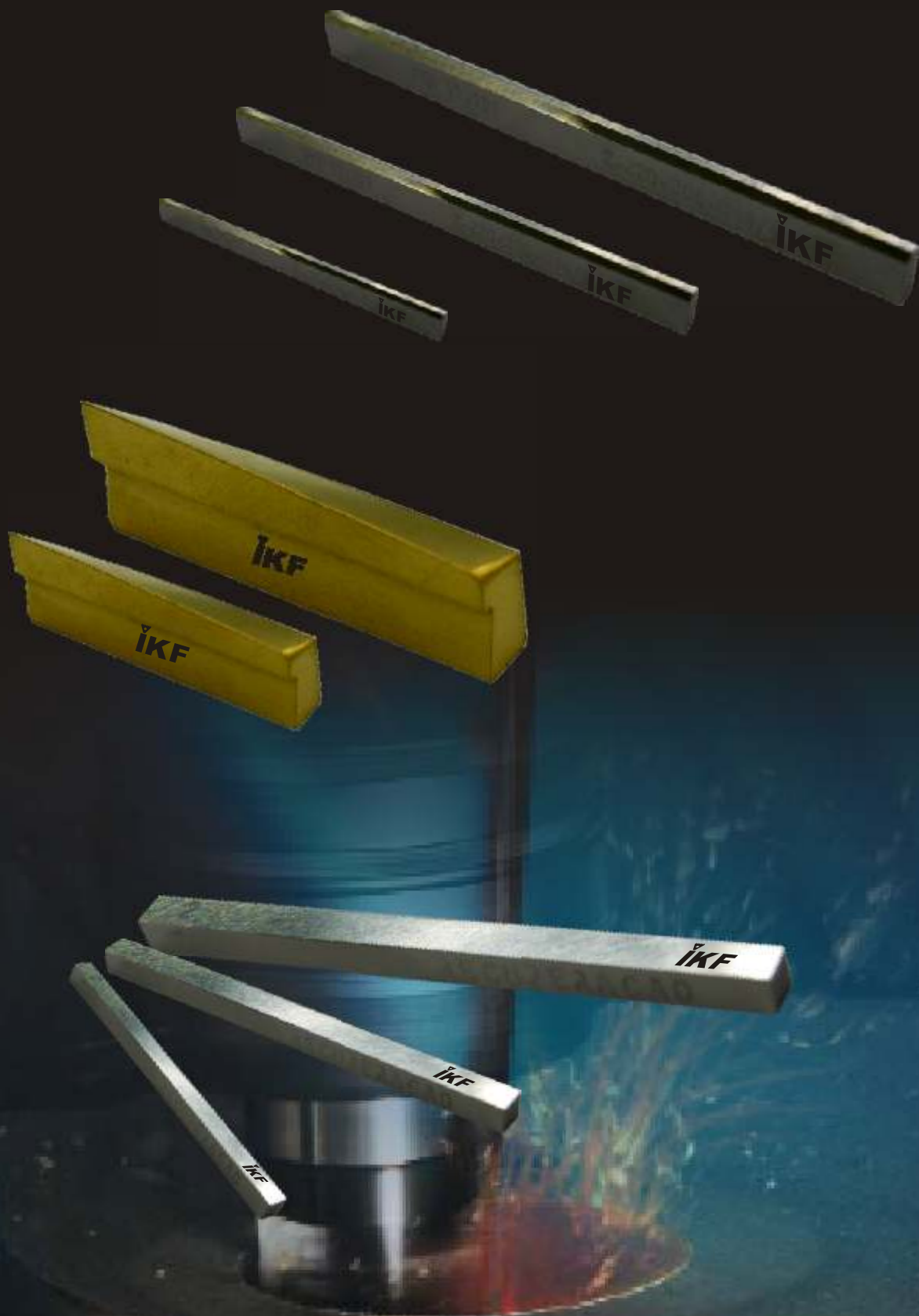


*Inserts with thread profile: Standard,
Special and for Oil Companies.*



Blades

Used on milling, finishing operations and cutting blades.

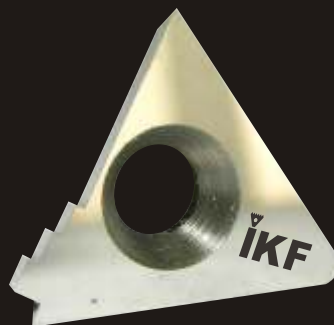
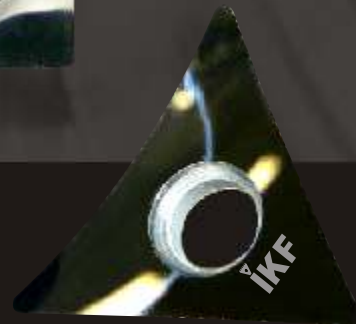
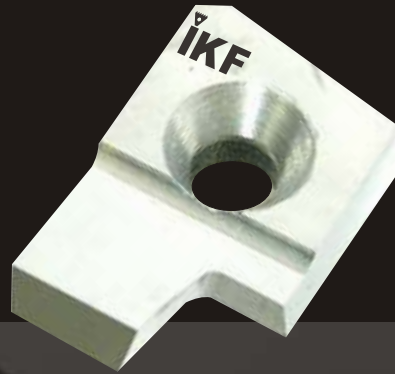


Used in operations where productivity, speed and finishing are important in the machining of products.



Aluminum Machining

Products with high performance to provide better cost-benefit.



Used in chamfering inserts and counterbores.



IKF has large experience in developing specific solutions to meet the various types of machining operations.

Types of Coated

Using nanostructure technology coated for inserts, ensures thermal and chemical stability, reduced friction and increased surface hardness, factors directly linked to performance of the inserts.

General Machining Coated



High speed machining and temperature with minimal cooling



Hardened materials Machining or tempered with or without refrigeration

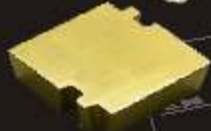


Due to market demands for better services and necessity to reduce costs.

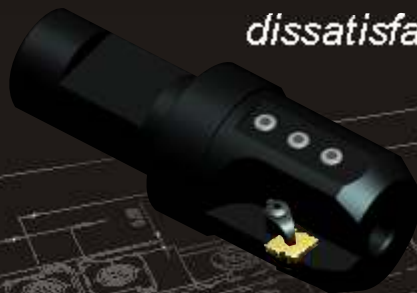
Conceptual Design of the Competitor

Finishing and performance expectations were not achieved, resulting in a tool of low technical quality and customer dissatisfaction.

Product



Insert



Conceptual Design of IKF

After detailed study of the real condition of machining and an analysis of all possible variables, IKF found the ideal solution for the customer.

1st Prototype



2nd Prototype



Final result: machining and finishing performance exceeding the tools proposed by the competition. That can only be achieved with technical quality, efficiency and commitment to the customer, the primary factors IKF.

Approved



Ideal tool

Improvements

Sucessful Case

Where the technology employed served to leverage business and generate positive results.

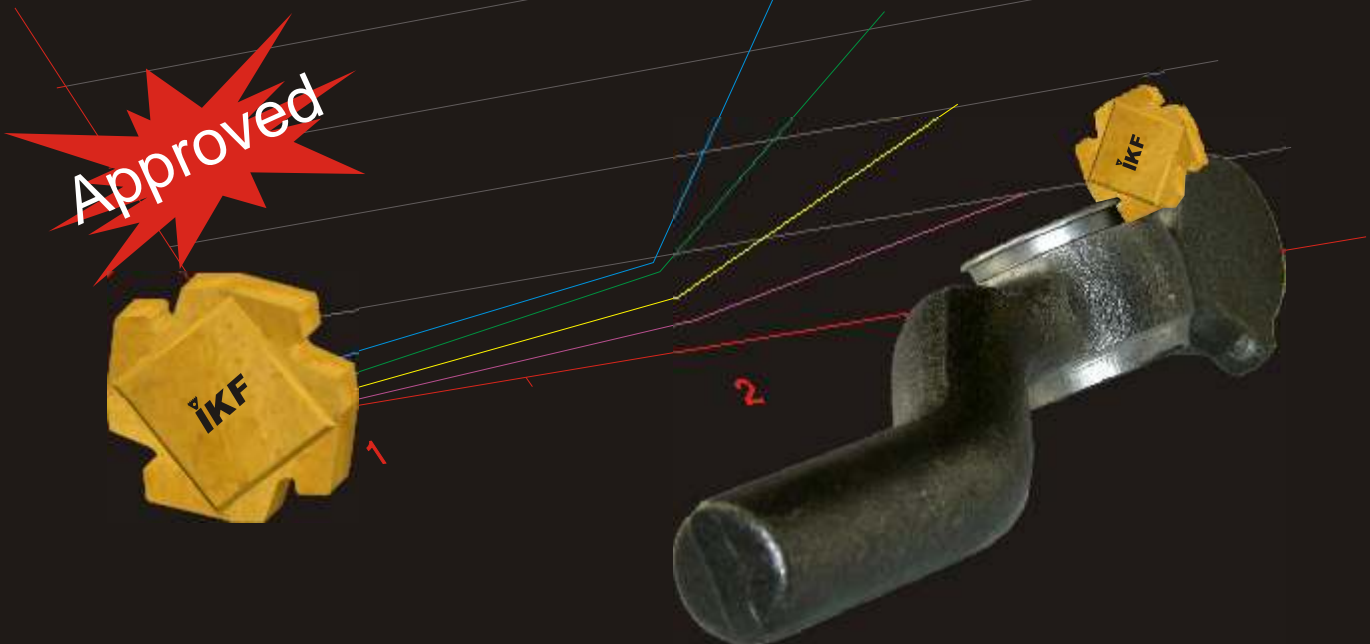
Initial Conceptual design of the **Competitor**

One cutting edge insert, resulting in low productivity.



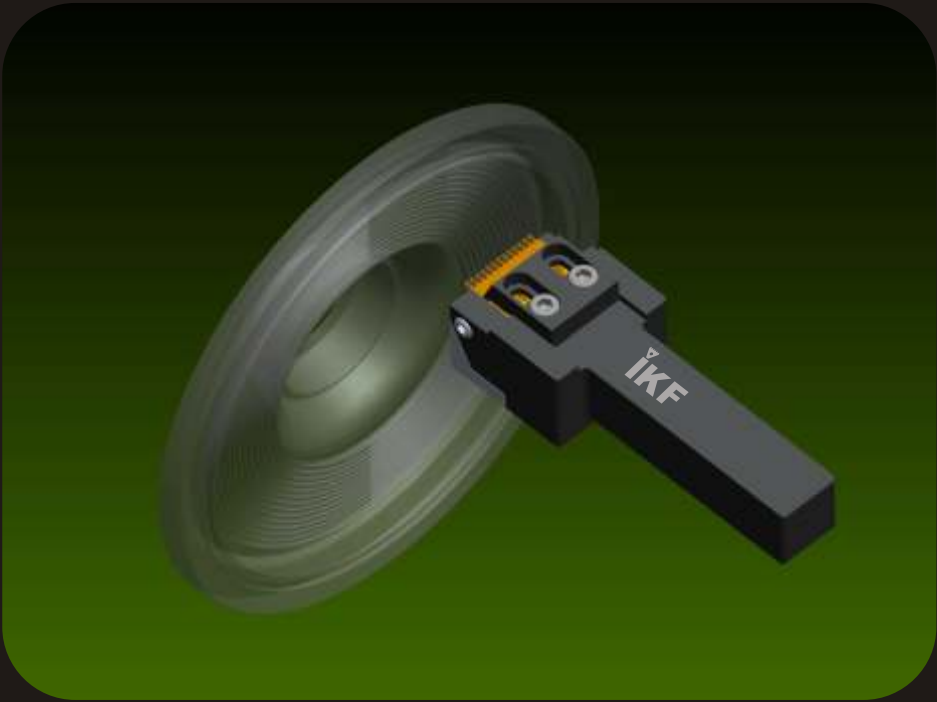
Conceptual design optimized by **IKF**

Four cutting edges insert with coverage: 75% of economy and 25% increase of machined parts.



Competitive advantages achieved.

Machining slots with special insert.



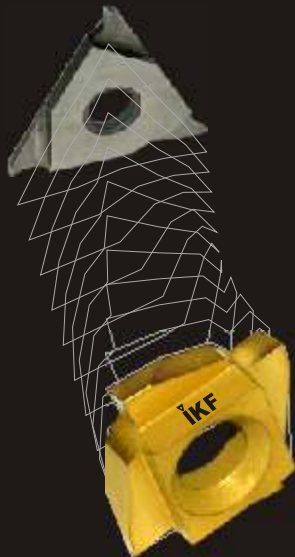
Conceptual Design of **Competitor**

3 cutting edges

Project set with three cutting edges and dimensional problems.

Conceptual Design of **IKF**

IKF has developed a solution where the combination of a greater number of cutting edges, ideal class of blank, specific coverage and controlled manufacturing process, provided better cost-benefit to the customer.



4 cutting edges



The results were impressive: 35% more parts produced compared to the old process with the tool of competition.

Resharpener

1, 2 or as many times as technical feasibility supports.
Reuse your insert resharpener the cutting edges.



Original worn insert



Resharpener insert
(resharpened)



Resharpener insert with
coverage



Original worn insert



Resharpener insert
(resharpened)



Original worn insert



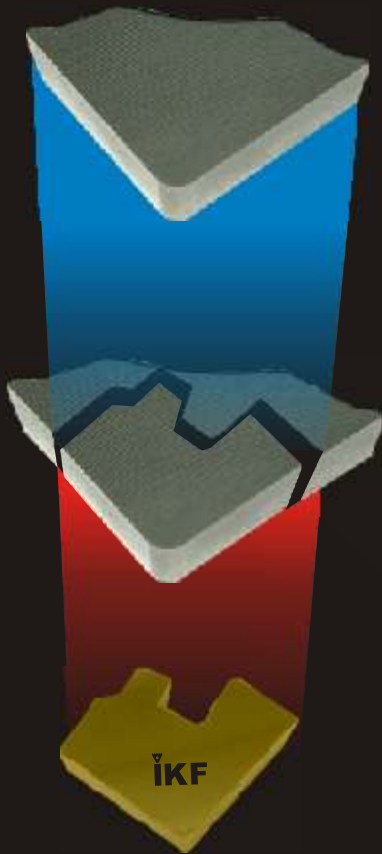
Resharpener insert
(resharpened)



Looking to the Future, Recycling Today.

At a cost below the value of a new insert, with technical analysis, we transform your insert used in a new insert, ready for further operations.

Original Insert



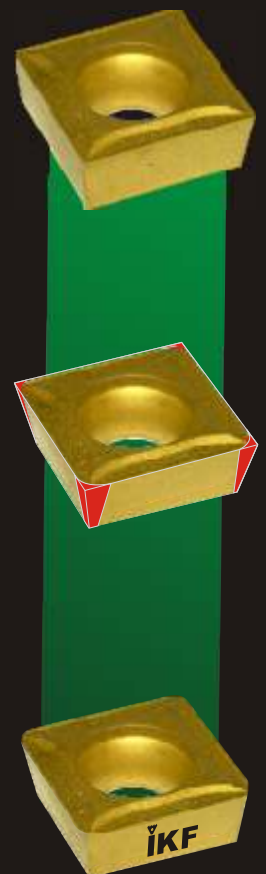
Transformed Insert

Original Insert



Transformed Insert

*Profile
Radius 0.4*



*New Profile
Radius 2*

Photos for illustration only



Looking to the Future, Recycling Today.

Products

Brackets



Brackets



Bars



Brackets



Milling cutters



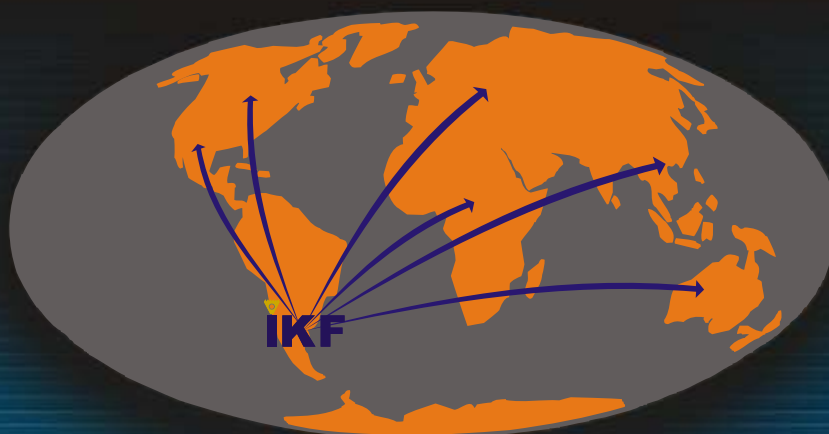
REPRESENTATION

Visit our website to check our representatives network:

www.ikf.com.br



Or contact directly the company:
- E-mail: sales@ikf.com.br
- Phone: +55 41 3595-4500
- Fax: +55 41 3595-4501



ISO 9001

BUREAU VERITAS
Certification



Headquarters



www.ikf.com.br

IKF SERVIÇOS E FERRAMENTAS DO BRASIL LTDA

RUA CLÁUDIA SOARES, Nº 165 - BAIRRO PORTAL DO SOL
SÃO JOSÉ DOS PINHAIS - PARANÁ - CEP 83020-790

Fone: +55 41 3595-4500 - Fax: +55 41 3595-4501

E-mail: sales@ikf.com.br - ikf@ikf.com.br

Site: www.ikf.com.br