

Mod.MKFMTO.017B 04/2013

The Power of Engineering

FREZITE, A HISTORY OF SOUNDNESS AND INNOVATION

Working for the highly competitive professional and industrial segments, Frezite has achieved its growth in sound, sustainable fashion since its foundation in 1978. The company started its activity with the production of high-precision tools for the wood, plastics, composite materials and metals transformation industries and sectors.

The opportunities generated by the surge of the automobile and aerospace sectors have led to the automation of the Metal Division and the creation of the **FMT – Tooling Systems brand**.

With head offices based in Portugal and strongly geared towards internationalisation, the Frezite Group already has a consolidated branch network. Developing engineering solutions for different markets, Frezite has been extending its field of action to new operating areas.

FREZITE Group





The commitment to innovation and excellence means that the Frezite Group and its products and technology can currently be found in over 50 countries spread around five continents.



A SOLID, GLOBAL PRESENCE

FREZITE Group

2012

Annual turnover

2013

Annual turnover expected



A touch of innovation based

on experience

MISSION

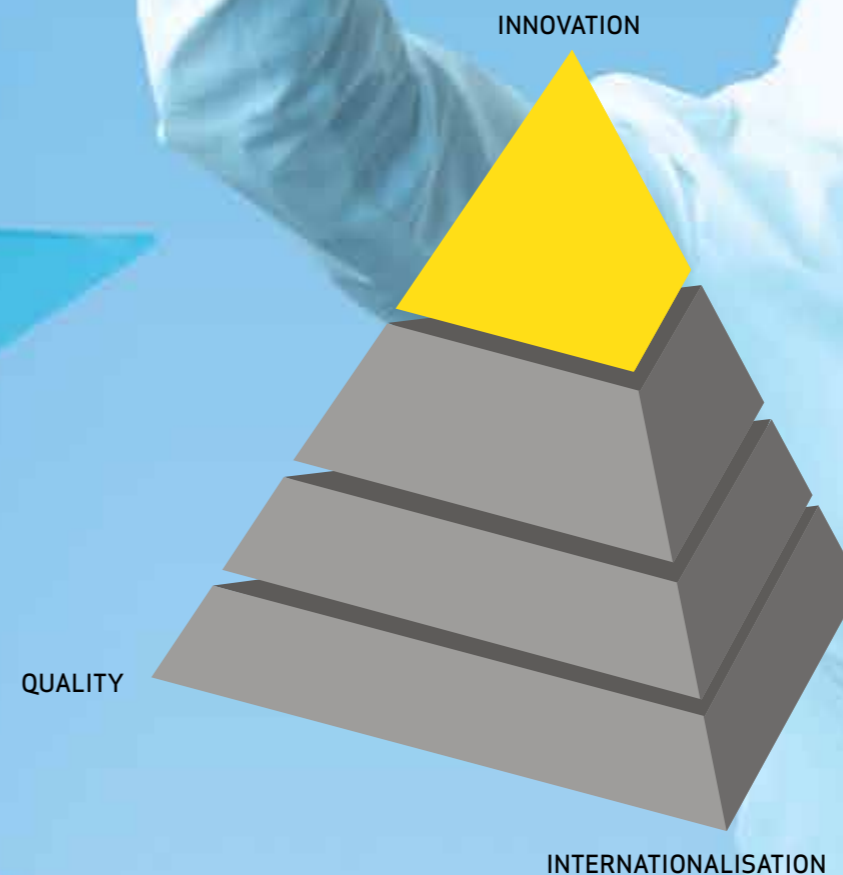
“TO BE AN ORGANIZATION
RECOGNIZED FOR ITS
EFFICIENCY IN MAINTAINING
AND CREATING VALUE.”

VISION

“TECHNOLOGY DEVELOPMENT
FOR SUSTAINABLE
IMPROVEMENT OF
QUALITY OF LIFE.”

VALUES

“INTEGRITY, TEAM SPIRIT AND INNOVATION.”



INDUSTRIES/MARKETS



AUTOMOBILE

AERONAUTICS

ELECTRONIC

MEDICAL

MOULDING

VALVES

PHILOSOPHY



Continued investment in the latest machinery technologies

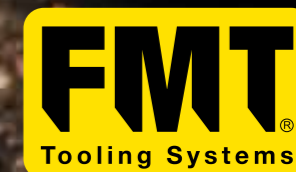
Local support and service for all product

Commitment to research and development

Investment in expertise to support Key User Partnerships

FREZITE Group





CLINIC

Internal test centre for new cutting tool designs.

Setting up of machining demonstrations for customers.

Troubleshooting of machining problems.

Development of new machining processes and internal knowledge.

The Power of Engineering



FMT 7 Advantages

Ideal Partners

Easy to Work With

Dynamic Team



**Enlarged
portfolio**

**Research
& Development**

**Focus
on Performance**

**Global
Presence**



Backed up by the great experience of its engineers in designing high-quality cutting tools – in standard products and customized solutions – Frezite's Metal Division has become more independent and now works with the FMT – Tooling Systems brand.

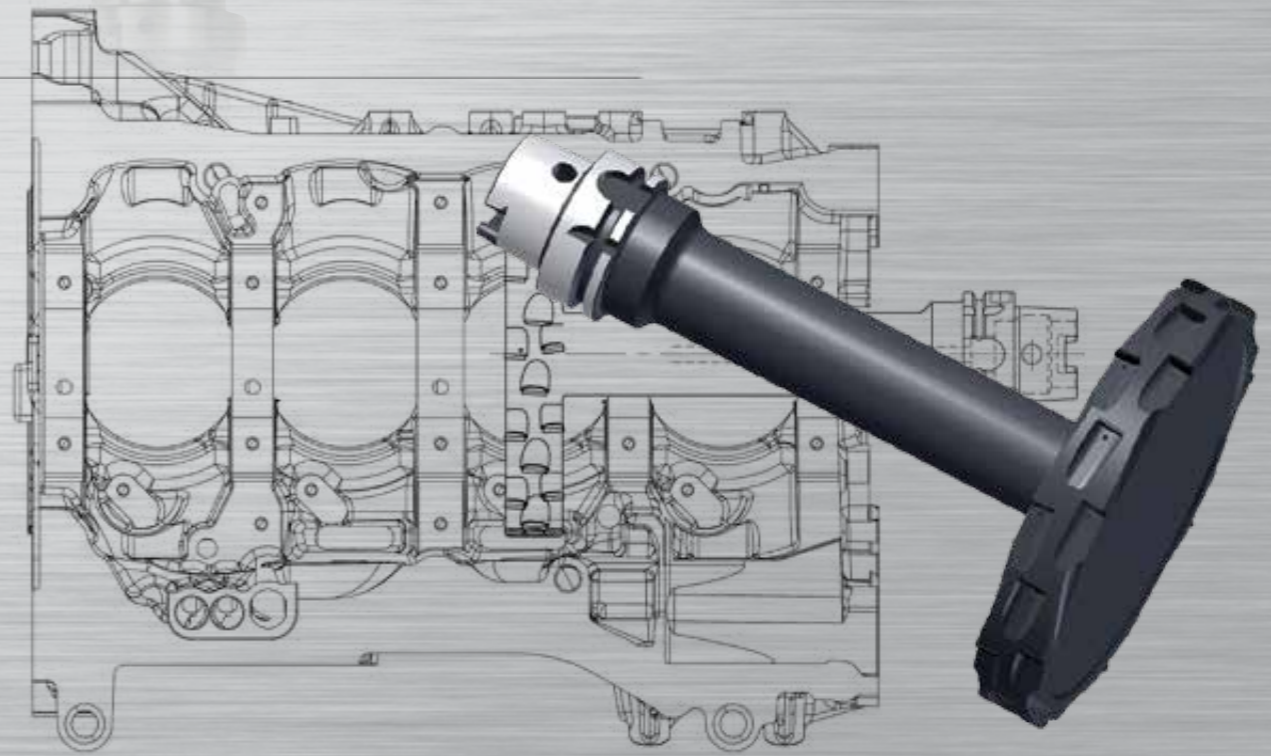
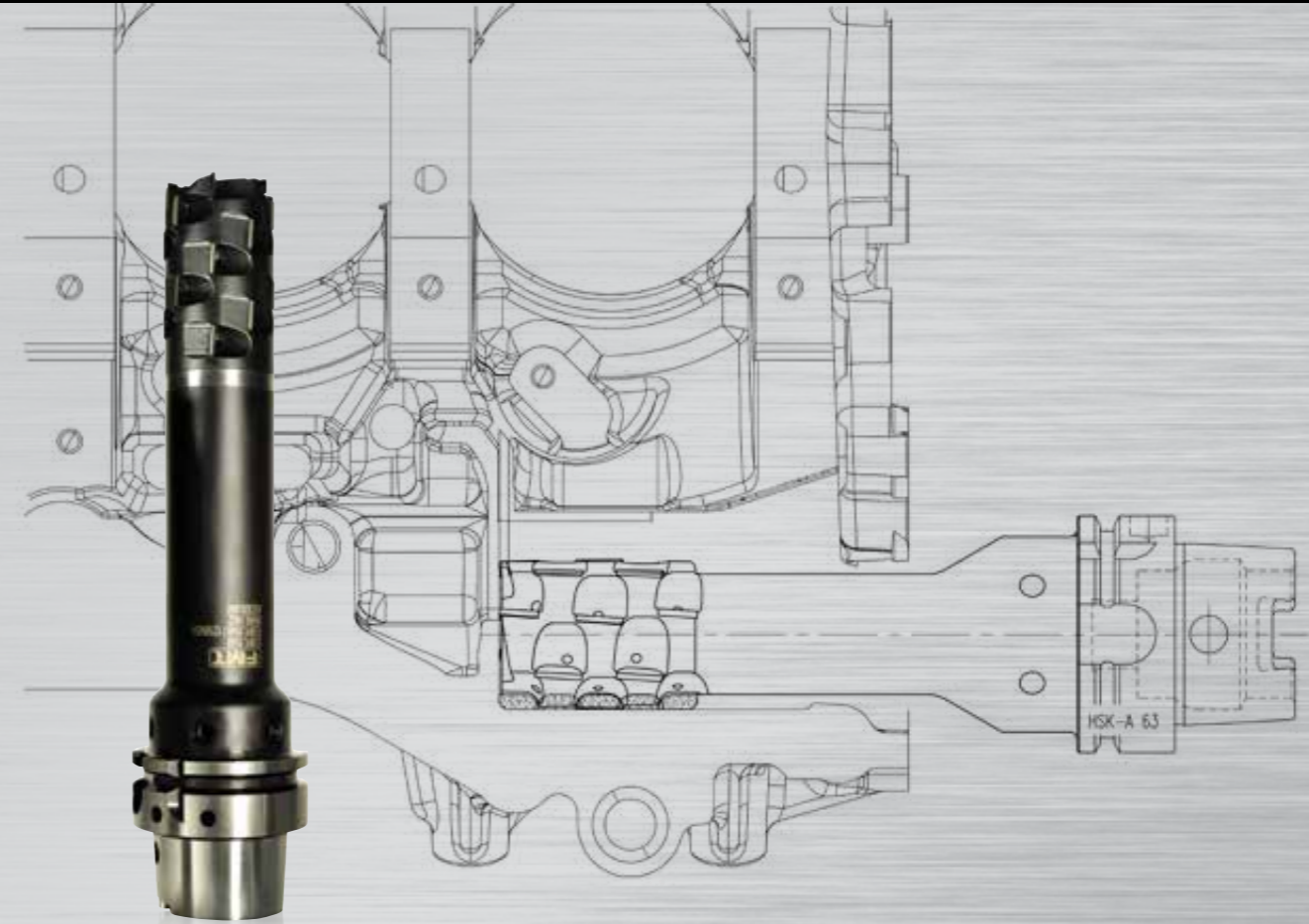
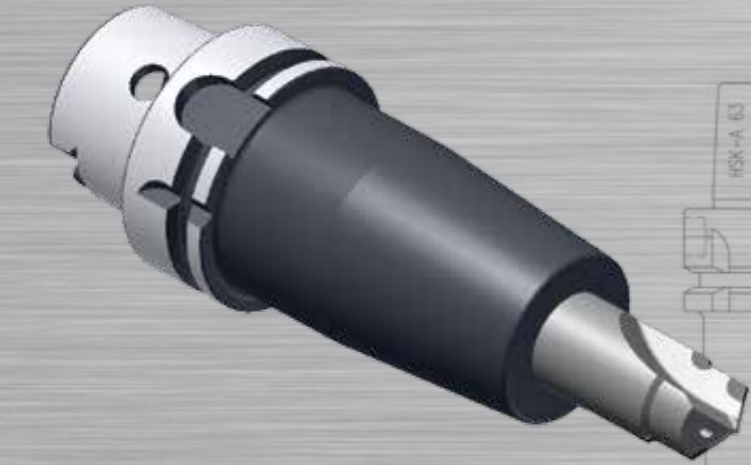
Geared up for any challenge, FMT adopts state-of-the-art working concepts, producing innovative tooling systems developed in line with the requirements of each customer.

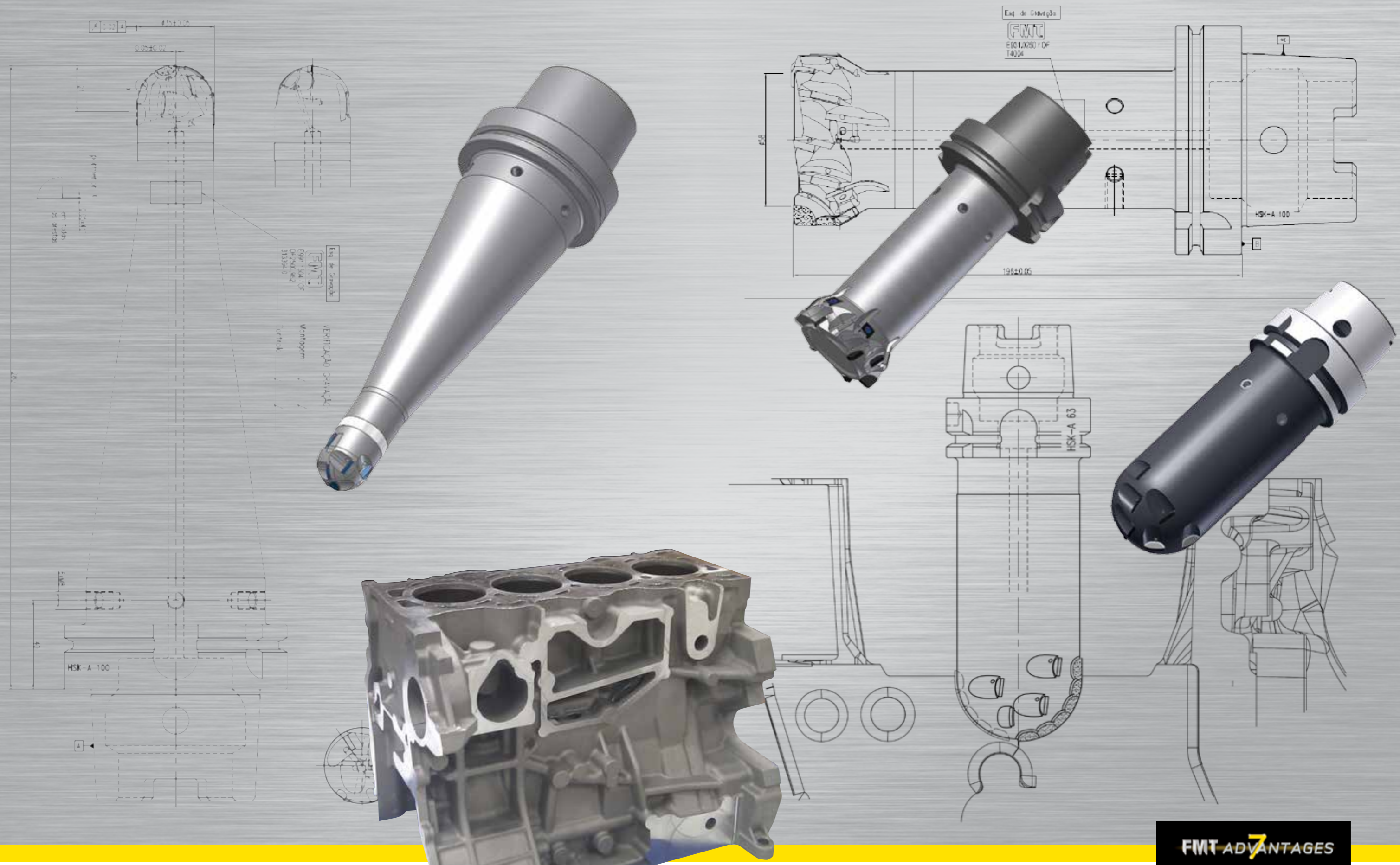
The company has a Research and Development Centre at which it tests better adjusted solutions to ensure the best performance and returns.

Particularly geared towards meet the needs of the following industries: Automobile, Aeronautics, Moulds, Medical (Instrumental), Electronics, Equipment etc., the FMT brand offers the markets 7 advantages which set it apart.

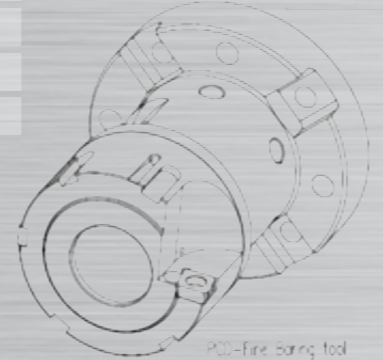
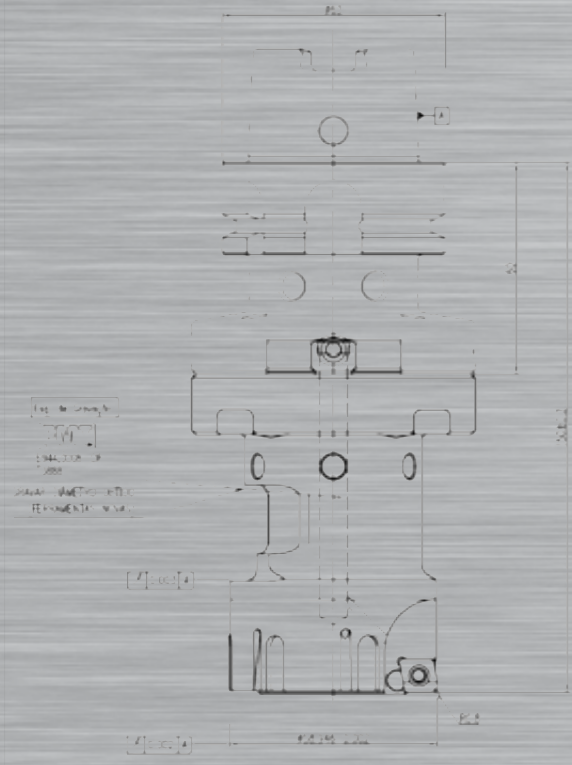


SPECIAL
TOOLS
FOR THE
MACHINING
OF ENGINE
BLOCKS &
CULASSES



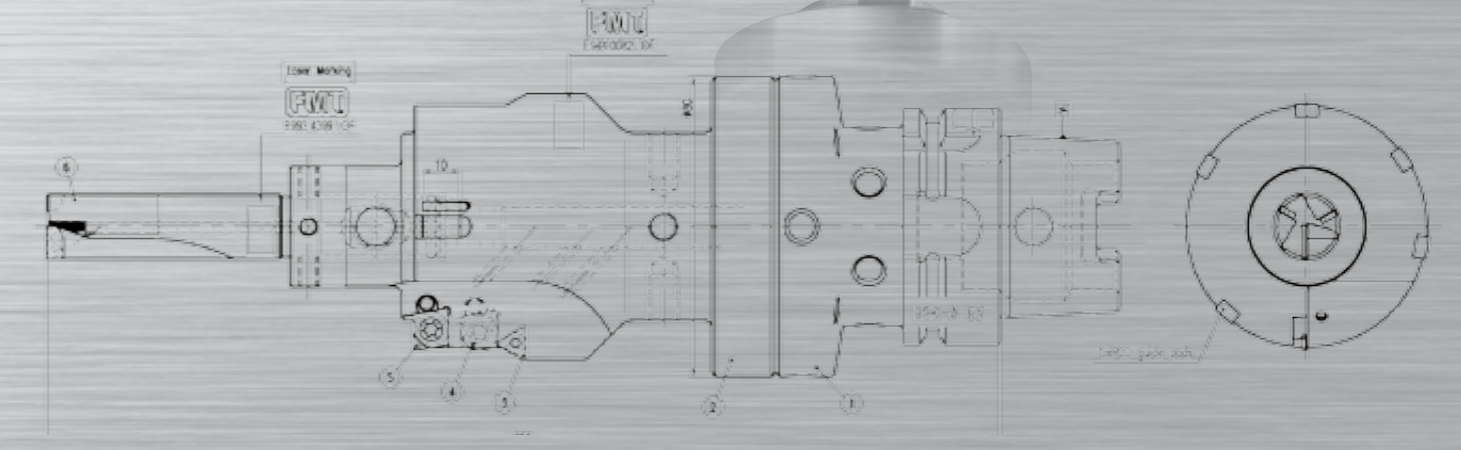
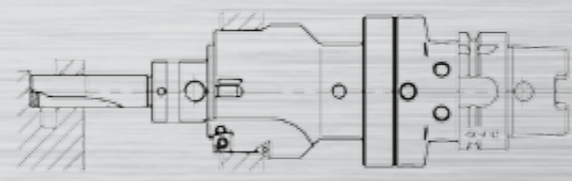
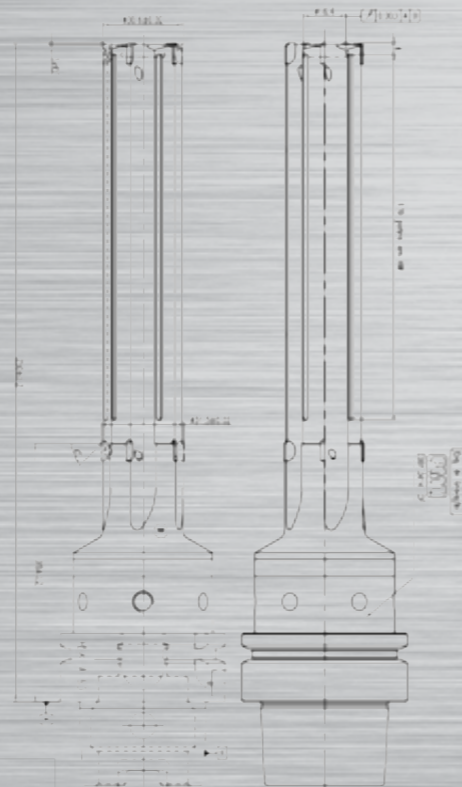
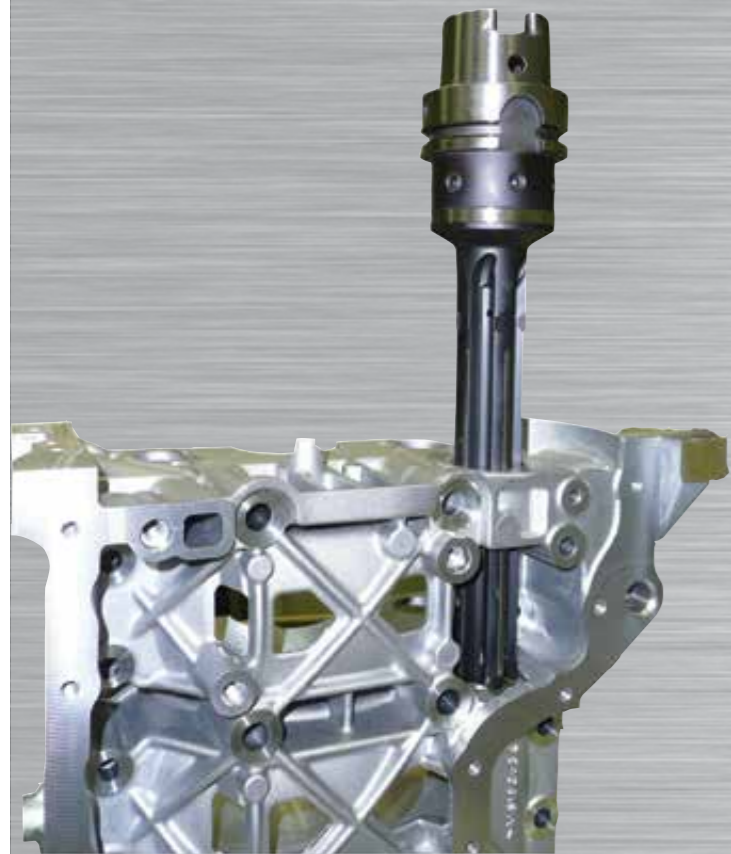
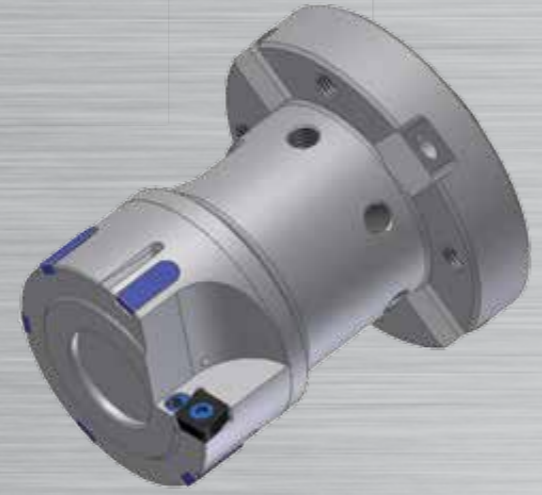


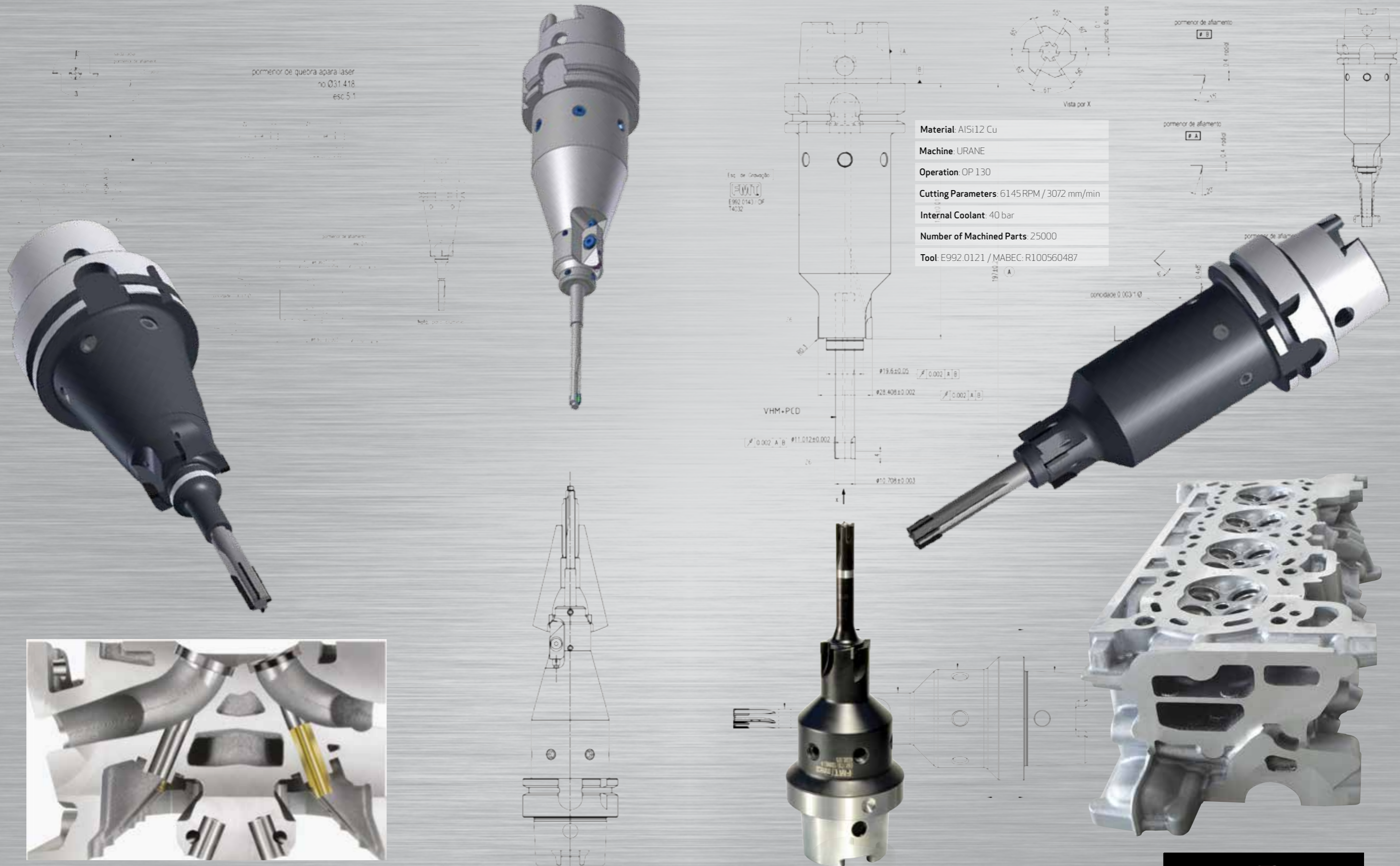
Material: A59U3 Y40
Machine: C.U. Horizontal DMC 63H e GROB BZ 500
Operation: OP9 (112 - FINITION ROUL. SECONDAIRE)
Cutting Parameters: 5000 RPM/0.1 mm/rot/0.03 mm/rot
Internal Coolant: 43 bar
Number of Machined Parts: N/A
Tool: E944.0008



PCD-fine boring tool
 1-cutting edge, straight flute
 with internal coolant

Main tool body material: steel
 Cutting material: PCD
 Guide pods: PCD

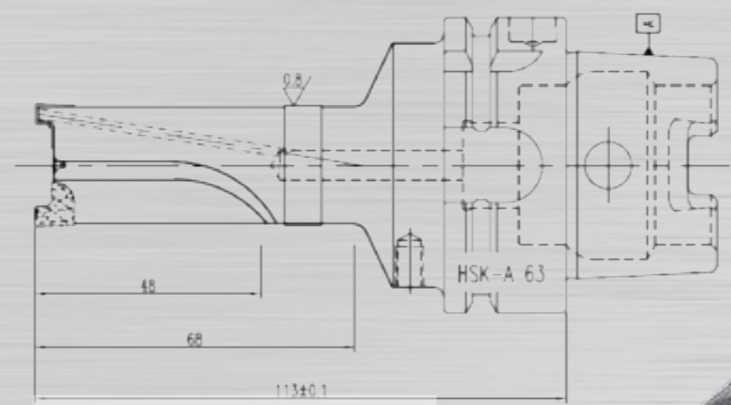
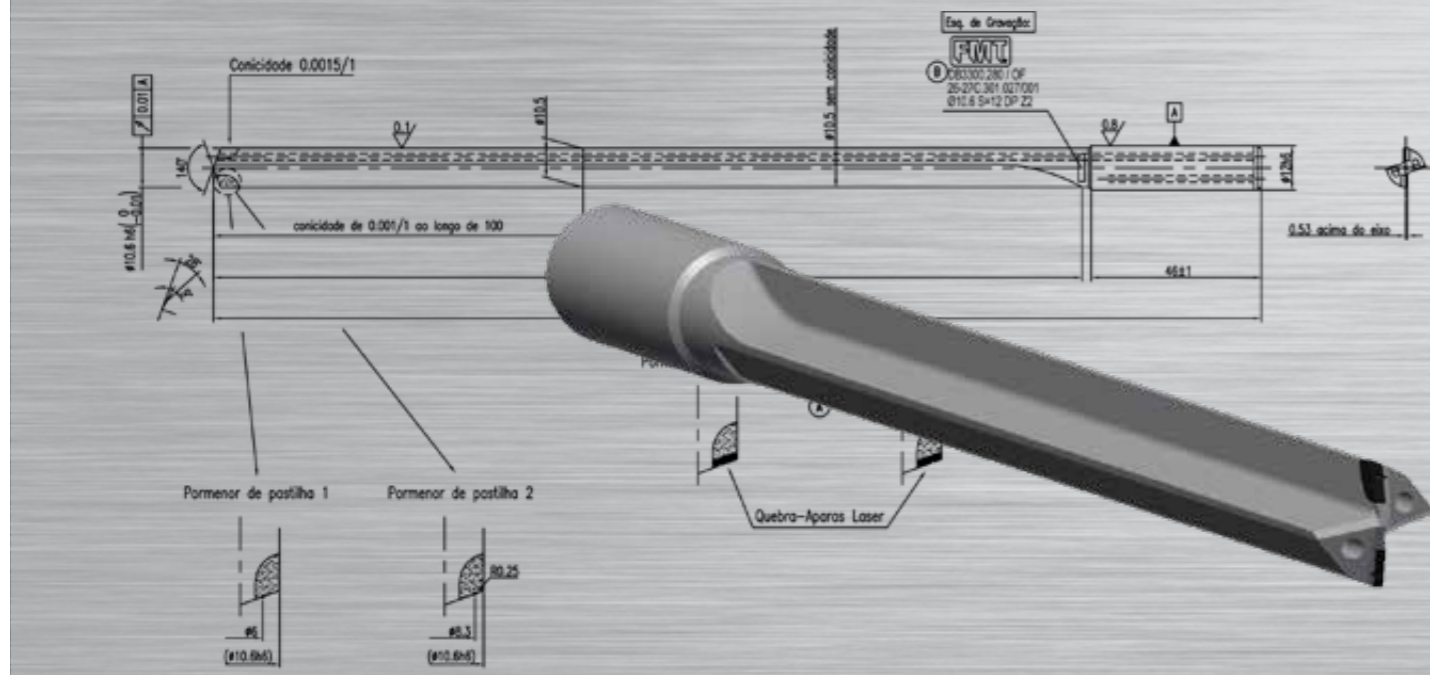
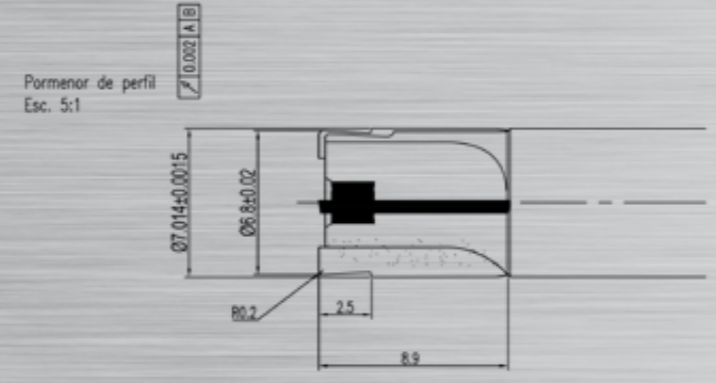




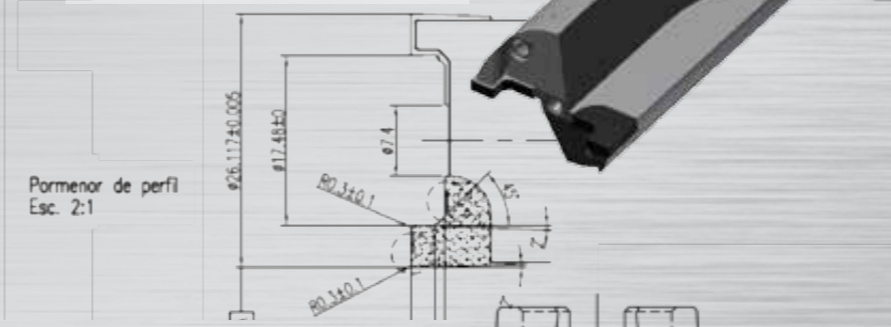
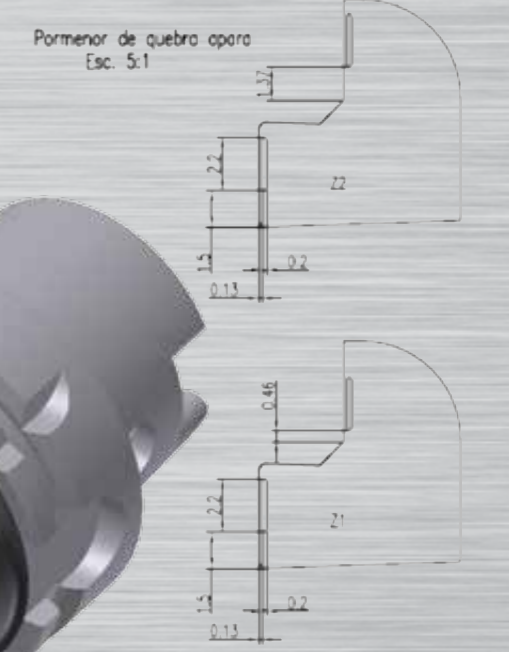
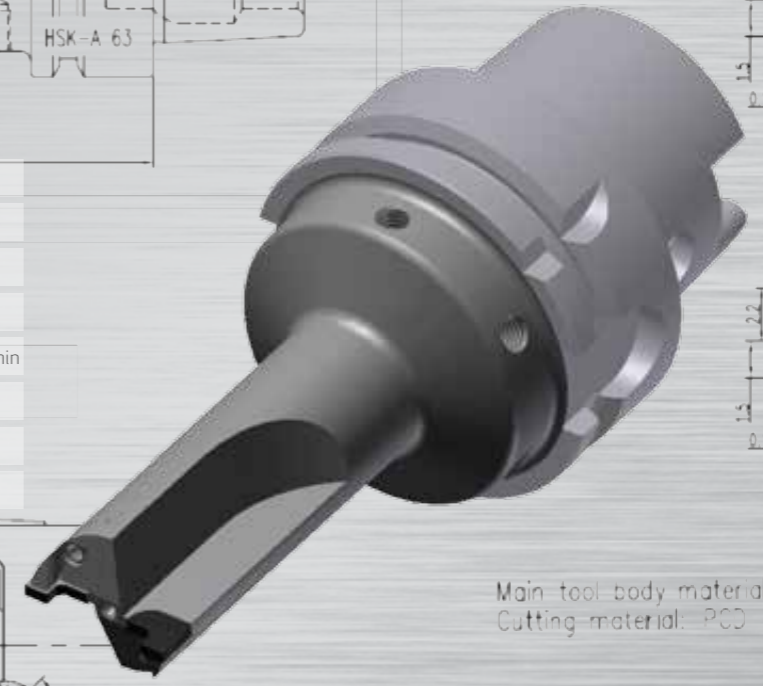
Material: AISI12 Cu
 Machine: URANE
 Operation: OP 130
 Cutting Parameters: 6145 RPM / 3072 mm/min
 Internal Coolant: 40 bar
 Number of Machined Parts: 25000
 Tool: E992.0121 / MABEC: R100560487

Technical drawing details include:
 - Dimensions: #19.6±0.05, #28.408±0.002, #11.012±0.002, #10.708±0.003
 - Surface finish: 0.002 A/B
 - Tolerances: 0.003-1 Q
 - Features: VHM-PCD, Vista por X, 55°, 60°, 61°, 0.1° sobre o eixo, 0.4 radius, 0.4 radius, 0.4 radius



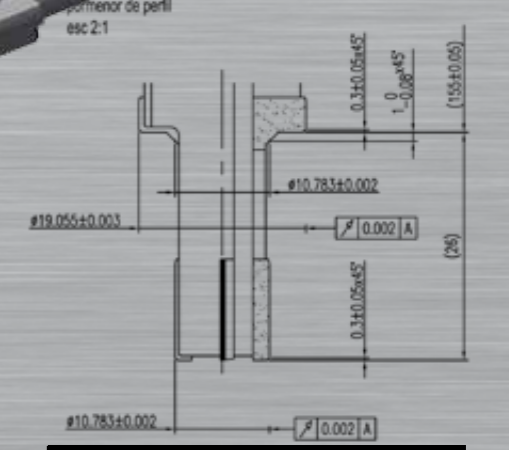
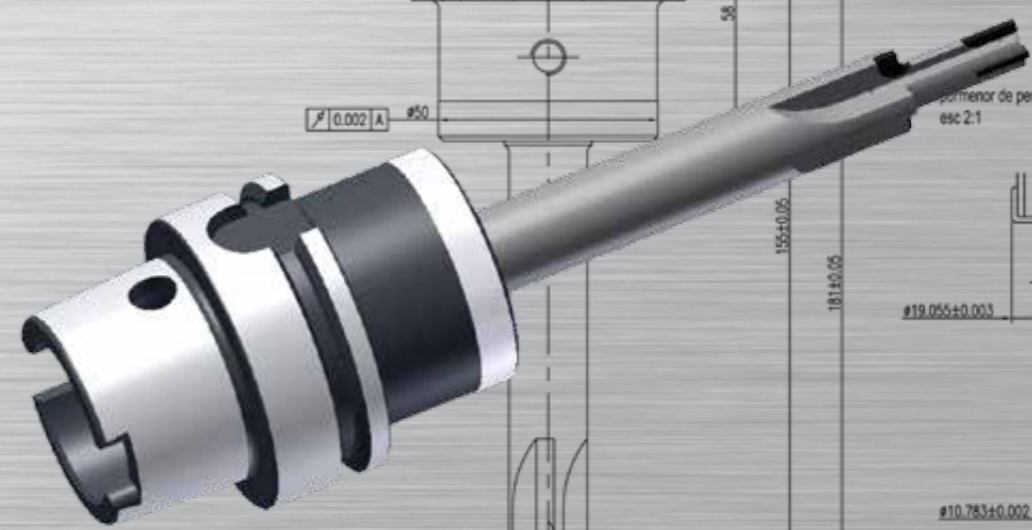


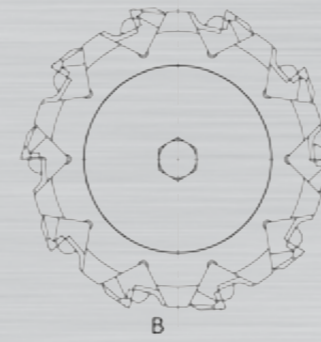
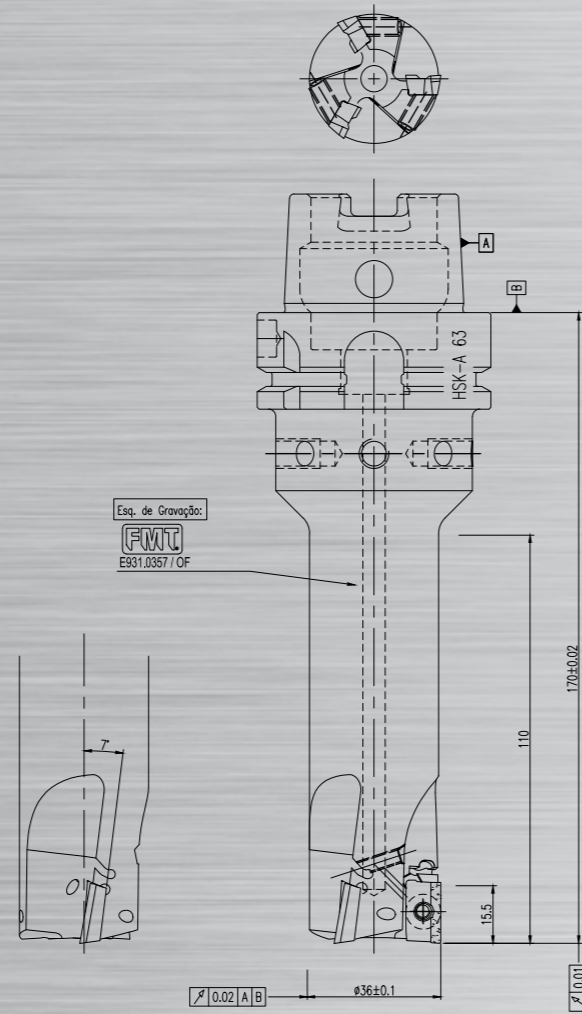
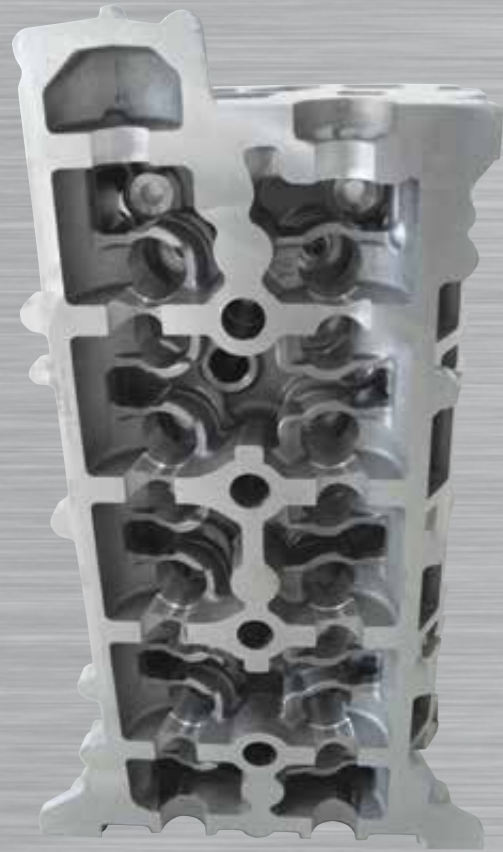
Part: H4JT
 Material: AISi12 Cu
 Machine: URANE
 Operation: OP 130
 Cutting Parameters: 14520 RPM / 3122 mm/min
 Internal Coolant: 40 bar
 Number of Machined Parts: 25000
 Tool: E991.0864/MABEC: R10055064



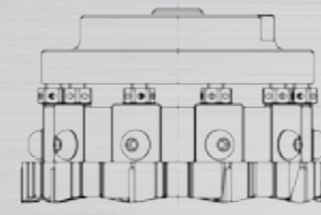
Main tool body material: Steel
 Cutting-material: PC8

Material: AISi12 Cu
 Machine: URANE
 Operation: OP 380
 Cutting Parameters 5836 RPM / 2010 mm/min
 Internal Coolant: 40 bar
 Number of Machined Parts: 45000
 Tool: E993.2225/MABEC: R100505002

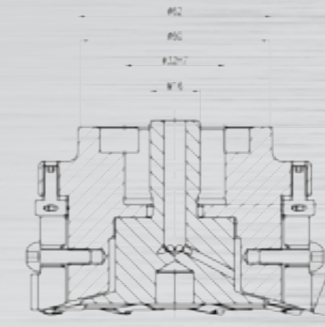
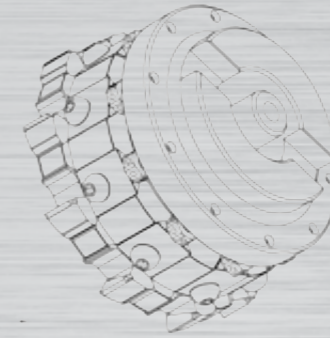




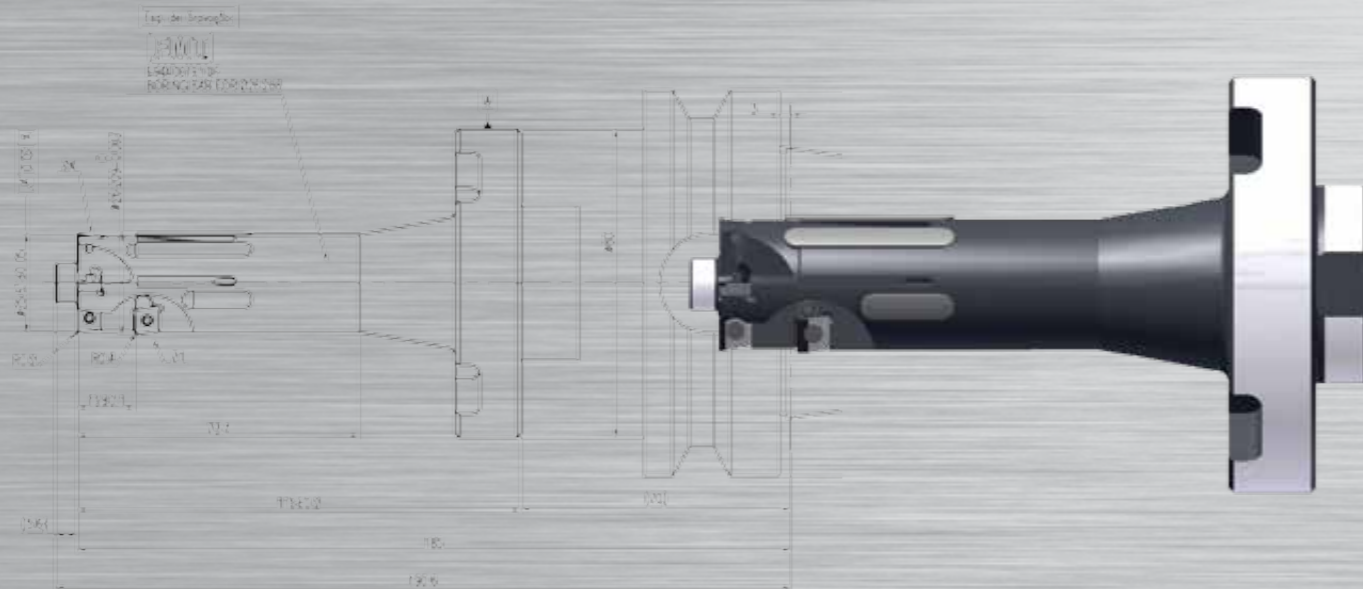
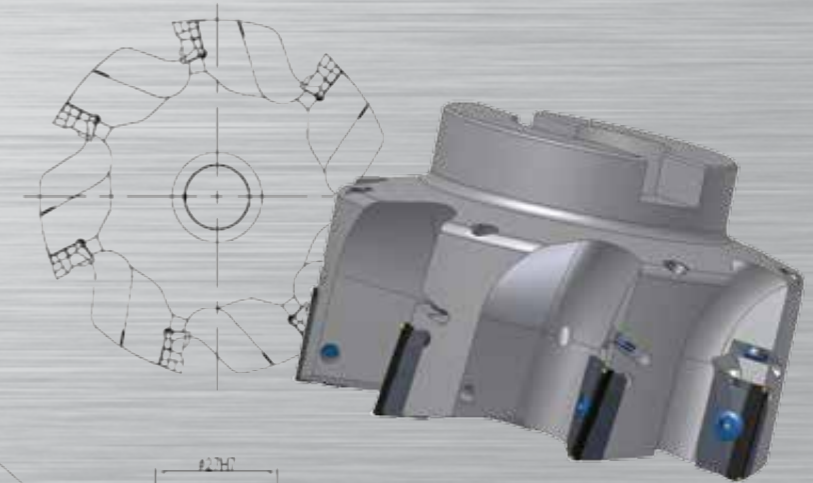
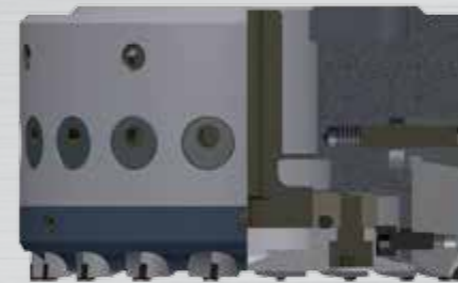
B



B



Corte B-B

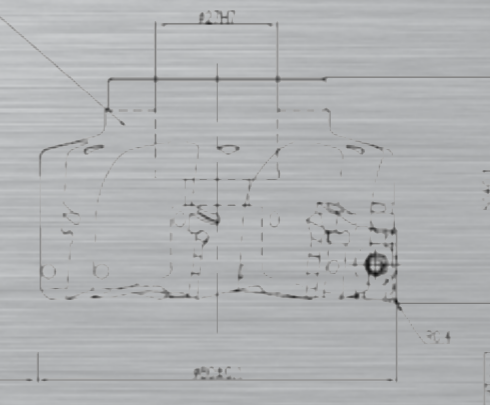


Esq. de Gravação
FMT
E930.0625 / OF

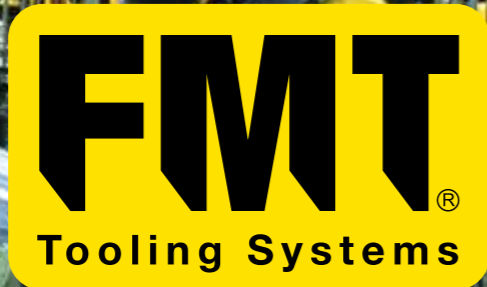
Colocar frenador azul no perno M4



0.02 A B



0.02



R&D

NEW DEVELOPMENT

NEW FACE MILLING TOOL

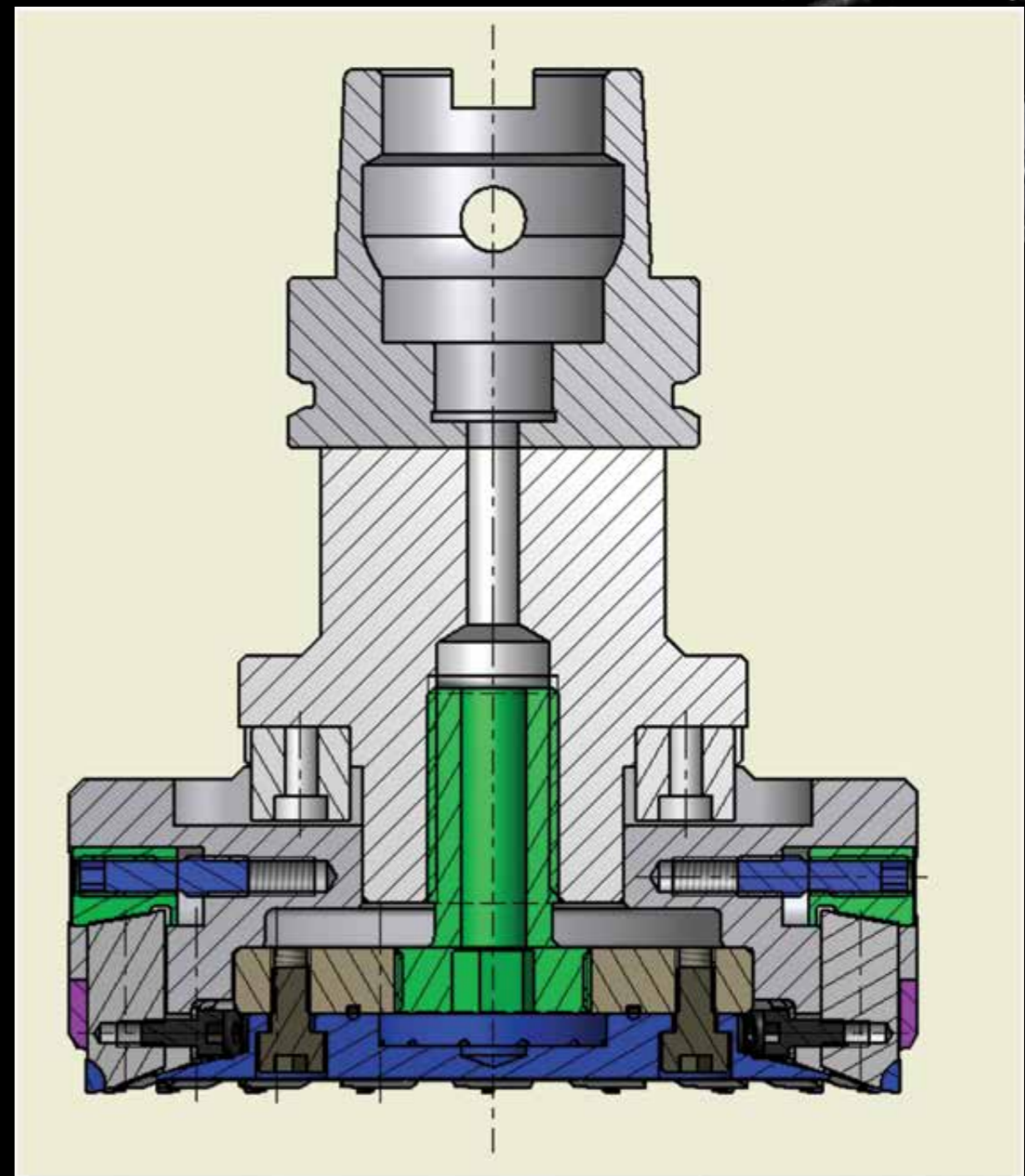
SPEED ONE



SPEEDONE

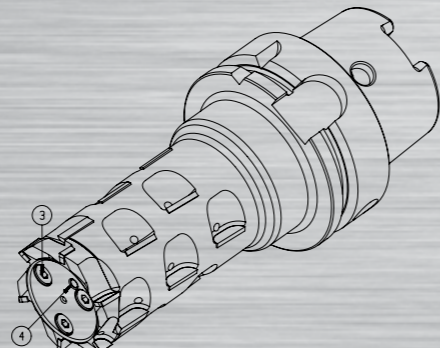
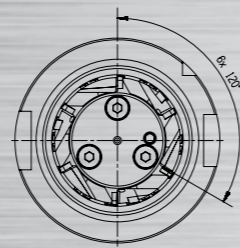
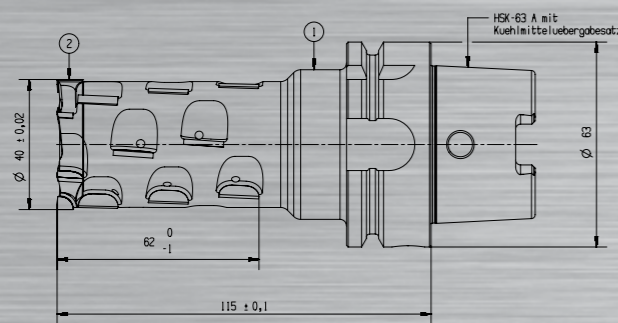
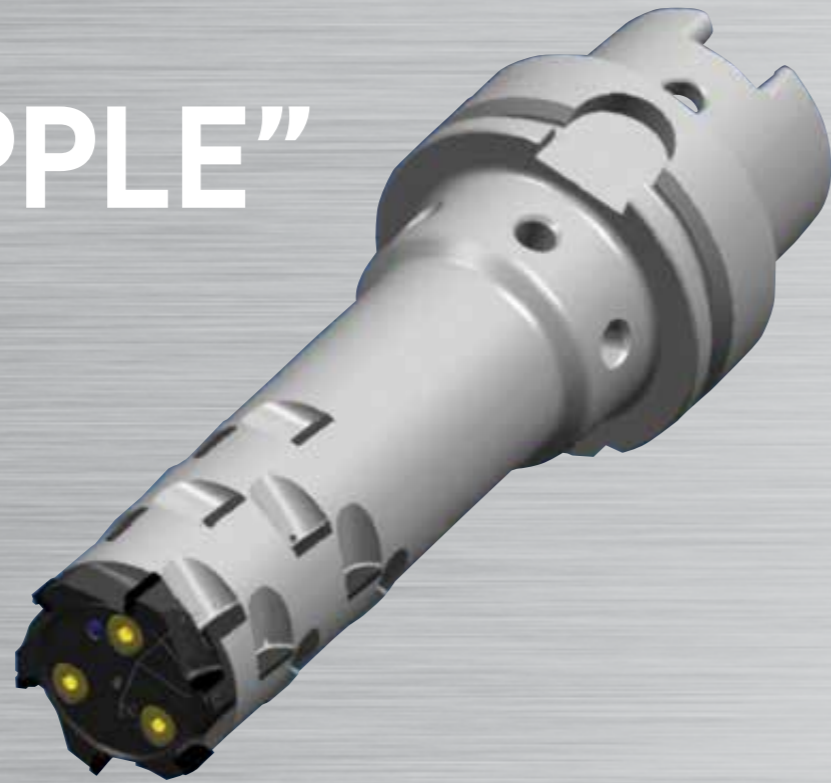
ADVANTAGES

- Modern, flexible and elegant concept.
- Roughing and finishing capability in one system.
- Cost effective PCD cartridges.
- Effective counter balancing of centrifugal forces.
- Increased tightening force of the tool to the machine arbor thanks to a cleverly designed clamping system.
- Allows for maximum RPM and feed rates, due to its “closed” accessory system.
- Thoroughly developed system for high tool performance.
- Maximum number of teeth for the highest feed rates.
- Removable and exchangeable wear protection ring for maximum main body life.
- Integrated cooling system for effective chip removal.
- High safety level when operating in high speeds.



“PINEAPPLE”

ADVANTAGES



PKD-Wechselkopfraeser
6/3-schneidig, geradegenutet

- Indexable main cutting edges (biggest abrasive wear)
- More affordable retiping costs
- Higher and optimized working performance as “Monoblock Milling Cutters”
- Higher productivity with higher feeds
- For roughing and finishing operations
- Higher system and exchanging accuracy
- Increased life time due to longer cutting inserts length
- Lower “Tool tourism”
- Lower storage costs





We turn challenges into technologies for the future.

FREZITE Group

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