

REPAIR, RESHARPENING AND TOOL MANAGEMENT

# Our Challenge? PREDICTABILITY

## **Products**



Standard and
Special Cutting Tools



Clamping Fixtures



**Special Machines** 



Automation



Tool Repair and Regrind



3D Measurement

For more than four decades, every day, our team has transformed your challenges into unique and differentiating solutions. We are a full-service tooling supplier, from development to manufacturing, assuring assistance and repair.

## Services



**CNC Programming** 



Tool Management



**Application Engineering** 



Tests, Prototyping and Simulation

# Our Focus? **YOU.**

Because each customer is unique, our technicians ensure the follow-up and optimization of the tools in your company, in order to increase tool life, reducing waste and minimizing costs.





# Our Goal? YOUR PRODUCTIVITY.



SERVICE	Standard Weeks (working days)		
PCD / CBN – Replacing cutters and/or resharpening HARD METAL – Resharpening and coating	New Tool	Recurrent Tool	
Special PCD Brazed	3 (15 Working Days)	<b>2</b> (10 Working Days)	
Special PCD Brazed Guide pads	4 (20 Working Days)	<b>3</b> (15 Working Days)	
Special PCD Cartridges/Inserts	4 (20 Working Days)	<b>3</b> (15 Working Days)	
Special Hard Metal	<b>2,6</b> (13 Working Days)	2 (10 Working Days)	
Quick Hard Metal	1 (5 Working Days		

## Notes:

Deliveries considered without coating, outsourcing or thermal treatments.

If the service needs for body milling or turning, should be considered as a new tool.



# Our Passion? **AGILITY.**

FMT has a tool collection service, which simplifies the management of shipments, making the process more convenient for the customer. With the latest technology and logistics team, we ensure that your orders are ready within the agreed delivery times.





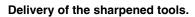


Pick-up service of tools in the customer's facilities to sharpening.



FMT Customer







# Our Guarantee? **QUALITY.**

Supported by the latest-generation equipment and methods, FMT ensures an efficient resharpening and repair service for special tools in hard metal and PCD. The competitiveness, proximity service and assistance, provided by highly qualified technicians are distinctive of our performance.



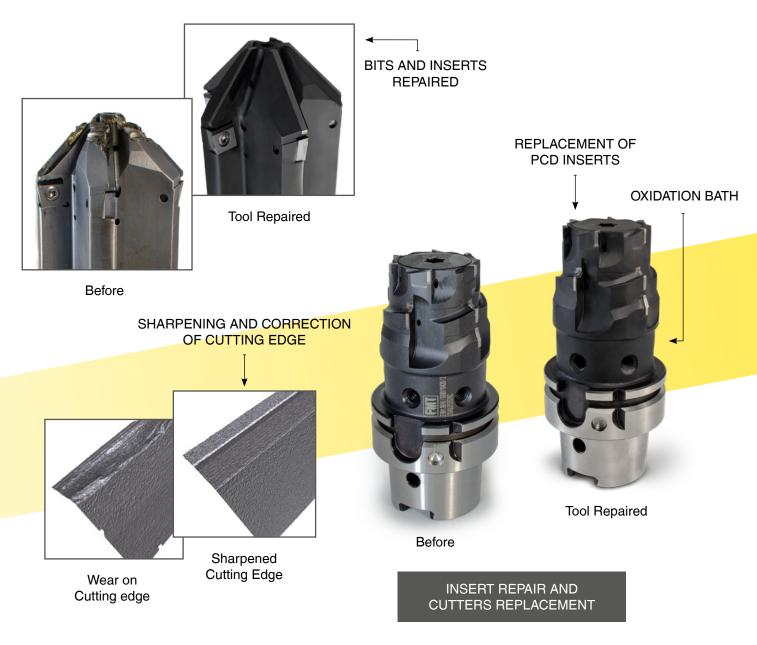
## We assure:

- **✓** The geometric tolerances of the tool.
- Measurement reports (when requested).
- ✓ New packaging and/or engravings (when requested).
- Cutters replacement (Hard Metal or PCD).
- ✓ Tool transformation (when requested).



# Tools Repair. LIKE NEW, AGAIN.

The tools rebuild, particularly those involving the replacement of cutters in PCD or hard metal, are another advantage of working with FMT. Whenever is necessary, we balance our tools or those produced by others manufacturers. In this way, the customer renews his product, with quality guarantee, avoiding the costs of buying a new tool.



## The repair restores the tool ensuring its original tolerances.



# More than Tools, **AN UNIQUE SERVICE.**

FMT invests in constant control at each stage of the process, in continuous training of its employees, and in high-tech equipments, assuring our customers a complete service, from standard to special, aplying the high quality standards that the market recognizes to the brand.





# Why can't this tool **BE RECONDITIONED?**

Whenever the tool is excessively damaged and doesn't allow its maximum efficiency, FMT notifies the customer about the reason for the refusal and provides a sales technician to help the customer to choose a new tool, in hard metal or PCD.



## GOODS RETURNED FORMS

CRITERIA TO REJECT A RECONDITIONING SERVICE







## Service Concept

## Manage. Control. Predict. Achieve.

## Service Strategy & Tactics

## Process & Workflow Transparency Software

## Manage.

With the software and vending machines extend the ability to take decisions and action in different places and 24h / 7 days a week. Implement best practices with results in mind.

## Control.

Take the assurance of actions with total transparency of the activities through reporting and process control. Easy user configuration and workplace

## Predict.

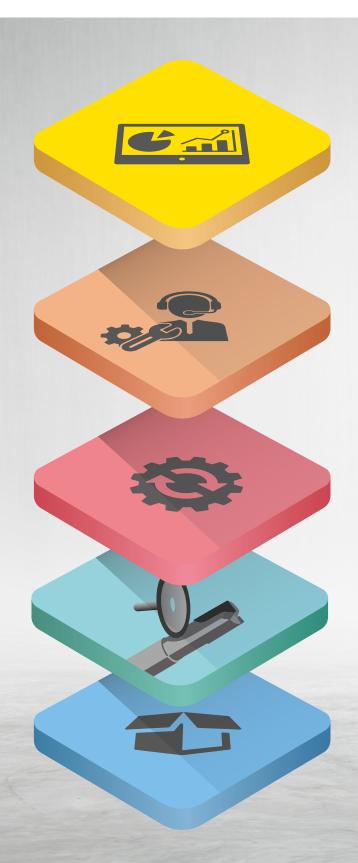
Antecipate what has to be done avoiding problems with your tooling in advance. One step ahead action is easy to undertake when you acess all valuable data.

## Achieve.

With FREZITE Tool Management you minimize the chances of not getting to the results you expect.



## **Tool Management Types**



## Type 5

- Cost Per Piece Agreement
- Tool Care
- Tools Preparation & Setup
- · Purchasing Integration
- Optimization and Applications Engineering
- Full Customer Support

## Type 4

- Cost Per Use Agreement
- Tool Care
- Tools Preparation & Setup
- Purchasing Integration
- Optimization and Applications Engineering
- Full Customer Support

## Type 3

- Automatic Control Systems
- Integration of Vending Machines

## Type 2

• Repair and Resharp Service

## Type 1

- Purchasing
- Logistics
- Warehouse
- Consignment Stock



## Type 4 & 5 Workflow cycle



## on Manufacturing



Tool presetter and measuring machine





Tool Reconditioning



## Software Connections to V

## **Standard**

- Stand Alone.
- Vending Machine Individually Connected.
- Standard Software.
- Extra Software Modules at choice.

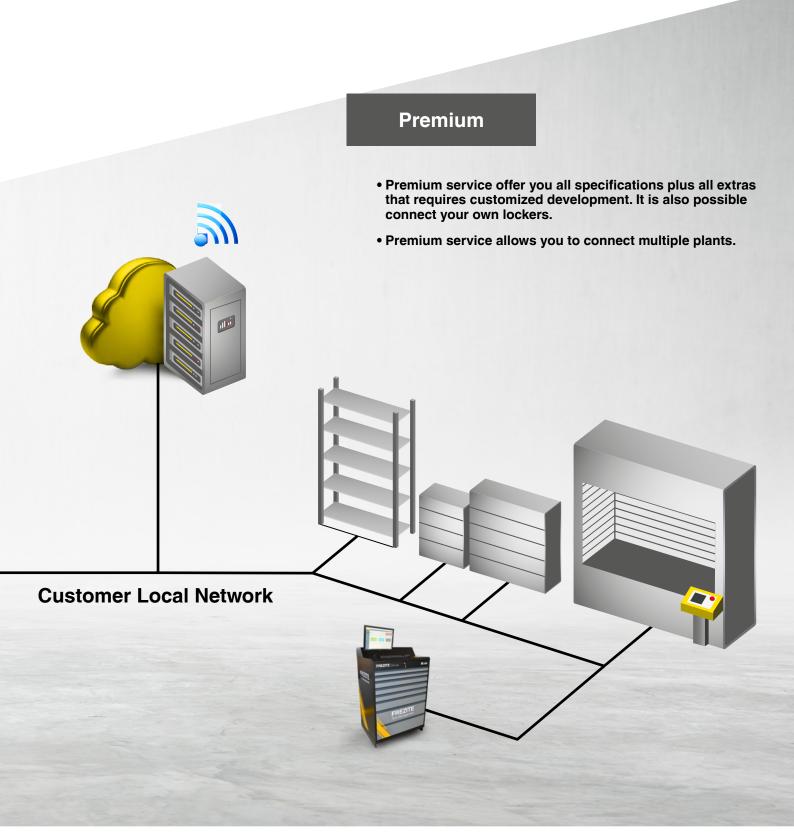
# FREZITE COLD | FREZITE FOR MANAGEMENT

## **Professional**

- Vending Machines Connected to a Local Network.
- Customer Vending Machines Network.
- Professional Software.
- Extra Software Modules at choice.



## ending Machines & Server



## Software Features

## SERVICE TYPES

## **Operations Management**



## **PREMIUM**

Customized management of the tooling area.

## **PROFESSIONAL**

Automatic and network management of the tooling area.

#### **STANDARD**

Automatic storage of the tools.

#### **Client Factory Operations**

- Mapping of the Production Process Steps
- Assigning of Product List per Step
- · Assigning of Vending Cabinet per Step(s)
- Assigning of Hierarchical Management Client Staff
- Assigning of Client Cost Centers

#### **Vending Operations**

• Wizard Interface linked to the Factory Operations

Check-out of Products

Check-in of Products

Refill of Compartments

Linked Check-out/Check-in Vending

**Products** 

Maximum Check-out rules

Mapped location of Vending Cabinets

Alternative location suggestion on unavailable

Optional Checklists

Mandatory Fields

Optional Fields

Store Wizard Step Information

Product Life Time Tracking

**Usage Information Tracked** 

Linking to Factory Operation

Checked in Product Status (through Checklist)

#### Workbench

- Product Evaluation
- Product Status Sorting
- Multiple Sub-Divisions

#### **Refill Preparation**

- Predetermined Stock Levels
- Vending Machine Live status
- Product Storage Locations
- Tablet Interface

## **Stock Management**



#### **Storage Units**

- Vending Storage
- Local Storage
- Remote Storage
- Client Storage
- Transport Storage
- Refill Trolley
- Waste Storage

#### **Products**

Reference Products

Components

Consumables

Composite Products

Physical Products

Individual Components

Individual Consumables

**Grouped Consumables** 

Individual Composite Products

- Usage information replicated to Constituent Parts

Complete / Incomplete Status

### **Stock Tracking**

- Vending Purchase
- Automatic Alerts

Vending Minimum Stock

Local Minimum Stock

- Between Local and Remote Storages
- Between Provider and Client
- Vending Preparation
- Transfer to Waste
- Transfer for Repair
- Transfer for Sharpening

#### **Product Management**

- Product Creation
- Product Assembly
- Product Request Order
- Product Transferal
- ERP Connectivity

## **Users Management**



#### **User Types**

- Credentials User
- RFID Card User
- Credentials + RFID Card Use
- No Credentials User

#### **User Profiles**

- Administrator
- Provider Manage
- Provider Operator
- Client Manager
- Client Operator
- Client Viewer

#### Organization

- Provider Organization
- Client Organization
- Possibility for Other Organizations
- Organization Locations

Location Information

Custom Up-loadable Maps

## Reports



#### **Reporting Services Reports**

- Self-Hosted in this Application
- Hosted in Reporting Services Server

#### **Customizable Reports**

## **PREMIUM**

- Connections to ERP
- Customizable Reports
- Multiple Sites

**Multi Customer** 

**Multi Location** 

Logistics



## Vending Ca





Cabinet

700 x 700

Height (with drawers)	Order Number
750	9992.0082
800	9992.0083
850	9992.0084
900	9992.0085
950	9992.0086
1000	9992.0087
1050	9992.0088
1100	9992.0089
1150	9992.0090
1200	9992.0091
1250	9992.0092
1300	9992.0093
1350	9992.0094
1400	9992.0095
1450	9992.0096
1500	9992.0097

## > MADE YOUR WAY

Our vending machines is a flexible system that allows you customize the locker under your request.



Contact FREZITE for our cabinet chooses.

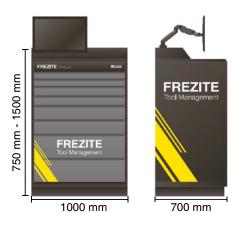


700 X 700 x 75  75 6 9 54 9992.0050  75 6 8 48 9992.0051  75 6 7 42 9992.0052  75 6 6 6 36 9992.0053  75 4 9 36 9992.0054  75 6 3 18 9992.0055  75 6 3 18 9992.0055  75 6 3 18 9992.0056  75 2 9 18 9992.0057  75 4 4 16 9992.0058  75 6 2 12 9992.0059  75 1 6 6 9992.0060  75 1 1 - 9992.0060  75 1 1 - 9992.0062   700 X 700 x 100  100 6 6 3 3 18 9992.0064  100 6 3 18 9992.0065  100 4 4 16 9992.0065  100 4 4 16 9992.0066  100 6 3 18 9992.0066  100 6 4 24 9992.0066  100 6 3 18 9992.0066  100 6 4 94 9992.0066  100 6 9 9092.0066  100 1 4 4 9992.0066  100 1 4 9 992.0066  100 1 4 9 992.0069  100 1 1 - 9992.0069  100 1 1 - 9992.0069  150 2 4 8 9992.0069  150 2 4 8 9992.0070  700 X 700 x 150  150 1 2 2 9992.0070  150 1 1 - 9992.0076  150 1 2 2 9992.0076  250 2 4 8 9992.0076  250 2 4 8 9992.0076  250 2 4 8 9992.0077  250 2 9 992.0076  250 2 4 9992.0079  250 1 4 4 9992.0079  250 1 2 2 9992.0080	Height	Rows	Columns	Compartments	Order Number	
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75	75	6	2	12	9992.0059	
75	75	2	4	8	9992.0060	
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	250	1	4	4	9992.0079	
250 1 1 - 9992.0081	250	1	2	2	9992.0080	
	250	1	1	-	9992.0081	

## binet Sizes



Height	Rows	Columns	Compartments	Order Number
		1000 X	700 x 75	
75	9	9	81	9992.0031
75	9	8	72	9992.0032
75	9	7	63	9992.0033
75	9	6	54	9992.0034
75	6	9	54	9992.0035
75	9	4	36	9992.0036
75	9	3	27	9992.0037
75	3	9	27	9992.0017
75	6	4	24	9992.0038
75	9	2	18	9992.0039
75	3	4	12	9992.0040
75	1	1	Vazio	9992.0003
		1000 X 7	700 x 100	
100	9	6	54	9992.0041
100	9	4	36	9992.0042
100	4	9	36	9992.0012
100	9	3	27	9992.0021
100	3	9	27	9992.0043
100	6	3	18	9992.0044
100	3	4	12	9992.0013
100	1	1	-	9992.0005
1000 X 700 x 150				
150	6	4	24	9992.0045
150	3	4	12	9992.0022
150	3	2	6	9992.0014
150	1	4	4	9992.0046
150	1	2	2	9992.0047
150	1	1	-	9992.0004
		1000 X 7	700 x 250	
250	3	4	12	9992.0023
250	3	2	6	9992.0026
250	1	4	4	9992.0048
250	1	3	3	9992.0015
250	1	2	2	9992.0049
250	1	1	-	9992.0016



## Cabinet 1000 x 700

Drawer Height	Order Number
1000	x 700
750	9992.0098
800	9992.0099
850	9992.0100
900	9992.0101
950	9992.0102
1000	9992.0001
1050	9992.0103
1100	9992.0010
1150	9992.0104
1200	9992.0105
1250	9992.0106
1300	9992.0107
1350	9992.0108
1400	9992.0109
1450	9992.0110
1500	9992.0111

Тор
9992.0112
9992.0113
9992.0114
9992.0115
9992.0024
9992.0020
9992.0002
9992.0116

L	PC & Screen
	9992.0011
	9992.0117

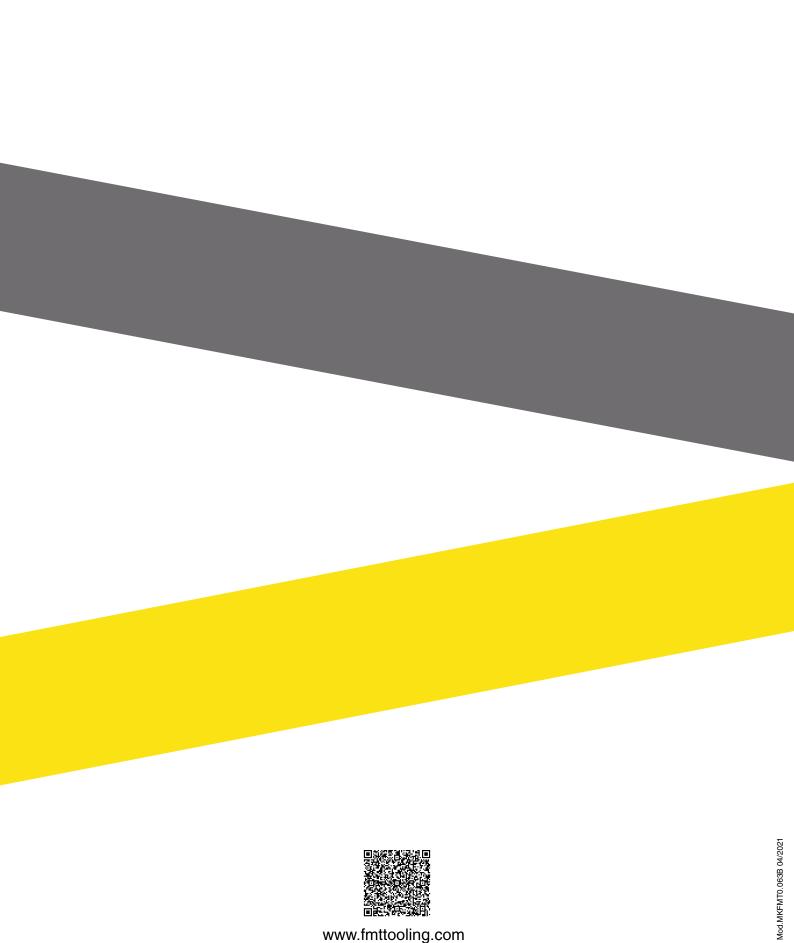


## **COATING TYPES**

Check in the table below the coating types that FMT can provide you.

Coating Ref.	Material	Coating Thickness (μm)	Overthickness Ø to be consider in DP (μm)	Hardness (Gpa   HV 0,05)	Coe
REV1	W C/C	3±1	4	12-15   1400	
REV2	TiAIN	5±2	8	33±3   3300	
REV3	AlCrN	4±2	6	36±3   3700	
REV4	A-C:H	3±1	6	15-25   2200	
REV5	AITIN	5±2	10	35±3   3500	
REV6	С	6	12	80-100   10000	
REV7	TIAIN / TISIN	3±1	6	3800	
REV8	TiAIN	4±1.3	8	3500	
REV9	AITIN	3±1	6	3700	
REV10	TiAIN	3±1	4	3500	
REV11	TiAIN+C	3±1	4	3300	
REV12	TiN	3±1	4	2300	
REV13	С	9±1	16	10000	
REV14	С	7±1	12	10000	
REV15	С	9±1	16	10000	

fficient of Friction	Process T. ReV. (C°)	Work T. Max. (C°)	Coating Technology	Colour
0.1 to 0.2	< 250	300	PVD Sputtering	
0.30 to 0.35	480	900	PVD Sputtering	
0.35	< 500	1100	PVD Sputtering	
0.1 to 0.2	250	300	PVD Sputtering	
0.35	< 500	1000	PVD Sputtering	
	< 900	600	CVD diamond	
		1000	PVD Sputtering	
		1000	PVD Sputtering	
0.3 to 0.5	450	1000	PVD Sputtering	
		1000	PVD Sputtering	
		900	PVD Sputtering	
		700	CVD Diamond	
		650	CVD Diamond	
		650	CVD Diamond	
		650	CVD Diamond	



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