



HARTNER

Precision Cutting Tools

TM vending machines

Individual solutions
for efficient tool management
and storage

2013





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Precision Cutting Tools

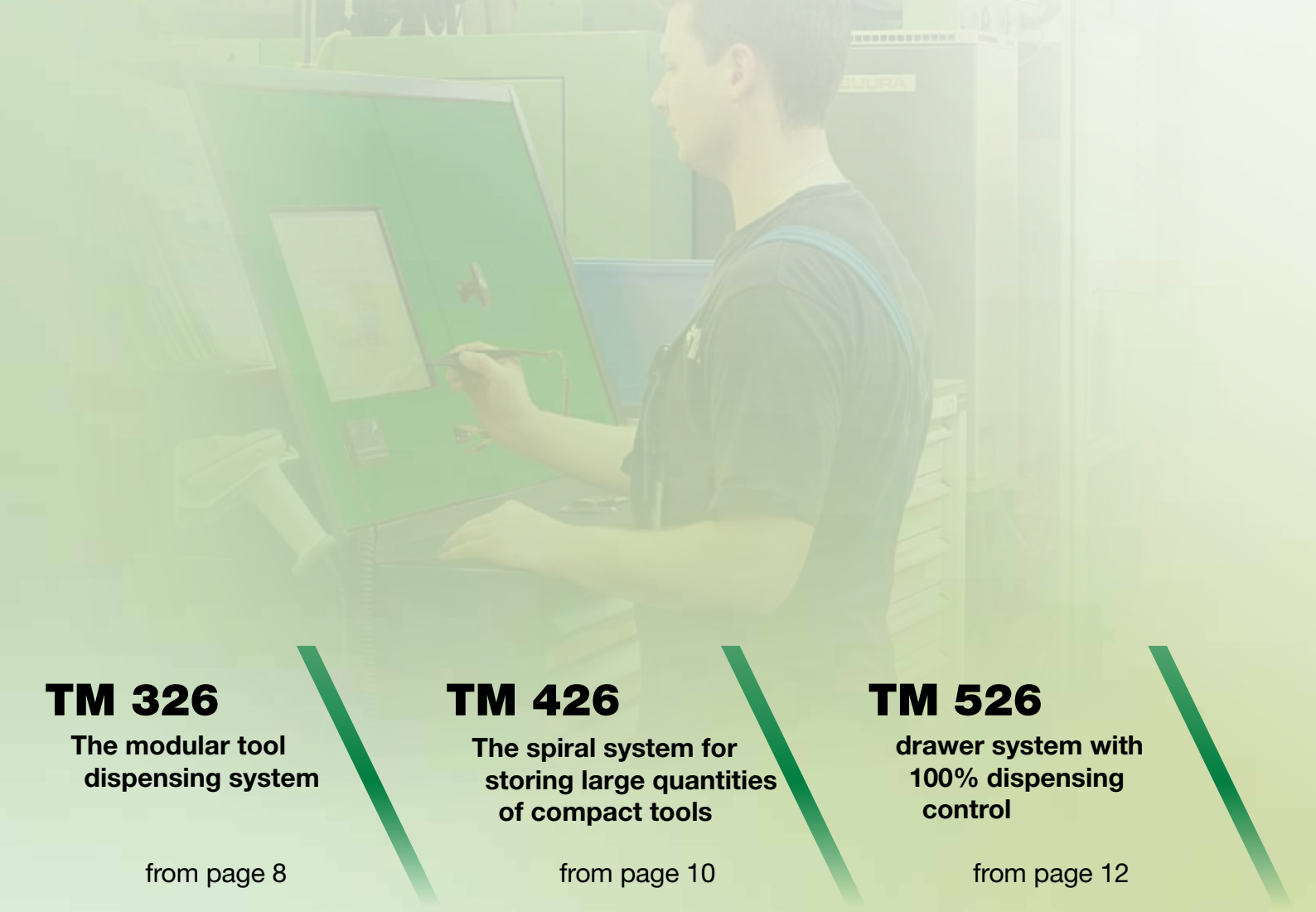
INCREASE IN PERFORMANCE THANKS TO OPTIMISED ADMINISTRATION PROCESSES

“Hartner tool dispensing systems increase the economic and working efficiency in any size of company”

Our customers acknowledge:

- 10% reduction in tooling costs
- 1 hour less administration expense per day
- 14 % less machine down time
- 24 hour controlled tool availability





TM 326

The modular tool dispensing system

from page 8

TM 426

The spiral system for storing large quantities of compact tools

from page 10

TM 526

drawer system with 100% dispensing control

from page 12



HARTNER TOOL DISPENSING SYSTEMS

Hartner's TM 326, TM 426 and TM 526 tool dispensing systems optimise your tool management and storage. Gain increased security of your tool stock and transparency in your tool management!



The basis of modern tool management

Flexible combinations – Hartner tool dispensing systems

The three tool dispensing systems TM 326, TM 426 and TM 526 offer flexible possibilities for made-to-measure tool storage. According to requirements and size of company there is a choice of various degrees of automation. Individual dispensing possibilities such as drawers or spiral systems are available options. The Hartner tool dispensing system can be individually adapted to the requirements of the customer and the need of the business. Subsequently, the customer utilises the possibilities optimally! This is also confirmed by numerous satisfied customers.

Detailed information on individual Hartner tool dispensing systems can be found from page 8 of this brochure.





The basis of modern tool management

Intelligent solutions for any size of company

On request Hartner TM tool dispensing systems can send regular reports to the material management, purchasing and controlling departments as well as to the management and the tool management.

Hartner's TM software structured design fully automates the ordering procedure as well as delivery planning and re-grind services. This guarantees an optimal and on-time supply of all production relevant material and tools for production.

The software can be linked to all material management and IT systems. Furthermore, there is the possibility of controlling and managing third party systems such as paternoster or lift systems. By integrating the software in the existing infrastructure access is also possible at any time by the planning, manufacturing and purchasing departments.



Reporting

- goods management
- purchasing dept.
- management
- controlling
- tool management



Automation of procurement processes

- order suggestions
- delivery service
- re-grind service



Data provision

- planning dept.
- manufacturing dept.
- purchasing dept.



Data exchange

- goods management systems
- IT systems
- paternoster/lift systems



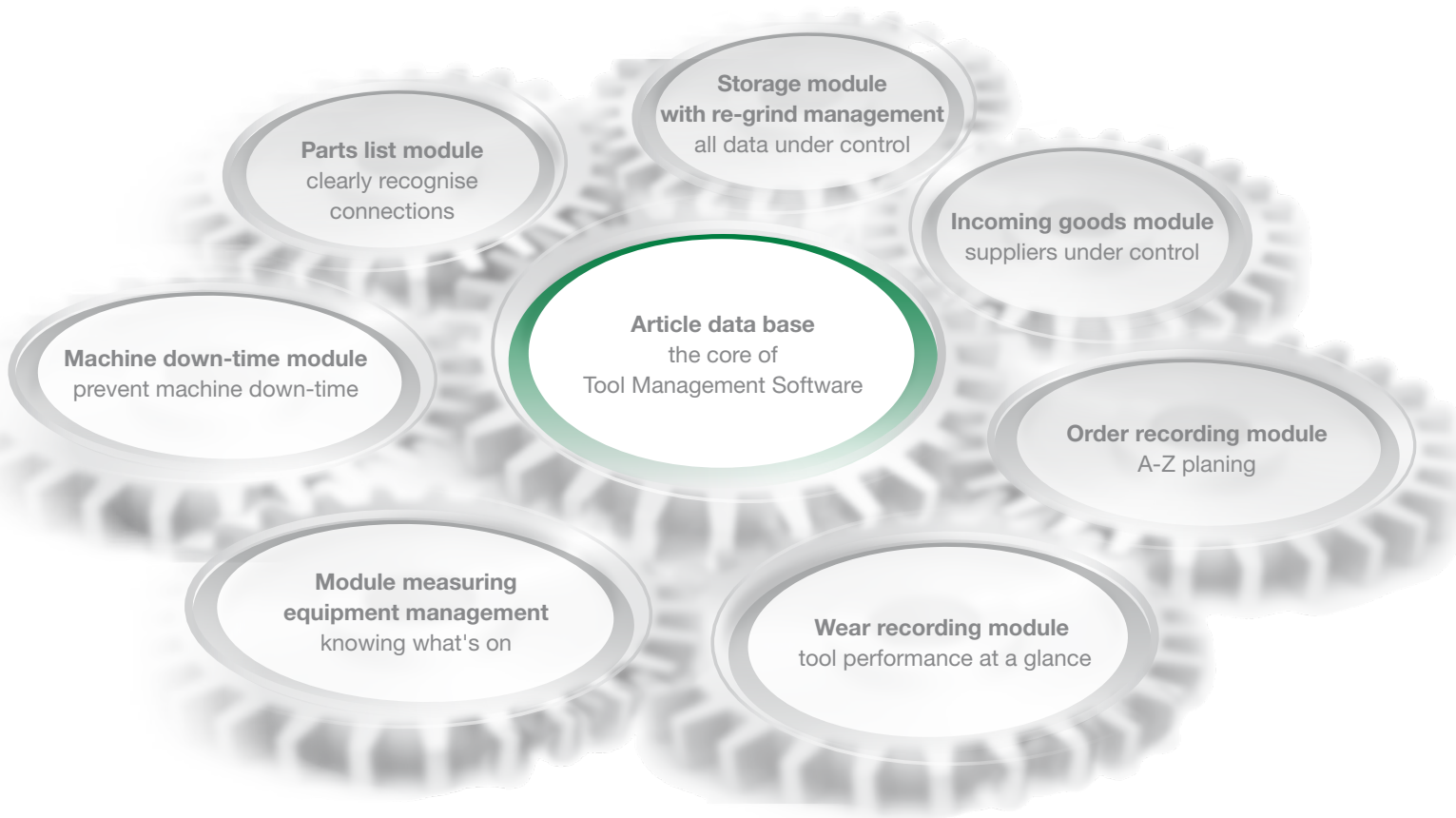
Built-in intelligence – Hartner Tool Management Software

All Hartner tool dispensing systems are controlled by the user-friendly Tool Management Software. It allows a quick, simple and intuitive operation via the integrated touch screen or an external reading device. At the same time it documents all relevant stock movement data, triggers ordering suggestions and enables evaluation and analysis of various criteria. This comprehensive and detailed reporting offers the highest possible transparency of your tool stock plus consumption and also accurate cost allocation.

In addition, interfaces enable linking to the most diverse material management systems as well as online connection to your suppliers through automated ordering processes.

Customer advantages at a glance

- process traceability
- considerable time saving in tool management
- accurate consumption analyses to various criteria as, for example, tool consumption per component, machine or manufacturing area
- central data base
- nom./act. cost and time comparisons at the press of the button
- form print-out with barcode individually adapted to your requirements
- management of drawings
- supplier evaluation
- management of measuring equipment
- individual solutions can be programmed according to customer requirements
- problem-free connection to SAP, TDM, Coscom, IBM, Baan, Infor, Abas etc. via appropriate interfaces





Built-in intelligence – Hartner Tool Management Software

Stk	Bezeichnung	Grp	Verf. in Gruppen	Grp	Bezeichnung	Grp	Material	Grp	Material	Grp	Material	Grp	Material	Grp	Material	Grp	Material
1	ALUMINIUM-BOHRER	OP10	OP10 T01	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T02	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T03	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T04	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T05	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T06	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T07	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T08	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T09	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T10	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T11	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T12	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T13	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T14	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T15	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T16	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T17	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T18	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T19	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000
2000	ALUMINIUM-BOHRER	OP10	OP10 T20	PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000	0	1000	0	1000	0	1000	0	1000	0	1000

Bill of materials management for the production of new and for maintaining existing tool stocklists.

Line	Grp	Material	Komponente	Bezeichnung	Menge	Bestand
KURBELWELLE						
KW OP10		OP10 T01				
			PT3L00000	Kohlenstaub	1	2000
		OP10 T02				
			PT3L00000	Kohlenstaub	1	2000
KW OP20		OP20 T01				
			PT3L00000	Kohlenstaub	1	2000
		OP20 T02				
			PT3L00000	Kohlenstaub	1	2000
		OP20 T03				
			PT3L00000	Kohlenstaub	1	2000

Usage verification regarding the application of tools.

Line	Grp	Material	Komponente	Bezeichnung	Menge	Bestand
KURBELWELLE						
KW OP10		OP10 T01				
			PT3L00000	Hydro-Verspannbohrer HSK A63	1	2000
			PT3L00000	Kohlenstaub	1	2000
			PT3L00000	Dämmung	1	2000
			ZSS 16,2	HSS-Spannbohrer DIN 1471	1	2000
OP10 T02						
			CCMT09T304	CCMT 09 T30404V1700	10	2000
			PT3L00000	Paraspannbohrer Dia. 123	1	2000
			PT3L00000	Dämmung	1	2000
			PT4L00000	Schraube M3x6	10	2000

Stocklist print-out, display of required data according to customer specifications.

Stk	Bezeichnung	Grp	Material	Bezeichnung	Menge	Bestand
01	DECKEL			ZYLINDERBLOCK		
02	WELLE			ZYLINDERKOPF		
				MAZAK		

ID HELLER ZYLINDERKOPF

1	2	3	4	5	6	7	8	9	0
A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	.	/	-	=

Dispensed tools can be allocated to different cost groups.

Artikelwahl - Artikel auswählen

Artikel	Bestand	Bezeichnung	Größe
1-1700-0-000	10	ALUMINIUM-BOHRER	10
1-1700-0-001	10	ALUMINIUM-BOHRER	10
1-1700-0-002	10	ALUMINIUM-BOHRER	10
1-1700-0-003	10	ALUMINIUM-BOHRER	10
1-1700-0-004	10	ALUMINIUM-BOHRER	10
1-1700-0-005	10	ALUMINIUM-BOHRER	10
1-1700-0-006	10	ALUMINIUM-BOHRER	10
1-1700-0-007	10	ALUMINIUM-BOHRER	10
1-1700-0-008	10	ALUMINIUM-BOHRER	10
1-1700-0-009	10	ALUMINIUM-BOHRER	10
1-1700-0-010	10	ALUMINIUM-BOHRER	10

Tool selection according to different criteria, i. e. article no., description or size.



ABC-analysis for a detailed cost distribution.



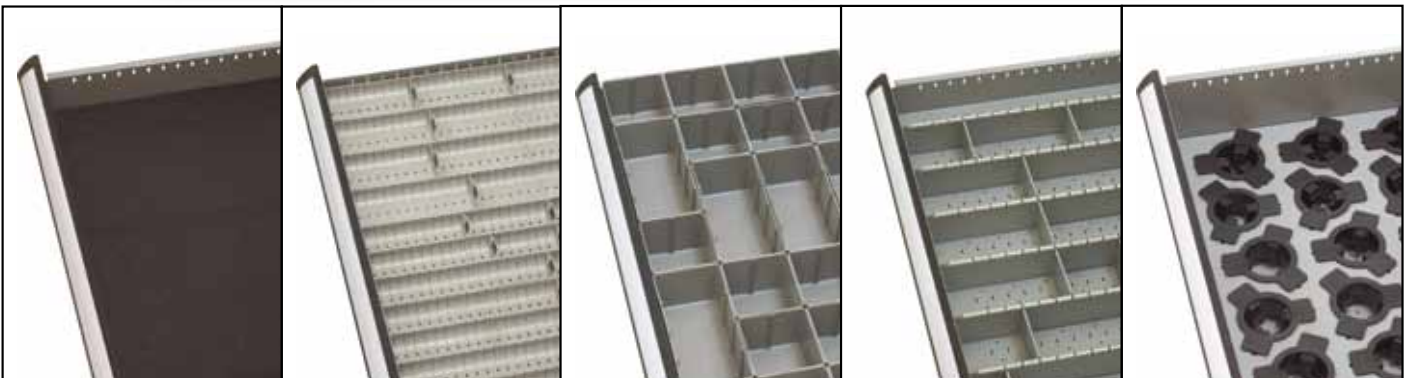
TM 326 – modular tool dispensing system

Manual tool withdrawal, electronically controlled

The Hartner tool dispensing system TM 326 is an electronically controlled, modular extendable system with all functionalities of the Hartner Tool Management Software. Electronically locked drawers enable controlled withdrawal. The height and compartment material of the drawers can be adapted to customer requirements.

Special features:

- flexible arrangement of drawer height and partitioning possibilities
- extension possible with spiral module for single dispensed items
- open, multi-supplier capable system
- secure storage and management of tools, measuring and inspection equipment, assembly tools or consumables
- future expansion with additional extension units
- control functions can also be utilised for further storage systems (TM 426, TM 526)





TM 326 – Designs and dimensions

Base unit

- electronically locking dispensing system in strong steel construction
- manually actuated fully extendable drawers (load bearing capacity max. 200 kg per drawer)
- individual drawer heights
- individual partitioning material for drawers
- Hartner Tool Management Software
- PC with Microsoft operating system
- scanner

Extension unit

- electronically locking dispensing system in strong steel construction
- manually actuated fully extendable drawers (load bearing capacity max. 200 kg per drawer)
- individual drawer heights
- individual partitioning material for drawers

Standard drawers

Internal dimension: 600 x 900 mm
 Heights: 75 mm / 100 mm / 125 mm / 150 mm
 200 mm / 250 mm / 300 mm / 400 mm

Maximum load per drawer: 20 kg

Partitioning material:

- anti-slip mat
- Mulden-sets
- insert boxes
- partition walls
- various tool holder systems

Drawers with spiral insert

- drawer height: 150 mm
- spiral insert for maximum 10 spirals

Additional requirement:

- Withdrawal drawer with dispensing shaft and 3 manually lockable compartments, drawer height: 150 mm

Other

- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request

Drawers with electronically locking storage compartments

Heights: 75 / 100 / 125 / 150 / 200 / 250 mm

Flaps per drawer	int. dim. compartment		Flaps partitioning	
	width	depth	width	depth
48	109 mm	75 mm	8	x 6
40	109 mm	95 mm	8	x 5
32	109 mm	125 mm	8	x 4
36	146 mm	75 mm	6	x 6
24	146 mm	125 mm	6	x 4
18	146 mm	175 mm	6	x 3
24	220 mm	75 mm	4	x 6
20	220 mm	95 mm	4	x 5
16	220 mm	125 mm	4	x 4
12	440 mm	75 mm	2	x 6
8	440 mm	125 mm	2	x 4
4	440 mm	259 mm	2	x 2

Effective height of flap compartments = drawer height – 25 mm



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TM 426 – spiral system for rapidly rotating tools

Ample storage space, clearly managed

The Hartner Tool Management Dispensing System TM 426 is the perfect solution for storing large quantities of compact tools in the smallest of spaces. In the spiral systems of TM 426, tools are stored in an extremely space-saving manner and at the same time absolutely securely.

Selected tools are released via goods dispenser.

Special features:

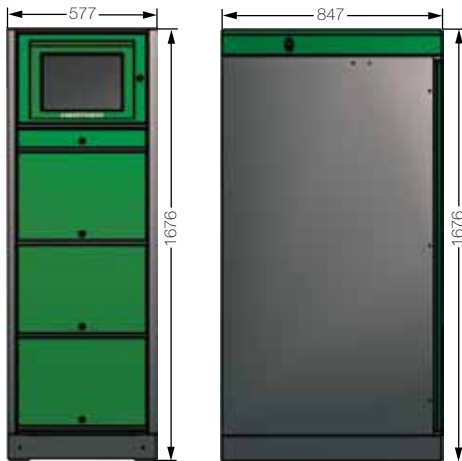
- flexible arrangement of various spiral sizes (depending on size of outer packaging)
- installation of lift systems for the collection of products possible (goods dispensed above)
- secure storage and management of compact tools
- future expansion with additional extension units
- control functions can also be used for further storage systems (TM 326, TM 526)





TM 426 – Designs and dimensions

Base unit



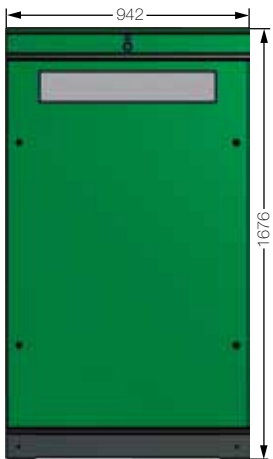
- 3 manual storage drawers
- Hartner Tool Management Software
- PC with Microsoft operating system
- Scanner

Extension unit



- 6 to 8 spiral levels with 10 spiral places each
- max. load bearing capacity 90 kg per spiral level
- goods dispensed below

Extension unit with lift



- 6 to 8 spiral levels with 10 spiral places each
- max. load bearing capacity 90 kg per spiral level
- goods dispensed above
- integrated transport lift for tools

Spiral versions:

9 / 13 / 15 / 21 / 31

Partitioning material for optimal managing of products on request.

Other:

- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request



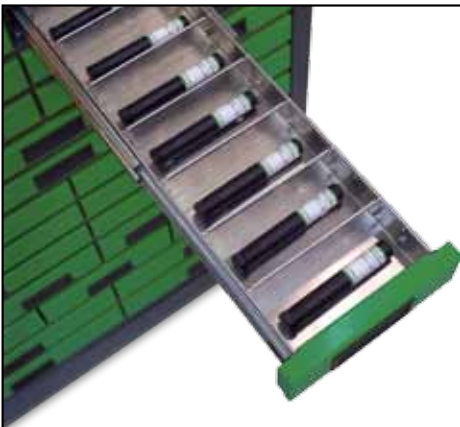
TM 526 – drawer system with 100% dispensing control

Access limited electronically, transparent tool movement

Hartner Tool Dispensing System TM 526 provides full control of tool withdrawal. TM 526 drawers open only so far in increments until the previously selected quantity of tools can be withdrawn. Booking of withdrawals is cost centre related for maximum transparency.

Special features:

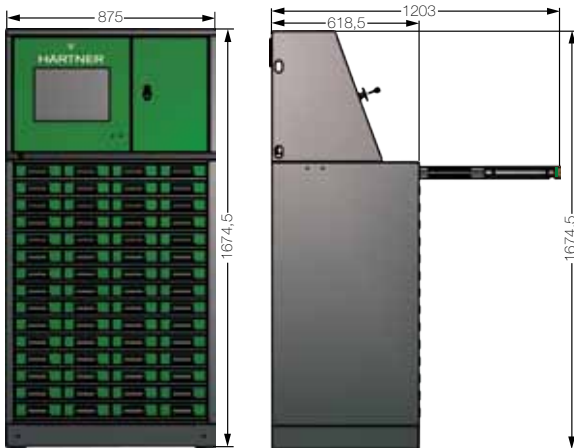
- flexible arrangement of drawer heights and widths
- open, multi-supplier capable system
- secure storage and management of tools, measuring and inspection equipment, assembly tools or consumables
- at any time expandable with additional extension units
- control functions also usable for further storage systems (TM 326, TM 426)





TM 526 – Designs and dimensions

Base unit



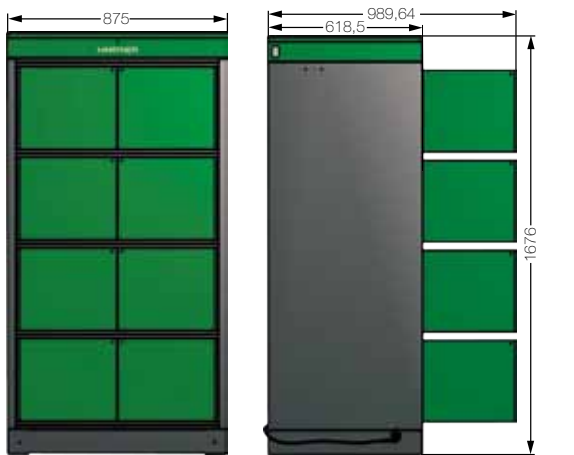
- electronically locking dispensing system in strong steel construction
- manually actuated drawers with electronically limited pull-out (load bearing capacity max. 20 kg per drawer)
- individual drawer heights and widths
- Hartner Tool Management Software
- PC with Microsoft operating system
- scanner

Extension unit with drawers



- electronically locking dispensing system in strong steel construction
- manually actuated drawers with electronically limited pull-out (load bearing capacity max. 20 kg per drawer)
- two different designs 1300 mm and 1500 mm height
- individual drawer heights and widths

Extension unit with doors



- electronically locking dispensing system in strong steel construction
- electronically locking doors for large volume products
- two compartment sizes
150 x 300 x 550 mm (W x H x D)
300 x 300 x 550 mm (W x H x D)

Drawer options:

Drawer lay-out is variable and adapted to customer requirements

Heights: 42 / 60 / 113 / 186 / 258 mm

Widths: 110 mm / 5 drawers per level
150 mm / 4 drawers per level
215 mm / 3 drawers per level
350 mm / 2 drawers per level

Other:

- lift truck base with removable front cover
- operating voltage: 230 V / 50 Hz
- special colours to RAL standard on request



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TM Special Cabinets

TM wing door cabinet

Wing door cabinet with electronically controlled lock



wing door with viewing window (4/5 shelves)

height: 1850 mm
width: 1100 mm
depth: 695 mm



wing door closed (4/5 shelves)

height: 1850 mm
width: 1100 mm
depth: 695 mm

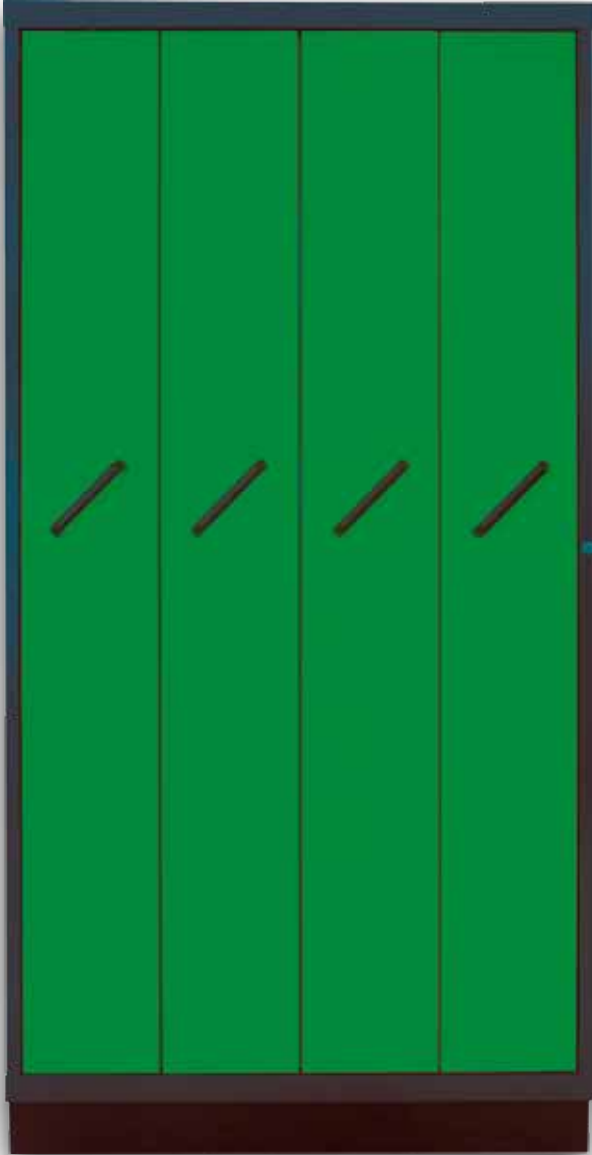


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TM Special Cabinets

TM vertical drawer

Vertical drawers with electronically controlled drawers



Optional features

- 4 vertical drawers
- perforated wall
- installation of trays for the storage of tool holders

height: 1850 mm

width: 1100 mm

depth: 695 mm

TM lockable compartments cabinet

Lockable compartments cabinet with electronically controlled lockers

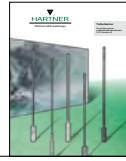


Optional features on request

Our programme:



FU 500/FN500



Gun Drills



INOX Drills



Multiplex



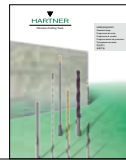
Micro Precision Drills



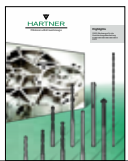
Multiplex HPC



TS-Drills



Standard Range



Highlights



TM Vending Machines



Solid Carbide
High Performance Milling Cutters

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