ENGLISH VERSION





Quality, reliability and good service are what TAPMATIC stands for





Allan, Eric, and Andrew Johnson



Tapmatic Corporation is an ISO 9001 certified company.

Tapmatic Celebrates 70 years of Innovation!

Tapmatic was founded in 1952 by my grandfather, Andrew Johnson and his sons Eric and Allan. My father Allan is a self-taught Engineer. He designed the original Tapmatic reversing tapping attachment and a wide range of other products including drill speeders, polishing lathes, and even the worlds most powerful spear gun. He has received more than 50 patents worldwide. After the passing of Eric and Andrew in 1968, Allan took over management of the company and the marketing of our products, introducing the Tapmatic brand to manufacturing companies all over the world. His tradition of innovation, and enthusiasm for developing friendships with people in other countries, continue to inspire us today. Allan retired from the day to day business in 1993, but thanks to him, we are proud to be an American exporter with half our sales to customers outside the United States. After 70 years in business we would like to take this chance to thank our friends, colleagues and customers for all your support over the years. We are very grateful to still be working together with you.

Mark Johnson President



We're not just tapping!

Now Tapmatic also offers a complete program of marking tools. Whether your application calls for dot peen marking, scribing, or stamping, our tools allow you to mark the work piece during the machining process. Mark it while you make it.

Tapmatic is pleased to introduce the new DeBurr-Z for deburring and chamfering operations on your CNC machine.



TAPMATIC Post Falls, USA





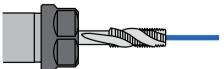
	Model	Page
NC tapping attachments horizontal CNC machining nuous production. Extended erchangeable shanks available. iven tools for CNC lathes.	Introduction RCT RDT Installation ASR, RSR	4-5 6-9 10 11 12
opping or rigid, or synchronized tap- chines with or without internal minimum quantity lubrication or Quick Change Spindles.	Introduction SFT (Internal Coolant) SFT (MQL)	13-15 16-20 21
ssion tap chucks machining centers, lathes s with controlled feed when not synchronized.	Introduction SM TA TIC	22 23 24 25
anual tapping attachments ve torque drive se with increased reverse illy operated drilling and s. reversing tapping attachment es with automatic feed	Introduction Drill-n-Tap RxII Rx X TC/DC SPD	26 27 28 29 30 31 32
ting r in machine marking. g tool.	Introduction TapWriter Scribe Writer MH	33 34-35 36-37 38-39
irring der for CNC deburring.	DeBurr-Z	40-43
lapters ories, compatible with the ng attachment or chuck.	P - positive drive TC - torque control TF - rubber flex	44-45 46-47 48
ries hments and chucks.	Rubber flex collets ER-GB Tap Collets ER Standard Collets Clamping nuts Sealing disks	48 49-50 51 52 52
ries of attachments and chucks on es.	Torque wrenches Torque Bars Clamping device CNC Shanks Arbors	53 53 53 54 55
	ER Clamping Safety Warranty Application Questionnaire	56 57 57 59



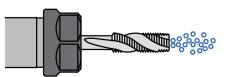
Thread production on machining centers with constant speed tapping



Two Through the Spindle Lubrication Options...



Standard balanced high pressure coolant through the spindle.



Minimum Quantity Lubrication, available on reauest.

CST Constant Speed Tapping relies on a compact tapping attachment to provide tap reversal. The machine spindle runs in one direction at the exact programmed speed and reversal occurs within the tapping attachment instantaneously upon machine retraction. This avoids the inevitable RPM fluctuations which occur with reversal of the machine spindle. Benefits include the following...

Reduced Cycle Time

By eliminating the machine spindles need to decelerate, stop, reverse and reaccelerate twice for each tapped hole the tapping time is dramatically reduced.

Longer Tap Life, Improved Thread Quality

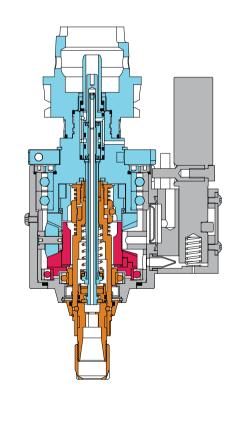
Constant speed tapping means that the tap is allowed to cut at the optimum speed continuously without deceleration at the bottom of the hole. The result is the longest tap life and improved thread quality.

Reduced Machine Spindle Wear

Tapping is the only operation requiring machine reversal. Using a Constant Speed Tapping Head eliminates this strain on the machine.

Reduced Energy Costs of up to 75 %

CST attachments reduce the energy costs required by machine spindle reversal by 75%.



Patented Design

TAPMATIC tapping attachments include a patented reversing ball drive. The ball drive allows for an exact and immediate change over into reverse once the desired thread depth is reached.

RCT · **RDT** Tapping Attachments

Advantages of tapping attachments with automatic reversal

General Information

Thread cutting is the only machining operation which requires a change of direction for the retraction of the tool. Reversing the spindle causes wear and is a costly procedure for any machine.

RCT and RDT tapping attachments

These reversing tapping attachments are specially designed for fast thread production on CNC machining centers. They eliminate reversal related machine wear and tear and reduce energy consumption. The patented ball drive with integrated planet gear for automatic reversal creates an almost constant cutting speed and eliminates the need to stop and reverse the machine spindle twice per tapped hole.

By using the RDT and RCT tapping attachments the cycle time is reduced and the life of the tap is increased. The IC-version allows coolant to flow directly through the tapping head.

Case history:

Original Application

Thread cutting on a horizontal machining center Fritz Werner TC800 with internal coolant.

Material

GG20

M6 standard thread HSS with TIN-AL coating

Thread

Tap

M6 standard thread, 9 mm deep, tapping drill ø 5.05 and 12.5 mm deep

Speed with machine reversal

Rigid tapping with spindle reversal, programmed speed 1,200 RPM

Original Results

Cycle time of 6 min 34 sec for 68 threads

Change with TAPMATIC

Using a TAPMATIC tapping attachment RDT-IC50 with ER16 spindle, programmed speed 1,800 RPM.

Improvement

Cycle time reduced to 3 min 22 sec for 68 threads, tap life tripled.

Advantage

Besides reducing the cycle time, tap life was considerably increased.

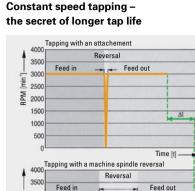
Results

reduction of cycle time by 50%

- increase of production capacity
- tap life tripled
- less machine wear (no spindle reversals)
- roughly 75% energy savings by constant speed tapping



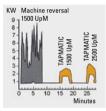




Time (t)

Energy cost saving of 75 %

Power consumption for 144 threads M8

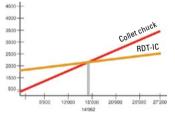


Not only is the shorter cycle time of importance, but also the constant spindle direction. By changing the direction (decelerating and accelerating) of the spindle, higher spikes of power are needed, which can be prevented by constant spindle rotation.

Total cost/year



Break Even Point



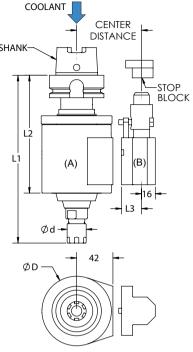
Conclusion

With the use of Tapmatic constant speed tapping, the cycle time is less, which increases productivity. Additionally, machine repair / downtime and energy costs are reduced and tap life is dramatically improved.

TAPINATIC

High speed tapping attachments with integral HSK shank and internal coolant system





Shank

Features and Advantages

- high speed self-reversing tapping for fastest cycle time
- rugged design for years of production, with little maintenance
- high pressure internal coolant system, 50 Bar
- simple installation and programming

How to Order

Please select the Tapping attachment (A) and stop arm (B) to fit your machine. Accessories like steel collets, sealing gaskets and stop blocks are not included. Please order these separately.

Tapmatic can provide a complete tool ready to fit your machine. Please simply provide the information shown on installation page 11, fill in the form on the back cover or contact us directly.

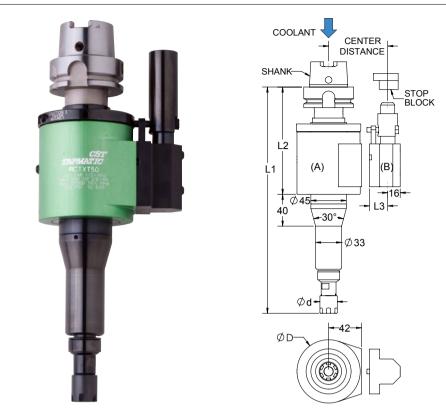
Weight kg D

Max. RPM

d

RCTXT50

Extended length tapping attachments with integral HSK shank and internal coolant system



(A) Tapping Attachment RCTXT50 HSK Shank, Internal Coolant System

Model	Capacity (steel)	Collets	Shank	Order code	L1	L2	Weight kg	D	d	Max. RPN
RCTXT50	M4.5-M12	ER16	HSK63A	0550H6316L287	287	136	4.0	80	22	1800
	#10-1/2"		HSK80A	0550H8016L292	292	141	4.4			
			HSK100A	0550H10016L294	294	143	5.3			
		ER20	HSK63A	0550H6320L297	297	136	4.0	80	28	1600
			HSK80A	0550H8020L302	302	141	4.4			
			HSK100A	0550H10020L304	304	143	5.3			
		ER16	HSK63A	0550H6316L360	360	136	4.2	80	22	1600
			HSK80A	0550H8016L365	365	141	4.6			
			HSK100A	0550H10016L367	367	143	5.5			
		ER20	HSK63A	0550H6320L370	370	136	4.2	80	28	1400
			HSK80A	0550H8020L375	375	141	4.6			
			HSK100A	0550H10020L377	377	143	5.5			

Notes: Special extended length tools are also available on request. These models are also available without internal coolant on request. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"

(B) Stop Arm Assembly





Model

(A) Tapping Attachment RCT HSK

Capacity

Collets

		(steel)									
	RCT50	M4.5-M12 #10-1/2"	ER16	HSK63A	0550H63161	194	136	3.5	80	22	2500
				HSK80A	0550H80161	199	141	3.9			
				HSK100A	0550H100161	201	143	4.8			
1			ER20	HSK63A	0550H63201	206	136	3.5	80	28	2300
				HSK80A	0550H80201	211	141	3.9			
				HSK100A	0550H100201	213	143	4.8			
	RCT85HS	CT85HS M10–M20 7/16"–3/4"	16"-3/4"	HSK63A	0585H6325	217	168	4.2	80*	42	1500
				HSK80A	0585H8025	222	173	4.6			
				HSK100A	0585H10025	224	175	5.5			
	RCT85HD	M12–M25 1/2"–1"		HSK63A	0585H6332	223	168	4.4	80*	50	1200
				HSK80A	0585H8032	228	173	4.8			
				HSK100A	0585H10032	230	175	5.7			
	RCT100	M18–M27 3/4"–1"	ER40	HSK63A	05100H6340	229	168	4.6	80*	63	800
				HSK80A	05100H8040	234	173	5.0			
				HSK100A	05100H10040	236	175	5.9			

Order code

L1

L2

Notes: These internal coolant tools come standard with sealing nuts. These models are also available without internal coolant upon request. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1

(B) Stop Arm Assembly

	Center Distance (42+L3)	Order code RCT50	Order code RCT85, 100	L3
	55	0550551	3985551	13
	65	0550651	3985651	23
100	80	0550801	3985801	38



with ø102mm across corners



Page 52

Steel Collets

6

Sealing Gaskets

90

 (\mathbf{i}) Installation

Pages 12



*Please note that size 85 and 100 tools have an 80mm square housing

Page 11







Features and Advantages

- high speed self-reversing tapping for fastest cycle time
- extended length for difficult to reach holes
- rugged design for years of production, with little maintenance
- RCTXT50 for high pressure internal coolant, 50 Bar
- simple installation and programming

How to Order

Please select the Tapping attachment (A), and stop arm (B) to fit your application. Accessories like steel collets, sealing gaskets and stop blocks are not included. Please order these separately.

Tapmatic can provide a complete tool ready to fit your machine. Please simply provide the information shown on installation page 11, fill in the form on the back cover or contact us directly.

Pages 49-51

Page 52

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Sealing Gaskets

Pages 12



7

CNC-Attachments

THAPINGATIC

High speed tapping attachments with modular straight shank and internal coolant system or without internal coolant, (W/O IC)

(C) COOLANT BLOCK SHANK CENTER DISTANCE 12 (A) 11 ØD

Features and Advantages

- high speed self-reversing tapping for fastest cycle time
- rugged design for years of production, with little maintenance
- high pressure internal coolant system, 50 Bar
- simple installation and programming

How to Order

Please select the Tapping attachment (A) and stop arm (B) and CAT, SK or BT shank (C) to fit your machine. Accessories like steel collets, sealing gaskets and stop blocks are not included. Please order these separately.

Tapmatic can provide a complete tool ready to fit your machine. Please simply provide the information shown on installation page 11, fill in the form on the back cover or contact us directly.

(A) Tapping Attachment RCT Cylindrical Shank with or without Internal Coolant (IC)

	Model	Capacity (steel)	Collets	Shank	Order code W IC	Order Code W/O IC	L1 W IC	L1 W/0 IC	L2	Weight kg	D	d	Max. RPM
ar and a second s		M4.5-M12 #10-1/2"	ER16	25 mm 1"	05502516 0550116	04502516 0450116	155	152	97	3.0	80	22	2500
			ER20	25 mm 1"	05502520 0550120	04502520 0450120	167	162	97		80	28	2300
68	RCT85HS	M10–M20 7/16"–3/4"	ER25	25 mm 1"	05852525 0585125	04852525 0485125	168	163	119	3.7	80*	42	1500
	RCT85HD	M12–M25 1/2″–1″	ER32	25 mm 1"	05852532 0585132	04852532 0485132	174	169	119	3.9	80*	50	1200
	RCT100	M18–M27 3/4"–1"	ER40	25 mm 1"	051002540 05100140	041002540 04100140	180	175	119	4.1	80*	63	800

Notes: These internal coolant tools come standard with sealing nuts. These models are also available without internal coolant upon request. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"

* Please note that size 85 and 100 tools have an 80mm square housing with ø102mm across corners.

Stop Block

Page 11

(B) Stop Arm Assembly



Page 52

60

Sealing Gaskets



Pages 49-51

Steel Collets





RCTXT50

Notes: These internal coolant tools come standard with sealing nuts. These models are also available without internal coolant upon request. Special extended length tools are also available on request. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"



Center Distance (42+L3)	Order code RCT50	L3
55	0550551	13
65	0550651	23
80	0550801	38



Extended length tapping attachments with modular straight shank and internal coolant system or without internal coolant, (W/O IC)



Model RCTXT50 M4.5-M12 ER16

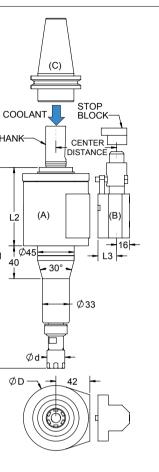


8

Interchangeable

Steep Taper





Features and Advantages

- high speed self-reversing tapping for fastest cycle time
- extended length for difficult to reach holes
- rugged design for years of production, with little maintenance
- RCTXT50 for high pressure internal coolant, 50 Bar
- simple installation and programming

How to Order

Please select the Tapping attachment (A), stop arm (B), shank (C) to fit your application. Accessories like steel collets, sealing gaskets and stop blocks are not included. Please order these separately.

Tapmatic can provide a complete tool ready to fit your machine. Please simply provide the information shown on installation page 11, fill in the form on the back cover or contact us directly.

(A) Tapping Attachment RCTXT50 Cylindrical Shank, with or without Internal Coolant System (IC)

Capacity (steel)	Collets	Shank	Order code W IC	Order code W/O IC	L1 W IC	L1 W/0 IC	L2	Weight kg	D	d	Max. RPM
M4.5-M12 #10-1/2"	ER16	25 mm 1″	05502516L248 0550116L248	04502516L245 0450116L245	248	245	97	3.5	80	22	1800
	ER20	25 mm 1"	05502520L258 0550120L258	04502520L253 0450120L253	258	253				28	1600
	ER16	25 mm 1"	05502516L321 0550116L321	04502516L318 0450116L318	321	318		3.7		22	1600
ER20	25 mm 1"	05502520L331 0550120L331	04502520L326 0450120L326	331	326				28	1400	



Stop Block Page 11



Pages 49-51

Page 52

Pages 12



Steel Collets

 $\mathbf{O}\mathbf{O}$ Sealing Gaskets

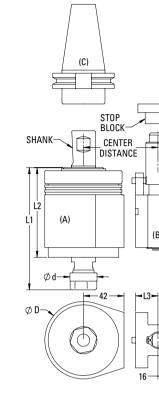
CNC-Attachments



Installation of Tapping Attachments

High speed tapping attachments with modular straight shank, without internal coolant system

CST TAPMATIC



Features and Advantages

- high speed self-reversing tapping for fastest cycle time
- rugged design for years of production, with little maintenance
- simple installation and programming large capacity

How to Order

Please select the Tapping attachment (A), stop arm (B) and CAT, SK, or BT shank (C), to fit your machine. Accessories like steel collets, sealing gaskets and stop blocks are not included. Please order these separately.

Tapmatic can provide a complete tool ready to fit your machine. Please simply provide the information shown on installation page 11, fill in the form on the back cover or contact us directly.



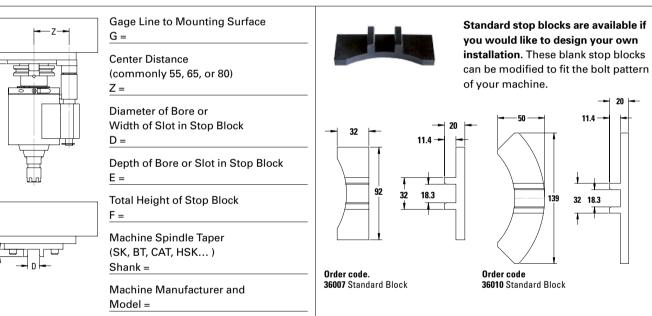
Tapmatic can supply a tapping attachment ready to fit your machining center to easily make automatic tool changes.

Tapmatic maintains a large data base of machining center installations Please simply let us know the machine manufacturer, make and model and we may already have the installation information available to provide a tool ready to run on your machine.

My machine already has a stop block If your machine already has an anti-rotation stop block installed, please let us know the dimensions shown in the drawing below. We can prepare a tool to go with your existing stop block.

My machine does not have a stop block If your machine does not have a stop block already installed, we would be pleased to prepare one for you. Please simply fill in the form on the inside back cover or download it from our website under "Customer Service", and forward us the information. We will be pleased to submit an offer to you.

Preferred Installation



(A) Tapping Attachment RDT Cylindrical Shank

	Model	Capacity (steel)	Collets	Shank	Order code	L1	L2	Weight kg	D	d	Max. RPM
	RDT15 M1–M3	M1-M3	ER8	25 mm	3915258HD	97	79	1.7	57	12	5000
HE .		#0—#6		1″	391518HD						
	RDT25 M2–M6 #4–1/4"	M2-M6	ER11	25 mm	39252511	106	79	1.7	57	19	4000
42		#4-1/4"		1"	3925111						
		M4.5-M12 ER16 #10-1/2"	ER16	25 mm	39502516	126	93	3.7	80	28	2000
				1″	3950116						

Notes: When using Roll Form Taps the tool's capacity must be reduced 25 %.

To hold larger taps with RDT50 ER16, use standard collet 20953 and separate square drives packaged with tool. All dimensions are shown in mm. 25.4mm = 1"



Center Distance (42+L3)	Order code RDT15 RDT25	Order code RDT50	L3
55	3925551	3950551	13
65	3925651	3950651	23
80	3925801	3950801	38



Stop Block Page 11



Interchangeable

Steep Taper



Pages 49-51



(i) Installation

Pages 12

Steel Collets



RDT and RCT tapping attachments eliminate the need for the machine spindle to reverse by automatically reversing the taps rotation when the machine retracts. For the automatic reversal to function a stop arm is needed to prevent the housing of the tapping attachment from rotating. Our stop arm locking mechanism allows the tool

CNC-Attachments



Features and Advantages

steel collets ER-GB (ER)

fastest cycle time

Iower energy cost

improves tap life

CNC lathes

high speed self reversing tapping for

modular base adaptors VDI and BMT, to

fit all turrets, provided by EWS

Developed in cooperation with EWS, a world leader in driven tooling for

SynchroFlex[®]II

Tap holders for synchronized tapping cycles



Radial Tapping Attachment RSR

Model	Order code	Capacity (steel)	Collets ER	Max. RPM (I - 0 = 1666)
RSR50	37014E1	M4.5–M12	ER16	2500 In-1665 Out

Axial Tapping Attachment ASR

Model	Order code	Capacity (steel)	Collets ER	Max. RPM
ASR50	32161E	M4.5–M12	ER16	2500

Note: Steel collets and VDI shank have to be ordered separately. The VDI shank is manufactured specifically for your lathe. When using Roll Form Taps the tools capacity must be reduced by 25 %. Dimensions for the attachments available on request.

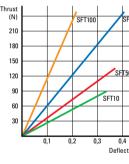
Tapping attachments with VDI shank for CNC lathes

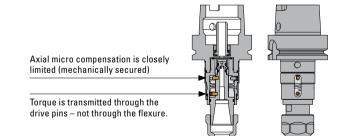
Model BSB

Model ASR

SynchroFlex[®] –

Force vs. Deflection Rates Unlike competitors that employ elastomer rings to provide a small amount of axial compensation (±0.5 mm), the SynchroFlex[®] flexure has a consistent force vs. deflection rate. This means consistently superior tap life and thread quality.





Design and Development

Flexure geometries have been designed using the ANSYS finite element analysis method in order to achieve the optimal force vs. deflection rates for the tap capacity of each holder.

As you can see from the cross section drawing, torque is transmitted through the drive pins not through the flexure.

Pages 49-51



Steel Collets



General Information

Modern CNC machines have the capability of synchronizing the spindle rotation to match the feed advance for a specific tap pitch. The «Rigid» or synchronized tapping cycle is very accurate, but it is impossible to avoid small discrepancies between the machine synchronization and the actual pitch of the specific tap being used. Using a rigid tap holder means that any deviation at all increases the thrust forces acting on the tap and this dramatically reduces tap life.

New SynchroFlex[®] II with increased flow rates for high pressure internal coolant.

SynchroFlex® – The Unique Solution

At the heart of SynchroFlex[®] is a precisely machined flexure which provides axial and radial compensation for the unavoidable discrepancy between the machine feed advance and the actual tap pitch. By compensating for this error, the thrust forces acting on the tap are dramatically reduced. The result is the longest possible tap life, 100% improvement or more, and much better quality threads.



By limiting the axial compensation travel, and torsional forces acting on the flexure, millions of holes can be tapped without causing the SynchroFlex[®] holder to fatigue, take a set, or wear out. Below is an example of stress analysis at maximum compression.



thrust forces acting on the tap.

effective as SynchroFlex[®].

Test Results



SynchroFlex[®] II

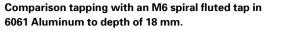
Overview of the SynchroFlex® program

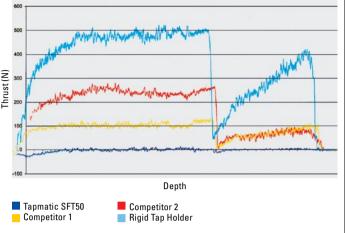


SFT II 150

Six Sizes to Cover a Wide Range of Taps

- SFT II 5 with capacity M1–M3
- SFT II 10 with capacity M2-M5
- SFT II 50 with capacity M4–M12
- SFT II 75 with capacity M8–M20
- SFT II 100 with capacity M16-M30
- SFT II 150 with capacity M22-M48





Case History

Application: Thread cutting on horizontal machining center rigid tapping during an unmanned shift.

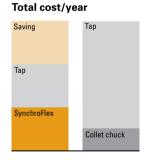
Material: 42CrMo4V steel, heat treated to 650 N/mm2 Tap Size: M8 x 1

Lubrication: Coolant, oil emulsion 6%

Results: With the tap held in a rigid holder the life was just 1'000 components per tap.

Improvement with SynchroFlex®

Tap life increased to 2'400 to 2'900 components per tap saving the customer not only in tap costs, but the ability to run without interruption through the entire unmanned shift.



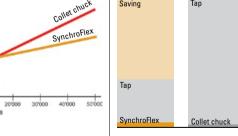
Break Even Point

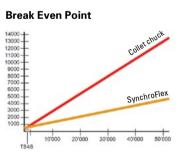
1200-1100-900-800-700-600-

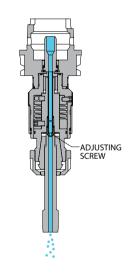


Case History

Tap Size: #10-32







SFT II High Pressure Internal Coolant with increased flow rates

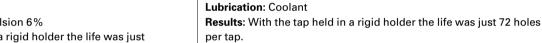
Minimum Quantity Lubrication Available for 1 channel or Multi channel systems

Internal Coolant and MQL

Tapmatic's high pressure internal coolant system may be used at pressures up to 80 bar without affecting the axial compensation.

Tapmatic also can provide tools ready for Minimum Quantity Lubrication through the spindle. Our system provides direct flow of air and lubricant to the back of the tap. See page 21.





Improvement with SynchroFlex®

Material: CF8M steel casting

Tap life increased to more than 216 holes per tap in this difficult material saving the customer not only in tap costs, but by also reducing his down time caused by frequent tap replacement.

Application: Thread cutting on machining center rigid tapping.

SynchroFlex[®] tap holders have been tested by tap manufacturers

all over the world and they have confirmed the dramatic improve-

ment in tap life, and thread quality resulting from the reduction of

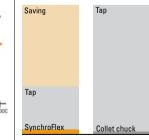
The graph to the left is an example of a test conducted by an

thrust forces compared to a rigid tap holder, they are not as

independent tap manufacturer using a Kistler dynamometer to

measure the thrust forces during the tapping process. As you can see from the graph, although the competitive holders do reduce

Total cost/year





Available with QC spindle Accepts the standard Quick Change adapters or Tapmatic's ER collet chuck QC adapters for improved tap grip.



Integral shank models

Tapmatic offers standard integral shank HSK and Tapmatic Capto tools. ABS shanks are also available on request.

We can also offer integral Steep Taper shank tools but in most cases we recommend a modular system using a cylindrical shank SynchroFlex[®] together with our Short Projection SK, BT or CAT shank.



Four standard extensions are available which increase the tool length by 50, 100, 150, or 200 mm.

Special extensions are also available to fit your specific application. Our extensions keep the flexure in close proximity to the tap ensuring the best performance.





TAVPIVENTIC

Synchronous feed tap holders with modular straight shank, with internal coolant system



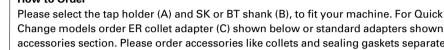
- wide range of sizes
 - increase tap life by 100% or more improves thread quality reduces downtime by lowering frequency of tap replacement Axial compensation +/- 0.5mm (SFT II 150 +/- 1.5mm)

Features and Advantages

- available with ER collet or Quick Change chuck
- available with high pressure internal coolant system up to 80 bar (Balanced Coolant System)

How to Order

ER Collet Chuck Quick-Change



Change models order ER collet adapter (C) shown below or standard adapters shown in accessories section. Please order accessories like collets and sealing gaskets separately as they are not included.

(A) Tap Holder SFTII Cylindrical Shank, ER Collet Chuck, Internal Coolant System

Model	Capacity (steel)	Collets	Shank	Order code (nut w/o seal)	Order code (with seal nut)	L (nut w/o seal)	L (with seal nut)	Weight kg	D	D1	d
SFT II 5	M1–M3 #00–#5	ER8	12 mm	41051208	(28	(inter ocar nat)	0.1	12.0	12.0	12
SFT II 10	M2-M5	ER11	25 mm	41102511		52		0.4	23.5	23.5	19
	#2#10		1″	4110111							
			20 mm	41102011							
			16 mm	41101611							
SFT II 50	SFT II 50 M4.5–M12	ER20	25 mm	41502520N	41502520	64	69	0.5	34.6	36.3	34
	#8-1/2"		1″	4150120N	4150120						
			20 mm	41502020N	41502020						
SFT II 75	M8-M20	ER25	25 mm	41752525N	41752525	83	88	1.0	44.0	45.6	42
	1/4″–3/4″		1″	4175125N	4175125						
SFT II 100	M16–M30	ER40	25 mm	411002540N	411002540	112	117	2.0	62.0	63.6	63
	5/8"-1"		1″	41100140N	41100140						
SFT II 150	M22–M48 7/8"–1 7/8"	ER50	40 mm	411504050N	411504050 *	159	167	5.1	80.0	86.0	78

*Note: Availability of inch size ER50GB collets is limited. Please consult a Tapmatic sales representative for sizes currently available. These internal coolant tools come standard with sealing nut, but tools with standard nuts are also available. When using Roll Form Taps the tool's capacity must be reduced 25 %.

All dimensions are shown in mm. 25.4mm = 1".

(A) Tap Holder SFTII Cylindrical Shank, Quick-Change Internal Coolant System

-	-								
Model	Capacity (steel)	Adapter	Shank	Order code	L	Weight kg	D	D1	d
SFT II 10	M2–M5 #2-#10	Nr. 0	25 mm	411025QC	54.5	0.4	23.5	23.5	25
			1"	41101QC					
			20 mm	411020QC					
		16 mm	411016QC						
SFT II 50	M4–M12	Nr. 1	25 mm	415025QC	56	0.5	34.6	36.3	35
	#8-1/2"		1″	41501QC					
SFT II 75	M8-M16	Nr. 1	25 mm	417525QC	72	1.0	44.0	45.6	40
	1/4"-5/8"		1″	41751QC					
SFT II 100	SFT II 100 M22–M48 Nr. 2 25	25 mm	4110025QC	105	2.0	62.0	63.6	59	
7/8"-17/8"		1″	411001QC						

Note: When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"

For best performance we recommend ER collet adapters shown below.

(C) ER collet adapter

Order code with Stand Nut		Collets	d1	L1	Order code with Seal Nut	L1 (BCS)
8138211N	Nr. 0	ER11	19	20		
8208216	Nr. 1	ER16	22	24	8208216S	28
8218220	Nr. 1	ER20	28	35	8218220S	40
8288225	Nr. 2	ER25	35	38	8288225S	43
8288232	Nr. 2	ER32	50	48	8288232S	53

Page 54



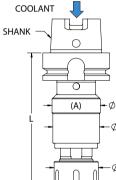
Pages 49-51







SynchroFlex[®] II



-ØD' -ØD

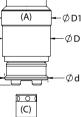
SHANK



Order code with Standard Nut 8208216 8218220 8288225 Nr. 2

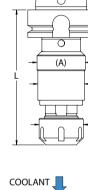
8288232

	Ød
(A)	-−ØD1
	-−ØD









Features and Advantages

improves thread quality

Capacity

M4-M12 #8-1/2"

M8-M20

1/4"-3/4"

M16-M30

5/8"-1"

Canacity

M4-M12

M8-M16

1/4"-5/8" M16-M30

1/2"-7/8'

Nr. 2

#8-1/2"

(steel)

(steel)

Colle

ER20

ER25

ER40

Adap

Nr. 1

Nr. 1

Nr. 2

wide range of sizes

How to Order

Model

SET II 50

SFT II 75

SFT II 100

Model

SFT II 50

SFT II 75

SET II 100

Synchronized Tapping

COOLANT

COOLANT 📕

16





Steel Collets



Synchronous feed tap holders with integral HSK shank, with internal coolant system

■ increase tap life by 100% or more

- reduces downtime by lowering frequency of tap replacement Axial compensation +/- 0.5mm
- available with ER collet or Quick Change chuck
- available with high pressure internal coolant system up to 80 bar. (Balanced Coolant System) also available for Minimum Quantity Lubrication (MQL) through the spindle. Please see page 21

Please select the tap holder (A) including the HSK shank, to fit your machine. For Quick Change models order ER collet adapter (C) shown below or standard adapters shown in Accessories section. Please order accessories like collets and sealing gaskets separately as they are not included.

(A) Tap Holder SFTII HSK Shank, ER Collet Chuck, Internal Coolant System

ets	Shank	Order code (with seal nut)	L	Weight kg	D	D1	d	
)	HSK63A	4150H6320	108	1.0	34.6	36.3	34	
	HSK80A	4150H8020	113	1.9				
	HSK100A	4150H10020	115	2.7				
i	HSK63A	4175H6325	128	1.6	44.0	45.6	42	
	HSK80A	4175H8025	131	2.4				
	HSK100A	4175H10025	133	3.2				
1	HSK63A	41100H6340	160	2.2	62.0	63.6	63	
	HSK80A	41100H8040	161	2.9				
	HSK100A	41100H10040	163	3.7				

Note: These internal coolant tools come standard with sealing nut, but tools with standard nuts are also available. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"

(A) Tap Holder SFTII HSK Shank, Quick-Change, Internal Coolant System

oter	Shank	Order code	L	Weight kg	D	D1	d	
	HSK63A	4150H63QC	95	1.0	34.6	36.3	35	
	HSK80A	4150H80QC	100	1.9				
	HSK100A	4150H100QC	102	2.7				
	HSK63A	4175H63QC	112	1.6	44.0	45.6	40	
	HSK80A	4175H80QC	115	2.4				
	HSK100A	4175H100QC	117	3.2				
	HSK63A	41100H63QC	148	2.2	62.0	63.6	59	
	HSK80A	41100H80QC	149	2.9				
	HSK100A	41100H100QC	151	3.7				

Note: When using Roll Form Taps the tool's capacity must be reduced 25 %.

All dimensions are shown in mm. 25.4mm = 1"

For best performance we recommend ER collet adapters shown below

Collets	d1	L1	Order code with Seal Nut	L1
R16	22	24	8208216S	28
R20	28	35	8218220S	40
R25	35	38	8288225S	43
R32	50	48	8288232S	53

Pages 49-51

Steel Collets

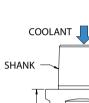


Sealing Gaskets

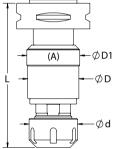


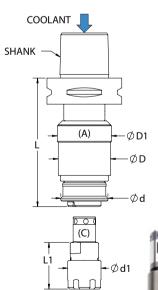
Synchronous feed tap holders with Tapmatic Capto shank, with internal coolant system





Synchronized Tapping











Features and Advantages
increase tap life by 100% or more
improves thread quality

- reduces downtime by lowering frequency of tap replacement
- Axial compensation +/- 0.5mm
- wide range of sizes
- available with ER collet or Quick Change chuck

available with high pressure internal coolant system up to 80 bar. (Balanced Coolant System)

How to Order

Please select the tap holder (A) including the Tapmatic Capto shank, to fit your machine. For Quick Change models order ER collet adapter (C) shown below or standard adapters shown in Accessories section. Please order accessories like collets and sealing gaskets separately as they are not included.

(A) Tap Holder SFT II Tapmatic Capto Shank, ER Collet Chuck, Internal Coolant System

Model	Capacity (steel)	Collets	Shank	Order code (with seal nut)	L	Weight kg	D	D1	d
SFT II 50	M4-M12	ER20	C4	4150C420	102	0.7	34.6	36.3	34
	#8-1/2"		C5	4150C520	103	1.0			
			C6	4150C620	105	1.2			
			C8	4150C820	112	2.1			
SFT II 75	M8-M20	ER25	C5	4175C525	122	1.2	44.0	45.6	42
	1/4"-3/4"		C6	4175C625	124	1.5			
			C8	4175C825	131	2.4			
SFT II 100	M16–M30 5/8"–1"	ER40	C6	41100C640	154	2.9	62.0	63.6	63
			C8	41100C840	161	3.8			

Note: These internal coolant tools come standard with sealing nut, but tools with standard nuts are also available. Please add N to part number to specify nut without sealing. When using Roll Form Taps the tool's capacity must be reduced 25 %.

All dimensions are shown in mm. 25.4mm = 1"

(A) Tap Holder SFT II Tapmatic Capto Shank, Quick-Change, Internal Coolant System

Model	Capacity (steel)	Adapter	Shank	Order code	L	Weight kg	D	D1	d
SFT II 50	M4-M12	Nr. 1	C4	4150C4QC	89	0.7	34.6	36.3	35
:	#8-1/2"		C5	4150C5QC	90	1.0			
			C6	4150C6QC	92	1.2			
			C8	4150C8QC	99	2.1			
SFT II 75	M8-M16	Nr. 1	C5	4175C5QC	106	1.2	44.0	45.6	40
	1/4"-5/8"		C6	4175C6QC	108	1.5			
			C8	4175C8QC	115	2.4			
	M16–M30 1/2"–7/8"	Nr. 2	C6	41100C6QC	142	2.9	62.0	63.6	59
			C8	41100C8QC	149	3.8			

Note: When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1".

For best performance we recommend ER collet adapters shown below.

(C) ER Collet Adapter

	Order code with Standard Nut	Adapter	Collets	d1	L1	Order code with seal nut	L1
	8208216	Nr. 1	ER16	22	24	8208216S	28
	8218220	Nr. 1	ER20	28	35	8218220S	40
8	8288225	Nr. 2	ER25	35	38	8288225S	43
	8288232	Nr. 2	ER32	50	48	8288232S	53



SynchroFlex[®] II

Features and Advantages

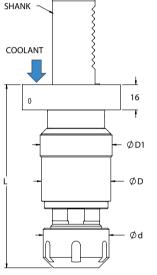
- increase tap life by 100% or more improves thread quality
- Axial compensation +/- 0.5mm
- wide range of sizes
- available with high pressure internal coolant system up to 80 bar. (Balanced Coolant System)

How to Order

Please select the tap holder (A) including the VDI shank, to fit your machine. Please order accessories like collets and sealing gaskets separately as they are not included.

Model	Capacity (steel)	Collets	Shank	Order code (with seal nut)	L	Weight kg	D	D1	d
SFT II 50	0 M4–M12 ER20 #8–1/2"	ER20	VDI 30	4150VDI3020	97	1.2	34.6 36	36.3	34
			VDI 40	4150VDI4020	97	2.1			
SFT II 75	M8–M20 1/4"–3/4"	ER25	VDI 30	4175VDI3025	116	1.5	44	45.6	42
			VDI 40	4175VDI4025	116	2.4			

part number to specify nut without sealing. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1"





Synchronous feed tap holders with VDI shank, with internal coolant system

- reduces downtime by lowering frequency of tap replacement

(A) Tap Holder SFT II VDI Shank, ER Collet Chuck, Internal Coolant System

Note: These internal coolant tools come standard with sealing nut, but tools with standard nuts are also available. Please add N to

Pages 49-51



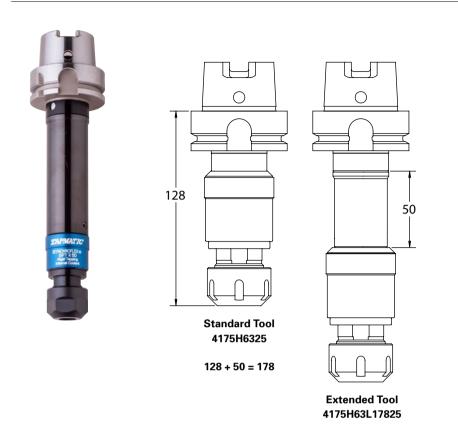
Page 52

Steel Collets

Sealing Gaskets



Synchronous feed tap holders with extended length, with internal coolant



Features and Advantages

- four standard extensions of 50, 100, 150 and 200 mm
- increased tap life of 100% or more
- improved thread quality
- reduced downtime by lowering
- frequency of tap replacement
- Axial compensation +/- 0.5mm available with internal coolant pressure

up to 80 bar

How to Order

Please select the standard length SFT50 or SFT75, including the intregal shank of your choice. Then choose a standard extension of 50, 100, 150 or 200mm. The order code is given as shown in the example drawing at left. Accessories like steel collets and sealing gaskets are not included. Please order these separately.

Special length extensions are also available upon request.

Features and Advantages

improved thread quality reduced downtime by lowering frequency of tap replacement Axial compensation +/- 0.5mm

up to 50 bar

collet chuck

How to Order

special reduced diameter extended

■ increased tap life of 100% or more

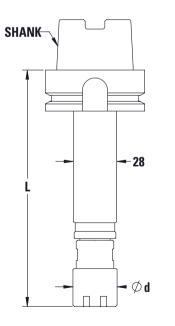
length tools for difficult to reach holes

available with internal coolant pressure

available with ER16 or ER20 mini nut

Synchronous feed tap holders with reduced diameter and extended length





Page 52

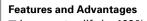




Pages 49-51

60

minimum quantity lubrication



- increase tap life by 100% or more
- improves thread quality
- reduce coolant and maintenance costs
- environmentally friendly alternative to recirculating coolant
- standard for one channel system, but multi-channel also available

How to Order

Please select the tap holder (A) including the HSK shank, to fit your machine. Please order accessories like collets, adjusting screws and sealing gaskets separately as they are not included.

Model	Capacity (steel)	Collets	Shank	Order code for MQL version	L	Weight kg	D	D1	d
SFT II 50	M4-M12	ER20	HSK63A	4150H6320M	108	1.0	34.6	36.3	34
	#8-1/2"		HSK80A	4150H8020M	113	1.9			
			HSK100A	4150H10020M	115	2.7			
SFT II 75	M8-M20	ER25	HSK63A	4175H6325M	128	1.6	44.0	45.6	42
	1/4"-3/4"		HSK80A	4175H8025M	131	2.4			
			HSK100A	4175H10025M	133	3.2			

Note: These MQL tools come standard with sealing nut. When using Roll Form Taps the tool's capacity must be reduced 25 %. All dimensions are shown in mm. 25.4mm = 1" Other shank sizes are also available

Adjusting Screws

Taps with External Center SFT50II ø Tap Shank

6mm, 7mm	810836	
8mm, 9mm	810838	81
10mm	8108310	81
11mm to 16mm		81

Taps with Internal Center										
ø Tap Shank	SFT50II	S								
6mm, 7mm	810836IN									
8mm, 9mm	810838IN	8								
10mm	8108310IN	8								
11mm to 16mm		8								

Additional sizes available on request.

Please simply let us know the type of shank, length (L), and your preference of the ER16 or ER20 collet chuck. Please note diameter "d" for ER16 mini nut is 22mm and for ER20 it is 26mm. Accessories like steel collets and sealing gaskets are not included. Please order these separately.

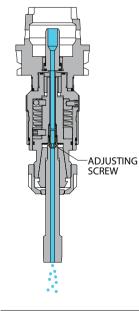
SHANK

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(A)

-ØD1

-ød



Synchronized Tapping



Synchronous feed tap holders with integral HSK shank, with MQL,

- precise lubrication delivery for improved tool life

(A) Tap Holder SFTII HSK Shank, ER Collet Chuck, MQL, minimum quantity lubrication system

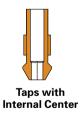
SFT75II

811838 108310 8118311

SFT75II

11838IN 108310IN 8118311IN





Synchronized Tapping

Pages 49-51

Page 52





Sealing Gaskets



Tension / Compression tap chucks for tapping cycles that are not synchronized

For tapping applications on CNC machines where the revolutions per minute and feed rate are not synchronized to the tap pitch, tap holders with tension / compression float are recommended. These tap chucks rely on the machine spindle for reversal, but by providing axial float, the tap is able to follow the correct pitch, producing gage perfect threads.

Tapmatic offers a complete program of tension / compression tap chucks with a wide range of sizes, and three different tap holding options. Rubberflex multi range collets, ER collets, or Quick Change.



SM **Rubberflex Collets**

Tension / compression floating tap holders for gage perfect threads with releasable hard start for consistent tapping depth control.

For tap sizes M1.4-M30.

Only two collets needed to cover the capacity of each holder.



TA Quick Change

In addition to tension/ compression and releasable hard start, the TA series includes front release. A safety feature that releases the quick change tap adapter when the extension float is exceeded.

For tap sizes M1-M49.

Quick Change for fast tap change without wrenches



TAPMATIC

TIC 2

SM ER Collets

All the same features as the rubberflex version but for use with ER square drive collets.

For tap sizes M1.4-M18.

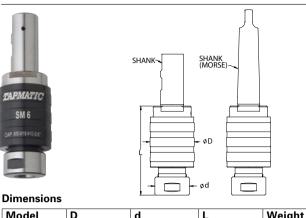
ER GB square drive collets include an internal square drive for securely gripping the tap shank.

TIC Quick Change

All the same features as the TA series but with the addition of high pressure internal coolant up to 50 bar.

For tap sizes M3-M36.

Tension/Compression tap chucks with modular straight shank and RF collet



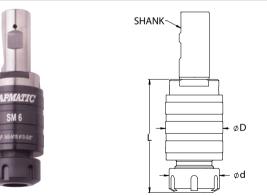
SM

Model	D	d	L	Weight kg
SM2	27	19	53	0.2
SM4	38	27	71	0.4
SM6	48	37	96	0.8
SM8	63.5	57	128	2.5

Model	Capacity (steel)	Collets Rubber Flex Order Code (Shank Ø)	Shank	Order code	Tension T	Compression H
SM2	M1.4–M7	21600 (2.5-4.5)	16mm	023216	4.5	6
	#0 - 1/4"	21700 (4.5-6.5)	5/8"	023262		
			No. 2 Morse	023202		
SM4	M3–M12	22100 (3.5-6.5)	20mm	023420	7	7
	#6 - 1/2"	22200 (6.5-10.0)	3/4"	023475		
			No. 2 Morse	023402		
SM6	M5-M18	24100 (4.5-10.0)	25mm	023625	11	11
	#10 - 3/4"	24500 (10.0-15.0)	1"	023610		
			No. 3 Morse	023603		
SM8	M10-M30	26100 (10.0-16.0)	32mm	023832	17	17
	1/2" - 1 1/8"	26200 (16.0-23.0)	1 1/2"	023815		
			No. 3 Morse	023803		
			No. 4 Morse	023804		

Note: Additional shanks available. When using roll form taps, the tool capacity must be reduced 25%.

Tension/Compression tap chucks with modular straight shank and ER collet



÷		SHANK-					h increased tension and commodate tapping synchronized.
TAPMATIC SM 6				øD		Features and Adva increased tensic compression releasable hard control	•
CLP. MSW18 #10-S9				ød		 right hand and I ER steel collet cl How to Order 	
Dimension	5					Please select the ta	ap chuck (A) and CAT,
Model	- D	d	L	Weight kg), to fit your application.
SM2	27	28	65	0.2			eel collets separately.
SM4	38	34	74	0.4		Thease order Errst	cer concto separatery.
SM6	48	42	94	0.8			
Model	1	Capacity (steel)	Collets	Shank	Order code	Tension T	Compression H
SM2		M1.4–M7 #0 - 1/4"	ER16	16mm 5/8"	023216ER 023262ER	4.5	5
SM4		M3–M12 #6 - 1/2"	ER20	20mm 3/4"	023420ER 023475ER	7	7
SM6		M5–M18 #10 - 3/4"	ER25	25mm 1"	023625ER 023610ER	11	11
					Page 54	Page	48 Pages 49-51
					(C)		

Interchangeable

Steep Tapers

i		SHANK					Tapping chuck v compression to cycles that are n	accommodat	e tapping
TAPMATIC SM 6 OF USATE FIGSE				øD ød			Features and Ac increased ten compression releasable had control right hand and ER steel colled How to Order Please select the	sion and rd start for co d left hand tap t chuck	pping
Model	D	d	L	Weight kg]		SK or BT shank	(C), to fit your	application.
SM2	27	28	65	0.2			Please order ER	steel collets s	separately.
SM4	38	34	74	0.4					
SM6	48	42	94	0.8	J				
Model		Capacity (steel)	Collets	Sha		Order code	Tension T	Comp	ression H
SM2		M1.4–M7 #0 - 1/4"	ER16	16n 5/8		023216ER 023262ER	4.5	5	
SM4		M3–M12 #6 - 1/2"	ER20	20n 3/4		023420ER 023475ER	7	7	
SM6		M5–M18 #10 - 3/4"	ER25	25n 1"		023625ER 023610ER	11	11	
						Page 54	Pa	age 48	Pages 49-5
					(C)				



Tapping chuck with increased tension and compression to accommodate tapping cycles that are not synchronized.

Features and Advantages

- increased tension and compression
- releasable hard start for consistent depth control
- right hand and left hand tapping
- multi-range collets (RF), adjustable back jaw for driving tap square

How to Order

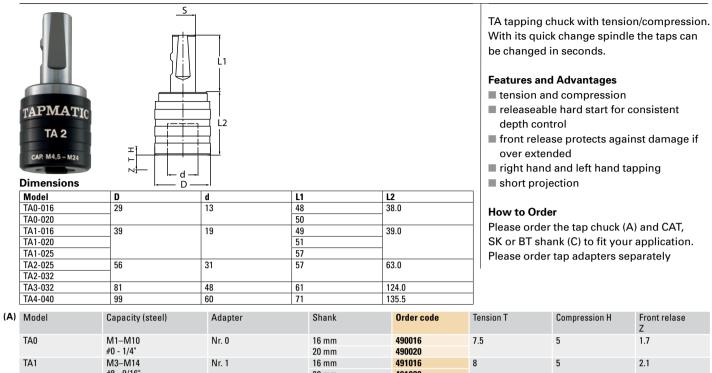
Please select the tap chuck (A) and CAT, SK or BT shank (C), to fit your application. Please order rubber flex collets separately.

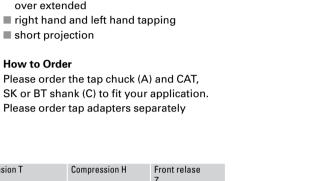
Steel collets

RF Multi-range Collets









TA0 M1–M10						Z	
	Nr. 0	16 mm	490016	7.5	5	1.7	
#0 - 1/4"		20 mm	490020				
TA1 M3–M14		8	5	2.1			
#8 - 9/16"		20 mm	491020				
		25 mm	491025				
TA2 M4.5–M24	Nr. 2	25 mm	492025	15	8.5	2.8	
5/16" - 7/8"		32 mm	492032				
TA3 M14-M36, 13/16" - 1 3/8"	Nr. 3	32 mm	493032	23.5	15	4.1	
TA4 M22-M48, 7/8" - 1 7/8"	Nr. 4	40 mm	494040	25	16.5	5.7	

Note: When using Roll Form Taps the chuck's tapping capacity must be reduced by 25 %.

11

Tension/Compression tap chucks with morse taper and quick change



How to Order Please select the tap chuck (A) to fit your application. Please order quick change tap adapters separately.

Dimensions

Model	D	d	L1	L2	
TA0-MT1	29	13	62.0	43.5	
TA0-MT2	29	13	75.0	45.0	
TA1-MT2	39	19	75.0	47.0	
TA2-MT3	56	31	94.0	71.0	
TA3-MT4	81	48	117.5	105.0	
TA4-MT5	99	60	149.5	116.5	

(A)	Model	Capacity (steel)	Tap adapters	Morse taper MT	Order code	Tension T	Compression H	Front release Z	
	TA0	M1-M10	Nr. 0	1	490MT1	7.5	5	1.7	
		#0-1/4"		2	490MT2				
	TA1	M3–M14	Nr. 1	2	491MT2	8	5	2.1	
		#8-9/16"		3	491MT3				
	TA2	M4.5–M24	Nr. 2	3	492MT3	15	8.5	2.8	
		5/16"-7/8"		4	492MT4				
				5	492MT5				
	TA3	M14–M36	Nr. 3	4	493MT4	23.5	15	4.1	
		13/16"-1 3/8"		5	493MT5				
	TA4	M22–M48	Nr. 4	5	494MT5	25	16.5	5.7	
		7/8"-1 7/8"		6	494MT6				

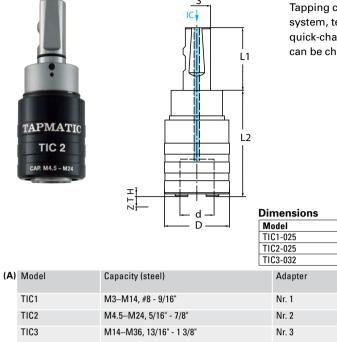
Note: When using Roll Form Taps the chuck's tapping capacity must be reduced by $25\,\%$. All dimensions are shown in mm. 25.4mm = 1"

> Pages 44-48 Page 54



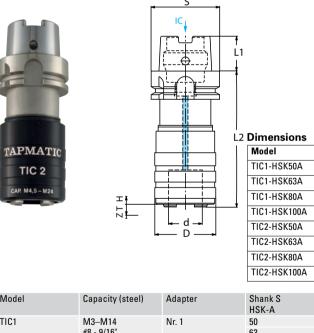
Interchangeable

Steep Taper



Note: When using Roll Form Taps the chuck's tapping capacity must be reduced by 25 %.

Tension/Compression tap chucks with HSK shank, quick change and internal coolant



TAPMATIC			Model	D	d	L1	L2
TIC 2			TIC1-HSK50A	43	19	25	91
			TIC1-HSK63A			32	93
CAP. M4,5 - M24	ΞŦ		TIC1-HSK80A			40	97
	ZT		TIC1-HSK100A			50	98
	-		TIC2-HSK50A	59	31	25	140
			TIC2-HSK63A			32	130
			TIC2-HSK80A			40	133
						50	135
			TIC2-HSK100A			50	130
			TIC2-HSK100A			50	135
Model	Capacity (steel)	Adapter	Shank S HSK-A	Order code	Tension T	Compression H	Front release Z
Model TIC1	Capacity (steel) M3–M14	Adapter Nr. 1	Shank S	Order code 49C1H50	Tension T 7.5		Front release
			Shank S HSK-A			Compression H	Front release Z
	M3–M14		Shank S HSK-A 50	49C1H50		Compression H	Front release Z
TIC1	M3–M14 #8 - 9/16"	Nr. 1	Shank S HSK-A 50 63 80 100	49C1H50 49C1H63	7.5	Compression H 5	Front release Z 2.5
	M3–M14		Shank S HSK-A 50 63 80	49C1H50 49C1H63 49C1H80		Compression H	Front release Z
TIC1	M3–M14 #8 - 9/16"	Nr. 1	Shank S HSK-A 50 63 80 100	49C1H50 49C1H63 49C1H63 49C1H80 49C1H100	7.5	Compression H 5	Front release Z 2.5
TIC1	M3-M14 #8 - 9/16" M4.5-M24	Nr. 1	Shank S HSK-A 50 63 80 100 50	49C1H50 49C1H63 49C1H80 49C1H80 49C1H100 49C2H50	7.5	Compression H 5	Front release Z 2.5

All dimensions are shown in mm. 25.4mm = 1"

TA

Quick-Change Adapters



Tension/Compression tap chucks with modular straight shank, guick change and internal coolant

Tapping chuck with internal coolant system, tension, compression and quick-change spindle, where the tap can be changed in seconds.

Features and Advantages

- tension and compression
- releaseable hard start for consistent depth control
- front release protects against damage if over extended
- right hand and left hand tapping
- internal coolant system (max. 50 bar)
- short projection

How to Order

Please order the tap chuck (A) and CAT, SK or BT shank (C) to fit your application. Please order tap adapters separately.

	D mm		d mm		L1 mm		L2	mm
	43 19		19	19		57		
	59 31		31	57			98	
	80 4		48		61		147	1
	Shank	Order	code	Tension	Т	Compression	Η	Front release Z
2	25	49C10	25	7.5		5		2.5
2	25	49C202	25	10		7		3
3	32	49C30	32	20		15		5

How to Order Please select the tap chuck (A) to fit your application. Please order quick change tap adapters separately.

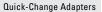


Page 54

(B)

Interchangeable

Steep Tapers





Tapping attachments for manual tapping applications



Tapping attachments for drilling and milling machines and pneumatic, hydraulic and electric spindles

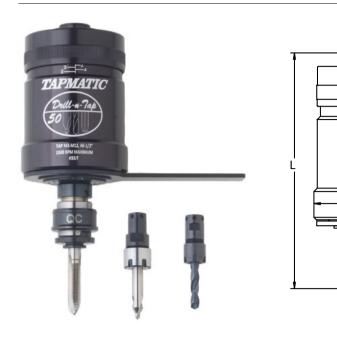
Since 1952 Tapmatic has manufactured the world's most popular line of compact self-reversing tapping attachments. Our experience and commitment to quality make these tools an excellent value. Although there are other products available on the market, a Tapmatic head is still the most economical to use. Our customers know they can count on our tools for many, many years of service.

Tapmatic offers a complete program of self-reversing tapping attachments to meet the most difficult requirements. Ruggedly built, these Tapmatic tools provide higher production rates due to:

- decrease in tap breakage
- production of perfect threads
- reduced cycle time through increased
- 1.75:1 reverse speed
- Ionger tap life
- accurate depth control
- better thread quality
- consistent trouble free performance
- interchangeable mounts
- left hand versions available on request

Drill-n-Tap

Self-reversing tapping attachment for drilling and tapping with high-speed reverse, pre-selective torque control and quick change



Dimensions

(A)	Model	D mm	d mm	Self-feed mm T	Weight kg
	Drill-n-Tap 30	60	25	2-4	0.8
	Drill-n-Tap 50	80	35	2-5	2.0

Model	Tap Capacity (steel)	Adapter Size	Mounts S		Order code	L	Max. RPM
			Taper mounts	Thread. mounts			
Drill-n-Tap 30	M1.4–M7 #0 - 1/4"	NR. 0	JT6		014006	126	2000
			B16		014016		
			JT33		014033		
				1/2"-20	014050		
Drill-n-Tap 50	M3–M12 #6 - 1/2"	- 1/2"	JT6		016006	159	1500
			B16		016016		
			JT33		016033		
				1/2"-20	016050	154	

Note: When using Roll Form Taps the tool's capacity must be reduced by 25%. All dimensions are shown in mm. 25.4mm = 1".

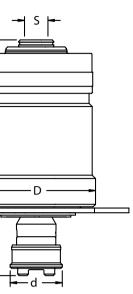
	Description				
	Nr. O, P Type Tap Adapters				
(B) X	Nr. 1, P Type Tap Adapters				
	Order code	Adapter size			
	8138211N	Nr. 0			
	8208216	Nr. 1			
	8218220				

8118220N

oters		
er size	Collets Used	Clam
	ER11	2.5-1
	ER16 (Mini nut)	2.5-1
	ER20 (Mini nut)	2.5-1
	ER20 (Standard nut)	2.5-13

SPD-QC With quick change spindle. Recommended for pipe taps.





- for tapping and drilling
- great for combination drill-tap cutting tools.
- unique design for improved concentricity
- quick change for rapidly changing the cutting tool
- reduced cycle time when tapping thanks to 1.75 to 1 reverse speed
- less tap breakage due to pre-selective torque control
- adjustable self-feed and hard start for accurate depth control

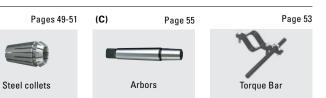
How to Order

Please select the tapping attachment (A) and arbor (C) to fit your application. Choose an arbor to fit the thread or taper mount of the tapping attachment, with Morse Taper, R8 or straight shank to fit your machine. Please order quick change adapters and collets separately. Please order torque bars separately.

	d1	d2
	22	7
	30	7
ing Ø	d1	d2
	19	20-22
	22	24-27
	28	35-38
	34	35-38

For tapping, the P type tap adapters may be used. Please order separately by tap size. See Pages 44-45.

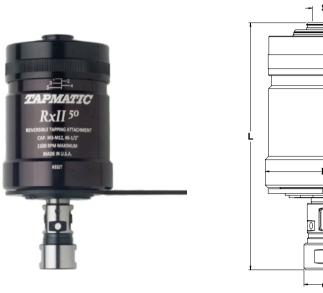
The ER11, ER16 and ER20 quick change adapters use ER collets. They can be used together with ERGB (square drive collets) for tapping and with standard collets for holding center drills and drills. Please order separately.

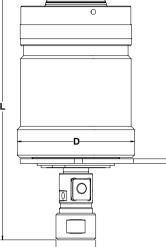


27



High production self-reversing tapping attachments with high-speed reverse and pre-selective torgue control





press, and milling machines.

for high production tapping on drill

- unique design for improved
- concentricity.
- Rubber Flex collet spindle. Only two collets required to cover the full tap capacity.
- reduced cycle time thanks to 1.75 to 1 reverse speed
- less tap breakage due to pre-selective torque control with heavy duty ball clutch easy adaptation with multiple
- interchangeable arbors

How to Order

Please select the tapping attachment (A) and arbor (C) to fit your application. Choose an arbor to fit the thread or taper mount of the tapping attachment, with Morse Taper, R8 or straight shank to fit your machine. Please order rubber flex collets and torque bars separately.

RX

High production self-reversing tapping attachments with high-speed reverse and pre-selective torque control



Model	D mm	d mm	Self-feed mm T	Weight kg			
RX30	53	19	3	0.7			
RX50	76	27	5	1.8			
RX70	88	36	7	3.0			
Model	Capacity (steel)	Collets Rubber Flex	Mounts S		Order code	L	Max. RPM
		Order Code (Shank Ø)	Taper mounts	Thread. mounts			
RX 30	M1.4–M7	21600 (2.5-4.5)	JT6		013006	116	2000
	#0 - 1/4"	21700 (4.5-6.5)	B16		013016		
			JT33		013033		
				3/8"-24	013037		
				1/2"-20	013050		
RX 50	M3–M12	22100 (3.5-6.5)	JT6		015006	157	1500
	#6 - 1/2"	#6 - 1/2" 22200 (6.5-10.0)	B16		015016		
			JT33		015033		
				1/2"-20	015050		
RX 70	M5–M18	M5-M18 24100 (4.5-10) JT3 017003 #10 - 3/4" 24500 (9.0-15.0) 1/2"-20 017050	017003	182	1200		
	#10 - 3/4"			1/2"-20	017050		
				7/8"-20	017087		

Note: When using Roll Form Taps the tool's tapping capacity must be reduced by 25 %. Special thread mounts are also available to fit Burgmaster machines. All dimensions are shown in mm. 25.4mm = 1"

RF Rubber Flex Collets

Tapping Head Capacity	RF Collet Order code	Clamping Capacity (mm)	Tap Capacity Metric Sizes (DIN 371, 374)	Tap Capacity Inch Sizes
M1.4-M7	21600	2.5-4.5	M1.6-M4	#0-#8
#0-1/4"	21700	4.5-6.5	M4-M6	#10-1/4"
M3-M12	22100	3.5-6.5	M3-M6	#0-1/4"
#6-1/2"	22200	6.5-10.0	M7-M12	5/16"-1/2"
M5-M18	24100	4.5-10.0	M4-M12	#10-1/2"
#10-3/4"	24500	9.0-15.0	M10-M18	1/2"-3/4"

Dimensions

Model	D	d	Self-feed	Weight kg
Rx II 30	60	25	4	0.8
Rx II 50	80	35	5	2.0

(A)	Model	Capacity (steel)	Collets Rubber Flex Order Code (Shank Ø)	Mounts S Taper mounts	Thread. mounts	Order code	L	Max. RPM
	Rx II 30	M1.4–M7 #0 - 1/4"	21600 (2.5-4.5) 21700 (4.5-6.5)	JT6		114006	109	2000
				B16		114016		
				JT33		114033		
					1/2"-20	114050		
	Rx II 50	M3–M12 #6 - 1/2"	22100 (3.5-6.5) 22200 (6.5-10.0)	JT6		116006	169	1500
				B16		116016		
				JT33		116033	164	
					1/2"-20	116050		

Page 53

Note: When using Roll Form Taps the tool's capacity must be reduced by 25%. All dimensions are shown in mm. 25.4mm = 1"

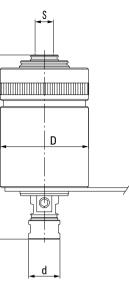
RF Rubber Flex Collets

Tapping Head Capacity	RF Collet Order code	Clamping Capacity (mm)	Tap Capacity Metric Sizes (DIN 371, 374)	Tap Capacity Inch Sizes
M1.4-M7	21600	2.5-4.5	M1.6-M4	#0-#8
#0-1/4"	21700	4.5-6.5	M4-M6	#10-1/4"
M3-M12	22100	3.5-6.5	M3-M6	#0-1/4"
#6-1/2"	22200	6.5-10.0	M7-M12	5/16"-1/2"



28



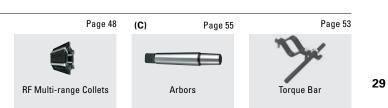


- for hard to machine material and high
- torque applications like roll form tapping
- less tap breakage due to pre-selective torque control
- reduced cycle time through increased 1.75:1 reverse speed
- easy handling, compact design
- easy adaptation with multiple interchangeable arbors

How to Order

Please select the tapping attachment (A) and arbor (C) to fit your application. Choose an arbor to fit the thread or taper mount of the tapping attachment, with the Morse Taper, R8 or straight shank to fit your machine. Please order rubber flex collets and torque bars separately .







- easy handling, compact design less tap breakage due to pre-selective
- torque control
- easy adaptation with multiple interchangeable arbors
- reduced cycle time through increased 1.75:1 reverse speed
- only 2 Rubber Flex collets per model required.

How to Order

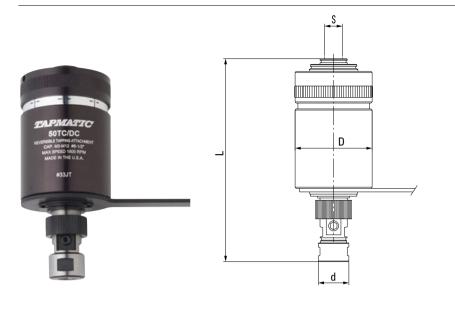
Please select the tapping attachment (A) and arbor (C) to fit your application. Choose an arbor to fit the thread or taper mount of the tapping attachment, with the Morse Taper, R8 or straight shank to fit your machine. Please order rubber flex collets and torgue bars separately.

Note: X models with Quick Change or ER collet chuck are also available on request.

TC/DC

Dimensions

Self-reversing tapping attachments with high-speed reverse, pre-selective torgue control and adjustment for shallow depth tapping



	Dimensions			
	Model	D	d	Self-feed
	30TC/DC	48	19	1.5-3.5
	50TC/DC	70	27	2-6
	70TC/DC	76	36	3–9
(A)	Model	Capacity (steel)	Collets Rubber Flex	Mounts S
			Order Code (Shank Ø)	Taper mounts
	30TC/DC	M1.4–M7	21600 (2.5-4.5)	JT6
		#0 - 1/4" 21700 (4.5-6.5)		B12
				B16
				JT33
	50TC/DC	M3–M12	22100 (3.5-6.5)	JT6
		#6 - 1/2"	22200 (6.4-10.0)	B16
				JT33
	70TC/DC	M5-M18	24100 (4.5-10)	JT3
		#10 - 5/8"	24500 (9.0-15.0)	B18

Note: When using Roll Form Taps the tool's tapping capacity must be reduced by 25 %. * These special thread mounts are only for Burgmaster machines. All dimensions are shown in mm. 25.4mm = 1"

RF Rubber Flex Collets

Tapping Head Capacity	RF Collet Order code	Clamping Capacity (mm)	Tap Capacity Metric Sizes (DIN 371, 374)	Tap Capacity Inch Sizes
M1.4-M7	21600	2.5-4.5	M1.6-M4	#0-#8
#0-1/4"	21700	4.5-6.5	M4-M6	#10-1/4"
M3-M12	22100	3.5-6.5	M3-M6	#0-1/4"
#6-1/2"	22200	6.5-6.5	M7-M12	5/16"-1/2"
M5-M18 #10-3/4"	24100	4.5-10.0	M4-M12	#10-1/2"
	24500	9.0-15.0	M10-M18	1/2"-3/4"

()	Model	Capacity (steel)	Collets Rubber Flex	Mounts S		Order code	L	Max. RPM
			Order Code (Shank Ø)	Taper mounts	Thread. mounts			
	30X	M1.4–M7	21600 (2.5-4.5)	JT6		10306	113	2000
		#0 - 1/4"	21700 (4.5-6.5)	B12		10312		
				B16		10316		
				JT33		10333		
					5/16"-24*	10331	104	
					3/8"-24	10337		
					1/2"-20	10350	113	
					5/8"-16*	10362		
					3/4"-16*	10375		
5	50X M3–M12 #6 - 1/2"	M3-M12	22100 (3.5-6.5)	JT6		10506	153	1500
		22200 (6.5-10.0)	B16		10516			
			JT33		10533			
					3/8"-24	10537	148	
					1/2"-20	10550		
					5/8"-16*	10562		
					3/4"-16*	10575		
	70X	M5-M18	24100 (4.5-10)	JT3		10703	176	1200
		#10 - 5/8"	24500 (9.0-15.0)	B18		10718		
					1/2"-20	10750		
					5/8"-16*	10762		
					3/4"-16*	10775		
					7/8"-20	10787		
	90X	M10-M30	26100 (10.0-16.0)	JT4		10904	219	600
		1/2" - 1 1/8"	26200 (16.0-23.0)		1.1/2"-18	10915		

Self-feed

3.5

13

Weight kg

0.2

0.5

1.4

2.1

5.0

Note: When using Roll Form Taps the tool's tapping capacity must be reduced by 25 %.

* These special thread mounts are only for Burgmaster machines. All dimensions are shown in mm. 25.4mm = 1

RF Rubber Flex Collets

Tapping Head Capacity	RF Collet Order code	Clamping Capacity (mm)	Tap Capacity Metric Sizes (DIN 371, 374)	Tap Capacity Inch Sizes	
M1.4-M7	21600	2.5-4.5	M1.6-M4	#0-#8	
#0-1/4"	21700	4.5-6.5	M4-M6	#10-1/4"	5
M3-M12	22100	3.5-6.5	M3-M6	#0-1/4"	
#6-1/2"	22200	6.5-10.0	M7-M12	5/16"-1/2"	
M5-M18	24100	4.5-10.0	M4-M12	#10-1/2"	
#10-3/4"	24500	9.0-15.0	M10-M18	1/2"-3/4"	
M10-M30	26100	10.0-16.0	M10, M14-M20	9/16"-3/4"	
1/2"-1 1/8"	26200	16.0-23.0	M20-M30	13/16"-1 1/8"	

Page 48 Page 55

Arbors



Torque Bar

-4-

TAPMATIC

50X

#33.0

Dimensions

D

33

48

70

76

105

19

27

36

57

Model

100XB

30X

50X

70X

90X

- 30 **RF Multi-range Collets**



- adjustable depth control for shallow blind hole
- easy handling, compact design
- less tap breakage due to pre-selective torque control
- easy adaption with multiple interchangeable arbors
- reduced cycle time through increased 1.75:1 reverse speed
- only 2 Rubber Flex collets per model required.

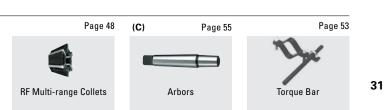
How to Order

Please select the tapping attachment (A) and arbor (C) to fit your application. Choose an arbor to fit the thread or taper mount of the tapping attachment, with the Morse Taper, R8 or straight shank to fit your machine. Please order rubber flex collets and torque bars separately .

Weight kg
0.5
1.2
2.3

		Order code	L	Max. RPM
ts	Thread. mounts			
		14306	122	2000
		14312		
		14316		
		14333		
	5/16"-24*	14331	113	
	3/8"-24	14337		
	1/2"—20	14350	122	
	5/8"-16*	14362		
		14506	169	1500
		14516		
		14533		
	3/8"-24	14537		
	1/2"-20	14550		
	5/8"-16*	14562		
		14703	191	1200
		14718		
	1/2"-20	14750		
	5/8"-16*	14762		
	7/8"-20	14787		







In Machine Marking

0 0 00 00

Tapping attachments with automatic reversal for conventional machines

- a -

TEAPENLATING SPD5-OC WARACITY 46-L/20 MAX HPM 1500 MAC IN 1960	
9	

- Features and Advantages rugged design short lengths
- 1:1 reverse speed for heavy applications like drill tapping or roll form tapping
- SPD QC also recommended for pipe taps

Dimensions

Model	D mm	d mm	Self-feed mm	Weight kg	
SPD-3	53	19	3	0.5	
SPD-5	69	27	5	1.4	
SPD-7	76	36	7	2.1	
SPD-9A	103	57	10	5.0	
SPD-3 QC	53	28	3	0.5	
SPD-5 QC	69	36	5	1.4	
SPD-7 QC	76	54	7	2.1	
SPD-9A QC	103	76	10	5.0	
SPD-11 QC	146	90	13	14.0	

When using Roll Form Taps the tool's tapping ty must be reduced by 25%. special thread mounts are only for Burgmaster ies. ensions are shown in mm. 25.4mm = 1"

			1		I		
Model	Capacity (steel)	Collets Rubber Flex	Mounts S		Order code	Lmm	Max. RPM
		Order Code (Shank Ø)	Taper mounts	Thread. mounts			
SPD-3	M1.4–M7 #0 - 1/4"	21600 (2.5-4.5)	JT6		18306	118	2000
		21700 (4.5-6.5)	B16		18316		
			JT33		18333		
				3/8"-24	18337	105	
				1/2"-20	18350	113	
				5/8"-16*	18362		
SPD-5	M3-M12	22100 3.5-6.5)	JT6		18506	148	1500
	#6 - 1/2"	22200 (6.5-10.0)	B16		18516		
	- ,		JT33		18533		
				3/8"-24	18537	138	
				1/2"-20	18550		
				3/4"-16*	18575		
				7/8"-20	18587	148	
SPD-7	M5-M18	24100 (4.5-10.0)	JT3	770 20	18703	175	1200
0107	#10 - 5/8"	24500 (9.0-15.0)	010	1/2"—20	18750	162	1200
	" 10 0/0	21000 (0.0 10.0)		5/8"-16*	18762	102	
				7/8"-20	18787	175	
SPD-9A	M10-M30	26100 (10.0-16.0)	JT4	770 - 20	17904	228	600
51 D-3A	1/2" - 1 1/8"	26200 (16.0-23.0)	514	1 1/2"–18	17915	200	000
	1/2 1 1/0	20200 (10.0 20.0)		1 1/2 -10	17515	200	
SPD-3 QC	M1.4–M7	Nr 0	B16		18216	109	2000
	#0 - 1/4"		JT33		18233		
			0.00	3/8"-24	18237	96	
				1/2"-20	18250	104	
				5/8"-16*	18262		
				3/4"-16*	18275	109	
SPD-5 QC	M3-M12	Nr 1	B16	5/7 10	18416	130	1500
010000	#6 - 1/2"		JT33		18433	.50	1000
			0100	1/2"-20	18450	122	
				5/8"-16*	18462	122	
				7/8"-20	18487	130	
SPD-7 QC	M5-M18	Nr 2	JT3	7/0 -20	18603	159	1200
51 0-7 46	#10 - 5/8"	INT Z	010	1/2"-20	18650	147	1200
	#10-J/0			5/8"-16*	18662	147	
						150	
	M10 M20	NI# 0	174	7/8"–20	18687	159	C00
SPD-9 QC	M10-M30	Nr 3	JT4	1 1/0" 10	17804	217	600
000 11 00	1/2" - 1 1/8"	" N. 4		1 1/2"-18	17815	189	400
SPD-11 QC	M22–M42, 3/4" - 2	Nr 4		2 1/4"-10	18100	236	400

Page 55

Arbors

Note: SPD-11 QC Recommended capacity 1 1/2" steel, 2" aluminum

Page 48



Torque Bar



Quick-Change Adapters

Manual Attachments





Dot Peen Marking tool for CNC marking

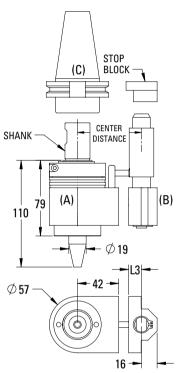
Eleffectivity

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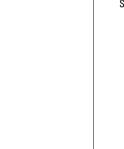
How to Order order accessories separately.

TapWriter[®]









The TapWriter is Fast. Up to 80 characters per minute or more just

Dot peen marking is widely used in the aerospace industry because the cross section of the dot has gentle curves, resulting in no significant stress concentration.

Tapmatic Is Pleased To Introduce An Exciting

The TapWriter allows you to mark your work piece while you are

machining it without the need for a secondary marking operation. Part numbers, date codes, logos and even decorative patterns and artwork can easily be created with this unique dot marking tool.

improve a parts resistance to fatigue. Using the TapWriter for shot

Installs easily on Machining Centers or CNC lathes with Live Tooling.

peening allows treating specific areas of a part without the need for masking, and no special cleaning is needed afterwards.

It can also be used for controlled, consistent shot peening to

It utilizes standard engraving software, but unlike engraving,

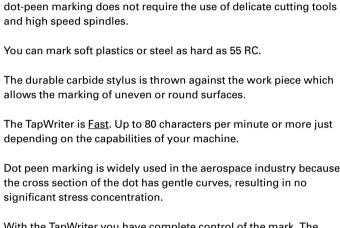
New Product.... The TAPMATIC TapWriter.

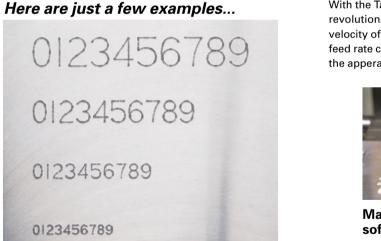
With the TapWriter you have complete control of the mark. The revolutions per minute determines the dots per minute, and the velocity of the carbide stylus when it impacts the work piece. The feed rate controls the distance between dots allowing you to select the apperance of discrete dots or a continuous line.



Mark logos using standard CAD/CAM software for the tool path.

- Eliminates extra operations
- Faster than engraving
- Long tool life with replaceable carbide stylus
- Mark hard or soft materials
- Mark round or uneven surfaces
- Simple to install and program





Character heights shown from 6 mm to 2 mm, using standard engraving software.

0123456789



Point to point programming for creating characters with defined dot position or 2D Data Matrix codes.

TapWriter[®]



The TapWriter® adapts to machining centers with automatic change, using a locking stop arm, similar to those used with self reversing tapping attachments. Please select the TapWriter[®] (A), stop arm (B), and CAT, SK, or BT shank (C), to fit your machine. Please

with Stop Arm Bar and **Stop Block Installation**

(A) TapWriter[®] CNC Dot Peen Marking Tool

Model	Order code	Shank	Weight kg
TAPWRITER	57820	20 mm	1.7
	57825	25 mm	
	57810	1″	

(B) Stop Arm Assembly

Center Distance (42+L3)	Order code	L3
55	3925551	13
65	3925651	23
80	3925801	38

Special stylus points or extended lengths are available on request.



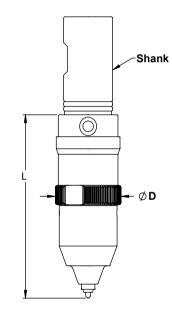


ScribeWriter Force T Marking tool for work piece scribing



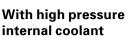


Example in 4140 pre heat treated material with hardness 28 HRC. Marking at different settings with 1.3 mm compression against the surface.



Changing the stylus





ScribeWriter Force
↓ Marking tool for work piece scribing



Mark It While You Make It.

- Scribing tool for CNC machines.
- For marking of different materials up to 62 HRC hardness, and surface variations up to 5mm.
- Fast marking without spindle rotation.
- Simple programming directly at the machine control or from the programmers work station using engraving software.
- Marking force and resulting depth are adjustable by turning the knurled sleeve.
- Easy to read marking force reference scale with high quality magnification lens from Thorlabs.
- Settings 0-7 for gradually increasing force up to setting H for marking the hardest materials. There is no need to change springs.
- With high pressure internal coolant capability for improved stylus lubrication and increased marking force.
- Simple to change, long life, carbide stylus. A 90° and 60° stylus are available.
- New ball point stylus option. The rolling ball creates very smooth lines, but depth is shallower in comparison to scribing points.

Setting 0-7 for marking all kinds of materials

Setting H for hard materials



Unique flexure technology for higher marking force without the need to change springs.

Easy to exchange long life carbide stylus.







Turn to increase

or decrease marking force.





Example created with new ball point stylus in aluminum material



Example marking a curved surface programmed at constant marking plane. Material is S7 tool steel heat treated to 60 HRC. Setting 'H' with 2mm compression at closest point on surface.

How to Order

Please select the ScribeWriter® with shank to fit your application. Please order CAT, SK, or BT shanks separately. The Scribewriter® comes with one standard 90° stylus. A 60° stylus is also available.

Order code	Shank	L	ØD
57601	1"	95	32
57625	25 mm	95	32
57620	20 mm	95	32
57616	16 mm	95	32

Note: To order the ScribeWriter with 60° stylus, please specify by adding "-60" to the above order codes. To order the ScribeWriter with a ball point stylus please specify by adding "-B" to the

above order codes.

Standard Stylus Options

Order code	Stylus Point
7361608	90°
7361611	60°

Ball Point Stylus Options

Order code	Description
73602BN4A	Complete ball point assembly
71735C	2mm carbide ball



Remove the retaining screw.

- The stylus can then be removed and changed.

Page 54





CNC Marking Heads for use with standard type or custom stamps



Tapmatic MH Series Marking Heads

Eliminate the need for expensive secondary marking operations. The Marking Head allows you to mark the work piece during the machining process.

Simple to install on Machining Centers, CNC lathes or even manually controlled conventional machines. Compact in size, they fit easily in the tool magazine or turret without interference.

With the Marking Head, no rotation is required. Simply advance the head against the work piece a short distance to charge the internal impact system and rapid feed away.

The impact force and marking depth can be adjusted by turning the knurled sleeve.

The Marking Heads shock absorbtion system cushions any recoil effect on the machine spindle or turret.

With the Marking Head you can hold standard type or custom made stamps. Mark part numbers, date codes, batch codes, logos or other information.

The marking location and depth are accurate and consistent.

Characters and stamps are securely held and can be changed quickly.

The Marking Head is fast. Stamping the work piece takes less than one second.

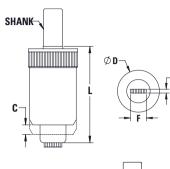


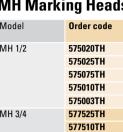
Marking Head

CNC Marking Heads for use with standard type or custom stamps

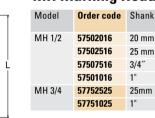
How to Order

Please select the Marking Head with the shank to fit your application. Please order accessories like standard type or custom stamps separately. Please note the Marking Head accepts standard type directly or you can use one of the separate Type Holders for quick replacement of charcters and fast change over.

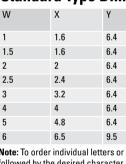




MH Marking Heads with ER Collet Holder



Standard Type Dimensions



followed by the desired character. FOR EXAMPLE: "5707111006D" for the letter D character with height of 1mm. * Only for use with type holder 5775THILG

Type Holders for fast change over									
Model	Order code	А	В	С					
MH 1/2	5750THI	24	6.35	6.4					
MH 3/4	5775THI	40	6.35	6.4					
MH 3/4	5775THILG	40	6.35	9.6					



Custom Stamps Available on Request

Note: Tapmatic can also supply custom stamps to fit the Marking Heads. Please let us know the details of your application and we will be pleased to provide a proposal drawing and quote.

Marking Head

MH Marking Heads with Type Holder

Shank	E	F	D	L	Stroke C	Weight kg
20 mm	6.4	24.5	62	128	12	1.6
25 mm						
3/4″						
1"						
No.3 Morse						
25mm	6.4	40	86	172	18	3.4
1"						

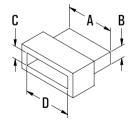
Collets	D	d	L	Stroke C	Weight kg
ER16	62	28	138	12	1.6
ER25	86	42	190	18	3.4

Note: The impact force of each marking head may be adjusted by turning its knurled sleeve. For softer materials like plastic we also have the ability to delive a Marking Head with lighter springs Spring sets for greater force are also available. Please just let us know the details about your specific application for a recommendation.

Z	Order code 26 Letters	Order code 10 Numbers	Order code Blank Spacer
22.2	5707111006	5707101000	5707014002
22.2	5707112009	5707102003	5707014002
22.2	5707113001	5707103006	5707015005
22.2	5707114004	5707104009	5707016008
22.2	5707115007	5707105001	5707017000
22.2	5707120001	5707118008	5707021008
22.2	5707117002	5707106004	5707018003
19	5707950 *	5707951 *	5707952 *

Note: To order individual letters or numbers please use the set order code shown above





effectivity JAPMATTC'

NEW DeBurr-Z CNC Deburring Tool with

Compression and Extension Float

- Deburr parts quickly and consistently on the CNC machine eliminating the need for tedious hand work.
- The Deburr-Z floats in both compression and extension allowing the cutting tool to follow the top edges or underside edges of the work piece, even when these are not clearly defined like in the case of castings and cross holes.
- Adjust the force to increase or decrease the pressure depending on the type of material and desired edge break.
- A wide range of bur cutting tools are available to suit your particular application.
- Also recommended for engraving. The compression float allows a faster approach to the work piece, and marking on curved surfaces.

Deburr-Z

CNC axial floating tool holder for deburring and chamfering. Here are a few example applications.

Deburring Top Edges



Underside Edges



Chamfering holes on a curved surface presents a problem for conventional methods.







E effectivity

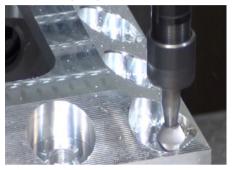
DeBurr-Z

Order Code 57301

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Intersecting Edges



Usina a standard countersink tool results in inconsistent edge breaks.

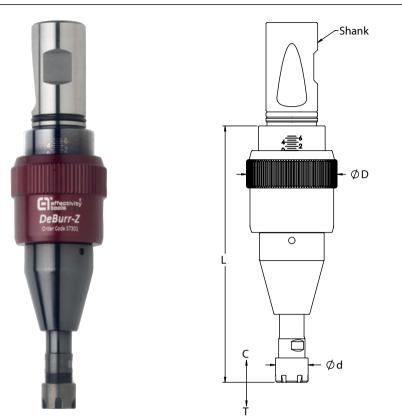
Going around the holes with the axially floating DeBurr-Z produces consistent results.



The DeBurr-Z can also be used for engraving. It allows a faster approach to the work piece and the ability to mark on curved surfaces. We offer combination deburring/engraving cutting tools.



CNC tool holder for deburring and chamfering



■ for deburring, and chamfering on CNC machines.

- floats in compression and extension for deburring the topside or underside edges of the work piece.
- the floating holder allows the cutting tool to follow the edges of the work piece even when these are not clearly defined like in the case of castings or cross holes.
- improves the life of cutting tools thanks to the adjustable compression force.
- speeds up the process by allowing faster approach feed rates.
- the compression and extension force can be simultaneously and equally adjusted for increasing or decreasing the pressure of the cutting tool against the work piece. ER11 collet holds a wide variety of burr
- cutting tools.
- easy programming and installation on the CNC machine.

How to Order

Please select the DeBurr-Z (A) and shank (B) to fit your application. Please order ER11 collets and Burrs separately.

(A)	Model	Order code	Shank	Collets (Capacity)	Max. RPM	Compression C	Extension T	d	D	L	Weight kg
	DeBurr-Z	57301	1"	ER11 (2.5-6.5)	10,000	10	10	16	44	128	0.7
	57320	20 mm									
		57325	25 mm								

Note: All dimensions are shown in mm. 25.4mm = 1".

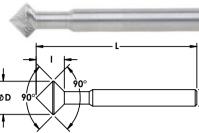
The above tools all include shanks with weldon flats. We do also offer a 20mm shank without flats, please use Order code 57320CY.

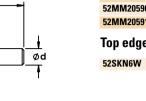
We also offer kits for each of the above tools that include the DeBurr-Z, collet for 6.4mm, and one 12.7mm universal ball shape bur. To specify please add 'K' to the end of the above Order codes.

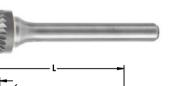
Deburr-Z

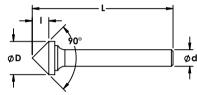
Bur Cutting Tools for use with the DeBurr-Z

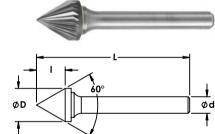
We recommend spherical and angular shaped burs. These are available in a variety of sizes, shapes and tooth patterns, from different manufacturers. Below are examples of some of the burs we offer. These are all carbide tools which can be used for a variety of work piece materials including steel, aluminum and cast iron. Please let us know if your application requires a different size or shape. We would be pleased to help.











Order code

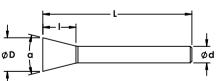
52SK3W

52SK5W

Order code 52SJ3W

52SJ5W

Order code 52SN5W



ød

52SD2W 52SD3W 52SD3WL6 52SD5W 52SD5WL6 52SD6W 52SD7W

Order code



42

Pages 51







Interchangeable

Page 54



Top edge and underside edge deburring and engraving.

Order code	D	d	L	I
52MM20590W	9.5 (3/8")	6.4	58.5	17
52MM20591W	12.7 (1/2")	6.4	61.5	20

Top edge and underside edge deburring.

1	5.9 (5/8")	6.4	60.2	15

Top edge deburring

e	D	d	L	I
	9.5 (3/8")	6.4	52.4	4.8
	12.7 (1/2")	6.4	54.0	6.4

Top edge deburring.

e	D	d	L	I
	9.5 (3/8")	6.4	54.0	8.0
	12.7 (1/2")	6.4	58.7	11.0

Underside edge deburring.

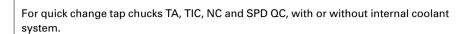
e	D	d	L	I	а
	12.7 (1/2")	6.4	57.0	12.7	28°

Top edge and underside edge deburring.

e	D	d	L	I
	6.4 (1/4")	3.2	44.5	5.5
	9.5 (3/8")	6.4	52.4	8.0
i	9.5 (3/8")	6.4	160.4	8.0
	12.7 (1/2")	6.4	54.0	11.0
i	12.7 (1/2")	6.4	163.5	11.0
	15.9 (5/8")	6.4	57.0	14.3
	19.0 (3/4")	6.4	63.5	17.5





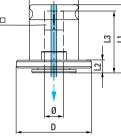


Features and Advantages

Product range – Adapters

- equally appropriate for taps with internal coolant no pre-selective torque drive
- suitable for right and left hand tapping

Model	Adapter Size	Dimensions	Dimensions				
		d mm	L1 mm	D mm	L2 mm		
P0	0	13	26.5	22	7		
P1	1	19	28.5	30	7		
P2	2	31	46.5	48	11		
P3	3	48	68.5	70	14		
P4	4	60	105.0	92	42		

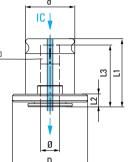


Тар	Shank Ø inch	Square inch	Order code P0	Order code P1	Order code P2	Order code P3	Order code P4
#0 - #6	.141	.110	1001	1006			
#8	.168	.131	1002	1007			
#10	.194	.152	1003	1008	1016		
#12	.220	.165	1004	1009			
1/4"	.255	.191	1005	1010	1017		
5/16"	.318	.238		1012	1018		
3/8"	.381	.286		1013	1019		
7/16"	.323	.242		1014	1020		
1/2"	.367	.275		1015	1021		
9/16"	.429	.322		10155	1022		
1/8" Pipe	.313	.234		10166	10266		
1/8" Pipe	.438	.328		10177	10277		
5/8"	.480	.360			1023		
11/16"	.542	.406			1024		
3/4"	.590	.442			1025		10392
13/16"	.652	.489			1026	1031	
7/8"	.697	.523			1027	1032	
1/4" Pipe	.562	.421			10288		
3/8" Pipe	.700	.531			10299	10386	
1/2" Pipe	.687	.515			10300	10387	
15/16"	.760	.570				1033	
1"	.800	.600				1034	10391
1 1/8"	.896	.672				1035	10393
1 1/4"	1.021	.766				1036	1039
1 3/8"	1.108	.831				1037	1040
3/4" Pipe	.906	.679				10388	10440
1" Pipe	1.125	.843				10389	10442
1 1/2"	1.233	.925					1041
1 5/8"	1.305	.979					1042
1 3/4"	1.430	1.072					1043
1 7/8"	1.519	1.139					10435
1 1/4" Pipe	1.312	.984					10444
1 1/2" Pipe	1.500	1.125					10455
2"	1.644	1.233					1044



Ρ





system.

Features and Advantages equally appropriate for taps with internal coolant no pre-selective torque drive suitable for right and left hand tapping

Model	Adapter Size	Dimensions			
		d mm	L1 mm	D mm	L2 mm
PO	0	13	26.5	22	7
P1	1	19	28.5	30	7
P2	2	31	46.5	48	11
P3	3	48	68.5	70	14
P4	4	60	105.0	92	42

Quick change adapters, positive drive metric sizes

Тар	Shank Ømm
M2, M2.5, M4	2.8
M3, M5	3.5
M3.5	4
M4	4.5
M4, M4.5	5
M4.5, M5, M6, M8	6
M8	8
M7, M9, M10	7
M12	9
M10	10
M14	11
M16	12
M18	14
M20	16
M22, M24, M25, M26	18
M27, M28	20
M30, M32	22
M33	25
M34, M35, M36, M38	28
M39, M40, M42	32
M45, M48, M50	36

Note: Version with (*) only suitable for light processing

Note: other sizes available on request.

essories Acc



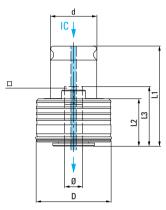
For quick change tap chucks TA, TIC, NC and SPD QC with or without internal coolant

Square mm	Order code P0	Order code P1	Order code P2	Order code P3	Order code P4
2.1	P0-028021				
2.7	P0-035027	P1-035027			
3	P0-040030	P1-040030			
3.4	P0-045034	P1-045034			
4	P0-050040	P1-050040			
4.9	P0-060049	P1-060049	P2-060049		
6.2	P0-080062*	P1-080062	P2-080062		
5.5	P0-070055*	P1-070055	P2-070055		
7		P1-090070	P2-090070		
8		P1-100080	P2-100080		
9		P1-110090	P2-110090	P3-110090	
9			P2-120090	P3-120090	
11			P2-140110	P3-140110	
12			P2-160120	P3-160120	
14.5			P2-180145	P3-180145	P4-180145
16				P3-200160	P4-200160
18				P3-220180	P4-220180
20				P3-250200	P4-250200
22				P3-280220	P4-280220
24					P4-320240
29					P4-360290



Quick-change adapters, with pre-selective torque drive *inch sizes*





For quick change tap chucks TA, TIC, NC and SPD QC, with or without internal coolant system. A pre-selective torque drive protects the tap from breakage.

Features and Advantages

equally appropriate for taps with internal coolant with pre-selective torque drive

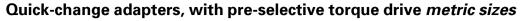
suitable for right and left hand tapping

Model Adapter Size Dimensions

		d mm	L1 mm	D mm	L2 mm
TCO	0	13	40.5	23	21
TC1	1	19	46.5	32	25
TC2	2	31	69	50	34
TC3	3	48	100.5	72	45
TC4	4	60	131	95	68

Product range – Adapters with torque control

Тар	Shank Ø inch	Square inch	Order code TCO	Order code TC1	Order code TC2	Order code TC3	Order code TC 4
#0 - #6	.141	.110	1046	1051			
#8	.168	.131	1047	1052			
#10	.194	.152	1048	1053			
#12	.220	.165	1049	1054			
1/4"	.255	.191	1050	1055	10614		
5/16"	.318	.238		1056	1062		
3/8"	.381	.286		1057	1063		
7/16"	.323	.242		1058	1064		
1/2"	.367	.275		1059	1065		
9/16"	.429	.322		10595	1066		
1/8" Pipe	.313	.234		10600			
1/8" Pipe	.438	.328		10611			
5/8"	.480	.360			1067		
11/16"	.542	.406			1068		
3/4"	.590	.442			1069	1074	
13/16"	.652	.489			1070	1075	
7/8"	.697	.523			1071	1076	
1/4" Pipe	.562	.421			10722		
3/8" Pipe	.700	.531			10733	1082	
1/2" Pipe	.687	.515			10744	10821	
15/16"	.760	.570				1077	
1"	.800	.600			10711	1078	10835
1 1/8"	.896	.672				1079	10836
1 1/4"	1.021	.766				1080	10837
1 3/8"	1.108	.831				1081	1084
3/4" Pipe	.906	.679				10822	10880
1" Pipe	1.125	.843				10833	10882
1 1/2"	1.233	.925					1085
1 5/8"	1.305	.979					1086
1 3/4"	1.430	1.072					1087
1 7/8"	1.519	1.139					10875
1 1/4" Pipe	1.312	.984					10899
1 1/2" Pipe	1.500	1.125					10900





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TCO TC1 TC2 TC3 TC4

Model

Тар	Shank Ø mm	Square mm	Order code TCO	Order code TC1	Order code TC2	Order code TC3	Order code TC4
M2, M2.5, M4	2.8	2.1	TC0-028021				
M3, M5	3.5	2.7	TC0-035027	TC1-035027			
M3.5	4	3	TC0-040030	TC1-040030			
M4	4.5	3.4	TC0-045034	TC1-045034			
M4, M4.5	5	4	TC0-050040	TC1-050040			
M4.5, M5, M6, M8	6	4.9	TC0-060049	TC1-060049	TC2-060049		
M8	8	6.2	TC0-080062*	TC1-080062	TC2-080062		
M7, M9, M10	7	5.5	TC0-070055*	TC1-070055	TC2-070055		
M12	9	7		TC1-090070	TC2-090070		
M10	10	8		TC1-100080	TC2-100080		
M14	11	9		TC1-110090	TC2-110090	TC3-110090	
M16	12	9			TC2-120090	TC3-120090	
M18	14	11			TC2-140110	TC3-140110	
M20	16	12			TC2-160120	TC3-160120	
M22, M24, M25, M26	18	14.5			TC2-180145	TC3-180145	TC4-180145
M27, M28	20	16				TC3-200160	TC4-200160
M30, M32	22	18				TC3-220180	TC4-220180
M33	25	20				TC3-250200	TC4-250200
M34, M35, M36, M38	28	22				TC3-280220	TC4-280220
M39, M40, M42	32	24					TC4-320240
M45, M48, M50	36	29					TC4-360290



For quick change tap chucks TA, TIC, NC and SPD QC, with or without internal coolant system. A pre-selective torque drive protects the tap from breakage.

Features and Advantages

4

equally appropriate for taps with internal coolant with pre-selective torque drive suitable for right and left hand tapping

Adapter Size	Dimensions			
	d mm	L1 mm	D mm	L2 mm
0	13	40.5	23	21
1	19	46.5	32	25
2	31	69	50	34
3	48	100.5	72	45
4	60	131	95	68

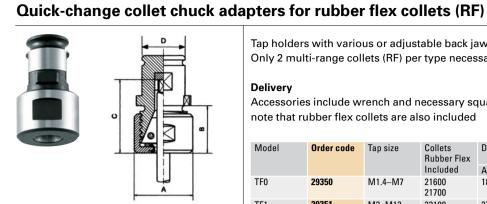
Product range – Adapters with torque control

Note: Version with (*) only suitable for light processing



ER-GB

Steel collets ER-GB with inner square *metric sizes*

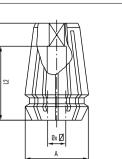


Tap holders with various or adjustable back jaws for quick change tap chucks TA and NC. Only 2 multi-range collets (RF) per type necessary to cover capacity.

Delivery

Accessories include wrench and necessary square drives for the specified capacity. Please note that rubber flex collets are also included

Model	Order code	Tap size	Collets Rubber Flex	Dimensions			
			Included	Amm	Bmm	C mm	D mm
TF0	29350	M1.4–M7	21600 21700	18.6	18.6	21.0	13
TF1	29351	M3–M12	22100 22200	27.4	18.6	27.0	19
TF2	29352	M5–M18	24100 24500	37.2	24.6	38.1	31
TF3	29353	M10–M30	26100 26200	54.0	31.8	50.5	48



ER11GB	
	F
Order code	S
GB111028	2
GB111035	3
GB111045	4
GB111050	5
GB111060	6
ER16GB	
	A
Order code	S
GB116040	4
GB116045	4
GB116050	5
GB116053	5
GB116055	5
GB116065	6
GB116060	6
GB116062	6
GB116063	6
GB116070	7
GB116071	7
GB116080	8
GB116085	8

GB116090

ER20GB

Order code GB120040 GB120045 GB120050 GB120053 GB120055 GB120065 GB120060

Rubber Flex multi-range collets



Rubber Flex collets for TAPMATIC tapping attachments and chucks.
 Tapping
 RF Collet Clamping
 Tap Capacity
 Tap Capacity
 Standard or

Head capacity	Order code	Capacity (mm)	Metric Sizes (DIN 371, 374)	Inch Sizes	Special Size
M1.4 - M7	21500	1.0-2.5	M1.6	None	Special
#0 - 1/4"	21600	2.5-4.5	M1.6-M4	#0-#8	Standard
	21700	4.5-6.5	M4-M6	#10-1/4"	Standard
M3 - M12	22000	4.5-8.0	M4-M10	#10-1/4"	Special
#6 - 1/2"	22100	3.5-6.5	M3-M6	#0-1/4"	Standard
	22200	6.5-10.0	M7-M12	5/16"-1/2"	Standard
	22300	2.0-4.5	M1.6-M4	#0-#8	Special
M5 - M18	24000	7.0-13.0	M7-M16	5/16"-5/8"	Special
#10 - 3/4"	24100	4.5-10.0	M4-M12	#10-1/2"	Standard
	24300	2.8-7.0	M2-M7	#0-1/4""	Special
	24500	9.0-15.0	M10-M18	1/2"-3/4"	Standard
M10 - M30	26100	10.0-16.0	M10, M14-M20	9/16"-3/4"	Standard
1/2" - 1 1/8	26200	16.0-23.0	M20-M30	13/16"-1 1/8"	Standard

GB120062
GB120063
GB120070
GB120071
GB120080
GB120085
GB120090
GB120100
GB120105
GB120110
GB120112
GB120120
ER25GB
Order code
Order code GB125040
GB125040
GB125040 GB125045
GB125040 GB125045 GB125050
GB125040 GB125045 GB125050 GB125053
GB125040 GB125045 GB125050 GB125053 GB125055
GB125040 GB125045 GB125050 GB125053 GB125055 GB125065
GB125040 GB125045 GB125050 GB125053 GB125055 GB125065 GB125060
GB125040 GB125045 GB125050 GB125053 GB125055 GB125065 GB125060 GB125060 GB125062
GB125040 GB125045 GB125050 GB125053 GB125055 GB125065 GB125060 GB125062 GB125063

GB125080 GB125085 GB125090 GB125100 GB125105 GB125110

GB125112 GB125120 GB125125

GB125140 GB125150 GB125160



Collets to DIN 6499B with inner square for positive drive of tap square.

A = 11.5 mm B = 1	17.0 mm
Shank mm	Square mm
2.8	2.1
3.5	2.7
4.5	3.4
5.0	4.0
6.0	4.9
A = 17.0 mm B = 2	27.5 mm
Shank mm	Square mm
4.0	3.15/3.2
4.5	3.4
5.0	4.0
5.5	4.3
5.5	4.5
6.0	4.5
6.0	4.9
6.2	5.0
6.3	5.0
7.0	5.5
7.1	5.6
8.0	6.2/6.3
8.5	6.5
9.0	7.0/7.1

A = 21.0 mm B = 3	31.5 mm
Shank mm	Square mm
4.0	3.15/3.2
4.5	3.4
5.0	4.0
5.5	4.3
5.5	4.5
6.0	4.5
6.0	4.9
6.2	5.0
6.3	5.0
7.0	5.5
7.1	5.6
8.0	6.2/6.3
8.5	6.5
9.0	7.0/7.1
10.0	8.0
10.5	8.0
11.0	9.0
11.2	9.0
12.0	9.0

A = 26.0 mm	B = 3	34.0 mm
Shank mm		Square mm
4.0		3.15/3.2
4.5		3.4
5.0		4.0
5.5		4.3
5.5		4.5
6.0		4.5
6.0		4.9
6.2		5.0
6.3		5.0
7.0		5.5
7.1		5.6
8.0		6.2/6.3
8.5		6.5
9.0		7.0/7.1
10.0		8.0
10.5		8.0
11.0		9.0
11.2		9.0
12.0		9.0
12.5		10.0
14.0		11.0/11.2
15.0		12.0
16.0		12.0

ER32GB		
	A = 33.0 mm B = 4	
Order code	Shank mm	Square mm
GB132040	4.0	3.15/3.2
GB132045	4.5	3.4
GB132050	5.0	4.0
GB132053	5.5	4.3
GB132055	5.5	4.5
GB132065	6.0	4.5
GB132060	6.0	4.9
GB132062	6.2	5.0
GB132063	6.3	5.0
GB132070	7.0	5.5
GB132071	7.1	5.6
GB132080	8.0	6.2/6.3
GB132085	8.5	6.5
GB132090	9.0	7.0/7.1
GB132100	10.0	8.0
GB132105	10.5	8.0
GB132105 GB132110	11.0	9.0
GB132110 GB132112	11.2	9.0
GB132112 GB132120		
GB132120 GB132125	12.0	9.0
	12.5	10.0
GB132140	14.0	11.0/11.2
GB132150	15.0	12.0
GB132160	16.0	12.0
GB132170	17.0	13.0
GB132180	18.0	14.0/14.5
GB132200	20.0	16.0
55		
ER40GB		
		46.0 mm
Order code	Shank mm	Square mm
Order code GB140065	Shank mm 6.0	Square mm 4.5
Order code GB140065 GB140060	Shank mm 6.0 6.0	Square mm 4.5 4.9
Order code GB140065 GB140060 GB140062	Shank mm 6.0 6.0 6.2	Square mm 4.5 4.9 5.0
Order code GB140065 GB140060 GB140062 GB140063	Shank mm 6.0 6.0 6.2 6.3	Square mm 4.5 4.9 5.0 5.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070	Shank mm 6.0 6.0 6.2 6.3 7.0	Square mm 4.5 4.9 5.0 5.0 5.5
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140071	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1	Square mm 4.5 4.9 5.0 5.0 5.5 5.5 5.6
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140071 GB140080	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0	Square mm 4.5 4.9 5.0 5.5 5.5 5.6 6.2/6.3
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140071	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1	Square mm 4.5 4.9 5.0 5.0 5.5 5.5 5.6
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140071 GB140080 GB140085 GB140090	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0	Square mm 4.5 4.9 5.0 5.5 5.5 5.6 6.2/6.3 6.5 7.0/7.1
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100	Shank mm 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140071 GB140080 GB140085 GB140090	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0	Square mm 4.5 4.9 5.0 5.5 5.5 5.6 6.2/6.3 6.5 7.0/7.1
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100	Shank mm 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140105	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0
Order code GB140065 GB140060 GB140062 GB140063 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140105 GB140110	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140105 GB140105 GB140110 GB140112	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 9.0 9.0 9.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140105 GB140110 GB140112 GB140120	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 9.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140105 GB140110 GB140110 GB140112 GB140120 GB140125	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5	Square mm 4.5 4.9 5.0 5.5 5.5 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 9.0 9.0 10.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140080 GB140090 GB140100 GB140105 GB140110 GB140112 GB140120 GB140125 GB140140	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5 14.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 10.0 11.0/11.2
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140085 GB140090 GB140100 GB140100 GB140105 GB140110 GB140125 GB140125 GB140140 GB140150	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140080 GB140080 GB140090 GB140100 GB140100 GB140105 GB140110 GB140112 GB140125 GB140140 GB140150 GB140150 GB140160	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 9.0 9.0 9.0 9.0 9.0 11.0/11.2 12.0 13.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140080 GB140090 GB140105 GB140105 GB140112 GB140125 GB140125 GB140150 GB140150 GB140150 GB140160 GB140170	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0 18.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0 12.0 13.0 14.0/14.5
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140100 GB140102 GB140112 GB140120 GB140125 GB140140 GB140170 GB140170 GB140180 GB141200	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0 18.0 20.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0 13.0 14.0/14.5 16.0
Order code GB140065 GB140060 GB140062 GB140062 GB140070 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140105 GB140100 GB140112 GB140125 GB140125 GB140150 GB140160 GB140170 GB140170 GB140180	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0 18.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0 12.0 13.0 14.0/14.5
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140085 GB140090 GB140100 GB140105 GB140100 GB140112 GB140125 GB140125 GB140125 GB140125 GB140125 GB140125 GB140125 GB140120 GB140120 GB140120 GB141220	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0 18.0 20.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 8.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0 13.0 14.0/14.5 16.0
Order code GB140065 GB140060 GB140062 GB140063 GB140070 GB140070 GB140070 GB140080 GB140085 GB140090 GB140100 GB140100 GB140102 GB140112 GB140120 GB140125 GB140140 GB140170 GB140170 GB140180 GB141200	Shank mm 6.0 6.0 6.2 6.3 7.0 7.1 8.0 8.5 9.0 10.5 11.0 11.2 12.0 12.5 14.0 15.0 16.0 17.0 18.0 20.0	Square mm 4.5 4.9 5.0 5.5 5.6 6.2/6.3 6.5 7.0/7.1 8.0 9.0 9.0 9.0 9.0 9.0 10.0 11.0/11.2 12.0 12.0 13.0 14.0/14.5 16.0 18.0

	A = 60.0 mm	B = 52.0 mm
Order code	Shank mm	Square mm
GB150220	22.0	18.0
GB150250	25.0	20.0
GB150280	28.0	22.0
GB150320	32.0	24.0

ER-GB

www.tapmatic.com



ER

Steel collets ER-GB with inner square inch sizes

21005 #8 1.68 1.31 6.29 1.083 7.09 21006 #10 1.94 1.52 6.29 1.083 7.09 21008 #12 2.20 1.65 6.29 1.083 7.09 21010 1/4" .255 1.91 6.29 1.083 .709 21012 5/16" .318 .238 6.29 1.083 .866 21014 7/16" .323 .242 .629 1.083 .866 ER20GB	ER11GB						
21000 #0 - #6 141 110 444 708 472 21001 #8 168 131 444 708 557 21002 #10 194 152 444 708 557 ER16GB	Ordon and	Tan aire	Shank in al	Square in al-	٨	D	10
21001 #9 .168 .131 .444 .708 .551 21002 #10 .194 .152 .444 .708 .551 ER16GB #0 - #6 .141 .110 .629 1.083 .708 21004 #0 - #6 .141 .110 .629 1.083 .703 21005 #8 .168 .131 .629 1.083 .703 21006 #10 .194 .152 .629 1.083 .703 21012 .5/16" .318 .238 .629 1.083 .866 ER20GB Drder code Tap size Shank inch Square inch A B L2 21014 .716" .323 .242 .629 1.083 .866 ER20GB .1240 .700 .787 1.240 .700 21021 #10 .194 .152 .787 1.240 .700 21022 1/4" .255							
21002 #10 .194 .152 .444 .708 .551 ER16GB Tap size Shank inch Square inch A B L2 21004 #0 - #6 .141 .110 .629 1.083 .703 21005 #8 .168 .131 .629 1.083 .703 21006 #10 .194 .152 .629 1.083 .703 21008 #12 .200 .165 .629 1.083 .703 21010 1/4" .255 .191 .629 1.083 .866 21011 .716" .323 .242 .629 1.083 .866 ER20GB E .716" .323 .242 .629 1.083 .666 10201 #10 .194 .152 .787 1.240 .703 21021 .716" .323 .242 .787 1.240 .703 21022 .1/16" .318 .							
Brider code Tap size Shank inch Square inch A B L2 21005 #8 168 131 629 1.083 .703 21005 #8 168 131 629 1.083 .703 21006 #10 1.94 1.52 .629 1.083 .703 21010 1/4* .255 1.91 .629 1.083 .703 21011 7/16* .323 .242 .629 1.083 .866 21014 7/16* .323 .242 .629 1.083 .866 21020 #10 .194 .152 .787 1.240 .703 21021 #12 .200 .165 .787 1.240 .703 21021 #12 .201 .155 .787 1.240 .703 21022 1/4* .255 .191 .787 1.240 .704 21022 1/4* .255 .191 .984 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Drder code Tap size Shank inch Square inch A B L2 21004 #0 #6 .141 .110 .629 1.083 .700 21005 #8 .168 .131 .629 1.083 .700 21006 #10 .194 .152 .629 1.083 .700 21008 #12 .220 .165 .629 1.083 .700 21010 1/4" .255 .191 .629 1.083 .866 21012 5/16" .318 .238 .629 1.083 .866 ER20GB - .716" .323 .242 .629 1.083 .866 12102 #10 .194 .152 .787 1.240 .700 21021 #12 .200 .165 .787 1.240 .700 21022 1/4" .255 .191 .787 1.240 .866 21022 1/4" .255 </td <td>21002</td> <td>#IU</td> <td>.194</td> <td>.152</td> <td>.444</td> <td>.708</td> <td>.551</td>	21002	#IU	.194	.152	.444	.708	.551
21004 #0 - #6 .141 .110 .629 1.083 .703 1005 #8 .168 .131 .629 1.083 .703 1006 #10 .194 .152 .629 1.083 .703 1006 #12 .220 .165 .629 1.083 .703 1012 5/16" .318 .238 .629 1.083 .666 1014 .716" .323 .242 .629 1.083 .666 1014 .716" .323 .242 .629 1.083 .666 1014 .716" .323 .242 .629 1.083 .666 1021 #10 .194 .152 .787 1.240 .703 1021 #12 .200 .165 .787 1.240 .703 1022 1/4" .255 .191 .787 1.240 .666 1024 .716" .318 .238 .787	R16GB						
21004 #0 - #6 .141 .110 .629 1.083 .703 21005 #8 .168 .131 .629 1.083 .703 21006 #10 .194 .152 .629 1.083 .703 21006 #12 .220 .165 .629 1.083 .703 21012 5/16" .318 .238 .629 1.083 .666 21014 .716" .323 .242 .629 1.083 .666 21014 .716" .323 .242 .629 1.083 .666 21020 #10 .194 .152 .787 1.240 .703 21021 #12 .200 .165 .787 1.240 .703 21021 #14" .255 .191 .787 1.240 .703 21022 1/4" .255 .191 .787 1.240 .666 21024 .716" .318 .238 .787 <td>Order code</td> <td>Tan size</td> <td>Shank inch</td> <td>Square inch</td> <td>Δ</td> <td>В</td> <td>12</td>	Order code	Tan size	Shank inch	Square inch	Δ	В	12
Proof #8 .168 .131 .629 1.083 .703 Proof #10 .194 .152 .629 1.083 .703 Proof #12 .220 .165 .629 1.083 .703 Proof #12 .220 .165 .629 1.083 .703 Proof 5/16" .318 .238 .629 1.083 .666 Proof 7/16" .323 .242 .629 1.083 .666 R20GB #8 .168 .131 .787 1.240 .703 Proof #8 .168 .131 .787 1.240 .703 Proof #10 .194 .152 .787 1.240 .706 Proof .318 .238 .787 1.240 .706 Proof .312 .232 .242 .787 1.240 .866 Proof .16" .318 .238 .798 1.240							.709
Prob #10 .194 .152 .629 1.083 .703 Prob #12 .220 .165 .629 1.083 .703 Prob #12 .220 .165 .629 1.083 .703 Prob .111 .716" .318 .238 .629 1.083 .606 Prob .111 .716" .323 .242 .629 1.083 .666 R20GB							.709
Prob #12 220 165 629 1.083 703 Proter 5/16" 318 238 629 1.083 .666 Proter 7/16" 323 .242 .629 1.083 .666 Proter Tap size Shank inch Square inch A B L2 Proter Tap size Shank inch Square inch A B L2 Proter Tap size Shank inch Square inch A B L2 Proter 200 .165 .787 1.240 .703 Proter 1/4" .255 .191 .787 1.240 .703 Proter 3/16" .381 .286 .787 1.240 .866 Proter 1/2" .367 .240 .866 .787 1.240 .866 Proter 1/2" .367 .242 .787 1.240 .866 Proter Tap size Shank inch							.709
Protocol 1/4" 255 191 629 1.083 703 Proter code 5/16" 318 238 629 1.083 866 R20GB Tap size Shank inch Square inch A B L2 Proter code #8 168 131 787 1.240 703 Proter code #10 194 152 .787 1.240 703 Proter code #10 194 152 .787 1.240 .703 Proter code #10 .194 .152 .787 1.240 .703 Proter code 716" .323 .242 .787 1.240 .866 Proter code 7/16" .323 .242 .787 1.240 .866 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter c							.709
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Prior .323 .242 .629 1.083 .866 Brider code Tap size Shank inch Square inch A B L2 Prider code Tap size Shank inch Square inch A B L2 Prider code Tap size Shank inch Square inch A B L2 Prider code Tap size Shank inch Square inch A B L2 Prider code Tap size Shank inch Square inch A B L2 Pride J2 225 191 787 1.240 .866 Pride J2 367 2.242 787 1.240 .866 Pride J2 .367 .242 .866 .27 .275 .287 .240 .866 Prider code Tap size Shank inch Square inch A B L2 Prider code Tap size Shank inch Square inch A B L2							
Tap size Shank inch Square inch A B L2 P1019 #8 1.68 1.31 787 1.240 703 P1020 #10 1.94 1.52 7.87 1.240 703 P1021 #12 2.20 1.65 7.87 1.240 703 P1022 1/4" 2.55 1.91 7.87 1.240 703 P1023 5/16" 3.18 .238 7.87 1.240 .866 P1025 1/2" .367 .275 .787 1.240 .866 P1026 3/8" .381 .286 .787 1.240 .866 P1027 1/16" Pipe .3125 .234 .787 1.240 .866 P1029 5/16" .318 .238 .984 1.338 .866 P1031 1/4" .255 .191 .984 1.338 .866 P1032 1/2" .367 .275 .984 1.							.866
Drder code Tap size Shank inch Square inch A B L2 21019 #8 168 131 787 1.240 703 21020 #10 .194 .152 .787 1.240 703 21021 #12 .20 .165 .787 1.240 .703 21022 1/4" .255 .191 .787 1.240 .703 21023 5/16" .318 .238 .787 1.240 .866 21025 1/2" .367 .275 .787 1.240 .866 21026 3/8" .381 .286 .787 1.240 .866 21027 1/16" Pipe .3125 .234 .787 1.240 .866 21029 5/16" .318 .238 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21031 1/4" .255 .191	Basan						
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1/4" .255 .191 .787 1.240 .705 1023 5/16" .318 .238 .787 1.240 .866 1024 7/16" .323 .242 .787 1.240 .866 1025 1/2" .367 .275 .787 1.240 .866 1026 3/8" .381 .286 .787 1.240 .866 1027 1/16" Pipe .3125 .234 .787 1.240 .866 1027 1/16" Pipe .3125 .234 .787 1.240 .866 1027 1/16" Pipe .3125 .234 .787 1.240 .866 1028 5/16" .318 .238 .984 1.338 .866 1030 7/16" .323 .242 .984 1.338 .866 1032 1/2" .367 .275 .984 1.338 .984 1033 .96" .331 .286 .984 1.338 .984 1034 .96" .312 .234 .984							.709
21023 5/16" .318 .238 .787 1.240 .866 21024 7/16" .323 .242 .787 1.240 .866 21025 1/2" .367 .275 .787 1.240 .866 21026 3/8" .381 .286 .787 1.240 .866 21027 1/16" Pipe .3125 .234 .787 1.240 .866 21027 1/16" Pipe .3125 .234 .787 1.240 .866 21027 1/16" A255 .191 .984 1.338 .705 21031 1/4" .255 .191 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21034 3/8" .381 .286 .984 1.338 .984 21034 3/8" .480 .360 .984 1.338 .984 21035 1/8" Pipe .312 .234	21021		.220	.165	.787	1.240	.709
Prioze 7/16" .323 .242 .787 1.240 .866 Prioze 1/2" .367 .275 .787 1.240 .866 Prioze 3/8" .381 .286 .787 1.240 .866 Prioze 1/16" Pipe .3125 .234 .787 1.240 .866 Prioze 1/16" Pipe .3125 .234 .787 1.240 .866 Prioze 1/16" Pipe .3125 .234 .787 1.240 .866 Prioze 1/16" A255 .191 .984 1.338 .866 Prioze 5/16" .318 .238 .984 1.338 .866 Prioze 1/2" .367 .275 .984 1.338 .866 Prioze .321 .222 .984 1.338 .984 Prioze .429 .322 .984 1.338 .984 Prioze .421 .984 1.338 .984 1.338	21022	1/4"	.255	.191	.787	1.240	.709
21025 1/2" .367 .275 .787 1.240 .866 12026 3/8" .381 .286 .787 1.240 .866 12027 1/16" Pipe .3125 .234 .787 1.240 .866 12027 1/16" Pipe .3125 .234 .787 1.240 .866 12027 1/16" Pipe .3125 .234 .787 1.240 .866 12031 1/4" .255 .191 .984 1.338 .866 12039 5/16" .318 .238 .984 1.338 .866 12030 7/16" .323 .242 .984 1.338 .866 12034 3/8" .381 .286 .984 1.338 .984 12035 5/8" .480 .360 .984 1.338 .984 12038 5/8" .480 .360 .984 1.338 .984 12038 1/8" Pipe .312 .23			.318	.238	.787	1.240	.866
21026 3/8" .381 .286 .787 1.240 .866 21027 1/16" Pipe .3125 .234 .787 1.240 .866 21027 1/16" Pipe .3125 .234 .787 1.240 .866 21029 5/16" .318 .238 .984 1.338 .705 21029 5/16" .318 .238 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21034 3/8" .381 .286 .984 1.338 .984 21034 3/8" .381 .286 .984 1.338 .984 21035 5/8" .480 .360 .984 1.338 .984 21038 1/8" Pipe .312 .234 .984 1.338 .984 21043 1/4" Pipe .562 .421	21024	7/16"	.323	.242	.787	1.240	.866
Protect 1/16" Pipe .3125 .234 .787 1.240 .866 Creder code Tap size Shank inch Square inch A B L2 1031 1/4" .255 191 .984 1.338 .866 1029 5/16" .318 .238 .984 1.338 .866 1030 7/16" .323 .242 .984 1.338 .866 1032 1/2" .367 .275 .984 1.338 .866 1034 3/8" .381 .286 .984 1.338 .984 1036 9/16" .429 .322 .984 1.338 .984 1038 5/8" .480 .360 .984 1.338 .984 1040 1/16" .542 .406 .984 1.338 .984 1043 1/4" Pipe .312 .234 .984 1.338 .984 1043 1/4" Pipe .562 .421<	21025	1/2"	.367	.275	.787	1.240	.866
R25GB Tap size Shank inch Square inch A B L2 101 1/4" .255 .191 .984 1.338 .709 21029 5/16" .318 .238 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21034 3/8" .381 .286 .984 1.338 .984 21036 9/16" .429 .322 .984 1.338 .984 21036 9/16" .429 .322 .984 1.338 .984 21038 5/8" .480 .360 .984 1.338 .984 21038 5/8" .984 1.338 .984 .1038 .984 21031 1/4" Pipe .562 .421 .984 1.338 .984 21043 1/4" Pipe .562 .911	21026	3/8"	.381	.286	.787	1.240	.866
Drder code Tap size Shank inch Square inch A B L2 21031 1/4" .255 .191 .984 1.338 .700 21029 5/16" .318 .238 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21034 3/8" .381 .286 .984 1.338 .866 21036 9/16" .429 .322 .984 1.338 .984 21038 5/8" .480 .360 .984 1.338 .984 21038 5/8" .480 .360 .984 1.338 .984 21038 5/8" .437 .328 .984 1.338 .984 21043 1/4" Pipe .562 .421 .984 1.338 .984 21043 1/4" 255 .191 1.260<	21027	1/16" Pipe	.3125	.234	.787	1.240	.866
21031 1/4" .255 .191 .984 1.338 .705 21029 5/16" .318 .238 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21030 7/16" .323 .242 .984 1.338 .866 21032 1/2" .367 .275 .984 1.338 .866 21034 3/8" .381 .286 .984 1.338 .984 21035 9/16" .429 .322 .984 1.338 .984 21038 5/8" .480 .360 .984 1.338 .984 21040 11/16" .542 .406 .984 1.338 .984 21043 1/8" Pipe .312 .234 .984 1.338 .984 21043 1/4" Pipe .562 .421 .984 1.338 .984 21044 3/4" .590 .442							
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Product 11/16" .542 .406 .984 1.338 .984 Product 1/8" Pipe .312 .234 .984 1.338 .984 Product 1/8" Pipe .437 .328 .984 1.338 .984 Product 1/4" Pipe .562 .421 .984 1.338 .984 Product 3/4" .590 .442 .984 1.338 .984 Product Tap size Shank inch Square inch A B L2 Product Tap size Shank inch Square inch A B L2 Product 1/4" .255 .191 1.260 1.575 .705 Product 7/6" .318 .238 1.260 1.575 .866 Product 3/8" .381 .286 1.260 1.575 .866 Product 3/8" .381 .286 1.260 1.575 .866 Product .429							
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Image: Second state							.984
Pitoda 1/4" Pipe .562 .421 .984 1.338 .984 21044 3/4" .590 .442 .984 1.338 .984 21044 3/4" .590 .442 .984 1.338 .984 21044 3/4" .590 .442 .984 1.338 .984 21047 1/4" .255 .191 1.260 1.575 .866 21048 5/16" .318 .238 1.260 1.575 .866 21049 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .984 21054 9/16" .429 .322 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360							.866
Protect 3/4" .590 .442 .984 1.338 .984 R32GB Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Proter code Tap size Shank inch Square inch A B L2 Protect Tap size Shank inch Square inch A B L2 Protect Jain .286 1.260 1.575 .866 Protect Jain .286 1.260 1.575 .984 Protect Jain .429 .322 1.260 1.575 .984 Protect Jain							.984
Tap size Shank inch Square inch A B L2 21047 1/4" .255 .191 1.260 1.575 .705 21047 1/4" .255 .191 1.260 1.575 .705 21048 5/16" .318 .238 1.260 1.575 .866 21049 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21064 3/4" .590 .442 .260 1.575 .984 21066 13/16" .652 .489 1.260							.984
Drder code Tap size Shank inch Square inch A B L2 21047 1/4" .255 .191 1.260 1.575 .709 21048 5/16" .318 .238 1.260 1.575 .866 21049 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .48	21044	3/4"	.590	.442	.984	1.338	.984
21047 1/4" .255 .191 1.260 1.575 .705 21048 5/16" .318 .238 1.260 1.575 .866 21048 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .866 21055 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21050 1/116" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523	R32GB						
21047 1/4" .255 .191 1.260 1.575 .705 21048 5/16" .318 .238 1.260 1.575 .866 21048 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .866 21055 5/8" .480 .360 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21050 1/116" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523	Order code	Tap size	Shank inch	Square inch	A	В	L2
21048 5/16" .318 .238 1.260 1.575 .866 21049 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .984 21055 5/8" .480 .360 1.260 1.575 .984 21056 5/8" .480 .360 1.260 1.575 .984 21056 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523	21047	1/4"				1.575	.709
21049 7/16" .323 .242 1.260 1.575 .866 21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .984 21054 9/16" .429 .322 1.260 1.575 .984 21056 5/8" .480 .360 1.260 1.575 .984 21060 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21068 7/8" .697 .523							.866
21052 3/8" .381 .286 1.260 1.575 .866 21050 1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21056 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21066 7/8" .697 .523 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984							.866
1/2" .367 .275 1.260 1.575 .866 21054 9/16" .429 .322 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21060 1/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							.866
21054 9/16" .429 .322 1.260 1.575 .984 21058 5/8" .480 .360 1.260 1.575 .984 21060 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							.866
21058 5/8" .480 .360 1.260 1.575 .984 21060 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							.984
21060 11/16" .542 .406 1.260 1.575 .984 21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							
21064 3/4" .590 .442 1.260 1.575 .984 21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							
21066 13/16" .652 .489 1.260 1.575 .984 21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984							
21068 7/8" .697 .523 1.260 1.575 .984 21056 1/8" Pipe .437 .328 1.260 1.575 .984		-1					
21056 1/8" Pipe .437 .328 1.260 1.575 .984							
1/4 1/10 1.502 .421 1.200 1.5/5 .504	1056	1/8" Pine	437	328	1 260	1 575	98/
21067 1/2" Pine 687 515 1 260 1 575 984							.984

 1.260
 1.575
 .984

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 .102

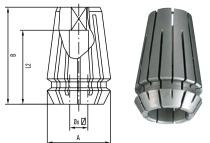
.515

.600

ER40GB						
Order code	Tap size	Shank inch	Square inch	А	В	L2
21104	1/2"	.367	.275	1.575	1.811	.866
21105	3/8"	.381	.286	1.575	1.811	.866
21106	9/16"	.429	.322	1.575	1.811	.984
21107	5/8"	.480	.360	1.575	1.811	.984
21108	11/16"	.542	.406	1.575	1.811	.984
21109	3/4"	.590	.442	1.575	1.811	.984
21110	13/16"	.652	.489	1.575	1.811	.984
21111	7/8"	.697	.523	1.575	1.811	.984
21112	15/16"	.760	.570	1.575	1.811	.984
21113	1"	.800	.600	1.575	1.811	1.102
21117	1 1/8"	.896	.672	1.575	1.811	1.102
21114	1/4" Pipe	.562	.421	1.575	1.811	.984
21115	3/8" Pipe	.700	.531	1.575	1.811	.984
21116	1/2" Pipe	.687	.515	1.575	1.811	.984

ER50GB

Order code	Tap size	Shank inch	Square inch
21137	1"	.800	.600
21138	1 1/8"	.896	.672
21139	1 3/16"	1.021	.766
21140	1 5/16"	1.108	.831
21141	1 7/16"	1.233	.925
21170	1/2" Pipe	.687	.515
21171	3/8" Pipe	.700	.531
21172	3/4" Pipe	.906	.679
21136	1" Pipe	1.125	.843







Ø

ER8						
A = 8.5 mm B = 12.0 mm						
	Capacity					
Order code	Shank Ø m					
20910	1.5–1.0					
20911	2.0-1.5					
20912	2.5-2.0					
20913	3.0-2.5					
20915	3.5–3.0					
20916	4.0-3.5					
20918	4.5-4.0					

ER11		
A = 11.5 mm	B = 17.0 r	nm
Order code		Capacity Shank Ø mr
20929		3.0-2.5
20930		3.5–3.0
20931		4.0-3.5
20932		4.5-4.0
20934		5.0-4.5
20933		5.5-5.0
20935		6.0-5.5
20936		6.5-6.0

ER16		
A = 17.0 mm	B = 27.5 r	nm
Order code		Capacity Shank Ø mr
20940		4.0-3.0
20943		5.0-4.0
20945		6.0-5.0
20946		7.0-6.0
20949		8.0-7.0
20950		9.0-8.0
20953		10.0-9.0

Please note that these collets <u>do not</u> include a square drive. For tapping we recommend the use of ERGB collets, with inner square, whenever possible. All dimensions are shown in mm. 25.4mm = 1"

1/2" Pipe

1"

21067

21070

.687

.800

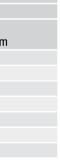


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n			

ER20						
A = 21.0 mm B = 31.5	nm					
Capacity						
Order code	Shank Ø mm					
20983	4.0-3.0					
20984	5.0-4.0					
20985	6.0-5.0					
20977	7.0–6.0					
20986	8.0-7.0					
20978	9.0-8.0					
20979	10.0–9.0					
20980	11.0-10.0					
20981	12.0-11.0					
20982	13.0-12.0					

n		
n		

ER25				
A = 26.0 mm B = 34.0	mm			
	Capacity			
Order code	Shank Ø mm			
20963	5.0-4.0			
20965	7.0–6.0			
20968	9.0-8.0			
20969	10.0–9.0			
20970	11.0–10.0			
20971	12.0–11.0			
20973	13.0–12.0			
20974	14.0–13.0			
20975	15.0–14.0			
20976	16.0–15.0			





16.5-17mm (.650-.670) 70133-170

17.5-18mm (.690-.710) 70133-180

18-18.5mm (.710-.730) 70133-185 **18.5-19mm (.730-.748)** 70133-190 **19-19.5mm (.749-.767)** 70133-195 19.5-20mm (.767-.787) 70133-200

70133-175

17-17.5mm (.670-.690)

Clamping nuts acc. to DIN 6499 standard without internal coolant sealing



Note: For recommended tightening torque, please see page 56.

ØA	
Туре	

Order code	Туре	Amm	Bmm
69318	ER11	19	11.3
69518	ER16	28	17.5
70018	ER20	34	19.0

6-			
Order code	Туре	Amm	Bmm
69918	ER25	42	20.0
71118	ER32	50	22.5
71318	ER40	63	25.5
66018	EB50	78	35.3

Clamping nuts to DIN 6499 for internal coolant system, for use with sealing disks

	ØA B				ØA		
Order code	Туре	Amm	Bmm	Order code	Туре	Amm	Bmm
70116	ER16	28	22.5	70125	ER25	42	25.0
70120	ER20	34	24.5	70132	ER32	50	27.5
				70140	ER40	63	30.5
				66050	ER50	78	42.5

Steel collet seals for use with coolant through steel collet models and sealing disk nuts.

Description #16 Series			Description Description #20 Series Seals #25 Series Seals		Description #32 Series						
Size		Catalog No.	Size		Catalog No.	Size		Catalog No.	Size		Catalog No.
Complete S	Set	70117	Complete S	et	70121	Complete S	et	70126	Complete S	et	70133
3-3.5mm	(.118138)	70117-35	3-3.5mm	(.118138)	70121-35	3-3.5mm	(.118138)	70126-35	3-3.5mm	(.118138)	70133-35
3.5-4mm	(.138157)	70117-40	3.5-4mm	(.138157)	70121-40	3.5-4mm	(.138157)	70126-40	3.5-4mm	(.138157)	70133-40
4-4.5mm	(.157177)	70117-45	4-4.5mm	(.157177)	70121-45	4-4.5mm	(.157177)	70126-45	4-4.5mm	(.157177)	70133-45
4.5-5mm	(.177197)	70117-50	4.5-5mm	(.177197)	70121-50	4.5-5mm	(.177197)	70126-50	4.5-5mm	(.177197)	70133-50
5-5.5mm	(.197217)	70117-55	5-5.5mm	(.197217)	70121-55	5-5.5mm	(.197217)	70126-55	5-5.5mm	(.197217)	70133-55
5.5-6mm	(.217236)	70117-60	5.5-6mm	(.217236)	70121-60	5.5-6mm	(.217236)	70126-60	5.5-6mm	(.217236)	70133-60
6-6.5mm	(.236256)	70117-65	6-6.5mm	(.236256)	70121-65	6-6.5mm	(.236256)	70126-65	6-6.5mm	(.236256)	70133-65
6.5-7mm	(.256276)	70117-70	6.5-7mm	(.256276)	70121-70	6.5-7mm	(.256276)	70126-70	6.5-7mm	(.256276)	70133-70
7-7.5mm	(.276295)	70117-75	7-7.5mm	(.276295)	70121-75	7-7.5mm	(.276295)	70126-75	7-7.5mm	(.276295)	70133-75
7.5-8mm	(.295315)	70117-80	7.5-8mm	(.295315)	70121-80	7.5-8mm	(.295315)	70126-80	7.5-8mm	(.295315)	70133-80
8-8.5mm	(.315335)	70117-85	8-8.5mm	(.315335)	70121-85	8-8.5mm	(.315335)	70126-85	8-8.5mm	(.315335)	70133-85
8.5-9mm	(.335354)	70117-90	8.5-9mm	(.335354)	70121-90	8.5-9mm	(.335354)	70126-90	8.5-9mm	(.335354)	70133-90
9-9.5mm	(.354374)	70117-95	9-9.5mm	(.354374)	70121-95	9-9.5mm	(.354374)	70126-95	9-9.5mm	(.354374)	70133-95
9.5-10mm	(.374394)	70117-100	9.5-10mm	(.374394)	70121-100	9.5-10mm	(.374394)	70126-100	9.5-10mm	(.374394)	70133-100
			10-10.5mm	(.394413)	70121-105	10-10.5mm	(.394413)	70126-105	10-10.5mm	(.394413)	70133-105
			10.5-11mm	(.416433)	70121-110	10.5-11mm	(.416433)	70126-110	10.5-11mm	(.416433)	70133-110
			11-11.5mm	(.433453)	70121-115	11-11.5mm	(.433453)	70126-115	11-11.5mm	(.433453)	70133-115
			11.5-12mm	(.453472)	70121-120	11.5-12mm	(.453472)	70126-120	11.5-12mm	(.453472)	70133-120
			12-12.5mm	(.472492)	70121-125	12-12.5mm	(.472492)	70126-125	12-12.5mm	(.472492)	70133-125
						12.5-13mm	(.492512)	70126-130	12.5-13mm	(.492512)	70133-130
8-7	5	1-11.5	N-4 // 40		1	13-13.5mm	(.512531)	70126-135	13-13.5mm	(.512531)	70133-135
	Note: #40 and #			ISO	13.5-14mm	(.531551)	70126-140	13.5-14mm	(.531551)	70133-140	
			available on	request		14-14.5mm	(.551571)	70126-145	14-14.5mm	(.551571)	70133-145
		-				14.5-15mm	(.571591)	70126-150	14.5-15mm	(.571591)	70133-150
						15-15.5mm	(.591610)	70126-155	15-15.5mm	(.591610)	70133-155
						15.5-16mm	(.610630)	70126-160	15.5-16mm	(.610630)	70133-160
									16-16.5mm	(.630650)	70133-165

Torque Wrenches · Torque Bars

Quill Mount Torque Bars - clamp around quill of machine for use with Manual Tapping Attachments

Order code V-Typ	Diameter	Capacity
29099	38–60 mm 1 1/2″–2 3/8″	M16 1/2″
290991	60–114 mm 2 3/8″–4 1/2″	M18 3/4″

Table Mount Torque Bars – mount to the «T» slots of table

Order code	Tap capacity		Order code	Tap capacity
29096	M33 1 3/4″	0	29097	M18 3/4″



Also available, coolant flush disks for

directing coolant down the tap shank.

on request

52



Torque wrenches. For recomended tightening torque, please see page 56

Clamping dev	ice for ER collet chuck SFT Tools			
	For easy and controlled tightening of nuts		Order code	Model
	for collet chuck holders, without damaging		7150.02025	Torco-Fix 0
24	the tool. For use with SFT10, 50, 75 and 100.		7150.05050	Torco-Fix I
A while			7150.20200	Torco-Fix II
10			7150.60300	Torco-Fix III
	Order code Length mm		7159.09000	TSD 0.9
	285FT132 132 285FT240 240		7133.03000	100 0.0
	collet nut with a torque wrench. See page 56.		Order code 7151.16000 7151.20000 7151.25000 7151.32000 7151.40000	Model A-E 16 A-E 20 A-E 25 A-E 32 A-E 40
			7151.50000 Order code 7152.11010 7152.16010 7152.20010	A-E 50 Model A-E 11 P A-E 16 P A-E 20 P
		CAGA	Order code 7153.08000 7153.11000 7153.16000 7153.20000	Model A-E 8 M A-E 11 M A-E 16 M A-E 20 M

Always mount a torque bar to hold the tapping attachment's stop arm from rotating. The stop arm should not be installed permanently, not under any circumstances be held by hand or fastened with wire. The torque bar must be mounted securely to the table or quill of your machine. The torque bar installation must be stronger than the largest tap in the capacity range of your tapping attachment. Please order Tapmatic torque bars shown.

NC shanks DIN 69871A/D and CAT

Bore d

mm

20

25

40

20

25

40

mm

1"

1"

1"

Bore d

25mm

25mm

1 1/2"

40mm

Bore d

1"

1"

1"

1"

Shank HSK-A Bore d

mm

25

25

40

25

25

40

25mm

25mm

40mm

Dimensions mm

D

45

45

90

72

72

90

D

1.75"

45mm

2.25"

2.75"

70mm

2.75"

70mm

D

1.81"

1.50"

45mm

1.75"

2.75"

70mm

90mm

Dimensions mm

Dimensior

Α

35

35

122

35

35

112

А

1.38"

35mm

1.38"

1.38"

35mm

2.00"

75mm

Α

1.50"

1.38"

35mm

1.38"

1.88"

48mm

110mm

Dimensions mm

D

44

44

72

65

65

80

Order code Shank DIN 69871

SK40

SK40

SK40

SK50

SK50

SK50

Shank

CAT40

CAT40

CAT45

CAT50

CAT50

CAT50

CAT50

Arbors

BT30

BT35

BT40

BT40

BT50

BT50

BT50

HSK50

HSK63

HSK63A

HSK80

HSK100

NMTB40

1"

HSK100A

S-241

S-242

S-244 S-251

S-252

S-254

CAT

23951

23947

23954

23953

23948

23957

23964

Order code

BT

23949

23958 23943

23952

23955

23945 S-354

Order code

S-451

S-461 S-463

S-481 S-411

S-413

23950

Order code



g

M16

M16

M16

M24

M24

M24

q

5/8"-11

5/8"-11

3/4"-10

1"-8

1"-8

1"-8

1"-8

α

M12

M16

M16

M16

M24

M24

M24

А

76

76

120

100 100 105

Weight kg

0.9

0.8

2.6

2.9

2.8

4.9

0.7

0.7

1.6

2.7

2.7

2.7

4.9

Weight kg

0.4

0.4

0.8

0.8

3.6

3.6

5.3

Weight kg

0.8

1.0

2.6

2.7

3.5

4.7

5/8"-11 0.5

Weight kg

Arbors

R8 arbors to Jacobs taper

	Order code	R8	Jacobs Taper
	20833	R-8 Bridgeport	#33 J.T.
	20803	R-8 Bridgeport	#3 J.T.
	20804	R-8 Bridgeport	#4 J.T.

Morse taper arbors to JACOBS taper



Order code	Morse taper	DIN Taper	Length mm	
			L1	L2
20112	MK1	B12	91	22
20116	MK1	B16	98	29
20212	MT2	B12	107	22
20216	MK2	B16	114	29
20218	MK2	B18	122	37
20312	MK3	B12	126	22
20316	MK3	B16	133	29
20318	MK3	B18	141	37
20416	MK4	B16	160	29
20418	MK4	B18	168	37

Morse taper arbors with threaded mount





Straight shank arbors to JACOBS taper



L2	
L1	
	-1

NMTB with threaded mount

	Order code	NMTB	Thread
-	23050	NMTB-30	1/2-20
	24050	NMTB-40	1/2-20
	23087	NMTB-30	7/8-20
	24087	NMTB-40	7/8-20
	23015	NMTB-30	1 1/2-18
	24015	NMTB-40	1 1/2-18
	25015	NMTB-50	1 1/2-18
	29106	NMTB-50	2 1/4-10

Reducing sleeve

Order code	Outside Ø	Inside Ø
23921	1"	3/4"

.039"

	Straight shank	arbors w	vith threade	d mou
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Modular NC shanks HSK-A

NC shanks MAS-BT



Order code	Shank	Bore d	Dimensio	ons mm		Weight k
DIN 2080		mm	D	А	g	
S-141	SK40	20	44	24	M16	0.7
S-142	SK40	25	44	24	M16	0.6
S-151	SK50	20	65	34	M24	2.5
S-152	SK50	25	65	34	M24	2.4
Order code	Shank	Bore d	Dimensio			Weight k

1.75"



R8 arbors with threaded mount



Order code	R8	Thread
20887	R-8 Bridgeport	7/8"-20
20815	R-8 Bridgeport	1 1/2"-18
	0 1	

Order code	Morse taper	JACOBS taper	Length mm	
			L1	L2
20101	MT1	1	86	18
20133	MT1	33	96	26
20206	MT2	6	96	26
20201	MT2	1	103	18
20233	MT2	33	111	26
20203	MT2	3	117	32
20306	MT3	6	117	43
20301	MT3	1	122	18
20333	MT3	33	130	26
20303	MT3	3	136	32
20304	MT3	4	147	43
20433	MT4	33	157	26
20403	MT4	3	162	32
20404	MT4	4	173	43
20504	MT5	4	205	43

Order code	Morse taper Thread		Length mm	
			L1	L2
20150	MT1	1/2-20	87	65.5
20250	MT2	1/2-20	103	80
20287	MT2	7/8-20	100	80
20387	MT3	7/8–20	116	99
20315	MT3	1 1/2–18	118	99
20487	MT4	7/8-20	142	124
20415	MT4	1 1/2–18	118	99
29104	MT4	2 1/4-10		
20515	MT5	1 1/2–18		
29105	MT5	2 1/4-10		

Order code	Straight shank	JACOBS taper	Length mm	
order code	Ømm	SACODS taper	L1	L2
10-33	10	33	64	35
12-33	12	33	64	35
16-33	16	33	64	35
Order code	Straight shank	JACOBS taper		
	Øinch			
25001	1/2"	1		
25006	1/2"	6		
25033	1/2"	33		
25003	1/2"	3		
26233	5/8"	33		
26203	5/8"	3		
27533	3/4"	33		
27503	3/4"	3		
20003	1"	3		

Int

Order code	Straight shank Ø inch	Thread
25037	1/2" S.S.	3/8-24
25050	1/2" S.S.	1/2-20
25087	1/2" S.S.	7/8-20
26287	5/8" S.S.	7/8-20
27587	3/4" S.S.	7/8-20
28787	7/8" S.S.	7/8-20
20087	1" S.S.	7/8-20



WARNING

To Avoid Serious Injury And Ensure Best Results For Your Tapp **Operation, Please Read Carefully All Operator And Safety** Instructions Provided For This Tapping Unit as well as all other safety instructions that are applicable, especially those for you machine tool.

- 1. Proper clothing: The rotating spindle of a machine tool can snag loose fitting clothing, jewelry or long hair. Never wear jewelry, long sleeves, neckties, gloves or anything else that could become caught when operating a machine tool. Long hair must be restrained or netted to prevent it from becomin entangled in rotating spindle.
- 2. Proper eye protection: Always wear safety glasses with side shields to protect your eyes from flying particles.
- **3. Proper work piece fixation**: Never hold the work piece or the vise it is held in, by hand. Never fasten it with wire or anything similar! The work piece must be clamped firmly to the table of the machine so that it cannot move, rotate or lift.
- 4. On machining centers: The same rule for stop arm and stop block installation applies «Always be sure that the installation is stronger than the largest tap.» Automatic tool changes should only be made on enclosed machines.



5. The tapping attachment housing,

drive spindle and tap itself can become hot to the touch after operation. Use caution when removing the attachment from machine or handling.



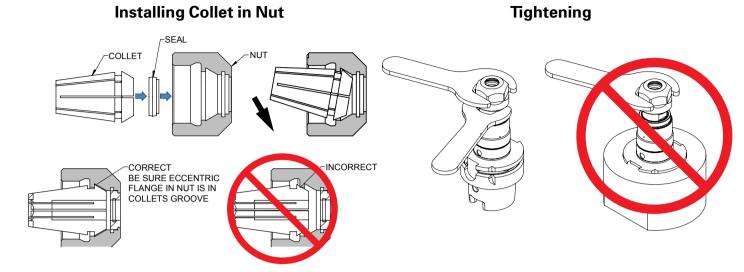
Tapmatic Corporation warrants to original equipment manufacturers, distributors and industrial users of its products, that each new product manufactured or supplied by Tapmatic Corporation shall be free from defects in material and workmanship. Tapmatic Corporation's obligation under this warranty is limited to repairing any product which shall, within one year from the date of sale, be returned freight prepaid to Tapmatic Corporation, Post Falls, Idaho.

Any product returned for inspection for warranty repair consideration must be returned complete with chuck nut, back jaw and if the tool The provision of this warranty shall not apply to any parts of a Tapmatic product subject to conditions, machine setup or application

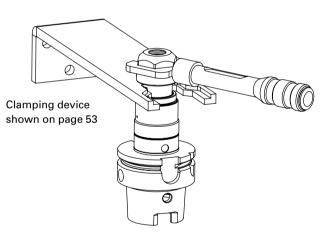
is a reversing unit, stop arm, as well as, complete information as to operating conditions, machine set up and application of cutting fluid. of cutting fluid or which has been repaired or altered if such repair or alteration, which in the judgement of Tapmatic Corporation, would adversely affect the performance of the product.

This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for particular purpose. Tapmatic Corporation shall have no liability or responsibility on any claim of any kind, whether in contract, tort, or otherwise, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery or use of any products sold hereunder in excess of the cost of repair as provided herein. In no event shall Tapmatic Corporation be liable for any special, incedental, or consequential damages.

Tapmatic Corporation makes no other warranties, express or implied, except as set forth above and Tapmatic Corporation neither assumes nor authorizes any other person or entity to assume for it any other obligation or liability in connection with any of its products.



Using a Torque Wrench



Recommended clamping torque in Nm for collets

GB Tap Collets (With Square) should be used whenever possible

Туре	Shank Ø	GB Collets (With Square)	Collets (Without Square)
ER 8	1.0 - 5.0 (.039196")	-	6
ER 11	1.0 - 2.9 (.039098)	8	8
Hi-Q	3.0 - 7.0 (.118256")	16	24
ER 16	4.0 - 4.5 (.157177")	40	Not Recommended
Hi-Q/ER C	5.0 - 10.0 (.197394")	44	Not Recommended
ER 20	1.5 - 6.5 (.059256")	32	Not Recommended
Hi-Q/ER C	7.0 - 13.0 (.276512")	35	Not Recommended
ER 25	5.0 - 7.5 (.196295")	80	Not Recommended
Hi-Q/ER C	8.0 - 17.0 (.315669")	80	Not Recommended
ER 32 Hi-Q/ER C	8.0 - 22.0 (.315787")	136	Not Recommended
ER 40 Hi-Q/ER C	6.0 - 26.0 (.236 - 1.023")	176	Not Recommended
ER 50 Hi-Q/ER C	6.0 - 36.0 (.236 - 1.417")	300	See Note 2

Note 1: Maximum torque must not be more than 25% higher than above values Note 2: For large taps with 36mm shank, a collet without square is used. There is a 29mm socket inside holder

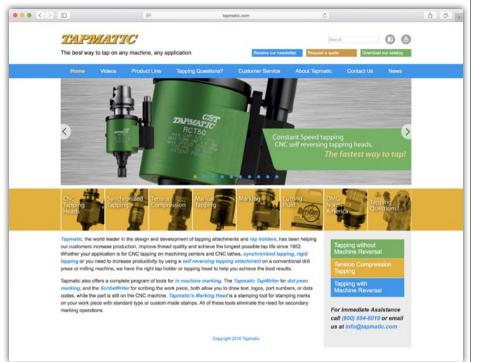


ing Ir	■ 6. Always be aware of the potential hazards of a machining operation: Sometimes working with your machine can seem routine. You may find that you are no longer concentrating on the operation. A feeling of false security can lead to serious injury. Always be alert to the dangers of the machines with which you work. Always keep hands, body parts, clothing, jewelry and hair out of the areas of operation, when the machine spindle is rotating. Areas of operation include the immediate point of machining and all transmission components including the tapping attachment. Never bring your hand, other body parts or anything attached to your body into any of these areas until the machine spindle is completely stopped.
9	7. Be aware of any other applicable safety instructions/ requirements.
the	 Check List for good tapping 1. Never use this unit before reading all safety instructions for this attachment as well as the machine it is to be used on. 2. Is tap sharp and of correct design for current job? 3. Is tap in proper alignment with drilled hole? 4. Is machine speed correct? 5. Is machine feed correct? 6. Is machine stop set properly so tap releases in neutral rather than bottoming in work piece or fixture? 7. Is drilled hole the correct size? 8. Is clearance between the drilled hole and tap sufficient at start position to allow the tap to clear the hole upon retraction? 9. Is the stop arm of the tapping attachment held rigidly against rotation. Stop Arm installation must be stronger than largest tap. 10. Is the proper cutting fluid or coolant being used for lubricating the tap? 11. If a bottom hole is being tapped is there sufficient chip clearance? 12. Is the correct Tapmatic model for the specific job requirement being used? (Capacity should be reduced by 25% for roll form taps.)



Application Questionnaire

24 hours a day, information is only a mouse click away



Our websites are a giant database with many useful features like:

- product information with detailed downloads
- general technical information about tapping, which will help you get the best possible results
- video demonstration of our tools in action
- the newest applications and innovations
- contact information of your local Tapmatic representative

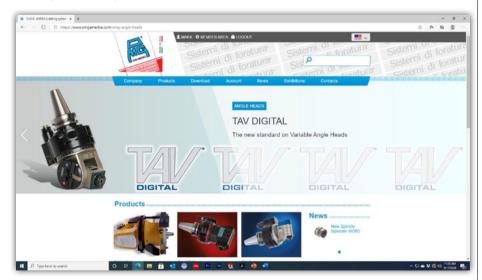
Customer:		Date:	
Contact person:		Department:	
Address:			
City:	State:	Postal Code:	
,,			
hone:		E-Mail:	
Nachine:			
Iodel/Description:			
vertical	horizontal		
Shank type:		TAPMATIC Model:	
mank type.			
hread:		forming	cutting
Ωuantity:		☐ through hole	bottom hole
Drill depth:	Tap Depth:	RPM:	Feed:
Naterial:		Internal coolant:	Yes 🗌 No

Customer:		Date:	
Contact person:		Department:	
Address:			
City:	State:	Postal Code:	
Phone:		E-Mail:	
Machine:			
Model/Description:			
vertical	horizontal		
Shank type:		TAPMATIC Model:	
Thread:		☐ forming	□ cutting
Quantity:		L through hole	bottom hole
Drill depth:	Tap Depth:	RPM:	Feed:
Material:		Internal coolant:	Yes 🗌 No

Visit www.tapmatic.com

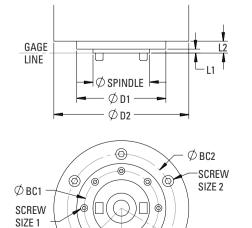
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Remarks:





Machine Manufacturer	
Machine Model	
Machine Spindle Type	
Ø-Spindle	
Ø D1	
L1	
Ø BC1	
Screw Size 1	
Angle A1°	
Only if Applicable	
Ø D2	
L2	
Ø BC2	
Screw Size 2	
Angle A2°	





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TAPMATIC Post Falls, USA

Headquarters:

TAPMATIC Corporation 802 Clearwater Loop, Post Falls, Idaho 83854, USA Phone 1 800 854-6019, or 001-208-773 29 51 Fax 001-208-773 30 21 info@tapmatic.com, www.tapmatic.com

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