

Unlimited Possibilities...

For an entirely new perspective on tapping



Tapmatic Australian Stock List

Specialising in tapping for over 50 years, TAPMATIC produces the world's most complete state of the art program for the fastest, most accurate and cost efficient tapping on every machine and every application.

TAPPING HOLDERS

for an on-site demonstration contact
Sutton Tools on 1800 335 350

100% Australian Owned
www.sutton.com.au

TAPMATIC



Tool Holding Machine Reversal Attachments



CNC Rigid Tapping - Synchroflex

- For the best rigid tapping results
- Holder designed for machines with rigid tapping
- Machine reversal required
- Increases tap life by 100% or more
- Improve thread quality
- Flexure design, acts like shock absorber

CNC Without Rigid Tapping - NSM

- Tension/compression tapping units for NC machining and turning centres
- Uses rubber-flex collets (only two required)
- ER Collect Chuck available on special request
- Provides greater thread accuracy and higher production rates
- Compact Design, for application where space is limited
- Releasable Hard Start, for accurate depth control

Description	Size Capacity	Mount	Collet Series	Ref Code	Discount Group	Price	Item #
FOR CNC RIGID TAPPING							
Tapping Attachments							
Synchroflex SFT10	M2-M5 #2-#10	25mm SS	ER11	43102511	Z1104		429526
Synchroflex SFT50	M4-M12 #8-1/2	25mm SS	ER20	43502520	Z1104		429533
Synchroflex SFT75	M10-M20 3/8 - 3/4	25mm SS	ER25	43752525	Z1104		429540
Collets - SFT10 (Round Drive)							
2-2.5mm	M1-1.8	-	ER11		Z1110		429861
2.5-3mm	M2-2.6	-	ER11		Z1110		429878
3-3.5mm	M3	-	ER11		Z1110		429885
3.5-4mm	M3.5	-	ER11		Z1110		429892
4-4.5mm	M4	-	ER11		Z1110		429908
4.5-5mm	M4 JIS	-	ER11		Z1110		429915
5-5.5mm	M5 JIS	-	ER11		Z1110		429922
5.5-6mm	M5/M6	-	ER11		Z1110		429939
Collets - SFT50 (Square Drive)							
Ø 4.5mm	M4 DIN371	-	ER20		Z1110		429984
Ø 5mm	ISO	-	ER20		Z1110		429991
Ø 6mm	M5/M6 DIN371	-	ER20		Z1110		430003
Ø 7mm	M10 DIN376	-	ER20		Z1110		430010
Ø 8mm	M8 DIN371	-	ER20		Z1110		430027
Ø 9mm	M12 DIN376	-	ER20		Z1110		430034
Ø 10mm	M10 DIN371	-	ER20		Z1110		430041
Collets - SFT75 (Square Drive)							
Ø 4.5mm	M4 DIN371	-	ER25		Z1110		430058
Ø 6mm	M5/M6 DIN371	-	ER25		Z1110		430065
Ø 7mm	DIN371	-	ER25		Z1110		430072
Ø 8mm	M8 DIN371	-	ER25		Z1110		430089
Ø 9mm	DIN371	-	ER25		Z1110		430096
Ø 10mm	M10 DIN371	-	ER25		Z1110		430102
Ø 11mm	DIN371	-	ER25		Z1110		430119
Ø 12mm	DIN371	-	ER25		Z1110		430126
Accessories							
BT-40 Arbor W/25mm Bore	-	-	-	23943	Z1108		429694
BT-50 Arbor W/25mm Bore	-	-	-	23945	Z1108		429700
Pull stud BT40	-	-	-		Z1108		432403
Pull stud BT50	-	-	-		Z1108		432410
FOR CNC WITHOUT RIGID TAPPING							
Tapping Attachments							
Tension & Compression Holder NSM6	M5-M18 #10-3/4	25mm SS	Rubberflex	35887	Z1104		429557
Collets - NSM6							
Rubberflex	3-7mm	-	J443	24300	Z1108		429779
Rubberflex	5-12mm	-	J440	24100	Z1108		429755
Rubberflex	8-16mm	-	J441	24000	Z1108		429762
Rubberflex	10-14mm	-	J445	24500	Z1108		429786
Accessories							
BT-40 Arbor W/25mm Bore	-	-	-	23943	Z1108		429694
BT-50 Arbor W/25mm Bore	-	-	-	23945	Z1108		429700
Pull stud BT40	-	-	-		Z1108		432403
Pull stud BT50	-	-	-		Z1108		432410



ER25 Collet (Sq. Drive)



BT-40 Arbor



Rubberflex Collet



Other machine interfaces & accessories to all your tapping needs are also available, for more information please contact our special sales dept on 1800 035 010

Tool Holding Self Reversing Attachments



CNC High Production - RDT

- Self-Reversing Holder for CNC machines
- Machine reversal NOT required, less wear and tear on machine spindle
- Designed for applications, where high volume of threads are required
- Constant speed tapping
- Bore cycle (G85) used in CNC program, instead of Tapping cycle (G84)
- please note, 2 different size stop arms available for RDT50, must check for machine centre distance, & order best suited.

Manual Machines - Rx

- For manually operated drilling and milling machines
- 1.75 x 1 increased reverse speed
- New durable, rugged design
- Self-feed ensures gauge perfect threads
- New heavy duty ball clutch
- Re-entry cushion eliminates cross threading
- Pre-selective torque drive prevents tap breakage

Description	Size Capacity	Mount	Collet Series	Ref Code	Discount Group	Price	Item #
FOR CNC HIGH PRODUCTION							
Tapping Attachments							
Self Reversing RDT25	M2.5-M6 #4-1/4	25mm SS	ER11	39252511	Z1102		429564
Self Reversing RDT50	M4-M12 #10-1/2	25mm SS	ER16	39502516	Z1102		429571
Collets - RDT25 (Round Drive)							
2-2.5mm	M1-1.8	-	ER11		Z1110		429861
2.5-3mm	M2-2.6	-	ER11		Z1110		429878
3-3.5mm	M3	-	ER11		Z1110		429885
3.5-4mm	M3.5	-	ER11		Z1110		429892
4-4.5mm	M4	-	ER11		Z1110		429908
4.5-5mm	M4 JIS	-	ER11		Z1110		429915
5-5.5mm	M5 JIS	-	ER11		Z1110		429922
5.5-6mm	M5/M6	-	ER11		Z1110		429939
Collets - RDT50 (Square Drive)							
Ø 4.5mm	M4 DIN371	-	ER16		Z1110		429946
Ø 5mm	ISO	-	ER16		Z1110		429953
Ø 6mm	M5/M6 DIN371	-	ER16		Z1110		429960
Ø 7mm	M10 DIN376	-	ER16		Z1110		429977
Accessories							
BT-40 Arbor W/25mm Bore	-	-	-	23943	Z1108		429694
BT-50 Arbor W/25mm Bore	-	-	-	23945	Z1108		429700
Pull stud BT40	-	-	-				432403
Pull stud BT50	-	-	-				432410
65mm Stop Arm RDT25	-	-	ER11	392565	Z1102		429588
65mm Stop Arm RDT50	-	-	ER16	395065	Z1102		429595
80mm Stop Arm RDT50	-	-	ER16	395080	Z1102		429601
TOOL HOLDING MANUAL MACHINES							
Tapping Attachments							
Self Reversing Rx30	M1.4-M6 #0-1/4	25mm SS	W#6 JT	013006	Z1106		429618
Self Reversing Rx50	M3-M12 #6-1/2	25mm SS	W#6 JT	015006	Z1106		429625
Self Reversing Rx70	M5-M18 #10-3/4	25mm SS	W#3 JT	017003	Z1106		429632
Collets - Rx30							
Rubberflex	3-5mm	-	J116	21600	Z1108		429717
Rubberflex	5-6.5mm	-	J117	21700	Z1108		429724
Collets - Rx50							
Rubberflex	3.5-6.5mm	-	J421	22100	Z1108		429748
Rubberflex	5-8mm	-	J420	22000	Z1108		429731
Collets - Rx70							
Rubberflex	3-7mm	-	J443	24300	Z1108		429779
Rubberflex	5-12mm	-	J440	24100	Z1108		429755
Rubberflex	8-16mm	-	J441	24000	Z1108		429762
Rubberflex	10-14mm	-	J445	24500	Z1108		429786
Accessories							
#2MT X Arbor			#3 JT	20203	Z1108		429649
#2MT X Arbor			#6 JT	20206	Z1108		429656
#3MT X Arbor			#3 JT	20303	Z1108		429663
#3MT X Arbor			#6 JT	20306	Z1108		429670
#4MT X Arbor			#3 JT	20403	Z1108		429687
Quill Clamp	1-1/2 to 2-3/8	-	-	29099	Z1108		429793
Quill Clamp	2-3/8 to 4-1/2	-	-	290991	Z1108		429809



ER25 Collet (Sq. Drive)



BT-40 Arbor



Quill Clamp



#3 JT Arbor

Rubberflex Collet



Other machine interfaces & accessories to all your tapping needs are also available, for more information please contact our special sales dept on 1800 035 010

www.sutton.com.au



Tapmatic SynchroFlex with unique Double Flexure

Unlike other “synchronous” tap drivers that use soft plastic components or Belleville washers similar as above, to cushion the taps’ entry into the hole, Tapmatic SynchroFlex utilizes a patented (computer generated, precisely machined, special steel alloy) Double Flexure between the mount and the chuck.

It compensates both axially and radially for the unavoidable discrepancies between the machine’s programmed RPM, feed and traverse and the exact thread pitch and precise hole location.

The Tapmatic SynchroFlex is dependable and predictable. You can expect long life performance under all working conditions. What’s more, you’ll make significant savings when it comes to tap costs.

The Tapmatic SynchroFlex is available now from Sutton Tools. We also stock other models in the Tapmatic range, for both manual and automated tapping applications.

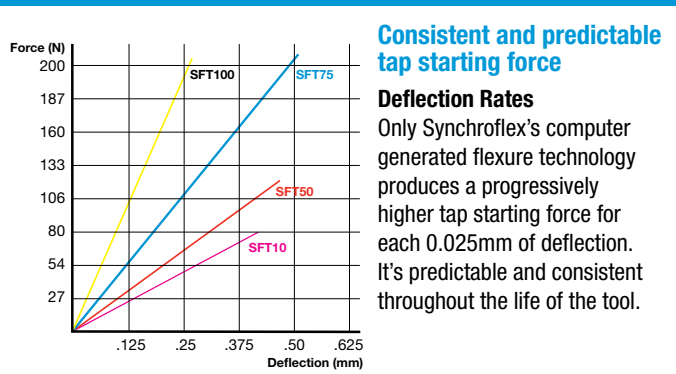


Synchroflex Proven Results

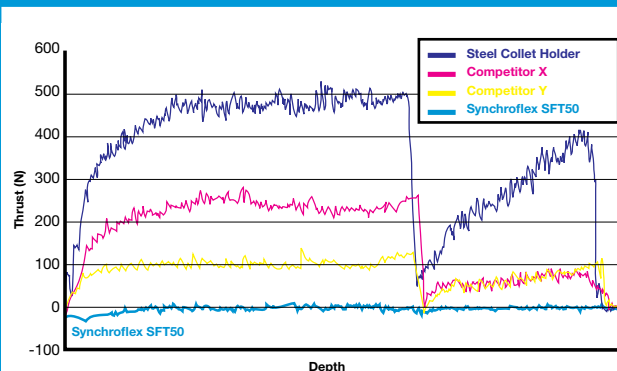
Independent tests in real world applications confirm Synchroflex is unmatched in performance

- Tap life increased by 100% or more
- Thread quality improved
- Increased production due to less tap breakage
- Less down time
- Reduced costs. The most economical rigid tapping

Synchroflex exerts lower thrust and torque forces than any other tap holder on the market. In any given material the lower the thrust and torque forces on the tap, the longer the tap life.



Test One (Thrust): 10 holes, M6 R45Al, 2 flute tap, 3x Dia deep in AL7075 at 1000 RPM



Graph illustrates the final hole tapped by each tap driver.

Holder Type	Average Thrust (N)	Average Down Thrust (N) Entering Hole	Average Reverse Thrust (N) Exiting Hole
Steel Collet Holder (Rigid)	1008	1379	930
Competitor X	681	879	445
Competitor Y	320	425	266
Tapmatic Synchroflex	-12	-29	-31

Test Two (Torque): 10 holes, M6 R45Al, 2 flute tap, 3x Dia deep in AL7075 at 2000 RPM

Holder Type	Average Torque (Ncm)	Average Down Cut Torque (Ncm) Entering Hole	Average Reverse Torque (Ncm) Exiting Hole
Steel Collet Holder (Rigid)	481	631	-387
Competitor X	593	639	-354
Competitor Y	542	730	-392
Tapmatic Synchroflex	268	371	-190

