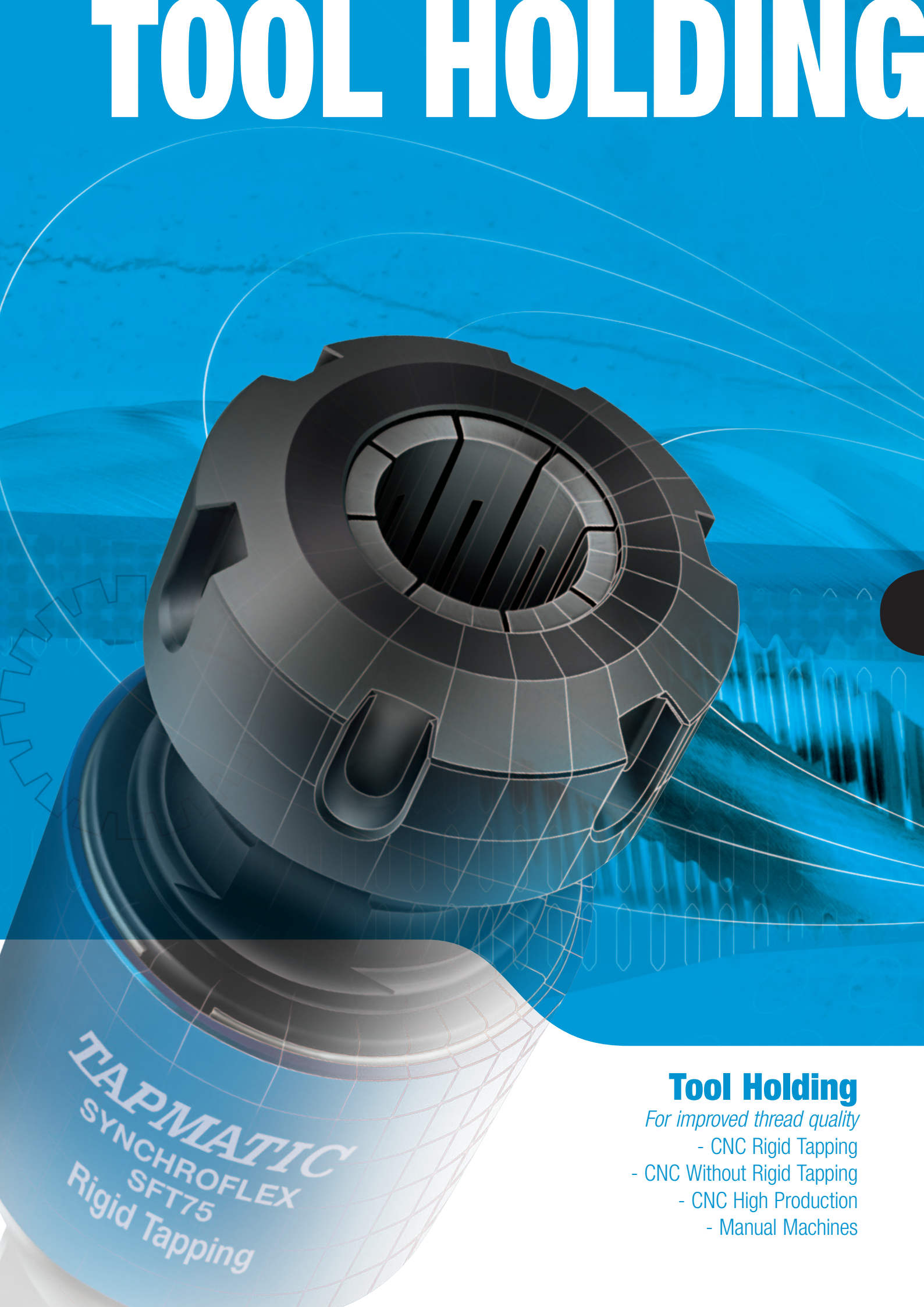


TOOL HOLDING



TAPMATIC
SYNCHROFLEX
SFT75
Rigid Tapping

Tool Holding

For improved thread quality

- CNC Rigid Tapping
- CNC Without Rigid Tapping
- CNC High Production
- Manual Machines



SynchroFlex Tapping Attachment 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, 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.

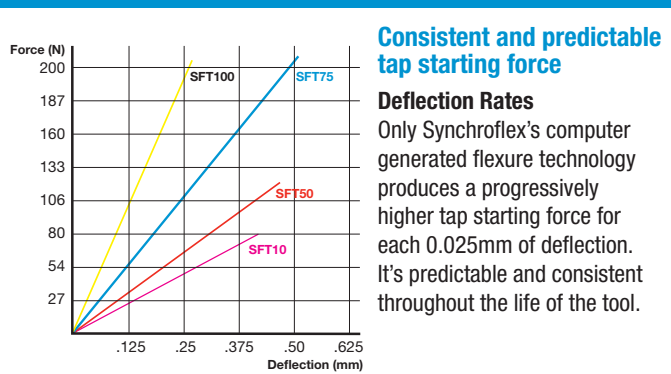
The SynchroFlex is dependable and predictable. You can expect long life performance under all working conditions. What’s more, you’ll make significant savings when it comes to tap costs.

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.

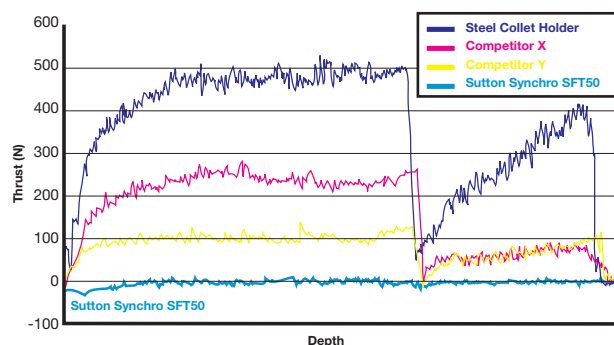


Test One (Thrust): 10 holes, M6 R45AI, 2 flute tap, 3x Dia deep in AL7075 at 1000 RPM

Holder Type	Average Thrust (N)	Average Down Cut 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
Synchroflex	-12	-29	-31

Test Two (Torque): 10 holes, M6 R45AI, 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
Synchroflex	268	371	-190



Graph illustrates the final hole tapped by each tap driver.

TAPMATIC

- 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



BT-40 Arbor



ER25 Collet (Sq. Drive)



Patented Flexure Design



Patented Flexure Design

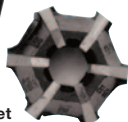
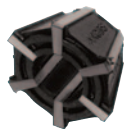
Size Ref.	Description	Size Capacity	Mount	Collet Series	Ref Code	Item #
Tapping Attachments (Discount Group Z1104)						Z100
SFT10	Synchroflex SFT10	M1-M6	25mm SS	ER11	43102511	Z100 SFT10
	#2-#10					
SFT50	Synchroflex SFT50	M4-M12	25mm SS	ER20	43502520	Z100 SFT50
	#8-1/2					
SFT75	Synchroflex SFT75	M4-M16	25mm SS	ER25	43752525	Z100 SFT75
	3/8 - 3/4					
Collets - SFT10 (Round Drive) (Discount Group Z1110)						Z110
0025	2-2.5mm	M1-1.8	-	ER11		Z110 0025
0030	2.5-3mm	M2-2.6	-	ER11		Z110 0030
0035	3-3.5mm	M3	-	ER11		Z110 0035
0040	3.5-4mm	M3.5	-	ER11		Z110 0040
0045	4-4.5mm	M4	-	ER11		Z110 0045
0050	4.5-5mm	M4 JIS	-	ER11		Z110 0050
0055	5-5.5mm	M5 JIS	-	ER11		Z110 0055
0060	5.5-6mm	M5/M6 or M2-M6 Synchro	-	ER11		Z110 0060
Collets - SFT50 (Square Drive) (Discount Group Z1110)						Z111
0045	Ø 4.5mm	M4 DIN371		ER20		Z111 0045
0050	Ø 5mm	ISO		ER20		Z111 0050
0060	Ø 6mm	M5/M6 DIN371 or M2-M6 Synchro		ER20		Z111 0060
0070	Ø 7mm	M10 DIN376		ER20		Z111 0070
0080	Ø 8mm	M8 DIN371 or M8 Synchro		ER20		Z111 0080
0090	Ø 9mm	M12 DIN376		ER20		Z111 0090
0100	Ø 10mm	M10 DIN371 or M10 Synchro		ER20		Z111 0100
Collets - SFT75 (Square Drive) (Discount Group Z1110)						Z112
0045	Ø 4.5mm	M4 DIN371		ER25		Z112 0045
0060	Ø 6mm	M5/M6 DIN371 or M2-M6 Synchro		ER25		Z112 0060
0070	Ø 7mm	M10 DIN371		ER25		Z112 0070
0080	Ø 8mm	M8 DIN371 or M8 Synchro		ER25		Z112 0080
0090	Ø 9mm	M12 DIN376		ER25		Z112 0090
0100	Ø 10mm	M10 DIN371 or M10 Synchro		ER25		Z112 0100
0110	Ø 11mm	M14 DIN376		ER25		Z112 0110
0120	Ø 12mm	M16 DIN376 or M12 Synchro		ER25		Z112 0120
Accessories (Discount Group Z1108)						Z130
3943	BT-40 Arbor W/25mm Bore	-	-	-	23943	Z130 3943
3945	BT-50 Arbor W/25mm Bore	-	-	-	23945	Z130 3945
BT40	Pull stud BT40	-	-	-		Z135 BT40
BT50	Pull stud BT50	-	-	-		Z135 BT50

TAPMATIC

- 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



BT-40 Arbor



Rubberflex Collet



**Tension &
Compression
Holder NSM6**

[illegible]

- 

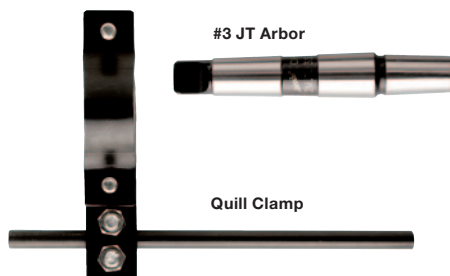
ER25 Collet (Sq. Drive)



Self Reversing RDT50

www.sutton.com.au

- 
- Rubberflex Collet**

164