

MODEL TC

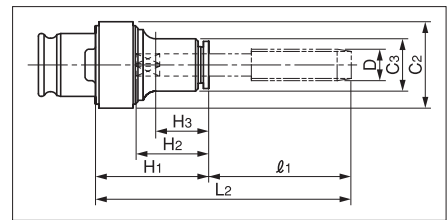
◎TC collets can be combined with SA-series tappers (RA/SA-Ⅲ/SA-Ⅱ/SA-Ⅵ)

- Quick-change of taps
- Available in 4 different lengths (32~168 mm)
- A torque limiter is equipped to avoid tap breakage
- Reliable torque transmission by driving the square portion of the tap
- Stable tool positioning on quick changing of taps
- Suitable torques have already been set for each tap size in order to save time.
- The torque limiter adopts a ball clutch mechanism for smooth operation and maintains safety as well as high durability.
- Your choice of 4 setup torques (Standard, Yellow, Red and Roll)
- Oversized collets (cf. P02) do not include "Red" or "Roll" setup torque.

※Cemented carbide taps decrease clamping force and tend to pull out of the tap collet.

◎SAシリーズタッパー (RA/SA-Ⅲ/SA-Ⅱ/SA-Ⅵ) に共通のタップコレット

- タップをすばやく交換!
 - 安全装置付きでタップ折損を防止
 - タップ交換後にツール長の再計測は不必要
 - タップサイズ毎に適正トルクに設定済みなので作業時間短縮
 - 自動安全装置 (トルクリミッター) はボールクラッチを採用、作動は滑らかで安全性・耐久性を確保
 - 設定トルク仕様は選べる4種類 (標準, イエロー, レッド, ロール)
 - オーバーサイズコレット (P02参照) には「レッド」「ロール」の設定トルク仕様はありません。
- ※超硬タップは把持力が低下し抜けやすくなります。



nominal name use	Optional setup torques of torque limiter			
	Standard general cutting	Yellow light cutting	Red heavy cutting	Roll thread forming
printed mark	(Blank)	YELLOW	RED	ROLL
work materials	carbon steels (SC) Cr-Mo steel (SCM) ductile cast iron (FCD) gray cast iron (FC) etc.	aluminum alloy die castings brass castings plastics etc.	stainless steels (SUS) tool steels etc.	carbon steels (SC) Cr-Mo steel (SCM) aluminum alloy die castings etc.
setup torque	about twice as much as cutting torque of 0.45% carbon steels	about 20% lower than standard torque	about 30% higher than standard torque	about 60% higher than standard torque

model	tap size D			H1	H3	C2	C3	weight (kg)
	metric thread	unified thread	pipe thread					
TC 206	M 2~M 8	U No.2~U 5/16		32.0	21.0	21	15	0.07
TC 412	M 3~M12	U No.5~U 1/2	P 1/8	43.5	20.5	33	20	0.19
	M14 · M16	U 9/16~U 5/8	P 1/4 · P 3/8	49.5	33.0	33	27	0.23
TC 1022	M 8~M22	U 3/8~U 7/8	P 1/8 · P 5/8	65.0	39.5	50	32	0.61
				68.0	45.5	50	36	0.65
	M24 · M27	U1	P 3/4	59.0	32.0	50	32	0.60
				62.0	38.5	50	36	0.62
TC 2035	M18~M36	U 3/4~U 1 3/8	P 3/8~P 1	85.0	53.5	70	46	1.72
				71.0	38.5	70	46	1.66
TC 3050	M27 · M28	U 3/4~U 1 3/8		84.0	47.5	87	64	3.42
	M30~M52	U 1 1/4 · U2		100.0	63.5	87	64	3.50
	M56	U2 1/4		105.0	71.5	87	68	3.57
TC50100	M50~M90	U2 ~U3 1/2	P 3/4~P1 3/4	85.0	48.0	85	64	3.59
				130.0	81.0	116	86	7.99
	M100	U4		130.0	84.5	116	90	7.64
TC 206 -L+ 30	M 2~M 8	U No.2~U 5/16	P 1 5/8~P 3	113.0	64.0	116	86	7.64
TC 206 -L+ 60	M 2~M 8	U No.2~U 5/16		62.0	51.0	21	15	0.08
TC 412 -L+ 60	M 3~M 8	U No.5~U 5/16	P 1/8	92.0	81.0	21	15	0.11
				103.5	80.5	33	16	0.24
	M10 · M12	U 3/8~U 1/2	P 1/8	103.5	80.5	33	20	0.26
				109.5	93.0	33	27	0.40
M14 · M16	U 9/16 · U 5/8	P 1/4 · P 3/8	109.5	93.0	33	27	0.40	
			143.5	120.5	33	16	0.26	
TC 412 -L+100	M 3~M 8	U No.5~U 5/16	P 1/8	143.5	120.5	33	20	0.31
				149.5	133.0	33	27	0.53
	M10 · M12	U 3/8 · U 1/2	P 1/4 · P 3/8	149.5	133.0	33	27	0.53
				125.0	99.5	50	20	0.70
TC 1022 -L+ 60	M14 · M16	U 9/16 · U 5/8	P 1/8~P 5/8	125.0	99.5	50	27	0.80
				125.0	99.5	50	32	0.85
	M 8~M22	U 3/4 · U 7/8	P 1/8~P 5/8	128.0	105.5	50	36	0.97
				119.0	92.0	50	32	0.83
M24 · M27	U1	P 3/4	122.0	98.5	50	36	0.84	
			165.0	139.5	50	20	0.85	
TC 1022 -L+100	M 8~M12	U 3/4~U1	P 1/8~P 5/8	165.0	139.5	50	27	0.90
				165.0	139.5	50	32	1.00
	M14 · M16	U 9/16 · U 5/8	P 3/4	168.0	145.5	50	36	1.20
				159.0	132.0	50	32	0.98
M18~M22	U 3/4 · U 7/8	P 3/4	162.0	138.5	50	36	1.00	
			145.0	113.5	70	32	1.45	
TC 2035 -L+ 60	M24 · M27	U1	P 3/8~P 1	145.0	113.5	70	36	1.65
				145.0	113.5	70	46	1.90
	M28~M36	U 1 1/8~U 1 3/8		131.0	98.5	70	46	2.30

※TC collets for pipe thread (≥TC2035) are used in the setscrew manner.
 ※TC2035以上の管用ネジ用コレットは、止めネジ方式となります。



TC412