

Square Shoulder and Slot milling

## FULLCUT MILL FCM Cutter Dia. $\phi$ 16 - $\phi$ 50

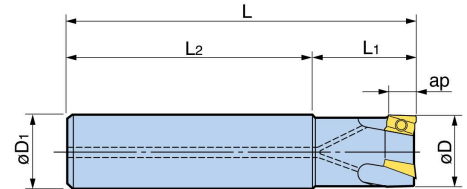
The indexable endmill that combines sharpness and rigidity has no match.



### CYLINDRICAL Shank Type



Cutter Dia  
 $\phi$ 12 -  $\phi$ 50



Cutter dia $\phi$ D	Model	$\phi$ D1	ap	L	L1	L2	No. of Insert	Insert Size	Weight (kg)
12	ST16-FCM12091- 90	16	9	90	15	70	1	ARG16	0.1
14	-FCM14091- 90				17				0.1
16	-FCM16092- 90				25				0.1
20	ST20-FCM20093-110	20	9	110	30	80	3	ARG20	0.2
25	ST25-FCM25093-120	25	9	120	35	85	3	ARG25	0.4
32	ST32-FCM32113-130	32	11	130	35	95	3	ARG32	0.7
40	-FCM40114-130				90	4	ARG40	0.8	
40	-180				140			1.2	
50	-FCM50115-130				180			1.0	
				130	90	5			

For Insert : | 18

For Cutting Condition : | 19

"Trump card" at deep pocket & deep shoulder endmilling

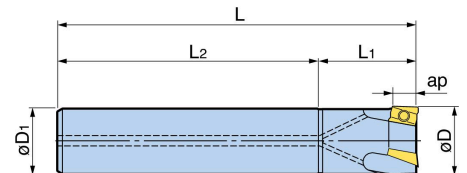
[OVER SIZE]



Cutter Dia  
 $\phi$ 17 -  $\phi$ 33

**POINT**  $\phi D = \phi D1 + 1mm$

1mm larger Cutter Dia. than shank Dia. avoids any interference with work-piece.



Cutter dia $\phi$ D	Model	$\phi$ D1	ap	L	L1	L2	No. of Insert	Insert Size	Weight (kg)
17	ST16-FCM17092-120	16	9	120	25	95	2	ARG16	0.2
21	ST20-FCM21092-165	20	9	165	30	135	2	ARG20	0.4
	-FCM21093-135			135		3	0.3		
26	ST25-FCM26092-165	25	9	165	38	127	2	ARG25	0.6
	-FCM26093-150			150		3	0.6		
33	ST32-FCM33112-180	32	11	180	48	132	2	ARG32	1.1
	-FCM33113-180			180		3	1.0		

1. Wrench and Anti-seizure Lubricant are included. Inserts are ordered separately.

2. 2-flutes models are recommended for medium-heavy or heavy slot milling.

3. For medium-heavy or heavy slot milling with projection longer than 2.5 times of diameter, 2-flutes models are recommended.

For Insert : | 18

For Cutting Condition : | 19

To suit FULLCUT MILL cylindrical shank type



**MEGA DOUBLE POWER CHUCK**

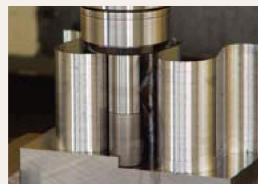
A9,B5,C9,C48,E37



**NEW Hi-POWER MILLING CHUCK**

A16,B8,C15,E45

Material: C55 (S55C)



Model	ST32-FCM33112-180
Cutting Speed V (m/min.)	120
Feed Rate f (mm/tooth)	0.1
Axial DOC Ad (mm)	10mm x 10 steps
Radial DOC Rd (mm)	Max. 33mm

**Result**

Deep shoulder endmilling is achieved with 110mm projection length and 10mm axial depth.