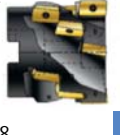




Milling Cutters

90D End Mill Insert ADKT1505..  Page : 01 S	90D Face Mill Insert ADKT1505..  Page : 01 H	90D End Mill Insert AOMT1236..  Page : 02 S	Square Shoulder FMC Insert AOMT1236..  Page : 02 S	90D End Mill Insert APKT1003..  Page : 03 S H
Face Mill Insert APKT1003..  Page : 04 H	Procupine End Mill Insert APKT1003..  Page : 04 H	90D End Mill Insert APKT1113..  Page : 05 S H	90D End Mill Insert APKT1204..  Page : 06 S H	90D Face Mill Insert APKT1604..  Page : 07 S H
75D Face Mill Insert APKT1604..  Page : 07 S H	Procupine End Mill Insert APKT1604..  Page : 08 H	90D End Mill Insert APKT1705..  Page : 08 S	90D Face Mill Insert APKT1705..  Page : 09 H	90D End Mill Insert APMT1135..  Page : 09 S
90D End Mill Insert APMT1604..  Page : 10 S	90D Face Mill Insert APMT1604..  Page : 11 S	75D Face Mill Insert APMT1604..  Page : 11 S	90D End Mill Insert BDMT1113..  Page : 12 S H	High Feed End Mill Insert JDMT/JDMW09T320  Page : 13 S
43D Face Mill Insert ODMT/ODMW0605..  Page : 14 H	43D Face Mill Insert OFER/OFKR0704..  Page : 14 S	43D Face Mill Insert OFMT05T308  Page : 15 S H	45D Face Mill Insert ONMU0806..  Page : 15 S H	Profile End Mill Insert RDMT0802  Page : 16 S
Profile End Mill Insert RDMT/RDMW10T3  Page : 17 S	Profile Face Mill Insert RDMT/RDMW10T3  Page : 18 S	Profile End Mill Insert RDMT/RDMW1204  Page : 18 S	Profile End Mill Insert RDMT08T2  Page : 19 S	Profile End Mill Insert RPM110T3  Page : 20 S
Profile End Mill Insert RPM11204  Page : 21 S	Profile End Mill Insert RPM11204  Page : 21 S	Profile End Mill Insert RPMW1003  Page : 22 S	Profile End Mill Insert RPMW1003  Page : 23 S	Profile End Mill Insert RPMW1204  Page : 23 S



45D End Mill Insert SEKN1203  Page : 24	45D Face Mill Insert SEKN1203  Page : 24	45D End Mill Insert SEKT1204  Page : 25	45D Face Mill Insert SEKT1204  Page : 25	45D Face Mill Insert SEKT12T3  Page : 26
45D Face Mill Insert SEKT13T3  Page : 26	45D Face Mill Insert SEMT1204  Page : 27	45D Face Mill Insert SEMT13T3  Page : 27	45D & 88D Face Mill Insert SNMX1206  Page : 28	75D Face Mill Insert SPKN/SPKR1203  Page : 28
65D Face Mill Insert SPKN1504  Page : 29	Procupine Integrated Insert SPMT120408  Page : 29	75D Face Mill Insert SPUN120308  Page : 30	90D Face Mill Insert TPKN/TPKR1103..  Page : 31	30D, 45D, 60D Chamfer EM Insert TPKN/TPKR1603  Page : 31
90D Face Mill Insert TPKN/TPKR1603  Page : 32	90D Face Mill Insert TPKN/TPKR2204  Page : 32	90D Face Mill Insert TPKN/TPKR2204  Page : 33	90D Face Mill Insert XNEX080608  Page : 33	45D Face Mill - AL Insert SEGT/SEKT1204-AL  Page : 34
Spot Face End Mill Insert SPMG060204  Page : 34	Back Face End Mill Insert CCMT0602..  Page : 35	90D Modular Cutter Insert APMT1135..  Page : 35	90D Modular Cutter Insert APMT1604..  Page : 36	High Feed Modular Cutter Insert JDMT/JDMW120420..  Page : 36
Profile Modular Cutter Insert RPMT08T2  Page : 36	Profile Modular Cutter Insert RPMW1003  Page : 37	Carbide Modular Extn. Bar  Page : 38	BT Modular Cutter Adaptor  Page : 39	BT Modular Cutter Adaptor  Page : 40

Coolant Hole

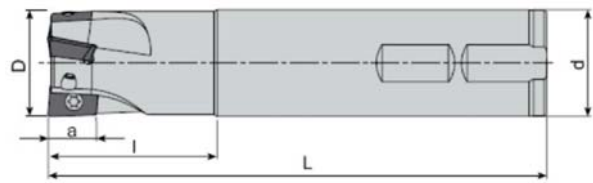
S

SOLID WITHOUT
COOLANT HOLE

H

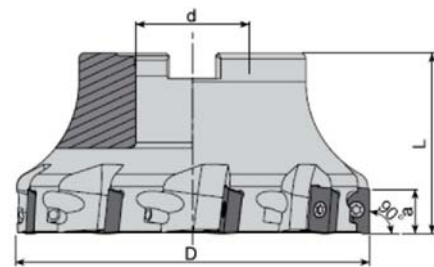
WITH COOLANT
HOLE

90° End Mill



Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90W-02525150-AD15-02S	2	25	25	150	50	ADKT1505..	1515-M4x9	80-T15
EM90W-03025150-AD15-03S	3	30	25	150	40			
EM90W-03232150-AD15-03S	3	32	32	150	50			

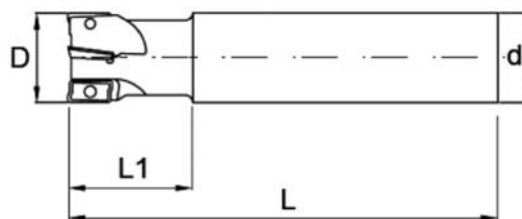
90° Face Mill



Part No.	Z	D	d	L	Insert	Screw	Wrench
FM90-040A1600-AD15-04H	4	40	16	40	ADKT1505..	1515-M4x11	2506-M8x30
FM90-050A2200-AD15-05H	5	50	22	40			2508-M10x30
FM90-063A2200-AD15-06H	6	63	22	40			2510-M12x35
FM90-080A2700-AD15-07H	7	80	27	50			2514-M16x35
FM90-100A3200-AD15-08H	8	100	32	50			-
FM90-125B4000-AD15-09S	9	125	40	63			-

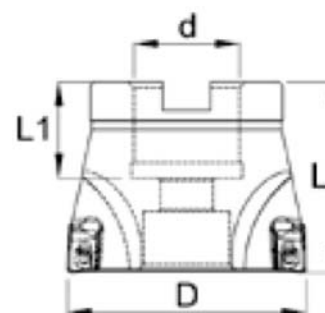


90° End Mill



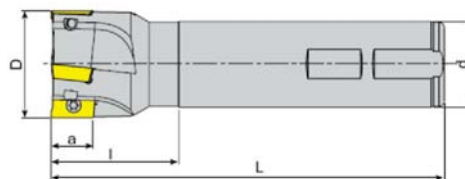
Part No.	Z	D	d	L1	L	Insert	Screw	Wrench
EM90W-1216085-A012-01S	1	12	16	25	85	AOMT1236..	SCR-MA02.5	T8
EM90W-1416085-A012-01S	1	14	16	25	85			
EM90W-1616120-A012-02S	2	16	16	24	150			
EM90W-1616150-A012-02S	2	16	16	24	150			
EM90W-1716150-A012-02S	2	17	16	24	150			
EM90W-1816150-A012-02S	2	18	16	24	150			
EM90W-2020150-A012-03S	3	20	20	29	150			
EM90W-2120150-A012-03S	3	21	20	29	150			
EM90W-2120200-A012-03S	3	21	20	29	200			
EM90W-2525150-A012-04S	4	25	25	34	150			
EM90W-2525200-A012-04S	4	25	25	34	200			
EM90W-2625200-A012-04S	4	26	25	34	200			
EM90W-2825170-A012-03S	3	28	25	35	170			
EM90W-3025125-A012-04S	4	30	25	45	125			
EM90W-3232125-A012-04S	4	32	32	45	125			
EM90W-3232190-A012-03S	3	32	32	45	190			
EM90W-3532125-A012-04S	4	35	32	45	125			
EM90W-3532190-A012-03S	3	35	32	45	190			
EM90W-4032125-A012-05S	5	40	32	45	125			
EM90W-4032200-A012-04S	4	40	32	45	200			

Square Shoulder Face Milling Cutter



Part No.	Z	d	d*	L	D	Insert	Screw	Wrench
FM90-050A2200-A012-07S	7	22	22	40	50	AOMT1236..	SCR-MA02.5	T8
FM90-060A2200-A012-08S	8	22	22	40	63			
FM90-080A2540-A012-09S	9	25.4	27	50	80			
FM90-100A3175-A012-11S	11	31.75	32	63	100			

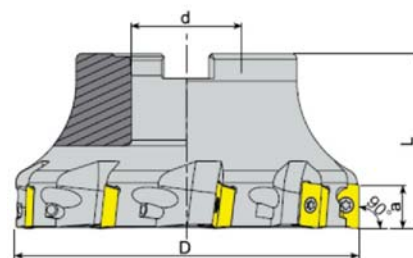
90° End Mill



Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90W-01216100-AP10-01H	1	12	16	100	30	APKT1003..	3008-M2.5x5	80-T08
EM90W-01216150-AP10-01S	1	12	16	150	38			
EM90W-01416100-AP10-01H	1	14	16	100	30			
EM90W-01416150-AP10-01S	1	14	16	150	38	APKT1003..	3008-M2.5x6	80-T08
EM90C-01616100-AP10-02H	2	16	16	100	30			
EM90W-01616100-AP10-02H	2	16	16	100	30			
EM90C-01616120-AP10-02H	2	16	16	120	30			
EM90C-01616150-AP10-02S	2	16	16	150	50			
EM90C-01616150-AP10-02H	2	16	16	150	50			
EM90W-01616150-AP10-02S	2	16	16	150	50			
EM90C-01616200-AP10-02S	2	16	16	200	100			
EM90C-01616200-AP10-02H	2	16	16	200	100			
EM90W-01816100-AP10-02H	2	16	16	250	50			
EM90W-01816150-AP10-02S	2	18	16	100	30			
EM90C-02020100-AP10-03H	2	18	16	150	30			
EM90W-02020100-AP10-03H	3	20	20	100	30			
EM90C-02020120-AP10-03H	3	20	20	100	30			
EM90C-02020150-AP10-03S	3	20	20	120	30			
EM90C-02020150-AP10-03H	3	20	20	150	50			
EM90W-02020150-AP10-03S	3	20	20	150	50			
EM90C-02020200-AP10-02S	3	20	20	150	50			
EM90C-02020200-AP10-03H	2	20	20	200	100			
EM90C-02020250-AP10-02S	3	20	20	200	100			
EM90C-02020250-AP10-02H	2	20	20	250	150			
EM90W-02120150-AP10-03S	2	20	20	250	150			
EM90W-02220100-AP10-03H	3	21	20	150	30			
EM90W-02220150-AP10-03S	3	22	20	100	30			
EM90W-02320150-AP10-03S	3	22	20	150	30			
EM90W-02420150-AP10-03S	3	23	20	150	30			
EM90W-02525150-AP10-04H	3	24	20	150	30			
EM90C-02525100-AP10-03H	4	25	25	100	30			
EM90W-02525100-AP10-03H	3	25	25	100	30			
EM90C-02525120-AP10-03H	3	25	25	100	30			
EM90C-02525150-AP10-03S	3	25	25	120	30			
EM90W-02525150-AP10-03S	3	25	25	150	50			
EM90C-02525200-AP10-02S	2	25	25	200	100			
EM90C-02525200-AP10-03S	3	25	25	200	100			
EM90C-02525250-AP10-02S	2	25	25	250	100			
EM90C-03025100-AP10-04H	4	30	25	100	100			
EM90C-03025120-AP10-04H	4	30	25	120	100			
EM90C-03025150-AP10-04S	4	30	25	150	100			
EM90C-03225100-AP10-04H	4	32	25	100	100			
EM90C-03225120-AP10-04H	4	32	25	120	100			
EM90C-03225150-AP10-04S	4	32	25	150	100			
EM90W-03225150-AP10-04S	4	32	25	150	100			
EM90W-03232150-AP10-04S	4	32	32	150	100			
EM90W-04032150-AP10-05S	4	40	32	150	100			

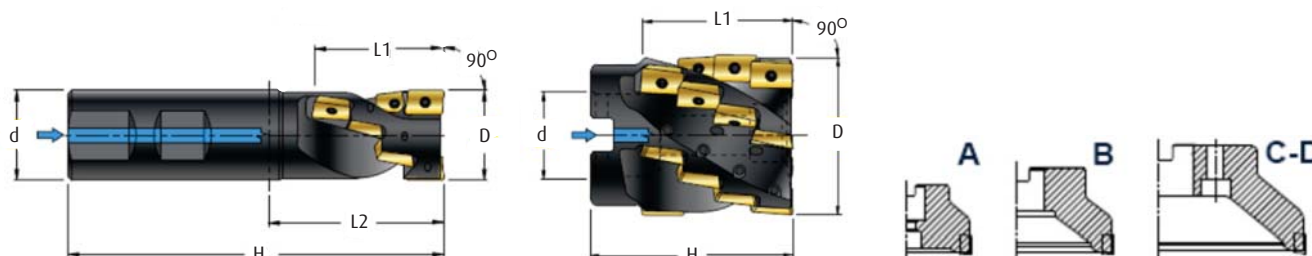


90° Face Mill



Part No.	Z	D	d	L	Insert	Screw	Wrench	Mounting Screw
AFM90-AP10-D040-A16-Z05-H	5	40	16	40	APKT1003..	3008-M2.5x6	80-T08	2506-M8x30
AFM90-AP10-D050-A22-Z06-H	6	50	22	40				2508-M10x30
AFM90-AP10-D063-A22-Z07-H	7	63	22	40				2508-M10x30
AFM90-AP10-D080-A27-Z08-H	8	80	27	50				2510-M12x35
AFM90-AP10-D100-A32-Z09-H	9	100	32	50				2514-M16x35

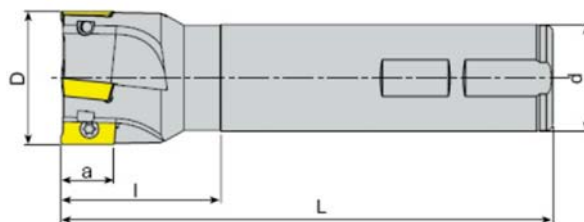
Procupine End Mill



Part No.	Z	D	d	H	L1	N	Insert	Screw	Wrench
PE90W-02020028-AP10-04H	2	20	20	87	28	4	APKT1003..	12255P	5608P
PE90W-02020028-AP10-06H	2	20	20	87	28	6			
PE90W-02525037-AP10-08H	2	25	25	105	37	8			
PE90W-03232046-AP10-12H	4	32	32	115	46	12			
PE90W-03232046-AP10-10H	2	32	32	115	46	10			
PE90W-03232046-AP10-15H	3	32	32	115	46	15			
PE90W-04032055-AP10-18H	3	40	32	130	55	18			
PE90W-04032055-AP10-12H	2	40	32	130	55	12			
PS90-040A1637-AP10-12H	3	40	16	50	37	12			
PS90-050A2246-AP10-15H	3	50	22	60	46	15			
PS90-063A2746-AP10-20H	4	63	27	60	46	20			
PS90-040A1637-AP10-20H	5	40	16	50	37	20			
PS90-050A2246-AP10-25H	5	50	22	60	46	25			
PS90-063A2746-AP10-35H	7	63	27	60	46	35			

- Z = Number of Flutes.
- N = Number of insert pockets.

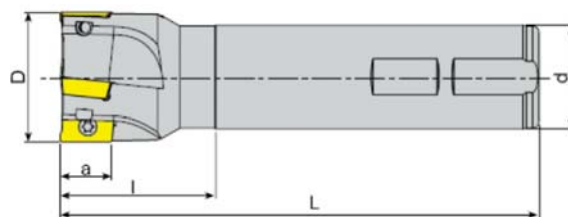
90° End Mill



Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90C-01616150-AP11-02S	2	16	16	150	50	APKT11T3..	3008-M2.5x6	80-T08
EM90C-01616150-AP11-02H	2	16	16	150	50			
EM90W-01616150-AP11-02S	2	16	16	150	50			
EM90C-01616200-AP11-02S	2	16	16	200	100			
EM90C-01716150-AP11-02S	2	17	16	150	30			
EM90C-01716200-AP11-02S	2	17	16	200	30			
EM90C-02020150-AP11-03S	3	20	20	150	50			
EM90W-02020150-AP11-03S	3	20	20	150	50			
EM90W-02020150-AP11-03H	3	20	20	150	50			
EM90C-02020200-AP11-03S	3	20	20	200	100			
EM90C-02120150-AP11-03S	3	21	20	150	30			
EM90W-02120150-AP11-03S	3	21	20	150	30			
EM90W-02120150-AP11-03H	3	21	20	150	30			
EM90C-02120200-AP11-03S	3	21	20	200	30			
EM90C-02525150-AP11-03S	3	25	25	150	50			
EM90W-02525150-AP11-03S	3	25	25	150	50			
EM90W-02525150-AP11-03H	3	25	25	150	50			
EM90C-02625150-AP11-03S	3	26	25	150	35			
EM90C-02624150-AP11-03S	3	26	24	150	47			
EM90W-03225150-AP11-04S	4	32	25	150	35			
EM90W-03232150-AP11-03H	3	32	32	150	50			
EM90W-03232150-AP11-04S	4	32	32	150	50			

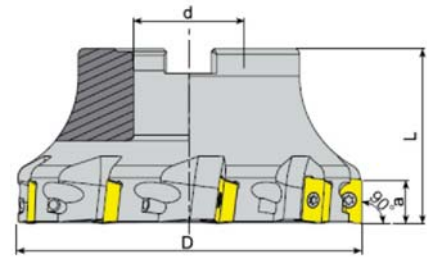


90° End Mill



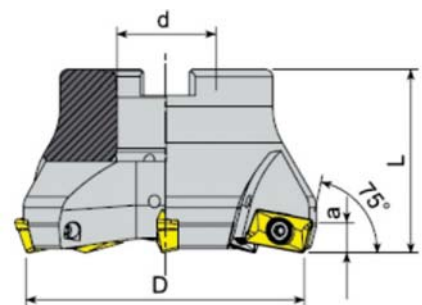
Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90C-02020150-AP12-02S	2	20	20	150	30	APKT1204..	1510-M3.5x7	80-T10
EM90C-02120150-AP12-02S	2	21	20	150	30			
EM90C-02120200-AP12-02S	2	21	20	200	30			
EM90C-02525150-AP12-03S	3	25	25	150	40			
EM90C-02625250-AP12-02S	2	26	25	250	35			
EM90C-03225150-AP12-03S	3	32	25	150	35			
EM90C-02520100-AP16-02S	2	25	20	100	35	APKT1604..	1515-M4x9	80-T15
EM90W-02525100-AP16-02H	2	25	25	100	35			
EM90W-03225150-AP16-02S	2	32	25	150	50			
EM90C-02525250-AP16-02S	2	25	25	250	100			
EM90W-02825100-AP16-03H	3	28	25	100	40			
EM90W-02825150-AP16-03S	3	28	25	150	40			
EM90W-03025110-AP16-03H	3	30	25	110	40			
EM90W-03025150-AP16-03S	2	30	25	150	40			
EM90W-03232110-AP16-03H	3	32	25	110	40			
EM90C-03232150-AP16-03S	3	32	32	150	40			
EM90W-03225150-AP16-03S	3	32	32	150	50			
EM90W-03232150-AP16-03S	3	32	25	150	40			
EM90W-03232150-AP16-03H	3	32	32	150	50			
EM90C-03232250-AP16-02S	3	32	32	250	50			
EM90C-03232250-AP16-03S	2	32	32	250	100			
EM90W-03532150-AP16-03S	3	35	32	150	100			
EM90W-03625110-AP16-03H	3	36	32	110	40			
EM90W-03625150-AP16-03S	3	36	32	150	40			
EM90W-04032110-AP16-04H	3	40	32	110	40			
EM90C-04032150-AP16-04S	4	40	32	150	40			
EM90W-04032150-AP16-04S	4	40	32	150	40			
EM90C-04032250-AP16-02S	4	40	32	250	40			
EM90C-04032250-AP16-04S	2	40	32	250	40			

90° Face Mill



Part No.	Z	D	d	L	Insert	Screw	Wrench	Mounting Screw
FM90-040A1600-AP16-04H	4	40	16	40	APKT1604..	1515M4x11	80-T15	2506-M8x30
FM90-050A2200-AP16-05H	5	50	22	40				2508-M10x30
FM90-052A2200-AP16-05H	5	52	22	40				2508-M10x30
FM90-063A2200-AP16-06H	6	63	22	40				2508-M10x30
FM90-080A2700-AP16-07H	7	80	27	50				2510-M12x35
FM90-100A3200-AP16-08H	8	100	32	50				2514-M16x35
FM90-125B4000-AP16-09S	9	125	40	63				-
FM90-160C4000-AP16-10S	10	160	40	63				-
FM90-200C6000-AP16-12S	12	200	60	63				-

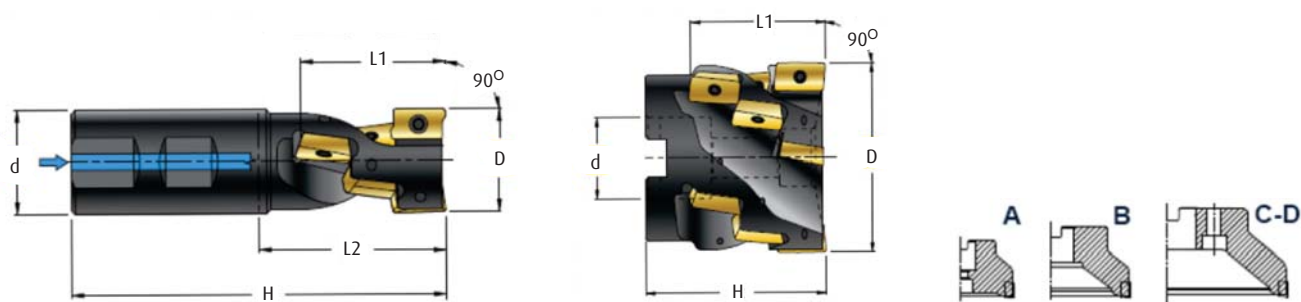
75° Face Mill



Part No.	Z	D	d	L	a	Insert	Screw	Wrench	Mounting Screw
FM75-063A2200-AP16-04H	4	63	22	40	6	APKT1604..	1515M4x11	80-T15	2508-M10x30
FM75-080A2700-AP16-05H	5	80	27	50	6				2510-M12x35
FM75-100A3200-AP16-06H	6	100	32	50	6				2514-M16x35
FM75-125B4000-AP16-07S	7	125	40	63	6				-



Procupine End Mill

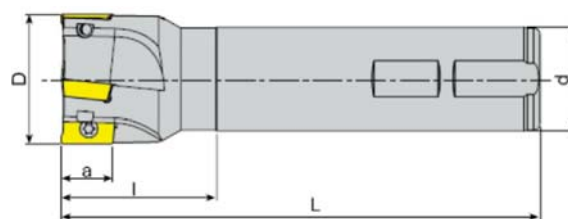


Part No.	Z	D	d	H	L1	N	Insert	Screw	Wrench
PE90W-02525029-AP16-02H	1	25	25	95	29	2	APKT1604..	C04008P	5615P
PE90W-03232044-AP16-06H	2	32	32	115	44	6		C04011P	
PE90W-04032058-AP16-08H	2	40	32	130	58	8			
PS90-050A2730-AP16-06H	3	50	27	50	30	6			
PS90-063A2744-AP16-12H	4	63	27	60	44	12			
PS90-080A3244-AP16-15H	5	80	32	60	44	15			
PS90-100B4044-AP16-18H	6	100	40	60	44	18			
PS90-125B4044-AP16-21H	7	125	40	60	44	21			

- Z = Number of Flutes.

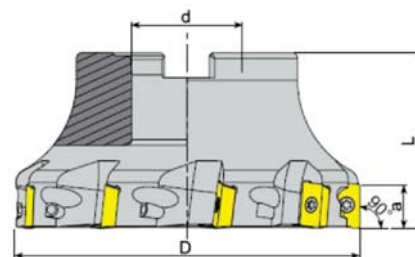
- N = Number of insert pockets.

90° End Mill



Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90C-02525120-AP17-02S	2	25	25	120	40	APKT1705..	1515-M4x9	80-T15
EM90C-02625200-AP17-02S	2	26	25	200	40			
EM90C-02625250-AP17-02S	2	26	25	250	40			
EM90C-03225150-AP17-03S	3	32	25	150	40			
EM90C-03332300-AP17-02S	2	33	32	300	40			

90° Face Mill



Part No.	Z	D	d	L	Insert	Screw	Wrench	Mounting Screw
FM90-050A2200-AP17-05H	5	50	22	40	APKT1705..	1515M4x11	80-T15	2508-M10x30
FM90-063A2200-AP17-06H	6	63	22	40				2508-M10x30
FM90-080A2700-AP17-07H	7	80	27	50				2510-M12x35
FM90-100A3200-AP17-08H	8	100	32	50				2514-M16x35

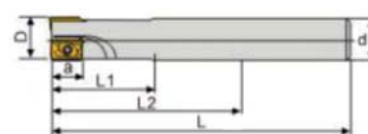
90° End Mill



Fig. 1



Fig. 2



Part No.	Z	Fig.	D	d	L1	L	Insert	Screw	Wrench
SE90C-01010100-AP11-01S	1	A	10	10	25	100	APMT1135..	M2.5x6	T8
SE90C-01110100-AP11-01S	1	A	11	10	9	100			
SE90C-01212130-AP11-01S	1	A	12	12	25	130			
SE90C-01312130-AP11-01S	1	A	13	12	9	130			
SE90C-01615120-AP11-02S	2	A	16	15	9	120			
SE90C-01616120-AP11-02S	2	A	16	16	40	120			
SE90C-01615160-AP11-02S	2	A	16	15	9	160			
SE90C-01616160-AP11-02S	2	A	16	16	50	160			
SE90C-01615200-AP11-02S	2	A	16	15	9	200			
SE90C-01616200-AP11-02S	2	B	16	16	60	200			
SE90C-01616250-AP11-02S	2	B	16	16	60	250			
SE90C-016156160-AP11-02S	2	A	16	15.6	9	160			
SE90C-016156200-AP11-02S	2	A	16	15.6	9	200			
SE90C-01716120-AP11-02S	2	A	16	16	9	120			
SE90C-01716160-AP11-02S	2	A	17	16	9	160			
SE90C-01716200-AP11-02S	2	A	17	16	9	200			
SE90C-02019160-AP11-02S	2	A	20	19	9	160			
SE90C-02019200-AP11-02S	2	A	20	19	9	200			
SE90C-02020120-AP11-02S	2	A	20	20	50	120			
SE90C-02020160-AP11-02S	2	A	20	20	60	160			
SE90C-02120160-AP11-02S	2	A	21	20	9	160			
SE90C-02020200-AP11-02S	2	B	20	20	70	200			
SE90C-02120200-AP11-02S	2	A	21	20	9	200			
SE90C-02020250-AP11-02S	2	B	20	20	70	250			
SE90C-02120250-AP11-02S	2	A	21	20	9	250			



90° End Mill



Fig. 1

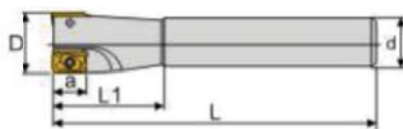
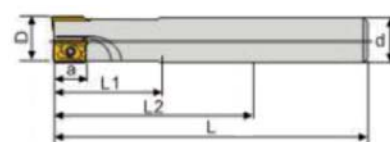
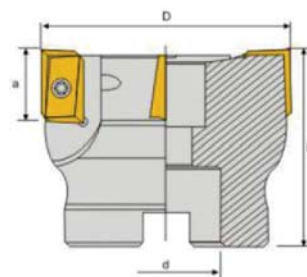


Fig. 2



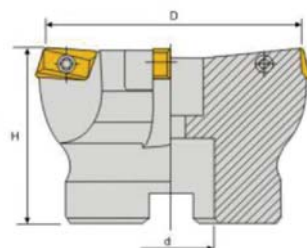
Part No.	Z	Fig.	D	d	L1	L	Insert	Screw	Wrench
SE90C-02524160-AP16-02S	2	A	25	24	14	160	APMT1604..	M4x8	T15
SE90C-02525160-AP16-02S	2	A	25	25	70	160			
SE90C-02524200-AP16-02S	2	A	25	24	14	200			
SE90C-02525200-AP16-02S	2	B	25	25	70	200			
SE90C-02524250-AP16-02S	2	A	25	24	14	250			
SE90C-02525250-AP16-02S	2	B	25	25	80	250			
SE90C-02525300-AP16-02S	2	B	25	25	80	300			
SE90C-02625160-AP16-02S	2	A	26	25	14	160			
SE90C-02625200-AP16-02S	2	A	26	25	14	200			
SE90C-02625250-AP16-02S	2	A	26	25	14	250			
SE90C-03232160-AP16-02S	2	A	32	32	48	160			
SE90C-03232200-AP16-02S	2	B	32	32	48	200			
SE90C-03232250-AP16-02S	2	B	32	32	48	250			
SE90C-03232300-AP16-02S	2	A	35	32	48	300			
SE90C-03232350-AP16-02S	2	A	35	32	48	350			
SE90C-03532160-AP16-02S	2	A	35	32	48	160			
SE90C-03532160-AP16-03S	3	A	35	32	60	160			
SE90C-03532200-AP16-02S	2	A	35	32	48	200			
SE90C-03532200-AP16-03S	3	A	35	32	60	200			
SE90C-03532250-AP16-02S	2	A	35	32	60	250			
SE90C-03532250-AP16-03S	3	A	35	32	60	250			
SE90C-03532300-AP16-02S	2	A	35	32	60	300			
SE90C-03532300-AP16-03S	3	A	35	32	60	300			
SE90C-03532350-AP16-02S	2	A	35	32	60	350			
SE90C-03532350-AP16-03S	3	A	35	32	60	350			
SE90C-03532400-AP16-02S	2	A	35	32	60	400			
SE90C-03532400-AP16-03S	3	A	35	32	60	400			
SE90C-03532450-AP16-02S	2	A	35	32	60	450			
SE90C-03532450-AP16-03S	3	A	35	32	60	450			
SE90C-03532500-AP16-02S	2	A	35	32	60	500			
SE90C-03532500-AP16-03S	3	A	35	32	60	500			
SE90C-04032200-AP16-03S	3	A	40	32	60	200			
SE90C-04032250-AP16-03S	3	A	40	32	60	250			
SE90C-04032300-AP16-03S	3	A	40	32	60	300			

90° Face Mill



Part No.	Z	D	d	H	Insert	Screw	Wrench
SFM90-050A2200-AP16-03S	3	50	22	50	APMT1604..	M4	T15
SFM90-050A2200-AP16-04S	4	50	22	50			
SFM90-050A2540-AP16-03S	3	50	25.4	50			
SFM90-050A2540-AP16-04S	4	50	25.4	50			
SFM90-063A2200-AP16-04S	4	63	22	50			
SFM90-063A2200-AP16-05S	5	63	22	50			
SFM90-063A2540-AP16-04S	4	63	25.4	50			
SFM90-063A2540-AP16-05S	5	63	25.4	50			
SFM90-080A2540-AP16-05S	5	80	25.4	50			
SFM90-080A2700-AP16-05S	5	80	27	50			
SFM90-100A3175-AP16-06S	6	100	31.75	50			
SFM90-100A3200-AP16-06S	6	100	32	50			
SFM90-125B3810-AP16-08S	8	125	38.1	63			
SFM90-125B4000-AP16-08S	8	125	40	63			
SFM90-160B4000-AP16-08S	8	160	40	63			
SFM90-160B5080-AP16-08S	8	160	50.8	63			

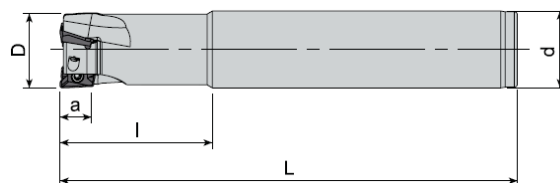
75° Face Mill



Part No.	Z	D	d	H	Insert	Screw	Wrench
SFM75-063A2540-AP16-04S	4	63	25.4	50	APMT1604..	M4	T15
SFM75-063A2200-AP16-04S	5	80	31.75	50			
SFM75-080A3175-AP16-05S	4	63	22	50			
SFM75-080A2700-AP16-05S	5	80	27	50			

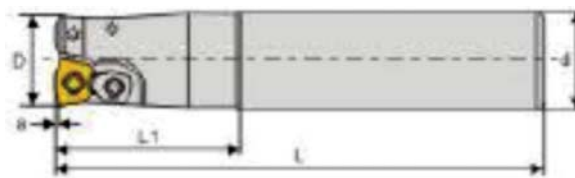


90° End Mill



Part No.	Z	D	d	L	l	Insert	Screw	Wrench
EM90W-01616100-BD11-02H	2	16	16	100	30	BDMT11T3..	3008-M2.5x6	80-T08
EM90W-01616150-BD11-02S	2	16	16	150	50			
EM90W-02020100-BD11-03H	3	20	20	100	30			
EM90W-02020150-BD11-03S	3	20	20	150	50			
EM90W-02525100-BD11-03H	3	25	25	100	30			
EM90W-02525150-BD11-03S	3	25	25	150	50			
EM90W-03232110-BD11-04H	4	32	32	110	40			
EM90W-03232150-BD11-04S	4	32	32	150	50			

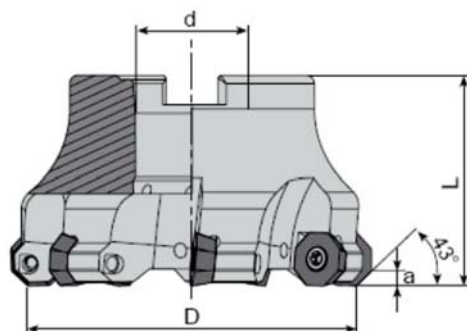
High Feed End Mill



Part No.	Z	D	d	a	L1	L	Insert	Screw	Wrench
HFEM-02525160-JD09-02S	2	25	25	2	80	160	JDMT/ JDMW09T320	M3.5x9	T15
HFEM-02825160-JD09-02S	2	28	25	2	40	160			
HFEM-02525200-JD09-02S	2	25	25	2	120	200			
HFEM-02825200-JD09-02S	2	28	25	2	40	200			
HFEM-02525250-JD09-02S	2	25	25	2	130	250			
HFEM-02825250-JD09-02S	2	28	25	2	40	250			
HFEM-03032160-JD12-02S	2	30	32	2	70	160	JDMT/ JDMW120420	M4x10	T15
HFEM-03032200-JD12-02S	2	30	32	2	120	200			
HFEM-03032250-JD12-02S	2	30	32	2	130	250			
HFEM-03232160-JD12-02S	2	32	32	2	70	160			
HFEM-03232200-JD12-02S	2	32	32	2	120	200			
HFEM-03232250-JD12-02S	2	32	32	2	130	250			
HFEM-03532160-JD12-02S	2	35	32	2	70	160			
HFEM-03532200-JD12-02S	2	35	32	2	70	200			
HFEM-03532250-JD12-02S	2	35	32	2	70	250			
HFEM-04032200-JD12-02S	2	40	32	2	70	200			
HFEM-04032250-JD12-02S	2	40	32	2	70	250			
HFEM-04032300-JD12-02S	2	40	32	2	70	300			
HFEM-04042200-JD12-02S	2	40	42	2	120	200			
HFEM-04042250-JD12-02S	2	40	42	2	130	250			
HFEM-04042300-JD12-02S	2	40	42	2	180	300			
HFFM-050A2200-JD12-03S	3	50	42	2	70	200			
HFFM-050A2200-JD12-04S	4	50	42	2	120	200			
HFFM-063A2200-JD12-03S	3	63	42	2	130	200			
HFFM-063A2200-JD12-04S	4	63	42	2	180	200			
HFFM-050A2540-JD12-03S	3	50	42	2	70	250			
HFFM-050A2540-JD12-04S	4	50	42	2	120	250			
HFFM-063A2540-JD12-03S	3	63	42	2	130	250			
HFFM-063A2540-JD12-04S	4	63	42	2	180	250			

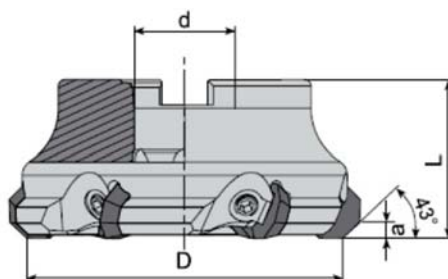


43° Face Mill



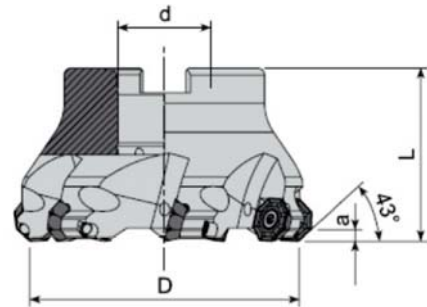
Part No.	Z	D	d	L	a	Insert	Screw	Wedge Clamp	Clamp Screw	Torx Key	Mounting Screw
FM43-080A2700-OD06-06H	6	80	27	50	3.5	ODMT/ODMW0605..	1020-M5x11	ACK-05	1515-M4x11	80-T20	2510-M12x35
FM43-100A3200-OD06-07H	7	100	32	50	3.5						2514-m16X35
FM43-125B4000-OD06-08S	8	125	40	63	3.5						-

43° Face Mill



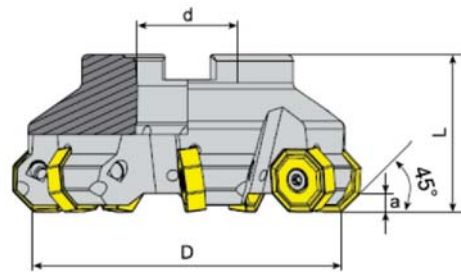
Part No.	Z	D	d	L	a	Insert	Wedge Clamp	Clamp Screw	Allen Key	Mounting Screw
FM43-063A2200-OF07-04S	4	63	22	45	4	OFER/ OFKR0704..	ACK-11	AKV-15-M8x1x20	AAL-05-4	2508-M10x30
FM43-080A2700-OF07-05S	5	80	27	50	4					2510-M12x35
FM43-100A3200-OF07-06S	6	100	32	50	4					2514-M16x35
FM43-125B4000-OF07-08S	8	125	40	63	4					-
FM43-160C4000-OF07-09S	9	160	40	63	4					-

43° Face Mill



Part No.	Z	D	d	L	a	Insert	Screw	Torx Key	Mounting Screw
FM43-050A2200-OF05-05H	5	50	22	40	3	OFMT05T308	1515-M4x9	80-T15	2407-M10x30
FM43-063A2200-OF05-06H	6	63	22	40	3		1515-M4x11		2407-M10x30
FM43-080A2700-OF05-07H	7	80	27	50	3		1515-M4x11		2510-M12x35
FM43-125B4000-OF05-09S	9	125	40	63	3		1515-M4x11		-

45° Face Mill



Part No.	Z	D	d	L	a	Insert	Screw	Torx Key	Mounting Screw
FM45-063A2200-ON08-05H	5	63	22	40	4	ONMU0806..	1020-M5x11	80-T20	2508-M10x30
FM45-080A2700-ON08-06H	6	80	27	50	4				2510-M12x35
FM45-100A3200-ON08-07H	7	100	32	50	4				2514-M16x35
FM45-125A4000-ON08-08H	8	125	40	63	4				-
FM45-160C4000-ON08-10S	10	160	40	63	4				-
FM45-200C6000-ON08-12S	12	200	60	63	4				-



Profile End Mill

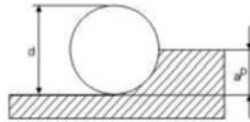


Fig. 1

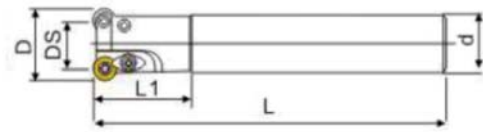
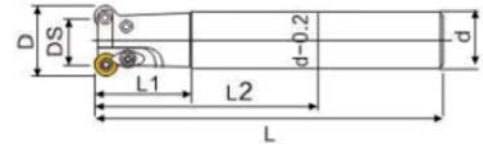


Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-01212130-RD0802-01S	1	A	12	4	12	35	130	RDMT0802	M3x6 M3x7	T8
PEM-01312130-RD0802-02S	1	A	13	4	12	35	130			
PEM-01615160-RD0802-02S	2	A	16	8	15	50	160			
PEM-01615200-RD0802-02S	2	A	16	8	15	50	200			
PEM-01616160-RD0802-02S	2	A	16	8	16	50	160			
PEM-01616200-RD0802-02S	2	B	16	8	16	50	200			
PEM-01716160-RD0802-02S	2	A	17	9	16	50	160			
PEM-01716200-RD0802-02S	2	A	17	9	16	50	200			
PEM-02019160-RD0802-02S	2	A	20	12	19	60	160			
PEM-02019200-RD0802-02S	2	A	20	12	19	70	200			
PEM-02020160-RD0802-02S	2	A	20	12	20	60	160			
PEM-02020200-RD0802-02S	2	B	20	12	20	70	200			
PEM-02121160-RD0802-02S	2	A	21	13	20	60	160			
PEM-02121200-RD0802-02S	2	A	21	13	20	70	200			

Profile End Mill



Fig. 1

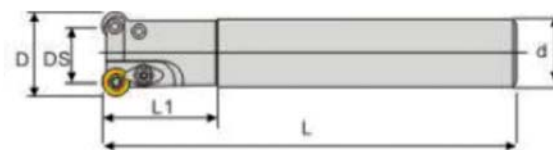
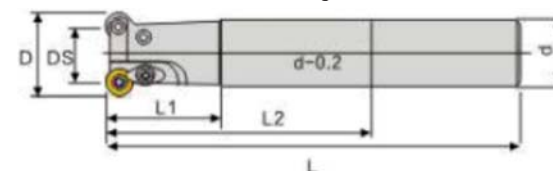


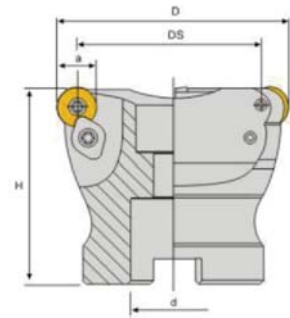
Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-02020160-RD10T3-02S	2	A	20	16	20	60	160	RDMT/ RDMW10T3	M4x8 M3.5x9	T15 T15
PEM-02020200-RD10T3-02S	2	B	20	20	20	70	200			
PEM-02520160-RD10T3-02S	2	A	25	16	20	40	160			
PEM-02520200-RD10T3-02S	2	A	25	20	20	40	200			
PEM-02524160-RD10T3-02S	2	A	25	16	24	60	160			
PEM-02524200-RD10T3-02S	2	B	25	20	24	70	200			
PEM-02524250-RD10T3-02S	2	B	25	25	24	80	250			
PEM-02525160-RD10T3-02S	2	A	25	16	25	40	160			
PEM-02525200-RD10T3-02S	2	A	25	20	25	40	200			
PEM-02525250-RD10T3-02S	2	A	25	25	25	40	250			
PEM-02625160-RD10T3-02S	2	A	26	16	25	48	160			
PEM-02625200-RD10T3-02S	2	A	26	20	25	48	200			
PEM-02625250-RD10T3-02S	2	A	26	25	25	48	250			
PEM-03025160-RD10T3-02S	3	A	30	16	25	48	160			
PEM-03025200-RD10T3-02S	3	A	30	20	25	48	200			
PEM-03025250-RD10T3-02S	3	A	30	25	25	48	250			
PEM-03532160-RD10T3-02S	3	A	35	16	32	48	160			
PEM-03532200-RD10T3-02S	3	A	35	20	32	48	200			
PEM-03532250-RD10T3-02S	3	A	35	25	32	48	250			
PEM-03532300-RD10T3-02S	3	A	35	30	32	48	300			
PEM-03532350-RD10T3-02S	3	A	35	35	32	48	350			
PEM-03532160-RD10T3-03S	3	A	35	16	32	48	160			
PEM-03532200-RD10T3-03S	3	A	35	20	32	48	200			
PEM-03532250-RD10T3-03S	3	A	35	25	32	48	250			
PEM-03532300-RD10T3-03S	3	A	35	30	32	48	300			
PEM-03532350-RD10T3-03S	3	A	35	35	32	48	350			
PEM-04032160-RD10T3-03S	4	A	40	16	32	48	160			
PEM-04032200-RD10T3-03S	4	A	40	20	32	48	200			
PEM-04032250-RD10T3-03S	4	A	40	25	32	48	250			
PEM-04032300-RD10T3-03S	4	A	40	30	32	48	300			



Profile Face Mill



Part No.	Z	D	DS	d	H	Insert	Clamp	Screw	Wrench
PFM-050A2200-RD10T3-03S	3	50	40	22	50	RDMT/ RDMW10T3	Y-5R M4	M4	T15
PFM-050A2200-RD10T3-04S	4	50	40	22	50				
PFM-050A2540-RD10T3-03S	3	50	40	25.4	50				
PFM-050A2540-RD10T3-04S	4	50	40	25.4	50				
PFM-063A2200-RD10T3-03S	5	63	53	22	50				
PFM-063A2540-RD10T3-04S	4	63	53	25.4	50				
PFM-063A2540-RD10T3-05S	5	63	53	25.4	50				
PFM-063A2200-RD10T3-05S	5	63	53	27	50				

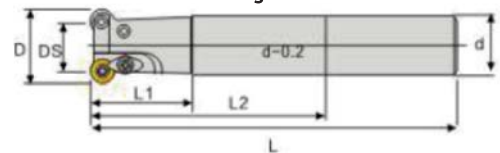
Profile End Mill



Fig. 1



Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-03025160-RD1204-02S	2	A	30	20	25	42	160	RDMT/ RDMW1204	M4x9 M3.5x9	T15
PEM-03025200-RD1204-02S	2	A	30	20	25	42	200			
PEM-03025250-RD1204-02S	2	A	30	20	25	42	250			
PEM-03225160-RD1204-02S	2	A	32	20	25	42	160			
PEM-03225200-RD1204-02S	2	A	32	20	25	42	200			
PEM-03225250-RD1204-02S	2	A	32	20	25	42	250			
PEM-04032160-RD1204-03S	3	A	40	28	32	48	160			
PEM-04032200-RD1204-03S	3	A	40	28	32	48	200			
PEM-04032250-RD1204-03S	3	A	40	28	32	48	250			
PEM-05032160-RD1204-03S	3	A	50	38	32	48	160			
PEM-05032200-RD1204-03S	3	A	50	38	32	48	200			
PEM-05032250-RD1204-03S	3	A	50	38	32	48	250			
PFM-050A2200-RD1204-04S	4	A	50	38	32	48	200			
PFM-063A2200-RD1204-04S	4	A	50	38	32	48	200			
PFM-080A2700-RD1204-06S	6	A	50	38	32	48	250			
PFM-100A3200-RD1204-06S	6	A	50	38	32	48	200			

Profile End Mill

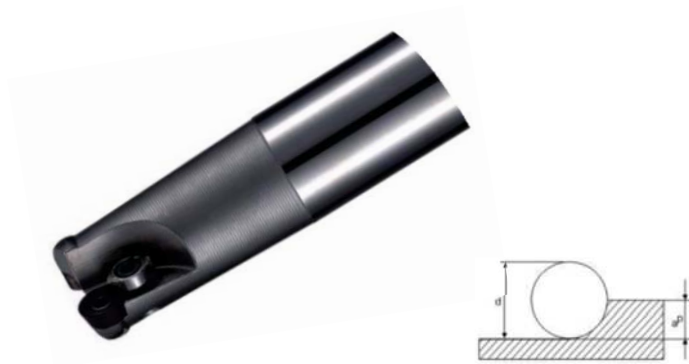


Fig. 1

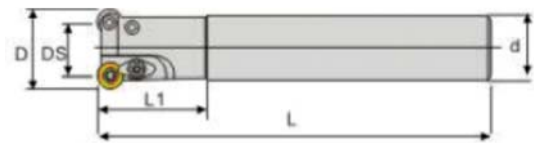
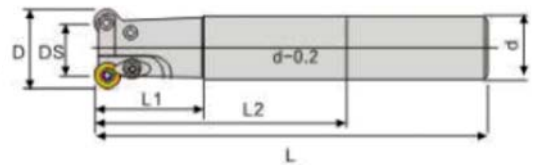


Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-01212130-RP08T2-01S	1	A	13	12	12	30	130	RDMT08T2	M3x6 M3x7	T8
PEM-01312130-RP08T2-02S	2	A	13	13	12	30	130			
PEM-01615160-RP08T2-02S	2	A	16	16	15	60	160			
PEM-01615200-RP08T2-02S	2	A	20	16	15	70	20			
PEM-01616160-RP08T2-02S	2	A	16	16	16	60	160			
PEM-01616200-RP08T2-02S	2	A	20	17	16	70	200			
PEM-01716160-RP08T2-02S	2	A	16	17	16	60	160			
PEM-01716200-RP08T2-02S	2	A	20	17	16	70	200			
PEM-02019160-RP08T2-02S	2	A	16	20	17	60	160			
PEM-02019200-RP08T2-02S	2	A	20	20	17	70	200			
PEM-02020160-RP08T2-02S	2	A	16	20	20	60	160			
PEM-02020200-RP08T2-02S	2	A	20	20	20	70	200			
PEM-02120160-RP08T2-02S	2	A	16	21	20	60	160			
PEM-02120200-RP08T2-02S	2	A	20	21	20	70	200			



Profile End Mill



Fig. 1

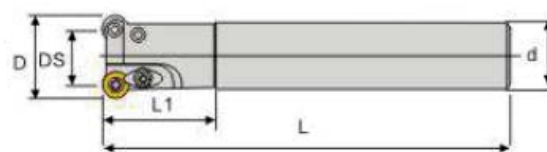
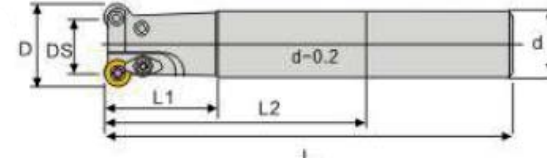


Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-02020160-RP10T3-02S	2	A	20	16	20	60	160	RPMT10T3	M4x8 M3.5x9	T15
PEM-02020200-RP10T3-02S	2	B	20	20	20	70	200			
PEM-02520160-RP10T3-02S	2	A	25	16	20	60	160			
PEM-02520200-RP10T3-02S	2	A	25	20	20	70	200			
PEM-02524160-RP10T3-02S	2	A	25	16	24	60	160			
PEM-02524200-RP10T3-02S	2	B	25	20	24	70	200			
PEM-02524250-RP10T3-02S	2	B	25	25	24	50	250			
PEM-02525160-RP10T3-02S	2	A	25	16	25	60	160			
PEM-02525200-RP10T3-02S	2	A	25	20	25	70	200			
PEM-02525250-RP10T3-02S	2	A	25	25	25	50	250			
PEM-02625160-RP10T3-02S	2	A	26	16	25	60	160			
PEM-02625200-RP10T3-02S	2	A	26	20	25	70	200			
PEM-02625250-RP10T3-02S	2	A	26	25	25	50	250			
PEM-03019110-RP10T3-02S	2	A	30	11	19	10	110			
PEM-03020110-RP10T3-02S	2	A	30	11	20	10	110			
PEM-03025160-RP10T3-02S	2	A	30	16	25	60	160			
PEM-03025200-RP10T3-02S	2	A	30	20	25	70	200			
PEM-03025250-RP10T3-02S	2	A	30	25	25	50	250			
PEM-03532160-RP10T3-02S	2	A	35	16	32	60	160			
PEM-03532200-RP10T3-02S	2	A	35	20	32	70	200			
PEM-03532250-RP10T3-02S	2	A	35	25	32	50	250			
PEM-03532300-RP10T3-02S	2	A	35	30	32	70	300			
PEM-03532350-RP10T3-02S	2	A	35	35	32	50	350			
PEM-03532160-RP10T3-03S	3	A	35	16	32	60	160			
PEM-03532200-RP10T3-03S	3	A	35	20	32	70	200			
PEM-03532250-RP10T3-03S	3	A	35	25	32	50	250			
PEM-03532300-RP10T3-03S	3	A	35	30	32	70	300			
PEM-03532350-RP10T3-03S	3	A	35	35	32	50	350			

Profile End Mill



Fig. 1

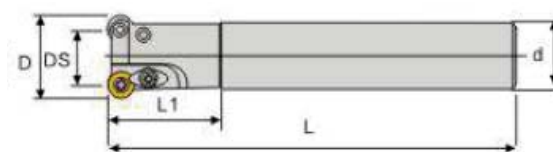
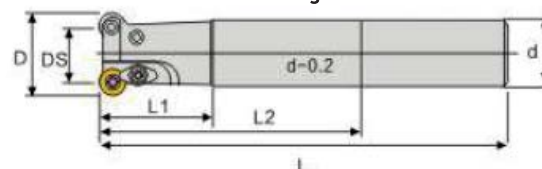
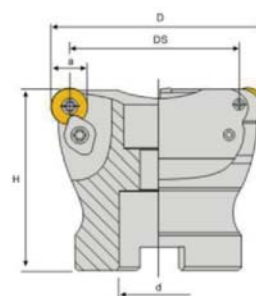


Fig. 2



Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-03025160-RP1204-02S	2	A	30	20	25	42	160	RPMT1204	M4x9 M3.5x9	T15
PEM-03025200-RP1204-02S	2	A	30	20	25	42	200			
PEM-03025250-RP1204-02S	2	A	30	20	25	42	250			
PEM-03225160-RP1204-02S	2	A	32	20	25	42	160			
PEM-03225200-RP1204-02S	2	A	32	20	25	42	200			
PEM-03225250-RP1204-02S	2	A	32	20	25	42	250			
PEM-04032160-RP1204-03S	3	A	40	28	32	48	150			
PEM-04032200-RP1204-03S	3	A	40	28	32	48	200			
PEM-04032250-RP1204-03S	3	A	40	28	32	48	250			
PEM-04032300-RP1204-03S	3	A	40	28	32	48	300			
PEM-05032160-RP1204-04S	4	A	50	38	32	48	160			
PEM-05032200-RP1204-04S	4	A	50	38	32	48	200			
PEM-05032250-RP1204-04S	4	A	50	38	32	48	250			

Profile Face Mill



Part No.	Z	D	DS	d	H	Insert	Clamp	Screw	Wrench
PFM-050A2200-RP1204-03S	3	50	38	22	50	RPMT1204	5R	M4	T15
PFM-050A2200-RP1204-04S	4	50	38	22	50				
PFM-050A2540-RP1204-03S	3	50	38	25.4	50				
PFM-050A2540-RP1204-04S	4	50	38	25.4	50				
PFM-063A2200-RP1204-04S	4	63	41	22	50				
PFM-063A2200-RP1204-05S	5	63	41	22	50				
PFM-063A2540-RP1204-04S	4	63	41	25.4	50				
PFM-063A2540-RP1204-05S	5	63	41	25.4	50				
PFM-080A2700-RP1204-05S	5	80	68	27	50				
PFM-080A2700-RP1204-06S	6	80	68	27	50				
PFM-080A3175-RP1204-05S	5	80	68	31.75	50				
PFM-100A3175-RP1204-06S	6	100	88	31.75	50				
PFM-100A3200-RP1204-05S	5	100	88	32	50				
PFM-100A3200-RP1204-06S	6	100	88	32	50				



Profile End Mill



Fig. 1

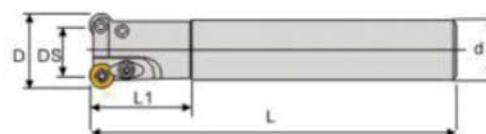
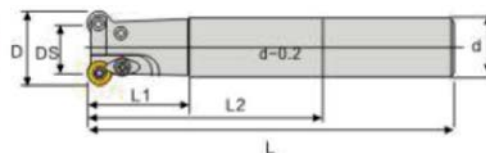
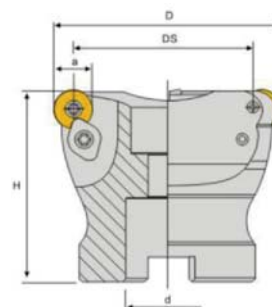


Fig. 2



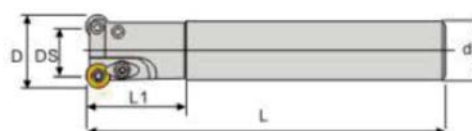
Part No.	Z	Fig.	D	DS	d	L1	L	Insert	Screw	Wrench
PEM-02020160-RP1003-02S	2	A	20	16	20	60	160	RPMW1003	M4x9 M3.5x9	T15
PEM-02020200-RP1003-02S	2	A	20	20	20	70	200			
PEM-02520160-RP1003-02S	2	A	25	16	20	60	160			
PEM-02520200-RP1003-02S	2	B	25	20	20	70	200			
PEM-02524160-RP1003-02S	2	B	25	16	24	60	160			
PEM-02524200-RP1003-02S	2	A	25	20	24	70	200			
PEM-02524250-RP1003-02S	2	A	25	25	24	50	250			
PEM-02525160-RP1003-02S	2	A	25	16	25	60	160			
PEM-02525200-RP1003-02S	2	A	25	20	25	70	200			
PEM-02525250-RP1003-02S	2	A	25	25	25	50	250			
PEM-02625160-RP1003-02S	2	A	26	16	25	60	160			
PEM-02625200-RP1003-02S	2	A	26	20	25	70	200			
PEM-02625250-RP1003-02S	2	A	26	25	25	50	250			
PEM-03019110-RP1003-02S	2	A	30	11	19	110	110			
PEM-03020110-RP1003-02S	2	A	30	11	20	110	110			
PEM-03025160-RP1003-02S	2	A	30	16	25	60	160			
PEM-03025200-RP1003-02S	2	A	30	20	25	70	200			
PEM-03025250-RP1003-02S	2	A	30	25	25	50	250			
PEM-03532160-RP1003-02S	2	A	35	16	32	60	160			
PEM-03532200-RP1003-02S	2	A	35	20	32	70	200			
PEM-03532250-RP1003-02S	2	A	35	25	32	50	250			
PEM-03532300-RP1003-02S	2	A	35	30	32	70	300			
PEM-03532350-RP1003-02S	2	A	35	35	32	50	350			
PEM-03532160-RP1003-03S	3	A	35	16	32	60	160			
PEM-03532200-RP1003-03S	3	A	35	20	32	70	200			
PEM-03532250-RP1003-03S	3	A	35	25	32	50	250			
PEM-03532300-RP1003-03S	3	A	35	30	32	70	300			
PEM-03532350-RP1003-03S	3	A	35	35	32	50	350			
PEM-04032160-RP1003-03S	3	A	40	16	32	60	160			
PEM-04032200-RP1003-03S	3	A	40	20	32	70	200			
PEM-04032250-RP1003-03S	3	A	40	25	32	50	250			
PEM-04032300-RP1003-03S	3	A	40	30	32	70	300			
PEM-04032350-RP1003-03S	3	A	40	35	32	50	350			

Profile Face Mill



Part No.	Z	D	DS	d	H	Insert	Clamp	Screw	Wrench
PFM-050A2200-RPMW10-03S	3	50	38	22	50	RPMW1003	5R	M4	T15
PFM-050A2200-RPMW10-04S	4	50	38	22	50				
PFM-050A2540-RPMW10-03S	3	50	38	25.4	50				
PFM-050A2540-RPMW10-04S	4	50	38	25.4	50				
PFM-063A2200-RPMW10-04S	4	63	41	22	50				
PFM-063A2200-RPMW10-05S	5	63	41	22	50				
PFM-063A2540-RPMW10-04S	4	63	41	25.4	50				
PFM-063A2540-RPMW10-05S	5	63	41	25.4	50				

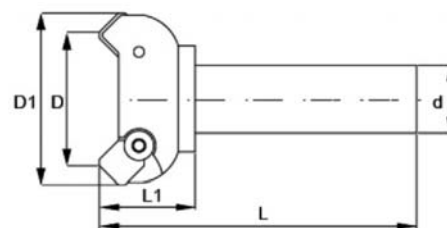
Profile Face Mill



Part No.	Z	D	DS	d	L1	L	Insert	Clamp	Screw	Wrench
PEM-03025160-RPMW12-02S	2	30	20	25	42	160	RPMW1204	Y-6R	M4X9 M3.5X9	T15
PEM-03025200-RPMW12-02S	2	30	20	25	42	200				
PEM-03025250-RPMW12-02S	2	30	20	25	42	250				
PEM-03225160-RPMW12-02S	2	32	20	25	42	160				
PEM-03225200-RPMW12-02S	2	32	20	25	42	200				
PEM-03225250-RPMW12-02S	2	32	20	25	42	250				
PEM-04032160-RPMW12-03S	3	40	28	32	48	160				
PEM-04032200-RPMW12-03S	3	40	28	32	48	200				
PEM-04032250-RPMW12-03S	3	40	28	32	48	250				
PEM-04032300-RPMW12-03S	3	40	28	32	48	300				
PEM-05032160-RPMW12-04S	4	50	38	32	48	160				
PEM-05032200-RPMW12-04S	4	50	38	32	48	200				
PEM-05032250-RPMW12-04S	4	50	38	32	48	250				

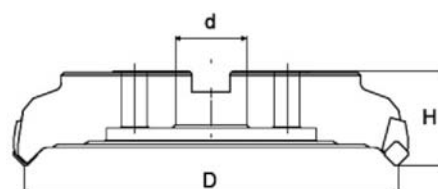


45° End Mill



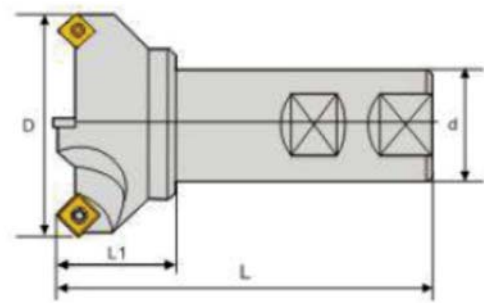
Part No.	Z	D	D1	d	L1	L	Insert	Screw	Wrench
CEM-05025150-SEKN12-03	3	50	62	25	45	150	SEKN1203	SCR-W1/4L	WRN-M4L
CEM-05032150-SEKN12-03	3	50	62	32	45	150			
CEM-06325150-SEKN12-04	4	63	74	25	45	150			
CEM-06332150-SEKN12-04	4	63	74	32	45	150			

45° Face Mill



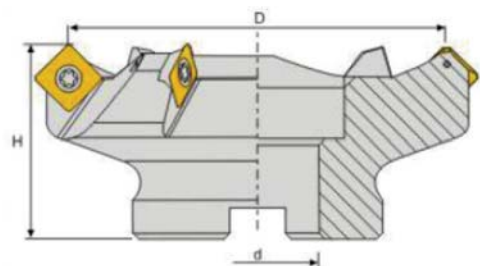
Part No.	Z	D	d	d*	H	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Wrench
CFM-080A2700-SEKN12-05	5	80	25.4	27	50	SEKN1203	CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
CFM-100A3200-SEKN12-05	5	100	31.75	32	55						
CFM-125B4000-SEKN12-06	6	125	38.1	40	60						
CFM-160C4000-SEKN12-08	8	160	50.8	40	60						
CFM-200C6000-SEKN12-10	10	200	47.625	60	60						
CFM-250C6000-SEKN12-12	12	250	47.625	60	60						
CFM-300C6000-SEKN12-14	14	300	47.625	60	60	SEKN1504	CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
CFM-080A2700-SEKN15-05	5	80	25.4	27	50						
CFM-100A3200-SEKN15-05	5	100	31.75	32	55						
CFM-125B4000-SEKN15-06	6	125	38.1	40	60						
CFM-160C4000-SEKN15-08	8	160	50.8	40	60						
CFM-200C6000-SEKN15-10	10	200	47.625	60	60						
CFM-250C6000-SEKN15-12	12	250	47.625	60	65						
CFM-300C6000-SEKN15-14	14	300	47.625	60	65						

45° End Mill



Part No.	Z	D	d	L1	L	Insert	Screw	Wrench
EM45-05020120-SEKT12-04	4	50	20	50	120	SEKT1204	M5	T20
EM45-05025120-SEKT12-04	4	50	25	50	120			
EM45-05032120-SEKT12-04	4	50	32	50	120			
EM45-06325120-SEKT12-05	5	63	25	50	120			
EM45-06332120-SEKT12-05	5	63	32	50	120			

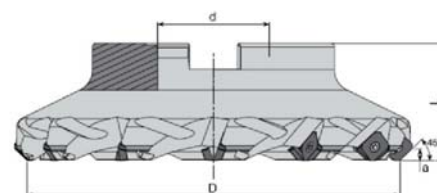
45° Face Mill



Part No.	Z	D	d	H	Insert	Screw	Wrench
FM45-050A2200-SEKT12-04	4	50	22	50	SEKT1204	M5	T20
FM45-063A2200-SEKT12-04	5	63	22	50			
FM45-063A2540-SEKT12-04	5	63	25.4	50			
FM45-080A2700-SEKT12-04	5	80	27	50			
FM45-080A3175-SEKT12-04	5	80	31.75	50			
FM45-100A3175-SEKT12-04	6	100	31.75	50			
FM45-100A3200-SEKT12-04	6	100	32	50			
FM45-125A3810-SEKT12-04	6	125	38.1	63			
FM45-125B4000-SEKT12-04	6	125	40	63			
FM45-160B4000-SEKT12-04	8	160	40	63			

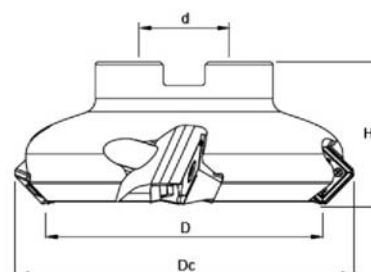


45° Face Mill



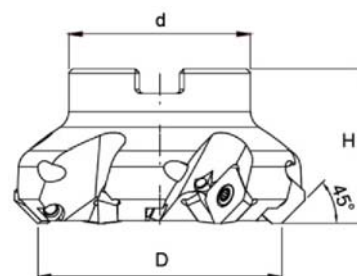
Part No.	Z	D	d	L	Insert	Screw	Torx Key	Mounting Screw
FM45R-050A22-SE12T3-04H	4	50	22	40	SEKT12T3	4015-M3.5x11	80-T15	2407-M10x30
FM45L-050A22-SE12T3-04H	4	50	22	40				2407-M10x30
FM45R-063A22-SE12T3-05H	5	63	22	40				2407-M10x30
FM45L-063A22-SE12T3-05H	5	63	22	40				2407-M10x30
FM45R-080A27-SE12T3-06H	6	80	27	50				2510-M12x35
FM45L-080A27-SE12T3-06H	6	80	27	50				2510-M12x35
FM45R-100A32-SE12T3-07H	7	100	32	50				2514-M16x35
FM45R-125B40-SE12T3-08S	8	125	40	63				-
FM45R-160C40-SE12T3-10S	10	160	40	63				-
FM45R-200C60-SE12T3-12S	12	200	60	63				-

45° Face Mill



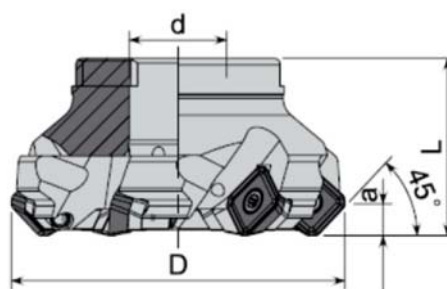
Part No.	Z	D	d	H	Insert	Screw	Wrench
FM45-063A220-SE13T3-06S	6	63	22	50	SEKT13T3	SCR-MSSE3	T15
FM45-080A270-SE13T3-06S	6	80	27	55			
FM45-100A320-SE13T3-06S	6	100	32	55			
FM45-125B400-SE13T3-08S	8	125	40	60			
FM45-160C400-SE13T3-10S	10	160	40	60			
FM45-200C600-SE13T3-12S	12	200	60	60			
FM45-063A254-SE13T3-06S	6	63	25.4	50			
FM45-080A254-SE13T3-06S	6	80	25.4	55			
FM45-100A317-SE13T3-06S	6	100	31.75	55			
FM45-125B381-SE13T3-08S	8	125	38.1	60			
FM45-160C508-SE13T3-10S	10	160	50.8	60			
FM45-200C476-SE13T3-12S	12	200	47.625	60			

45° Face Mill



Part No.	Z	D	d	H	Insert	Screw	Wrench
FM45-050A2200-SE12T-04H	4	50	22	40	SEMT1204	SCR-ASE4M	T15
FM45-063A2200-SE12T-05H	5	63	22	40			
FM45-080A2700-SE12T-06H	6	80	27	45			
FM45-100A3200-SE12T-07H	7	100	32	50			
FM45-125B4000-SE12T-08H	8	125	40	60			
FM45-050A2200-SE12T-04S	4	50	22	40			
FM45-063A2200-SE12T-05S	5	63	22	40			
FM45-080A2700-SE12T-06S	6	80	27	45			
FM45-100A3200-SE12T-07S	7	100	32	50			

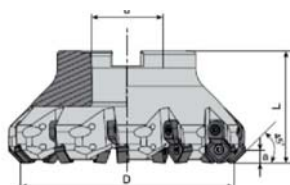
45° Face Mill



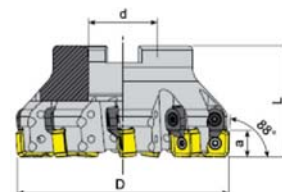
Part No.	Z	D	d	L	Insert	Screw	Wedge Clamp	Screw	Torx Key	Mounting Screw
FM45R-050A2200-SE13-04H	4	50	22	40	-	-	-	4015-33.5x15	80-T15	2407-M10x3
FM45R-063A2200-SE13-05H	5	63	22	40						2407-M12x3
FM45R-080A2700-SE13-06H	6	80	27	50						2510-M12x3
FM45S-050A2200-SE13-04H	5	50	22	40	SEMT13T3	AASE-3-0001	AAV-16-M3.5x8	4015-M3.5x12		2407-M10x3
FM45S-063A2200-SE13-05H	6	63	22	40						2407-M10x3
FM45S-080A2700-SE13-06H	8	80	27	50						2510-M12x3
FM45S-100A3200-SE13-10H	10	100	32	50						2514-M16x3
FM45S-125B4000-SE13-12S	12	125	40	63						-



45° & 88° Face Mill



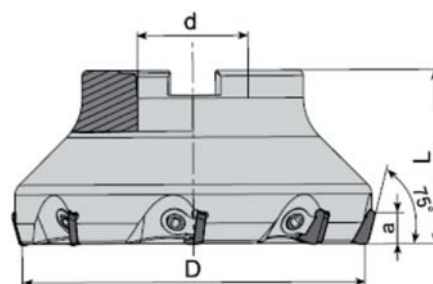
45° Face Mill



88° Face Mill

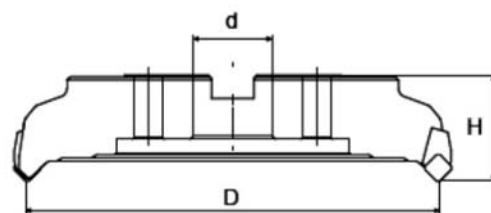
Part No.	Z	D	d	L	a	Insert	Screw	Wedge Clamp	Clamp Screw	Torx Key	Mounting Screw
FM45R-050A2200-SN12-05H	5	50	22	42	6	SNMX1206	1515-M4x11	ACK-05	1515-M4x11	80-T15	2407-M10x30
FM45R-063A2200-SN12-07H	7	63	22	42	6						2407-M10x30
FM45L-063A2200-SN12-07H	7	63	22	42	6						2407-M10x30
FM45R-080A2700-SN12-08H	8	80	27	52	6						2510-M12x35
FM45R-100A3200-SN12-10H	10	100	32	52	6						2514-M16x35
FM45L-100A3200-SN12-10H	10	100	32	52	6						2514-M16x35
FM45R-125B4000-SN12-11S	11	125	40	65	6						-
FM45L-125B4000-SN12-11S	11	125	40	65	6						-
FM45R-160C4000-SN12-12S	12	160	40	65	6						-
FM45R-200C6000-SN12-14S	14	200	60	65	6						-
FM45L-200C6000-SN12-14S	14	200	60	65	6	SNMX1206	1615-M4x11	ACK-05	1515-M4x11	80-T15	2508-M10x30
FM88R-063A2200-SN12-06H	9	63	22	40	11.5						2510-M12x35
FM88R-080A2700-SN12-07H	7	80	27	50	11.5						2514-M16x35
FM88R-100A3200-SN12-09H	9	100	32	52	11.5						2514-M16x35

75° Face Mill



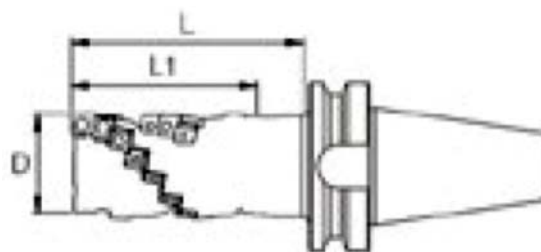
Part No.	Z	D	d	L	a	Insert	Wedge Clamp	Clamp Screw	Allen Key	Mounting Screw
FM75-050A2200-SPKN12-04	4	50	22	42	8	SPKN/ SPKR1203	ACK-10	AKV-13-M8x1x16	AAL-05-4	2508-M10x30
FM75-063A2200-SPKN12-05	5	63	22	40	8					2508-M10x30
FM75-080A2700-SPKN12-06	6	80	27	50	8					2510-M12x35
FM75-100A3200-SPKN12-07	7	100	32	50	8					2514-M16x35
FM75-125B4000-SPKN12-08	8	125	40	63	8					-
FM75-160C4000-SPKN12-09	9	160	40	63	8					-
FM75-200C6000-SPKN12-12	12	200	60	63	8					-

65° Face Mill



Part No.	Z	D	d*	d	H	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Wrench
FM65-080A2700-SPKN15-05	5	80	25.4	27	50	SPKN1504	CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
FM65-100A3200-SPKN15-06	5	100	31.75	32	55						
FM65-125B4000-SPKN15-06	6	125	38.1	40	60						
FM65-160C4000-SPKN15-08	8	150	50.8	40	60						
FM65-200C6000-SPKN15-10	10	200	47.625	60	60						
FM65-250C6000-SPKN15-12	12	250	47.625	60	60						
FM65-300C6000-SPKN15-14	14	300	47.625	60	60						
FM65-355C6000-SPKN15-16	16	355	47.625	60	60						
FM65-405C6000-SPKN15-18	18	405	47.625	60	60						

Procupine Integrated



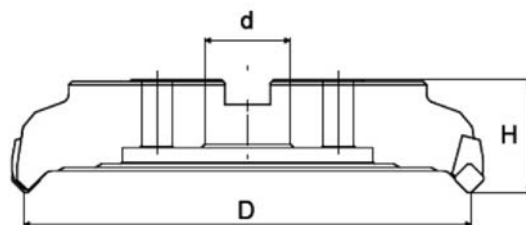
Part No.	Z	D	L1	L	Insert	N	Screw	Wrench
PRBT50-050100-194-30-03	3	50	100	194	SPMT120408	30	SCR-5004	T20
PRBT50-050100-207-30-03	3	50	100	207		30	SCR-5004	
PRBT50-050158-191-45-03	3	50	100	191		30	SCR-5006	
PRBT50-063200-249-57-03	3	50	100	207		30	SCR-5006	
PRBT50-063260-307-75-03	3	50	158	191		45	SCR-5004	
PRBT50-080200-249-76-04	3	50	158	191		45	SCR-5006	

- Z = Number of Flutes.

- N = Number of insert pockets.

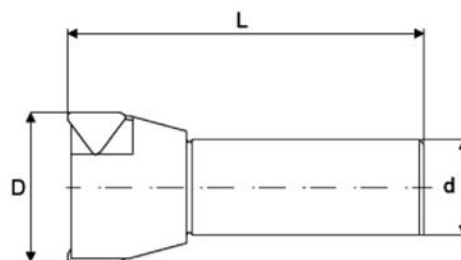


75° Face Mill



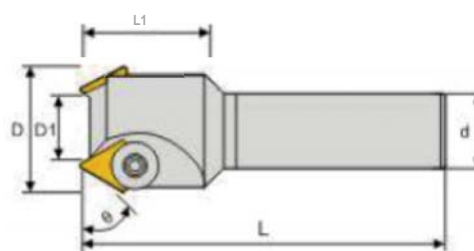
Part No.	Z	D	d*	d	H	Insert	Clamp	Clamp Screw	Shim	Shim Screw	Wrench
FM75-080A2700-SPUN12-05	5	80	25.4	27	50	SPUN120308	CL-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T
FM75-100A3200-SPUN12-06	6	100	31.75	32	55						
FM75-125B4000-SPUN12-08	8	125	38.1	40	60						
FM75-160C4000-SPUN12-10	10	160	50.8	40	60						
FM75-200C6000-SPUN12-12	12	200	47.625	60	65						
FM75-250C6000-SPUN12-16	16	250	47.625	60	65						
FM75-300C6000-SPUN12-20	20	300	47.625	60	65						
FM75-350C6000-SPUN12-24	24	350	47.625	60	65						

90° Face Mill



Part No.	Z	D	d	L	Insert	Screw	Wrench
EM90-01616110-TP16-01	1	16	16	110	TPKN/TPKR1103	SCR-W3/16	WRN-M3L
EM90-02020110-TP11-02	2	20	20	110			
EM90-02525110-TP11-02	2	25	25	110			
EM90-03020130-TP16-02	2	30	20	130	TPKN/TPKR1603	SCR-W1/4	WRN-M4L
EM90-03025130-TP16-02	2	30	25	130			
EM90-03520130-TP16-02	2	35	20	130			
EM90-03525130-TP16-02	2	35	25	130			
EM90-03532150-TP16-02	2	35	32	150			
EM90-04020150-TP16-03	3	40	20	130			
EM90-04025150-TP16-03	3	40	25	130			
EM90-04032150-TP16-03	3	40	32	150			
EM90-04520130-TP16-03	3	45	20	130			
EM90-04525130-TP16-03	3	45	25	130			
EM90-04532150-TP16-03	3	45	32	150			
EM90-05025130-TP16-03	3	50	20	130			
EM90-05032130-TP16-03	3	50	25	130			
EM90-05032150-TP16-03	3	5	32	150			
EM90-05032200-TP16-03	3	50	32	200			
EM90-06332150-TP16-04	4	63	32	150			
EM90-05032150-TP22-02	2	50	32	150	TPKN/TPKR2204	SCR-W5/16	WRN-M5L
EM90-06332150-TP22-03	3	63	32	150			

30°,45°,60° Chamfer End Mill

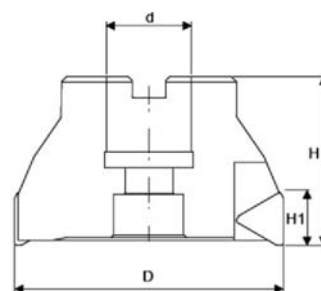


Part No.	Z	D	D1	L1	L	Ø	Insert	Screw	Wrench
CEM30-04025120-TP16-02	2	40	24	25	120	30	TPKN/TPKR1603	M6	L4
CEM30-02020120-TP16-01	1	20	3	20	120	45			
CEM45-03220120-TP16-02	2	32	12	20	120	45			
CEM60-04025120-TP16-02	2	40	24	25	120	60			

- Available milling angle in 30°,45°,60°

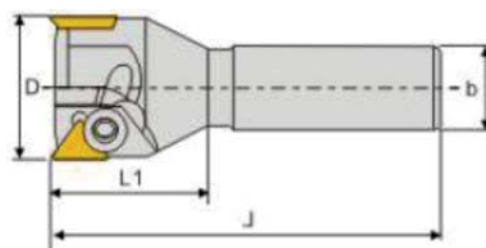


90° Face Mill



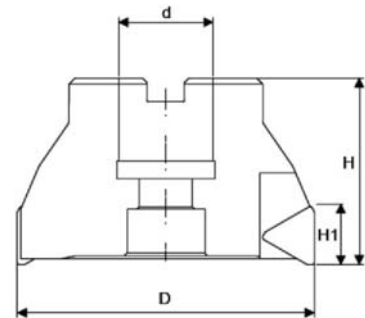
Part No.	Z	D	d*	d	H1	H	Insert	Screw	Wrench
FM90-050A2200-TP22-03	3	50	-	22	16	50	TPKN/TPKR1603	SCR-W1/4	WRN-M4L
FM90-063A2200-TP22-04	4	63	25.4	22	16	50			

90° Face Mill



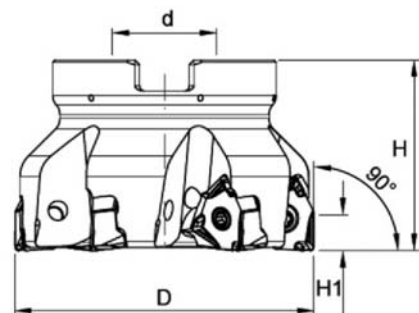
Part No.	Z	D	d	L1	L	Insert	Screw	Wrench
CEM45-05025150-TP22-03	3	22	25	50	150	TPKN/TPKR2204	M6	L4
CEM60-05532150-TP22-03	3	22	32	55	150			

90° Face Mill



Part No.	Z	D	d*	d	H1	H	Insert	Screw	Wrench
FM90-063A2700-TP22-03	3	63	25.4	27	22	50	TPKN/TPKR2204	SCR-W5/16	WRN-M5T
FM90-080A2700-TP22-04	4	80	25.4	27	22	50			
FM90-10032700-TP22-05	5	100	31.75	32	22	55			
FM90-125B4000-TP22-06	6	125	38.1	40	22	60			
FM90-160C4000-TP22-07	7	160	50.8	40	22	60			
FM90-200C6000-TP22-08	8	200	47.625	60	22	60			
FM90-250C6000-TP22-09	9	250	47.625	60	22	60			
FM90-300C6000-TP22-10	10	300	47.625	60	22	60			

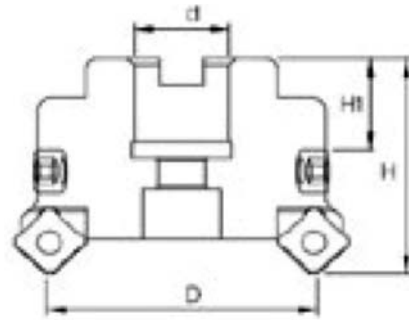
90° Face Mill



Part No.	Z	D	d	H1	H	Insert	Screw	Wrench
FM90-050A2200-XN08-04H	4	50	22	7.5	40	XNEX080608	SC4006	T15
FM90-063A2200-XN08-06H	6	63	22	7.5	40			
FM90-080A2700-XN08-07H	7	80	27	7.5	50			
FM90-100A3200-XN08-08H	8	100	32	7.5	50			
FM90-125B4000-XN08-11H	11	125	40	7.5	63			

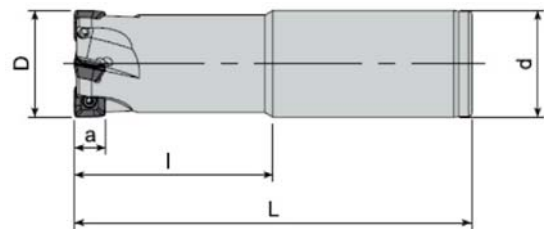


45° Face Mill - AL



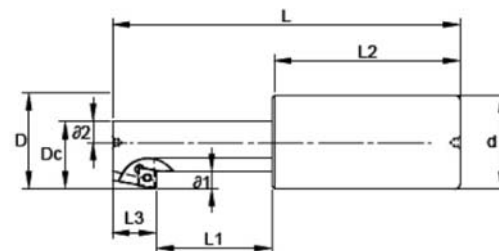
Part No.	Z	D	d	H1	H	Insert	Screw	Wrench
ALFM45-063A2200-SE12-04A	4	63	22	22	50	SEGT/SEKT1204-AL	SC5001	T20
LFM45-080A2200-SE12-04A	4	80	22	23	50			
LFM45-100A2700-SE12-04A	6	100	27	28	50			
LFM45-125A3200-SE12-04A	8	125	32	28	50			
LFM45-160B4000-SE12-04A	8	160	40	32	55			
LFM45-200B4000-SE12-04A	10	200	40	32	55			
LFM45-250B4000-SE12-04	10	250	40	32	55			

Spot Face End Mill



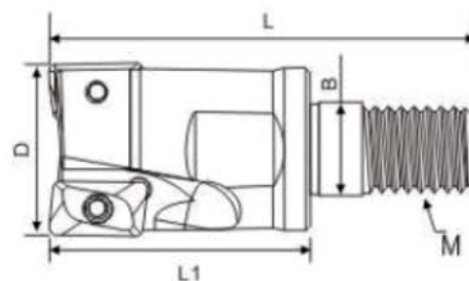
Part No.	Z	D	d	L	l	Insert	Screw	Wrench
SFEMW-01616150-SP06-02	2	16	16	150	50	SPMG060204	3007-M2.2x5	80-T07
SFEMW-02020150-SP06-03	3	20	20	150	50	SPMG07T308	3008-M2.5x6	80-T08
SFEMW-02525150-SP06-03	3	25	25	150	50			
SFEMW-03032150-SP06-03	3	30	32	150	50	SPMG090408	4015-M3.5x9	80-T15

Back Face End Mill



Part No.	D	Dc	a1	a2	d	L	L1	L2	L3	Insert	Screw	Wrench
BFEM-018105-16035-CC06	18	10.5	3.9	1.5	16	101	35	48	13	CCMT0602..	SCR-2507	T8
BFEM-018105-16050-CC06	18	10.5	3.9	1.5	16	116	50	48	13			
BFEM-019120-16035-CC06	19	12	3.7	2.5	16	101	35	48	13			
BFEM-025160-25080-CC09	25	16	4.4	3.6	25	160	80	60	15	CCMT09T3..		

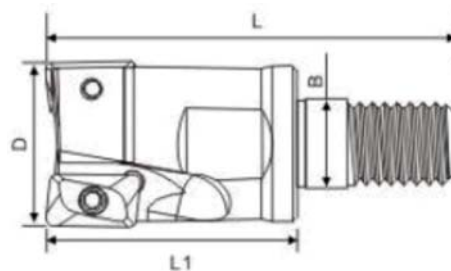
90° Modular Cutter



Part No.	Z	D	L	L1	B	M	Insert	Screw	Wrench
MCEM90-016M08-AP1135-02	2	16	46	28	8.5	M8	APMT1135..	M2.5	T8
MCEM90-017M08-AP1135-02	2	17	46	28	8.5	M8			
MCEM90-020M10-AP1135-02	2	20	49	30	10.5	M10			
MCEM90-021M10-AP1135-02	2	21	49	30	10.5	M10			
MCEM90-025M12-AP1135-02	3	25	57	35	12.5	M12			
MCEM90-026M12-AP1135-02	3	26	57	35	12.5	M12			

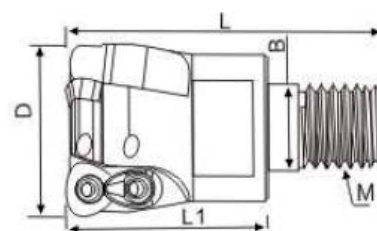


90° Modular Cutter



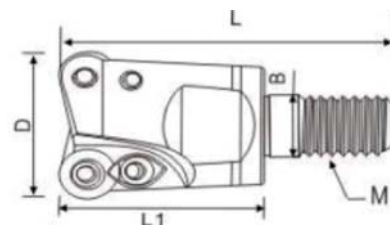
Part No.	Z	D	L	L1	B	M	Insert	Screw	Wrench
MCEM90-025M12-AP1604-02	2	25	57	35	12.5	M12	APMT1604..	M4.0	T15
MCEM90-026M12-AP1604-02	2	26	57	35	12.5	M12			
MCEM90-032M16-AP1604-03	3	32	63	40	17	M16			
MCEM90-035M16-AP1604-03	3	35	63	40	17	M16			
MCEM90-040M16-AP1604-03	3	40	63	40	17	M16			

High Feed Modular Cutter



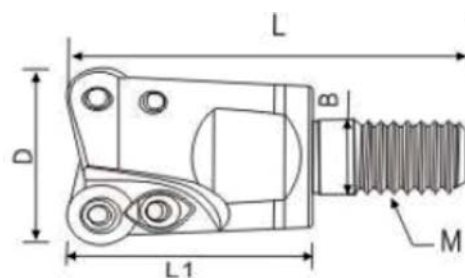
Part No.	Z	D	L	L1	B	M	Insert	Screw	Wrench
MCEHF-032M16-JD1204-02	2	32	63	40	17.0	M16	JDMT/ JDMW120420	M4	T15
MCEHF-033M16-JD1204-02	2	33	63	40	17.0	M16			
MCEHF-035M16-JD1204-02	2	35	63	40	17.0	M16			
MCEHF-040M16-JD1204-03	3	40	63	40	17.0	M16			

Profile Modular Cutter



Part No.	Z	D	L	L1	B	M	Insert	Screw	Wrench
MCEMR-016M08-RP08T2-02	2	16	46	28	8.5	M8	RPMT08T2	M3.0	T8
MCEMR-017M08-RP08T2-02	2	17	46	28	8.5	M8			
MCEMR-020M10-RP08T2-02	2	20	49	30	10.5	M10			
MCEMR-021M10-RP08T2-02	2	21	49	30	10.5	M10			
MCEMR-025M12-RP08T2-02	2	25	57	35	12.5	M12			

Profile Modular Cutter



Part No.	Z	D	L	L1	B	M	Insert	Screw	Wrench
MCEMR-020M10-RP1003-02	2	20	49	30	10.5	M10	RPMW1003	M4.0	T15
MCEMR-025M12-RP1003-02	2	25	57	35	12.5	M12			
MCEMR-030M12-RP1003-03	3	30	57	35	12.5	M12			
MCEMR-035M16-RP1003-03	3	35	63	40	17.0	M16			

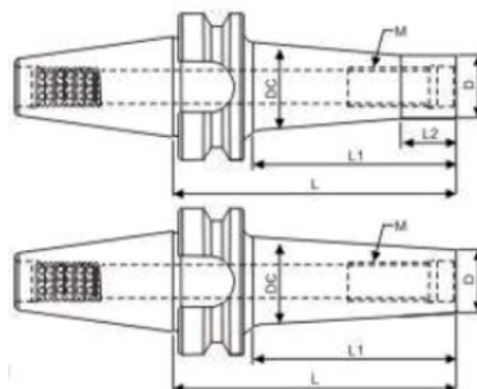


Carbide Modular Extension Bar



Part No.	M	D	d	L
MEB-08-08-100-M04	M4	8	8	100
MEB-10-10-080-M05	M5	10	10	100
MEB-10-10-100-M05	M5	10	10	150
MEB-10-10-150-M05	M6	12	12	100
MEB-12-12-100-M06	M6	12	12	150
MEB-12-12-150-M06	M6	12	12	200
MEB-12-12-200-M06	M8	15	15	100
MEB-16-15-100-M08	M8	15	15	150
MEB-16-15-150-M08	M8	15	15	200
MEB-16-15-200-M08	M8	15.6	15.6	100
MEB-16-156-150-M8	M8	15.6	15.6	150
MEB-16-156-200-M8	M8	15.6	15.6	200
MEB-16-156-250-M8	M8	15.6	15.6	250
MEB-17-16-100-M08	M8	16	16	100
MEB-17-16-150-M08	M8	16	16	150
MEB-17-16-200-M08	M8	16	16	200
MEB-17-16-250-M08	M8	16	16	250
MEB-17-16-300-M08	M8	16	16	300
MEB-20-19-150-M10	M10	19	19	150
MEB-20-19-200-M10	M10	19	19	200
MEB-20-19-250-M10	M10	19	19	250
MEB-21-20-100-M10	M10	20	20	100
MEB-21-20-150-M10	M10	20	20	150
MEB-21-20-200-M10	M10	20	20	200
MEB-21-20-250-M10	M10	20	20	250
MEB-21-20-300-M10	M10	20	20	300
MEB-25-24-150-M12	M12	24	24	150
MEB-25-24-200-M12	M12	24	24	200
MEB-25-24-250-M12	M12	24	24	250
MEB-25-24-300-M12	M12	24	24	300
MEB-26-25-150-M12	M12	25	25	150
MEB-26-25-200-M12	M12	25	25	200
MEB-26-25-250-M12	M12	25	25	250
MEB-26-25-300-M12	M12	25	25	300
MEB-35-32-150-M16	M16	32	32	150
MEB-35-32-200-M16	M16	32	32	200
MEB-35-32-250-M16	M16	32	32	250
MEB-35-32-300-M16	M16	32	32	300
MEB-35-32-350-M16	M16	32	32	350
MEB-35-32-400-M16	M16	32	32	400

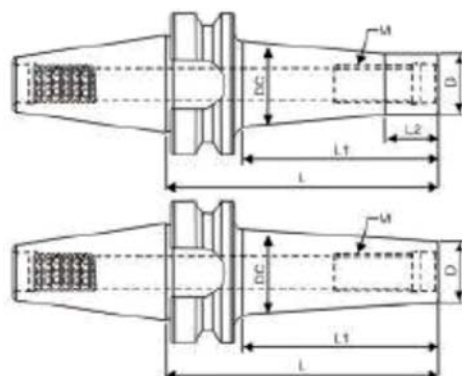
BT Modular Cutter Adaptor



Part No.	M	D	DC	L	L2	L1
MCA-BT30-M08-050L	8	12	17	50	-	30
MCA-BT30-M08-100L	8	12	17	100	-	80
MCA-BT30-M10-050L	10	15	17	50	-	25
MCA-BT30-M10-100L	10	15	17	100	-	30
MCA-BT30-M12-060L	12	15	17	60	-	80
MCA-BT30-M12-100L	12	19	21	100	-	25
MCA-BT30-M16-060L	16	19	21	60	-	30
MCA-BT30-M16-100L	16	19	21	100	-	80
MCA-BT40-M08-070L	8	24	25	70	-	40
MCA-BT40-M08-100L	8	24	26	100	-	80
MCA-BT40-M08-150L	8	30	33	150	-	30
MCA-BT40-M08-200L	8	30	33	200	-	40
MCA-BT40-M10-070L	10	30	32	70	-	80
MCA-BT40-M10-100L	10	15	17	100	-	45
MCA-BT40-M10-150L	10	15	17	150	-	75
MCA-BT40-M10-200L	10	15	22	200	50	125
MCA-BT40-M12-070L	12	15	22	70	70	175
MCA-BT40-M12-100L	12	19	20	100	-	45
MCA-BT40-M12-150L	12	19	25	150	-	75
MCA-BT40-M12-200L	12	19	25	200	-	125
MCA-BT40-M16-070L	16	19	31	70	70	175
MCA-BT40-M16-100L	16	24	26	100	-	45
MCA-BT40-M16-150L	16	24	32	150	-	75
MCA-BT40-M16-200L	16	24	37	200	50	125



BT Modular Cutter Adaptor



Part No.	M	D	DC	L	L2	L1
MCA-BT50-M08-130L	8	16	30	130	-	95
MCA-BT50-M08-150L	8	16	32	150	-	165
MCA-BT50-M08-200L	8	16	37	200	-	215
MCA-BT50-M08-250L	8	16	37	250	-	265
MCA-BT50-M08-300L	8	16	37	300	-	95
MCA-BT50-M10-130L	10	20	30	130	-	165
MCA-BT50-M10-150L	10	20	32	150	-	215
MCA-BT50-M10-200L	10	20	37	200	-	265
MCA-BT50-M10-250L	10	20	37	250	85	95
MCA-BT50-M10-300L	10	20	37	300	-	165
MCA-BT50-M12-130L	12	24	30	130	-	215
MCA-BT50-M12-150L	12	24	32	150	-	265
MCA-BT50-M12-200L	12	24	33	200	105	95
MCA-BT50-M12-250L	12	24	40	250	-	165
MCA-BT50-M12-300L	12	24	50	300	65	215
MCA-BT50-M16-130L	16	32	50	130	85	265
MCA-BT50-M16-150L	16	32	40	150	105	95
MCA-BT50-M16-200L	16	32	50	200	-	165
MCA-BT50-M16-250L	16	32	55	250	-	215
MCA-BT50-M16-300L	16	32	55	300	-	265

