



PRECISION IN BEST TIME

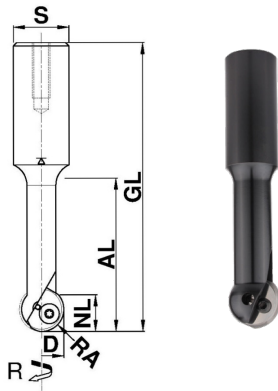


Showing profile:

Radius milling tools from Aigner

Aigner PM radius milling tools meet the highest demands on milling quality and allow CNC users a variety of machining solutions on 5-axis or 4-axis machining centers. Starting with the C834 model series, Aigner customers are entering the field of spherical milling cutters with profile changing knives. These milling cutters have been specially developed for smaller radius milling operations. With the C830, the range of spherical milling cutters is extended to larger full radii. For milling operations with adjusted axes, a lateral cutting edge is required - this is ensured by the C835. The C836 can be used for milling operations with rather small radii, these cutters are available in a solid carbide version. For gross cutouts and for pre-milling, the C839 is best suited as a roughing or rough-finishing cutter, depending on the design of the knives used.

C834 PM-Spherical cutterhead Z1



The C834 is a spherical milling cutter in Z1 design and starts with a radius of 10mm up to 17.5mm. The C834 is equipped with a steel body and a profile blade with a ground chip breaker. The end mill is ideally suited for creating segmental or semicircular relief structures and for line-off or finish milling round or oval shaped bodies or contours.

Design:

Mechanical feed; supporting body in steel design; Z1 design; profile knife with interchangeable cutting edges; with chip groove for best milling results.

Application:

For milling small radius areas from R10 to 17.5mm

Usage:

Depending on the diameter, suitable from 16500-18000rpm; feed Z=1 from 2-6m/min.

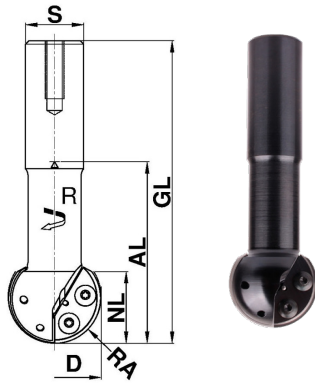
Article no.	D	RA	NL	AL	GL	S	Z	R/L	N-MAX	MS
C834-100069R	20	10	16.5	69	130	25	1	R	18000	
C834-100069R-M1	20	10	16.5	69	130	25	1	R	18000	M1
C834-100069R-M2	20	10	16.5	69	130	25	1	R	18000	M2
C834-125074R	25	12	20	74	130	25	1	R	18000	
C834-125074R-M1	25	12	20	74	130	25	1	R	18000	M1
C834-125074R-M2	25	12	20	74	130	25	1	R	18000	M2
C834-150074R	30	15	26	74	130	25	1	R	18000	
C834-150074R-M1	30	15	26	74	130	25	1	R	18000	M1
C834-150074R-M2	30	15	26	74	130	25	1	R	18000	M2
C834-175074R	35	17,5	31.5	74	130	25	1	R	16500	
C834-175074R-M1	35	17,5	31.5	74	130	25	1	R	16500	M1
C834-175074R-M2	35	17,5	31.5	74	130	25	1	R	16500	M2

M1 = Assembled on shrink chuck

M2 = Assembled on collet chuck



C830 PM-Spherical cutterhead



The C830 is a spherical milling cutter in Z2 design and starts with a radius of 20mm to 50mm. The C830 is equipped with a steel body and a profile blade with a ground chip breaker. The end mill is best suited for creating segmental or semicircular relief structures and for line milling or finish milling round or oval shaped bodies or contours.

Design:

Mechanical feed; support body in steel design; Z 2 design; profile knife with interchangeable cutting edges; with chip groove for best milling results.

Application:

For milling large radius ranges from R20 to 50mm.

Usage:

Depending on the diameter, suitable from 12000-18500rpm; feed Z=2 from 4-8m/min.

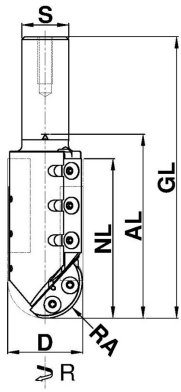
Article no.	D	RA	NL	AL	GL	S	Z	R/L	N-MAX	MS
C830-200078R	40	20	30	78	130	25	2	R	18500	
C830-200078R-M1	40	20	30	78	130	25	2	R	18500	M1
C830-200078R-M2	40	20	30	78	130	25	2	R	18500	M2
C830-225083R	45	22.5	27	83	135	25	2	R	17000	
C830-225083R-M1	45	22.5	27	83	135	25	2	R	17000	M1
C830-225083R-M2	45	22.5	27	83	135	25	2	R	17000	M2
C830-250083R	50	25	39	83	135	25	2	R	16500	
C830-250083R-M1	50	25	39	83	135	25	2	R	16500	M1
C830-250083R-M2	50	25	39	83	135	25	2	R	16500	M2
C830-300088R	60	30	41	88	140	25	2	R	15500	
C830-300088R-M1	60	30	41	88	140	25	2	R	15500	M1
C830-300088R-M2	60	30	41	88	140	25	2	R	15500	M2
C830-400078R	80	40	45	78	130	25	2+2	R	14000	
C830-400078R-M1	80	40	45	78	130	25	2+2	R	14000	M1
C830-400078R-M2	80	40	45	78	130	25	2+2	R	14000	M2
C830-500070R	100	50	60	70	122	25	2+2	R	12000	
C830-500070R-M1	100	50	60	70	122	25	2+2	R	12000	M1
C830-500070R-M2	100	50	60	70	122	25	2+2	R	12000	M2

M1 = Assembled on shrink chuck

M2 = Assembled on collet chuck



C835 PM-Fluting/jointing cutter



The C835 is a fluting / jointing cutter in Z1 design with additional laterally arranged reversible cutting edges and starts with the radius from 6mm to 40mm. For radii less than 20mm, the cutter is manufactured with a straight cutting edge portion on the front surface to ensure a reasonable blade tension. The end mill is best suited for milling shapes, contours and cavities/depressions with a round bottom. Deep flutes and apertures by means of circular milling strategy and interpolating milling by the possibility of high tool setting angles due to the lateral cutting edge portion.

Design:

Mechanical feed; supporting body in steel design; Z1+1 design; profile knife with interchangeable cutting edges; with chip groove for best milling results.

Application:

For milling radius ranges from R6(Ø20mm) to 40mm.

Usage:

Depending on the diameter, suitable from 14000-22000rpm; feed Z=1 from 2-6m/min.

Article no.	D	RA	NL	AL	GL	S	Z	R/L	N-MAX	MS
C835-060083R	20	6	43	83	130	20	Z1+1	R	22000	
C835-060083R-M1	20	6	43	83	130	20	Z1+1	R	22000	M1
C835-060083R-M2	20	6	43	83	130	20	Z1+1	R	22000	M2
C835-080083R	20	8	43	83	130	20	Z1+1	R	22000	
C835-080083R-M1	20	8	43	83	130	20	Z1+1	R	22000	M1
C835-080083R-M2	20	8	43	83	130	20	Z1+1	R	22000	M2
C835-100083R	20	10	43	83	130	20	Z1+1	R	22000	
C835-100083R-M1	20	10	43	83	130	20	Z1+1	R	22000	M1
C835-100083R-M2	20	10	43	83	130	20	Z1+1	R	22000	M2
C835-125078R	25	12.5	42.5	78	130	25	Z1+1	R	21000	
C835-125078R-M1	25	12.5	42.5	78	130	25	Z1+1	R	21000	M1
C835-125078R-M2	25	12.5	42.5	78	130	25	Z1+1	R	21000	M2
C835-150145R	30	15	72	145	197	25	Z1+1	R	20000	
C835-150145R-M1	30	15	72	145	197	25	Z1+1	R	20000	M1
C835-150145R-M2	30	15	72	145	197	25	Z1+1	R	20000	M2
C835-200098R	40	20	85	98	150	25	Z1+1	R	18500	
C835-200098R-M1	40	20	85	98	150	25	Z1+1	R	18500	M1
C835-200098R-M2	40	20	85	98	150	25	Z1+1	R	18500	M2
C835-225098R	45	22.5	85	98	150	25	Z1+1	R	17000	

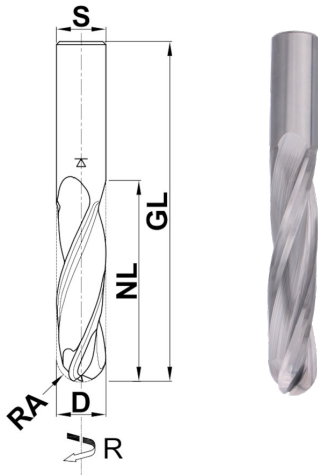
Article no.	D	RA	NL	AL	GL	S	Z	R/L	N-MAX	MS
C835-225098R-M1	45	22.5	85	98	150	25	Z1+1	R	17000	M1
C835-225098R-M2	45	22.5	85	98	150	25	Z1+1	R	17000	M2
C835-250103R	50	25	85	103	155	25	Z1+1	R	16500	
C835-250103R-M1	50	25	85	103	155	25	Z1+1	R	16500	M1
C835-250103R-M2	50	25	85	103	155	25	Z1+1	R	16500	M2
C835-275098R	55	27.5	87.5	98	150	25	Z1+1	R	16000	
C835-275098R-M1	55	27.5	87.5	98	150	25	Z1+1	R	16000	M1
C835-275098R-M2	55	27.5	87.5	98	150	25	Z1+1	R	16000	M2
C835-300095R	60	30	89	95	147	25	Z1+1	R	15500	
C835-300095R-M1	60	30	89	95	147	25	Z1+1	R	15500	M1
C835-300095R-M2	60	30	89	95	147	25	Z1+1	R	15500	M2
C835-350083R	70	35	75	83	135	25	Z1+1	R	15000	
C835-350083R-M1	70	35	75	83	135	25	Z1+1	R	15000	M1
C835-350083R-M2	70	35	75	83	135	25	Z1+1	R	15000	M2
C835-400078R	80	40	70	78	130	25	Z1+1	R	14000	
C835-400078R-M1	80	40	70	78	130	25	Z1+1	R	14000	M1
C835-400078R-M2	80	40	70	78	130	25	Z1+1	R	14000	M2

M1 = Assembled on shrink chuck

M2 = Assembled on collet chuck



C836 VHW full radius finishing cutter



The C836 is a solid carbide spherical milling cutter in Z2 or Z3 design with a sharpened face cutting edge and is available in radii 2.5mm to 12.5mm. These VHW end mills cover smaller radius areas and are ground in a finishing design with a clean pointed face. This VHW end mill is best suited for milling contours, filing operations and creating round-bottomed recesses. The C836 is also suitable for machining aluminum and plastics with the correct cutting parameters.

Design:

Mechanical feed; VHW basic body/ finishing cutter; Z2 + Z3 design.

Application:

For milling, radius ranges from R2.5 to 12.5mm.

Usage:

Suitable up to 24000rpm; Feed depending on diameter and material

Z=2 from 1-6m/min, Z=3 from 6-12m/min

Article no.	D	RA	NL	GL	S	DRA	Z	R/L	N-MAX	MS
C836-050172RP	5	2.5	15	70	6	P	2	R	24000	
C836-050172RP-M1	5	2.5	15	70	6	P	2	R	24000	M1
C836-050172RP-M2	5	2.5	15	70	6	P	2	R	24000	M2
C836-060172RP	6	3.0	15	70	6	P	2	R	24000	
C836-060172RP-M1	6	3.0	15	70	6	P	2	R	24000	M1
C836-060172RP-M2	6	3.0	15	70	6	P	2	R	24000	M2
C836-080222RP	8	4.0	22	90	8	P	2	R	24000	
C836-080222RP-M1	8	4.0	22	90	8	P	2	R	24000	M1
C836-080222RP-M2	8	4.0	22	90	8	P	2	R	24000	M2
C836-100302RP	10	5.0	30	90	10	P	2	R	24000	
C836-100302RP-M1	10	5.0	30	90	10	P	2	R	24000	M1
C836-100302RP-M2	10	5.0	30	90	10	P	2	R	24000	M2
C836-120422RP	12	6.0	42	90	12	P	2	R	24000	
C836-120422RP-M1	12	6.0	42	90	12	P	2	R	24000	M1
C836-120422RP-M2	12	6.0	42	90	12	P	2	R	24000	M2
C836-160552RP	16	8.0	55	115	16	P	2	R	24000	
C836-160552RP-M1	16	8.0	55	115	16	P	2	R	24000	M1
C836-160552RP-M2	16	8.0	55	115	16	P	2	R	24000	M2
C836-160553RP	16	8.0	55	115	16	P	3	R	24000	

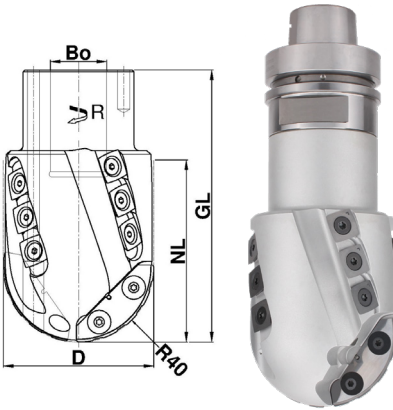
Article no.	D	RA	NL	GL	S	DRA	Z	R/L	N-MAX	MS
C836-160553RP-M1	16	8.0	55	115	16	P	3	R	24000	M1
C836-160553RP-M2	16	8.0	55	115	16	P	3	R	24000	M2
C836-200902RP	20	10.0	90	150	20	P	2	R	24000	
C836-200902RP-M1	20	10.0	90	150	20	P	2	R	24000	M1
C836-200902RP-M2	20	10.0	90	150	20	P	2	R	24000	M2
C836-200903RP	20	10.0	90	150	20	P	3	R	24000	
C836-200903RP-M1	20	10.0	90	150	20	P	3	R	24000	M1
C836-200903RP-M2	20	10.0	90	150	20	P	3	R	24000	M2
C836-250903RP	25	12.5	90	150	25	P	3	R	24000	
C836-250903RP-M1	25	12.5	90	150	25	P	3	R	24000	M1
C836-250903RP-M2	25	12.5	90	150	25	P	3	R	24000	M2
C836-251203RP	25	12.5	120	180	25	P	3	R	24000	
C836-251203RP-M1	25	12.5	120	180	25	P	3	R	24000	M1
C836-251203RP-M2	25	12.5	120	180	25	P	3	R	24000	M2

M1 = Assembled on shrink chuck

M2 = Assembled on collet chuck



C839 PM-Spherical roughing cutterhead for mounting on milling arbor



The C839 is suitable for pre-milling shapes, contours and cavities/recesses on 5-axis CNC machines. The PM spherical roughing cutter is the first choice wherever pre-cutting has to be carried out quickly and with high cutting performance. Especially when milling deep grooves and openings, the C839 can deliver best machining results by means of circular milling strategy. Interpolating milling with the possibility of high tool angles is also possible with this milling cutter due to the laterally arranged cutting edges.

Design:

Mechanical feed; aluminum support body; Z2 design; profile blade with chip guide step for better cutting quality

Application:

For pre-cutting and milling of apertures, contours and cavities on the CNC machine

Usage:

Suitable up to 15000 rpm; feed rate depending on material Z=2 from 2-8m/min.

Article no.	D	NL	GL	BO	Z	R/L	N-MAX	MS
C839-40097R	80	97	145	30	2	R	15000	
C839-40097R-F1	80	97	145	30	2	R	15000	F1
C839-40097R-F2	80	97	145	30	2	R	15000	F2

F1 = Assembled on milling arbor HSK-F63/A=45

F2 = Assembled on milling arbor HSK-F63/A=80



Highly sustainable due to reusable base bodies.

Your contact person:

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