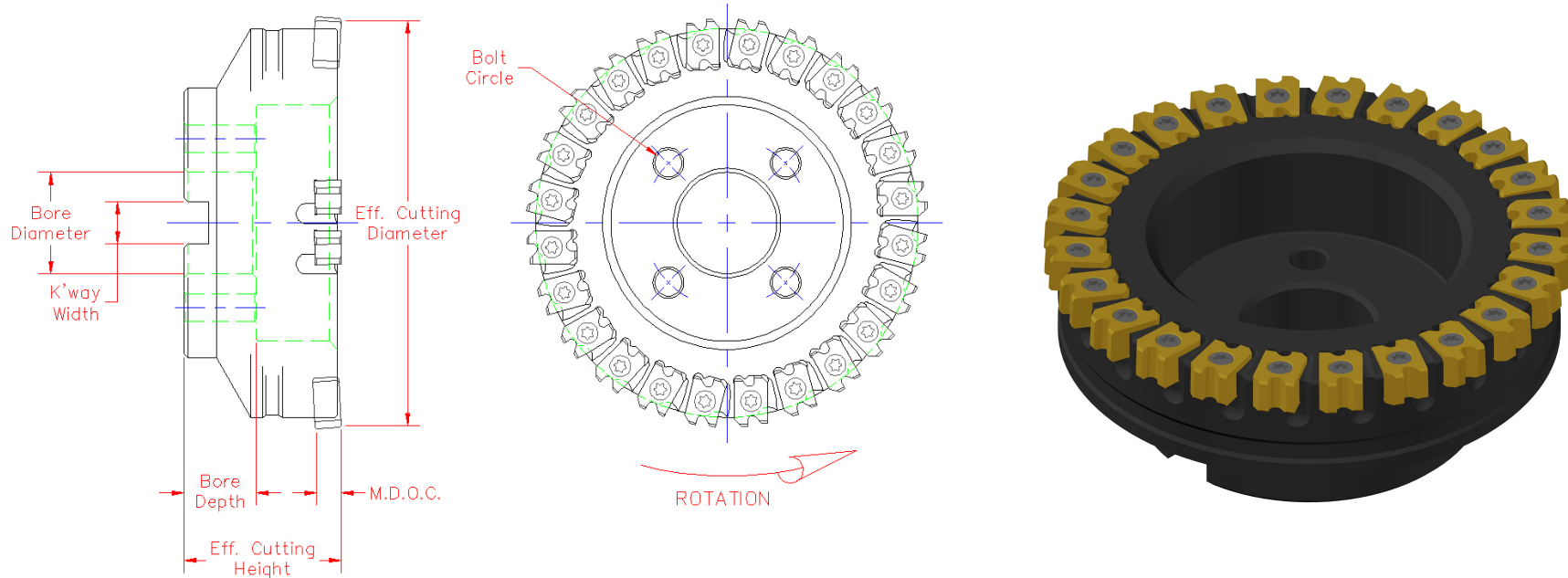


Standard Dual Edge Face Mills

U.S. Pat. #5,209,611



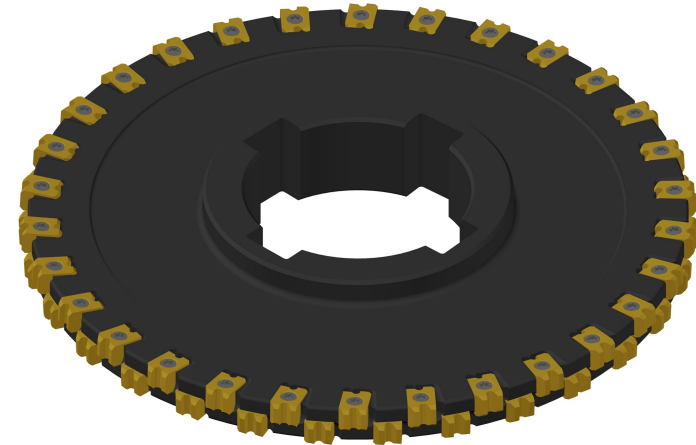
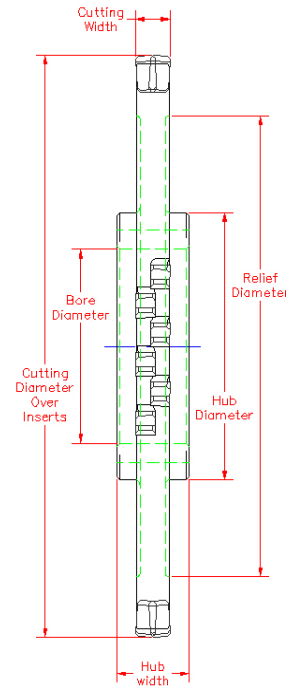
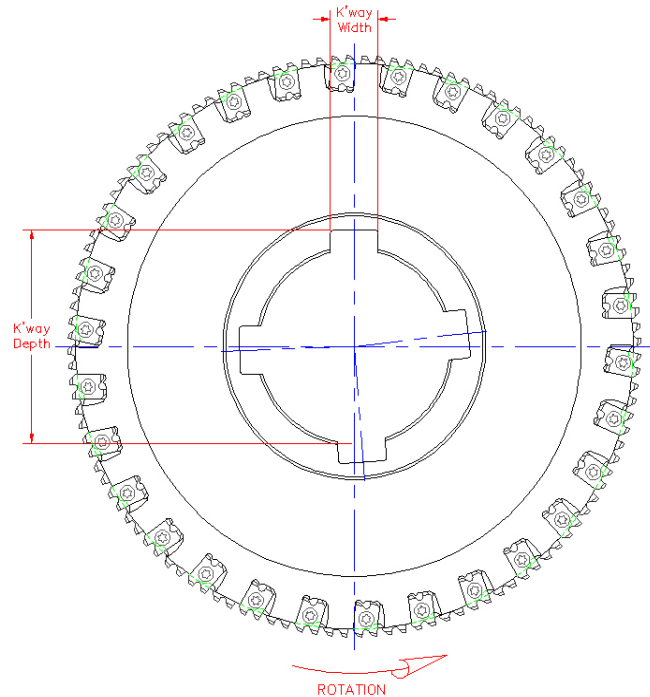
Part Number	Eff. Cutting Diameter	Eff. Cutting Height	M.D.O.C.	Number of		Bore Diameter	Bore Depth	K'way Width	K'way Length	Bolt Circle	Rotation
				Inserts	Teeth						
AFM 3009-00030	3.00	2.38	.370	9	18	1.00	1.00	3/8	thru	--	Right Hand Rotation
AFM 4012-00031	4.00			12	24	1.50	1.00	5/8	thru	--	
AFM 5016-00040	5.00			16	32	1.50	1.10	5/8	thru	--	
AFM 6024-00032	6.00			24	48	1.50	1.12	5/8	thru	--	
AFM 8032-00033	8.00			32	64	2.50	1.26	1	thru	4	
AFM 1040-00034	10.00			40	80	2.50	1.26	1	7.24	4	
AFM 1248-00035	12.00			48	96	2.50	1.26	1	9.56	4 & 7	
AFM 3009-00203	3.00	2.38	.370	9	18	1.00	1.00	3/8	thru	--	**Left Hand Rotation
AFM 4012-00204	4.00			12	24	1.50	1.00	5/8	thru	--	
AFM 5016-00205	5.00			16	32	1.50	1.10	5/8	thru	--	
AFM 6024-00206	6.00			24	48	1.50	1.12	5/8	thru	--	
AFM 8032-00207	8.00			32	64	2.50	1.26	1	thru	4	
AFM 1040-00208	10.00			40	80	2.50	1.26	1	7.24	4	
AFM 1248-00209	12.00			48	96	2.50	1.26	1	9.56	4 & 7	

* M.D.O.C. based on a .403" thick insert with a .030" chamfer. (For cutting depths past .370", please note on the Request for Quotation form.)

** Right Hand Rotation shown, Left Hand Rotation opposite.

*** Larger diameter dual edge face mills are available upon request.

Also available for finish applications, please note on Request for Quotation form.



ARM Tooling Systems Dual Edge slotting cutters are made to order products. Our experienced staff of application engineers will assist in producing the most efficient cutter for any application. To insure prompt response, please use the Request for Quotation form provided on page 19 and FAX it to our technical service group at 1-586-754-1653.

Each Dual Edge slotting cutter body manufactured from durable alloy steel to exacting tolerances. Each body holds patented Dual Edge indexable inserts which feature two cutting edges per index, double that of any other competitor. ARM Tooling Systems can produce any cutting diameter from 3 inches and up.

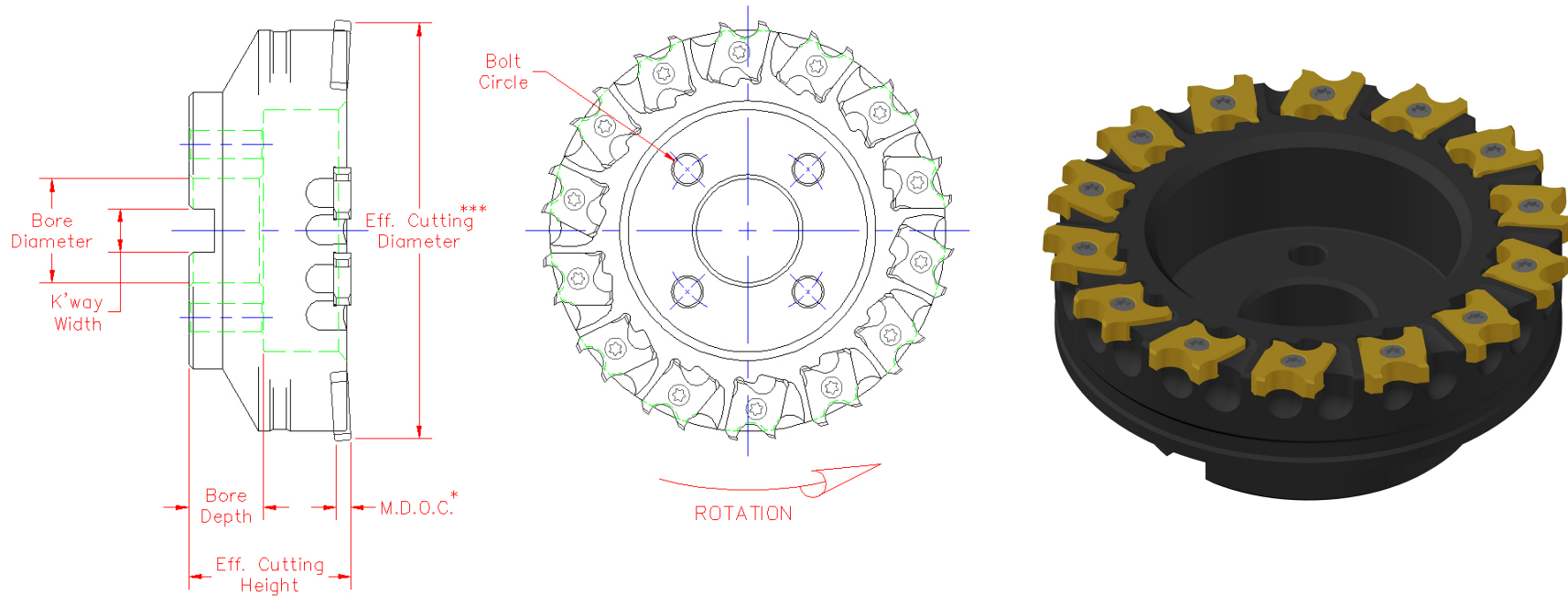
Our Dual Edge slotting cutters offer higher performance & increased productivity, with a 200% potential reduction in manufacturing costs versus conventional indexable slotting cutters in use today.

The Dual Edge insert pocket is designed so that the cutting edge locates one way - "the right way!". The fixed pocket design also eliminate time consuming tool room presetting further reducing setup costs. No setting fixture is required and repeatability is assured.

Only one slotting cutter body is required to machine virtually any material. Dual Edge can be set up for both negative or positive cutting rake. To customize for the material to be cut, merely change insert style or grade.

Standard Dual Edge Face Mills To Cut Aluminum

U.S. Pat. #5,209,611



Part Number	Eff. Cutting Diameter	Eff. Cutting Height	M.D.O.C.	Number of		Bore Diameter	Bore Depth	K'way Width	K'way Length	Bolt Circle	Rotation
				Inserts	Teeth						
AFM 4009-00760	4.00	2.38	.215	9	18	1.50	1.00	5/8	thru	--	Right Hand Rotation
AFM 5012-00761	5.00			12	24	1.50	1.10	5/8	thru	--	
AFM 6014-00762	6.00			14	28	1.50	1.12	5/8	thru	--	
AFM 8020-00763	8.00			20	40	2.50	1.26	1	thru	4	
AFM 1024-00764	10.00			24	48	2.50	1.26	1	7.24	4	
AFM 1230-00765	12.00			30	60	2.50	1.26	1	9.56	4 & 7	
AFM 4009-00766	4.00	2.38	.215	9	18	1.50	1.00	5/8	thru	--	**Left Hand Rotation
AFM 5012-00767	5.00			12	24	1.50	1.10	5/8	thru	--	
AFM 6014-00768	6.00			14	28	1.50	1.12	5/8	thru	--	
AFM 8020-00769	8.00			20	40	2.50	1.26	1	thru	4	
AFM 1024-00770	10.00			24	48	2.50	1.26	1	7.24	4	
AFM 1230-00771	12.00			30	60	2.50	1.26	1	9.56	4 & 7	

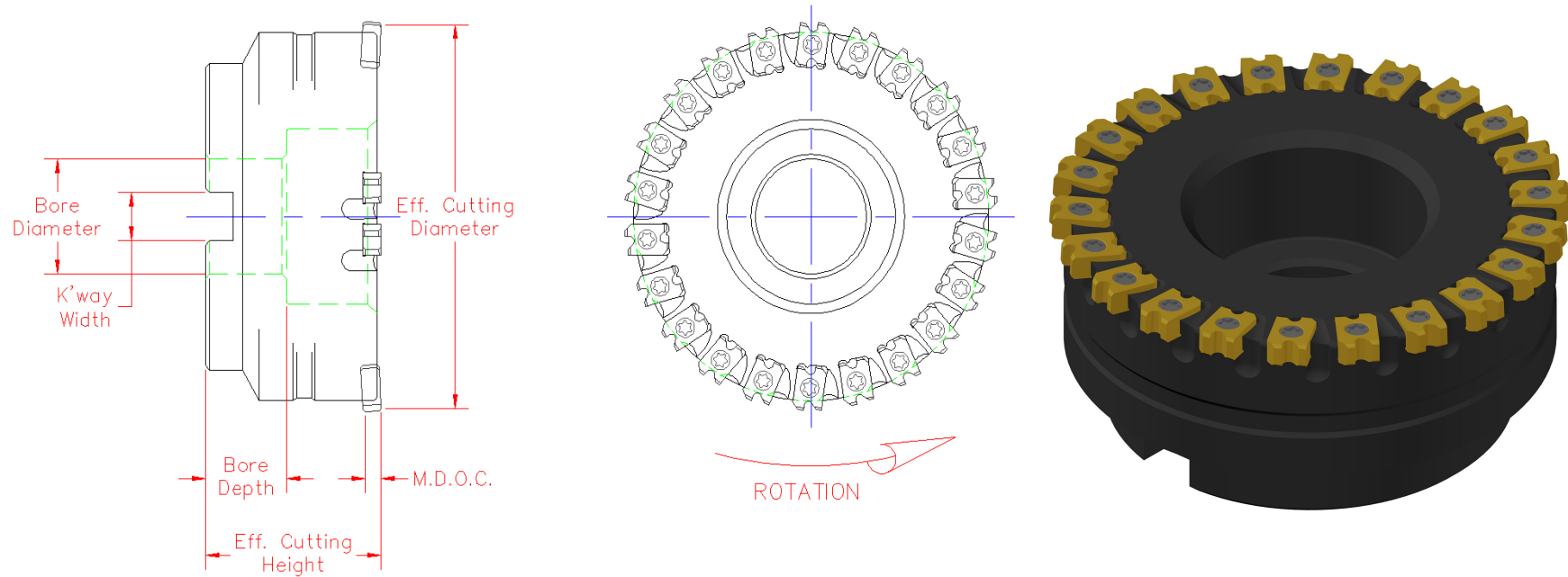
* M.D.O.C. based on a .250" thick insert with a .030" chamfer. (For cutting depths past .215", please note on the Request for Quotation form.)

** Right Hand Rotation shown, Left Hand Rotation opposite.

*** Larger diameter dual edge face mills are available upon request.

Standard Dual Edge High Density Face Mills

U.S. Pat. #5,209,611



Part Number	Eff. Cutting Diameter	Eff. Cutting Height	M.D.O.C.	Number of		Bore Diameter	Bore Depth	K'way Width	K'way Length	Bolt Circle	Rotation
				Inserts	Teeth						
AFM 2007-00772	2.00	1.75	.215	7	14	.75	.75	5/16	thru	--	Right Hand Rotation
AFM 3012-00773	3.00	2.38		12	24	1.00	1.00	3/8	thru	--	
AFM 4018-00774	4.00			18	36	1.50	1.00	5/8	thru	--	
AFM 5022-00775	5.00			22	44	1.50	1.10	5/8	thru	--	
AFM 2007-00776	2.00	1.75	.215	7	14	.75	.75	5/16	thru	--	**Left Hand Rotation
AFM 3012-00777	3.00	2.38		12	24	1.00	1.00	3/8	thru	--	
AFM 4018-00778	4.00			18	36	1.50	1.00	5/8	thru	--	
AFM 5022-00779	5.00			22	44	1.50	1.10	5/8	thru	--	

* M.D.O.C. based on a .250" thick insert with a .030" chamfer. (For cutting depths past .215", please note on the Request for Quotation form.)

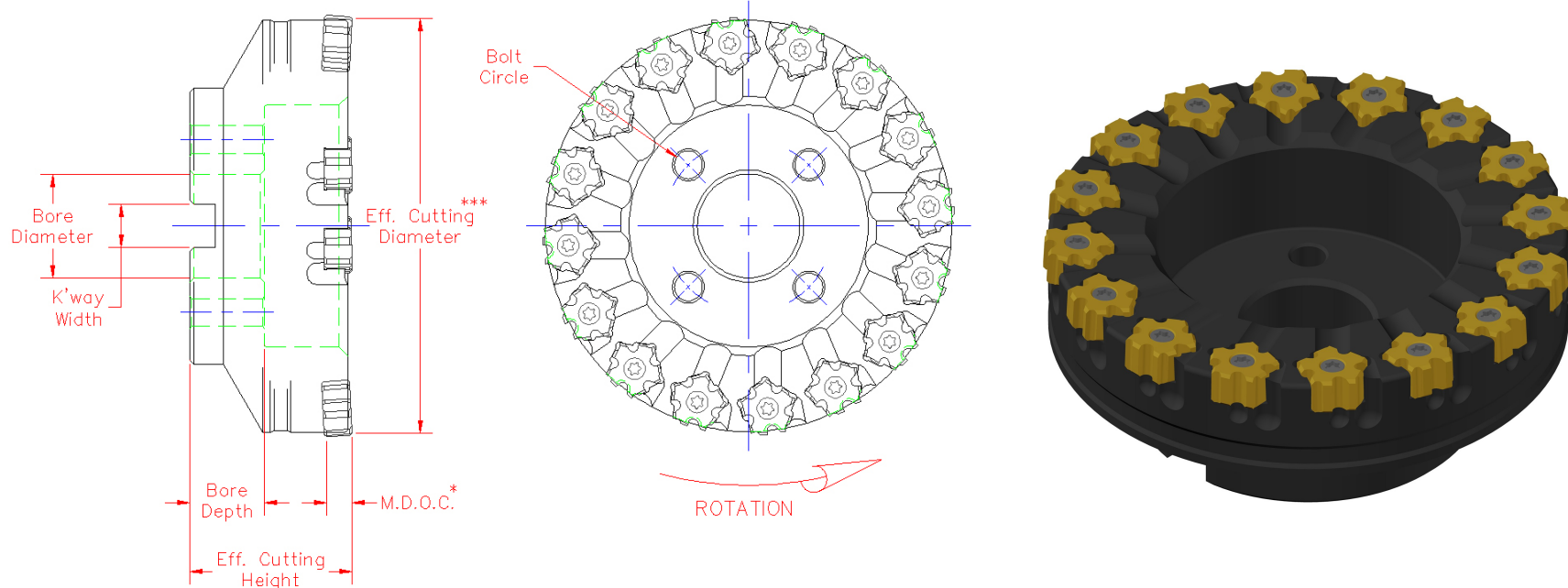
** Right Hand Rotation shown, Left Hand Rotation opposite.

*** Larger diameter dual edge face mills are available upon request.

Also available for finish applications, please note on Request for Quotation form.

Standard Dual Edge Face Mills w/ Pentagon Inserts

U.S. Pat. #5,209,611



Part Number	Eff. Cutting Diameter	Eff. Cutting Height	M.D.O.C.	Number of		Bore Diameter	Bore Depth	K'way Width	K'way Length	Bolt Circle	Rotation
				Inserts	Teeth						
AFM 4010-00780	4.00	2.38	.370	10	20	1.50	1.00	5/8	thru	--	Right Hand Rotation
AFM 5013-00781	5.00			13	26	1.50	1.10	5/8	thru	--	
AFM 6016-00782	6.00			16	32	1.50	1.12	5/8	thru	--	
AFM 8022-00783	8.00			22	44	2.50	1.26	1	thru	4	
AFM 1030-00784	10.00			30	60	2.50	1.26	1	7.24	4	
AFM 1236-00785	12.00			36	72	2.50	1.26	1	9.56	4 & 7	
AFM 4010-00786	4.00	2.38	.370	10	20	1.50	1.00	5/8	thru	--	**Left Hand Rotation
AFM 5013-00787	5.00			13	26	1.50	1.10	5/8	thru	--	
AFM 6016-00788	6.00			16	32	1.50	1.12	5/8	thru	--	
AFM 8022-00789	8.00			22	44	2.50	1.26	1	thru	4	
AFM 1030-00790	10.00			30	60	2.50	1.26	1	7.24	4	
AFM 1236-00791	12.00			36	72	2.50	1.26	1	9.56	4 & 7	

* M.D.O.C. based on a .403" thick insert with a .030" chamfer. (For cutting depths past .370", please note on the Request for Quotation form.)

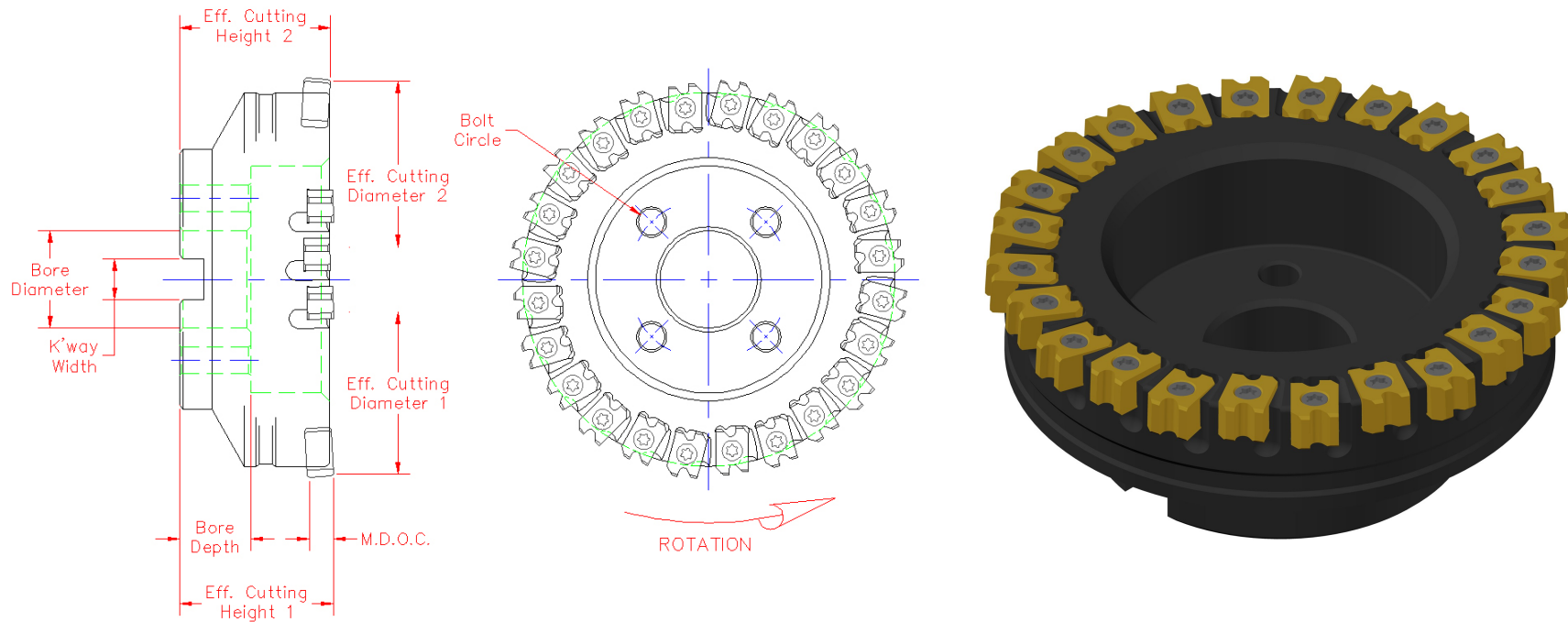
** Right Hand Rotation shown, Left Hand Rotation opposite.

*** Larger diameter dual edge face mills are available upon request.

Also available for finish applications, please note on Request for Quotation form.

Dual Edge Step Mills

U.S. Pat. #5,209,611



ARM Tooling Systems Dual Edge Step Mills are engineered for smooth cutting action and high machining efficiency on applications where lack of rigidity causes deflection or vibration.

Radial and axial stepping reduce the effective number of inserts and the depth of engagement of each insert in the workpiece. Step mills take short, thick chips rather than long chips. This design reduces cutting forces while maintaining the advance per insert, depth of cut, and width of cut.

These mills have a lesser number of effective inserts, that is, it takes more than one insert to generate a full chip. But, since the chip is not as wide, the chip load can be increased to compensate. This cutter can generally be run without reducing the feed rate.