

OTM API Ring Groovers

The most economical way to make API Ring Grooves

Advantages:

- Lower cost per cut
- Great surface finish and repeatability
- Easy to set and adjust
- Free cutting geometry

***Several shank sizes
available, CAT 50 stocked!***



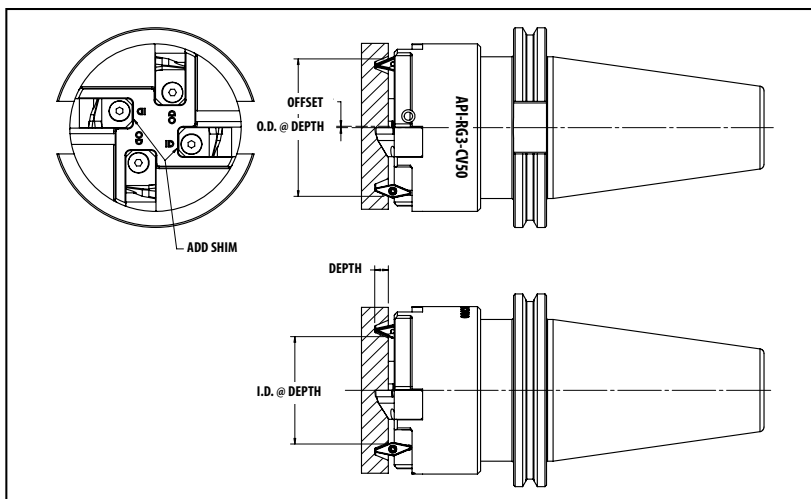
*Ideal for high pressure and high
temperature applications in the oil,
gas and petrochemical
industries*



Kyocera is the only choice for economical ring groovers. Featuring an integral shank for maximum rigidity, Kyocera's OTM API Ring Groovers are the most versatile ring grooving tools on the market.

Ring Groove	OTM Part #	Offset	Body	Pitch P	OD G	Width N	Depth E	Insert	Screw	Effective Flutes	OD @ DEPTH	ID @ DEPTH	Mounting Bolts/ Cart
BX-150	BX150-SET	0.061	RG-3		2.893	0.450	0.220	DCMT 3(2.5)2	SCR-02	2	2.771	2.115	1
BX-150-R	BX150-R-SET	0.097	RG-3		3.341	0.841	0.485	DCMT 3(2.5)3	SCR-02	1	3.147	1.853	1
BX-151	BX151-SET	0.065	RG-1		3.062	0.466	0.220	DCMT 3(2.5)2	SCR-02	2	2.932	2.260	1
BX-151-R	BX151-R-SET	0.097	RG-3		3.496	0.846	0.485	DCMT 3(2.5)3	SCR-02	1	3.302	1.998	1
BX-152	BX152-SET	0.069	RG-1		3.395	0.498	0.230	DCMT 3(2.5)2	SCR-02	2	3.257	2.537	1
BX-152-R	BX152-R-SET	0.091	RG-1		3.826	0.876	0.505	DCMT 3(2.5)3	SCR-02	1	3.644	2.256	1
BX-153	BX153-SET	0.077	RG-1		4.046	0.554	0.270	DCMT 3(2.5)2	SCR-02	2	3.892	3.092	1
BX-153-R	BX153-R-SET	0.110	RG-1		4.486	0.936	0.535	DCMT 3(2.5)3	SCR-02	1	4.266	2.834	1
BX-154	BX154-SET	0.083	RG-1		4.685	0.606	0.300	DCMT 3(2.5)2	SCR-02	2	4.519	3.639	1
BX-154-R	BX154-R-SET	0.112	RG-1		5.116	0.971	0.570	DCMT 3(2.5)3	SCR-02	1	4.892	3.398	1
BX-155	BX155-SET	0.100	RG-2		5.930	0.698	0.330	DCMT 3(2.5)2	SCR-02	2	5.730	4.734	1
BX-155-R	BX155-R-SET	0.223	RG-2		6.366	1.076	0.595	VCMT 160412	SCR-02	1	5.920	4.660	2
BX-156	BX156-SET	0.132	RG-4		9.521	0.921	0.440	VCMT 160408	SCR-02	2	9.257	7.943	2
BX-156-R	BX156-R-SET	0.166	RG-4		9.956	1.306	0.710	VCMT 160412	SCR-02	1	9.624	7.676	2
BX-169	BX169-SET	0.081	RG-2		6.955	0.666	0.380	VCMT 160408	SCR-02	2	6.793	5.785	1
R-16	R16-SET	0.026	RG-3	2.000		0.344	0.250	VCMT 110308	SCR-01	2	2.292	1.708	1
R-18	R18-SET	0.026	RG-3	2.375		0.344	0.250	VCMT 110308	SCR-01	2	2.667	2.083	1
R-19	R19-SET	0.026	RG-3	2.563		0.344	0.250	VCMT 110308	SCR-01	2	2.855	2.271	1
R-20	R20-SET	0.026	RG-3	2.688		0.344	0.250	VCMT 110308	SCR-01	2	2.980	2.396	1
R-23	R23-SET	0.046	RG-1	3.250		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	3.627	2.873	1
R-23-R	R23-R-SET	0.081	RG-1	3.300		0.856	0.575	VCMT 160412	SCR-02	1	3.994	2.606	1
R-24	R24-SET	0.046	RG-1	3.750		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	4.127	3.373	1
R-24-R	R24-R-SET	0.077	RG-1	3.800		0.871	0.590	VCMT 160412	SCR-02	1	4.517	3.083	1
R-26	R26-SET	0.046	RG-1	4.000		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	4.377	3.623	1
R-27	R27-SET	0.046	RG-1	4.250		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	4.627	3.873	1
R-31	R31-SET	0.044	RG-2	4.875		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	5.256	4.494	1
R-31-R	R31-R-SET	0.072	RG-2	4.920		0.856	0.575	VCMT 160412	SCR-02	1	5.632	4.208	1
R-35	R35-SET	0.046	RG-2	5.375		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	5.752	4.998	1
R-35-R	R35-R-SET	0.081	RG-2	5.420		0.856	0.575	VCMT 160412	SCR-02	1	6.114	4.726	1
R-37	R37-SET	0.046	RG-2	5.875		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	6.252	5.498	1
R-39	R39-SET	0.046	RG-2	6.375		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	6.752	5.998	1
R-39-R	R39-R-SET	0.081	RG-2	6.420		0.856	0.575	VCMT 160412	SCR-02	1	7.114	5.726	1
R-41	R41-SET	0.046	RG-2	7.125		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	7.502	6.748	2
R-44	R44-SET	0.046	RG-2	7.625		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	8.002	7.248	2
R-44-R	R44-R-SET	0.071	RG-2	7.670		0.856	0.575	VCMT 160412	SCR-02	1	8.384	6.956	2
R-45	R45-SET	0.046	RG-2	8.313		0.469	0.310	DCMT 3(2.5)2	SCR-02	2	8.690	7.936	2
R-46	R46-SET	0.048	RG-2	8.313		0.531	0.380	VCMT 160412	SCR-02	2	8.748	7.878	2
R-46-R	R46-R-SET	0.082	RG-2	8.360		0.916	0.645	VCMT 160412	SCR-02	1	9.112	7.608	2
1-13/16	1-13/16-SET	0.034	RG-1		4.373	0.377	0.258	VCMT 110308	SCR-01	2	4.305	3.687	1
2-1/16-10K	2-1/16-10K-SET	0.034	RG-1		4.623	0.377	0.258	VCMT 110308	SCR-01	2	4.555	3.937	1
2-9/16-15K	2-9/16-15K-SET	0.034	RG-2		5.873	0.377	0.258	VCMT 110308	SCR-01	2	5.805	5.187	1
3-1/16-10K	3-1/16-10K-SET	0.034	RG-2		5.748	0.377	0.258	VCMT 110308	SCR-01	2	5.680	5.062	1
4-1/16-10K	4-1/16-10K-SET	0.034	RG-2		7.123	0.377	0.258	VCMT 110308	SCR-01	2	7.055	6.437	2
5-1/8-10K	5-1/8-10K-SET	0.034	RG-2		8.748	0.377	0.258	VCMT 110308	SCR-01	2	8.680	8.062	2

"-R" in part numbers indicates "Roughout" cartridges.



The OD and ID dimensions are to set the cut diameter of a given cartridge set using a presetter. The dimensions are the cut diameter of the tool at the depth of the ring groove. By setting zero at the nose radius then moving the presetter to the depth of the API groove the OD and ID can be preset to the dimensions shown. See illustration to the left.

Note: A CNC machine is required



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Insert	Grade
DCMT 3(2.5)2	6N, PC45, 60C
DCMT 3(2.5)3	PC45
VCMT 110308	35C
VCMT 160408	35C
VCMT 160412	35C

Ring Groove Body	Mounting Bolts	Set Screws
RG-1	01-05	01-08
RG-2	01-05	01-08
RG-3	01-06	01-09
RG-4	01-07	01-10