

Advent[®]
Tool and Manufacturing Inc.



ADVENT TOOL OCTI-EDGE

THREADING AND GROOVING SYSTEM
GIVING YOU AN EXTRA EDGE IN THE MARKETPLACE

MADE IN THE USA

INSERTS UP TO 8 CUTTING EDGES

ADVENT OCTI-EDGE Threading and Grooving System

OCTI-EDGE Threading Inserts

#2 size = 11/32" I.C. 6 Edges
 #3 size = 7/16" I.C. 8 Edges
 #4, Q size = 9/16" I.C. 8 Edges

60° Partial Profile Threading Inserts, Internal/External

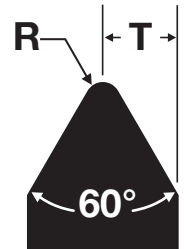
NX - Internal Neutral XX - Internal/External Neutral

Style RH = Insert for Right Hand Holder only, Style LH = Insert for Left Hand Holder only, Style Neutral = Insert for RH or LH

American UN Internal/External Threading Inserts

The V Partial Profile Insert cuts without "topping" the O.D. of the thread. Same insert can be used for a range of different thread pitches.

Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
2	11/32	AOI-2NX AG60	32-8	0.078	0.003	Neutral	Internal
2	11/32	AOI-2NX G60	14-8	0.078	0.007	Neutral	Internal
3	7/16	AOI-3XX AG60	32-8	0.078	0.003	Neutral	Internal/External
3	7/16	AOI-3XX G60	14-8	0.078	0.007	Neutral	Internal/External
4	9/16	AOI-4XX N60	8-5	0.098	0.010	Neutral	Internal/External



Size # 2

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4XXN60Z2 – Inserts are supplied in packages of 5 Inserts.

60° Full-Profile Threading Inserts, Internal/External

ER - External Right Hand EL - External Left Hand EX - External Neutral NR - Internal Right Hand NL - Internal Left Hand NX - Internal Neutral

Style RH = Insert for Right Hand Holder only, Style LH = Insert for Left Hand Holder only, Style Neutral = Insert for RH or LH

American UN External Threading Inserts

The Full-Profile Insert cuts the complete thread profile, including the crest. For every thread standard and pitch a separate insert is required.

Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
3	7/16	AOI-3ER 32UN	32	0.016	0.004	RH	External
3	7/16	AOI-3EL 32UN	32	0.016	0.004	LH	External
3	7/16	AOI-3ER 28UN	28	0.024	0.004	RH	External
3	7/16	AOI-3EL 28UN	28	0.024	0.004	LH	External
3	7/16	AOI-3ER 24UN	24	0.036	0.005	RH	External
3	7/16	AOI-3EL 24UN	24	0.036	0.005	LH	External
3	7/16	AOI-3ER 20UN	20	0.029	0.006	RH	External
3	7/16	AOI-3EL 20UN	20	0.029	0.006	LH	External
3	7/16	AOI-3ER 18UN	18	0.050	0.007	RH	External
3	7/16	AOI-3EL 18UN	18	0.050	0.007	LH	External
3	7/16	AOI-3ER 16UN	16	0.047	0.008	RH	External
3	7/16	AOI-3EL 16UN	16	0.047	0.008	LH	External
3	7/16	AOI-3ER 14UN	14	0.042	0.009	RH	External
3	7/16	AOI-3EL 14UN	14	0.042	0.009	LH	External
3	7/16	AOI-3ER 13UN	13	0.040	0.009	RH	External
3	7/16	AOI-3EL 13UN	13	0.040	0.009	LH	External
3	7/16	AOI-3EX 12UN	12	0.078	0.01	Neutral	External
3	7/16	AOI-3EX 11UN	11	0.078	0.011	Neutral	External
3	7/16	AOI-3EX 10UN	10	0.078	0.012	Neutral	External
3	7/16	AOI-3EX 9UN	9	0.078	0.014	Neutral	External
3	7/16	AOI-3EX 8UN	8	0.078	0.015	Neutral	External
4	9/16	AOI-4EX 7UN	7	0.098	0.018	Neutral	External
4	9/16	AOI-4EX 6UN	6	0.098	0.021	Neutral	External
4	9/16	AOI-4EX 5UN	5	0.098	0.025	Neutral	External

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4EX5UNC1 – Inserts are supplied in packages of 5 Inserts.



Size # 3




Size # 4



Full-profile

American UNJ External Threading Inserts



Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
3	7/16	AOI-3ER 32UNJ	32	0.016	0.006	RH	External
3	7/16	AOI-3EL 32UNJ	32	0.016	0.006	LH	External
3	7/16	AOI-3ER 28UNJ	28	0.024	0.006	RH	External
3	7/16	AOI-3EL 28UNJ	28	0.024	0.006	LH	External
3	7/16	AOI-3ER 24UNJ	24	0.036	0.008	RH	External
3	7/16	AOI-3EL 24UNJ	24	0.036	0.008	LH	External
3	7/16	AOI-3ER 20UNJ	20	0.029	0.009	RH	External
3	7/16	AOI-3EL 20UNJ	20	0.029	0.009	LH	External
3	7/16	AOI-3ER 18UNJ	18	0.050	0.01	RH	External
3	7/16	AOI-3EL 18UNJ	18	0.050	0.01	LH	External
3	7/16	AOI-3ER 16UNJ	16	0.047	0.011	RH	External
3	7/16	AOI-3EL 16UNJ	16	0.047	0.011	LH	External
3	7/16	AOI-3ER 14UNJ	14	0.042	0.013	RH	External
3	7/16	AOI-3EL 14UNJ	14	0.042	0.013	LH	External
3	7/16	AOI-3ER 13UNJ	13	0.040	0.014	RH	External
3	7/16	AOI-3EL 13UNJ	13	0.040	0.014	LH	External
3	7/16	AOI-3EX 12UNJ	12	0.078	0.015	Neutral	External
3	7/16	AOI-3EX 11UNJ	11	0.078	0.016	Neutral	External
3	7/16	AOI-3EX 10UNJ	10	0.078	0.018	Neutral	External
3	7/16	AOI-3EX 9UNJ	9	0.078	0.02	Neutral	External
3	7/16	AOI-3EX 8UNJ	8	0.078	0.023	Neutral	External

Insert Grade:

C1 (TiN C1-carbide), Z1 (TiAlN C1-carbide), Y1 (TiCN C1-carbide), C5 (TiN C5-carbide), Z5 (TiAlN C5-carbide), Z2 (TiAlN C2/C3-carbide), X2 (ZrN C2/C3-carbide)

Ordering example: AOI-3EX8UNJ1 – Inserts are supplied in packages of 5 Inserts.

American UN Internal Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
2	11/32	AOI-2NR 32UN	32	0.016	0.002	RH	Internal
2	11/32	AOI-2NL 32UN	32	0.016	0.002	LH	Internal
2	11/32	AOI-2NR 28UN	28	0.024	0.003	RH	Internal
2	11/32	AOI-2NL 28UN	28	0.024	0.003	LH	Internal
2	11/32	AOI-2NR 24UN	24	0.036	0.003	RH	Internal
2	11/32	AOI-2NL 24UN	24	0.036	0.003	LH	Internal
2	11/32	AOI-2NR 20UN	20	0.029	0.003	RH	Internal
2	11/32	AOI-2NL 20UN	20	0.029	0.003	LH	Internal
2	11/32	AOI-2NR 18UN	18	0.050	0.004	RH	Internal
2	11/32	AOI-2NL 18UN	18	0.050	0.004	LH	Internal
2	11/32	AOI-2NR 16UN	16	0.047	0.005	RH	Internal
2	11/32	AOI-2NL 16UN	16	0.047	0.005	LH	Internal
2	11/32	AOI-2NR 14UN	14	0.042	0.005	RH	Internal
2	11/32	AOI-2NL 14UN	14	0.042	0.005	LH	Internal
2	11/32	AOI-2NR 13UN	13	0.040	0.006	RH	Internal
2	11/32	AOI-2NL 13UN	13	0.040	0.006	LH	Internal
2	11/32	AOI-2NX 12UN	12	0.078	0.006	Neutral	Internal
2	11/32	AOI-2NX 11UN	11	0.078	0.007	Neutral	Internal
2	11/32	AOI-2NX 10UN	10	0.078	0.007	Neutral	Internal

American UN Internal Threading Inserts - Continued



2	11/32	AOI-2NX 9UN	9	0.078	0.008	Neutral	Internal
2	11/32	AOI-2NX 8UN	8	0.078	0.009	Neutral	Internal
3	7/16	AOI-3NR 32UN	32	0.016	0.002	RH	Internal
3	7/16	AOI-3NL 32UN	32	0.016	0.002	LH	Internal
3	7/16	AOI-3NR 28UN	28	0.024	0.003	RH	Internal
3	7/16	AOI-3NL 28UN	28	0.024	0.003	LH	Internal
3	7/16	AOI-3NR 24UN	24	0.036	0.003	RH	Internal
3	7/16	AOI-3NL 24UN	24	0.036	0.003	LH	Internal
3	7/16	AOI-3NR 20UN	20	0.029	0.003	RH	Internal
3	7/16	AOI-3NL 20UN	20	0.029	0.003	LH	Internal
3	7/16	AOI-3NR 18UN	18	0.050	0.005	RH	Internal
3	7/16	AOI-3NL 18UN	18	0.050	0.005	LH	Internal
3	7/16	AOI-3NR 16UN	16	0.047	0.005	RH	Internal
3	7/16	AOI-3NL 16UN	16	0.047	0.006	LH	Internal
3	7/16	AOI-3NR 14UN	14	0.042	0.006	RH	Internal
3	7/16	AOI-3NL 14UN	14	0.042	0.009	LH	Internal
3	7/16	AOI-3NR 13UN	13	0.040	0.009	RH	Internal
3	7/16	AOI-3NL 13UN	13	0.040	0.009	LH	Internal
3	7/16	AOI-3NX 12UN	12	0.078	0.006	Neutral	Internal
3	7/16	AOI-3NX 11UN	11	0.078	0.007	Neutral	Internal
3	7/16	AOI-3NX 10UN	10	0.078	0.007	Neutral	Internal
3	7/16	AOI-3NX 9UN	9	0.078	0.008	Neutral	Internal
3	7/16	AOI-3NX 8UN	8	0.078	0.009	Neutral	Internal
4	9/16	AOI-4NX 7UN	7	0.098	0.011	Neutral	Internal
4	9/16	AOI-4NX 6UN	6	0.098	0.013	Neutral	Internal
4	9/16	AOI-4NX 5UN	5	0.098	0.015	Neutral	Internal

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4NX5UNC1 – Inserts are supplied in packages of 5 Inserts.

Metric ISO External Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
3	7/16	AOI-3ER 0.5ISO	0.5	0.019	0.002	RH	External
3	7/16	AOI-3EL 0.5ISO	0.5	0.019	0.002	LH	External
3	7/16	AOI-3ER 0.75ISO	0.75	0.019	0.004	RH	External
3	7/16	AOI-3EL 0.75ISO	0.75	0.019	0.004	LH	External
3	7/16	AOI-3ER 1.0ISO	1	0.021	0.005	RH	External
3	7/16	AOI-3EL 1.0ISO	1	0.021	0.005	LH	External
3	7/16	AOI-3ER 1.25ISO	1.25	0.029	0.006	RH	External
3	7/16	AOI-3EL 1.25ISO	1.25	0.029	0.006	LH	External
3	7/16	AOI-3ER 1.5ISO	1.5	0.049	0.007	RH	External
3	7/16	AOI-3EL 1.5ISO	1.5	0.049	0.007	LH	External
3	7/16	AOI-3ER 1.75ISO	1.75	0.044	0.009	RH	External
3	7/16	AOI-3EL 1.75ISO	1.75	0.044	0.009	LH	External
3	7/16	AOI-3ER 2.0ISO	2	0.039	0.01	RH	External
3	7/16	AOI-3EL 2.0ISO	2	0.039	0.01	LH	External
3	7/16	AOI-3EX 2.5ISO	2.5	0.078	0.012	Neutral	External

Metric ISO External Threading Inserts - Continued

3	7/16	AOI-3EX 3.0ISO	3	0.078	0.015	Neutral	External
4	9/16	AOI-4EX 3.5ISO	3.5	0.098	0.017	Neutral	External
4	9/16	AOI-4EX 4.0ISO	4	0.098	0.02	Neutral	External
4	9/16	AOI-4EX 4.5ISO	4.5	0.098	0.022	Neutral	External
4	9/16	AOI-4EX 5.0ISO	5	0.098	0.025	Neutral	External

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4EX5.0ISO C1 – Inserts are supplied in packages of 5 Inserts.

Metric ISO Internal Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
2	11/32	AOI-2NR 1.0ISO	1	0.021	0.003	RH	Internal
2	11/32	AOI-2NL 1.0ISO	1	0.021	0.003	LH	Internal
2	11/32	AOI-2NR 1.25ISO	1.25	0.029	0.004	RH	Internal
2	11/32	AOI-2NL 1.25ISO	1.25	0.029	0.004	LH	Internal
2	11/32	AOI-2NR 1.5ISO	1.5	0.049	0.004	RH	Internal
2	11/32	AOI-2NL 1.5ISO	1.5	0.049	0.004	LH	Internal
2	11/32	AOI-2NR 1.75ISO	1.75	0.044	0.005	RH	Internal
2	11/32	AOI-2NL 1.75ISO	1.75	0.044	0.005	LH	Internal
2	11/32	AOI-2NR 2.0ISO	2	0.039	0.006	RH	Internal
2	11/32	AOI-2NL 2.0ISO	2	0.039	0.006	LH	Internal
2	11/32	AOI-2NX 2.5ISO	2.5	0.078	0.007	Neutral	Internal
2	11/32	AOI-2NX 3.0ISO	3	0.078	0.009	Neutral	Internal
3	7/16	AOI-3NR 1.0ISO	1	0.021	0.003	RH	Internal
3	7/16	AOI-3NL 1.0ISO	1	0.021	0.003	LH	Internal
3	7/16	AOI-3NR 1.25ISO	1.25	0.029	0.004	RH	Internal
3	7/16	AOI-3NL 1.25ISO	1.25	0.029	0.004	LH	Internal
3	7/16	AOI-3NR 1.5ISO	1.5	0.049	0.004	RH	Internal
3	7/16	AOI-3NL 1.5ISO	1.5	0.049	0.004	LH	Internal
3	7/16	AOI-3NR 1.75ISO	1.75	0.044	0.005	RH	Internal
3	7/16	AOI-3NL 1.75ISO	1.75	0.044	0.005	LH	Internal
3	7/16	AOI-3NR 2.0ISO	2	0.039	0.006	RH	Internal
3	7/16	AOI-3NL 2.0ISO	2	0.039	0.006	LH	Internal
3	7/16	AOI-3NX 2.5ISO	2.5	0.078	0.007	Neutral	Internal
3	7/16	AOI-3NX 3.0ISO	3	0.078	0.009	Neutral	Internal
4	9/16	AOI-4NX 3.5ISO	3.5	0.098	0.01	Neutral	Internal
4	9/16	AOI-4NX 4.0ISO	4	0.098	0.012	Neutral	Internal
4	9/16	AOI-4NX 4.5ISO	4.5	0.098	0.014	Neutral	Internal
4	9/16	AOI-4NX 5.0ISO	5	0.098	0.015	Neutral	Internal

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4NX5.0ISO C1 – Inserts are supplied in packages of 5 Inserts.



American NPT Internal/External Threading Inserts



Size	I.C. (in.)	Part Number	Pitch	T	Radius	Style LH/RH	Style ID/OD
2	11/32	AOI-2NX 18NPT	18	0.078	0.003	Neutral	Internal
2	11/32	AOI-2NX 14NPT	14	0.078	0.003	Neutral	Internal
2	11/32	AOI-2NX 11.5NPT	11.5	0.078	0.003	Neutral	Internal
2	11/32	AOI-2NX 8NPT	8	0.078	0.003	Neutral	Internal
3	7/16	AOI-3XX 18NPT	18	0.078	0.003	Neutral	Internal/External
3	7/16	AOI-3XX 14NPT	14	0.078	0.003	Neutral	Internal/External
3	7/16	AOI-3XX 11.5NPT	11.5	0.078	0.003	Neutral	Internal/External
3	7/16	AOI-3XX 8NPT	8	0.078	0.003	Neutral	Internal/External

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-3XX8NPTC1 – Inserts are supplied in packages of 5 Inserts.

API Full Profile Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	Crest / Root Radius	Taper per foot	Style LH/RH	Style ID/OD
3	7/16	AOI-3XX 10API	10	0.078	0.014 / 0.017	3/4"	Neutral	Internal/External
4	9/16	AOI-4XX 10API	10	0.098	0.014 / 0.017	3/4"	Neutral	Internal/External
4	9/16	AOI-4XX 8API	8	0.098	0.014 / 0.020	3/4"	Neutral	Internal/External



American 29° FULL ACME Internal/External Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	W	DEPTH	Style LH/RH	Style ID/OD
2	11/32	AOI-2NX 12ACME	12	0.078	0.028	0.043	Neutral	Internal
2	11/32	AOI-2NX 10ACME	10	0.078	0.032	0.053	Neutral	Internal
2	11/32	AOI-2NX 8ACME	8	0.078	0.041	0.065	Neutral	Internal
3	7/16	AOI-3XX 12ACME	12	0.078	0.028	0.043	Neutral	Internal/External
3	7/16	AOI-3XX 10ACME	10	0.078	0.032	0.053	Neutral	Internal/External
3	7/16	AOI-3XX 8ACME	8	0.078	0.041	0.065	Neutral	Internal/External
4	9/16	AOI-4XX 6ACME	6	0.098	0.057	0.086	Neutral	Internal/External
4	9/16	AOI-4XX 5ACME	5	0.098	0.069	0.103	Neutral	Internal/External

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4XX5ACMEC1 – Inserts are supplied in packages of 5 Inserts.

American 29° STUB ACME Internal/External Threading Inserts

Size	I.C. (in.)	Part Number	Pitch	T	W	DEPTH	Style LH/RH	Style ID/OD
2	11/32	AOI-2NX 12STACME	12	0.078	0.033	0.027	Neutral	Internal
2	11/32	AOI-2NX 10STACME	10	0.078	0.037	0.033	Neutral	Internal
2	11/32	AOI-2NX 8STACME	8	0.078	0.048	0.041	Neutral	Internal
3	7/16	AOI-3XX 12STACME	12	0.078	0.033	0.027	Neutral	Internal/External
3	7/16	AOI-3XX 10STACME	10	0.078	0.037	0.033	Neutral	Internal/External
3	7/16	AOI-3XX 8STACME	8	0.078	0.048	0.041	Neutral	Internal/External
4	9/16	AOI-4XX 6STACME	6	0.098	0.065	0.053	Neutral	Internal/External
4	9/16	AOI-4XX 5STACME	5	0.098	0.079	0.063	Neutral	Internal/External

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4XX5STACMEC1 – Inserts are supplied in packages of 5 Inserts.

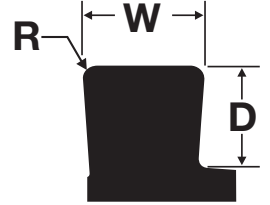
OCTI-EDGE Grooving Inserts

2 size 3 ID Grooving edges OCTI-EDGE carbide inserts

#2 size = 11/32" I.C. 3 Edges
 #3 size = 7/16" I.C. 4 Edges
 #4, Q size = 9/16" I.C. 4 Edges



Size	I.C. (in.)	Part Number	W	D	R	Style LH/RH
2	11/32	AOI-2NL 031NG	0.031	0.05	0.005	LH
2	11/32	AOI-2NL 041NG	0.041	0.05	0.005	LH
2	11/32	AOI-2NL 047NG	0.047	0.050	0.005	LH
2	11/32	AOI-2NL 058NG	0.058	0.050	0.005	LH
2	11/32	AOI-2NL 062NG	0.062	0.125	0.008	LH
2	11/32	AOI-2NL 094NG	0.094	0.125	0.008	LH
2	11/32	AOI-2NL 125NG	0.125	0.125	0.008	LH



Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-2NL125NGC1 – Inserts are supplied in packages of 5 Inserts.

3 size 4 OD/ID Grooving edges OCTI-EDGE carbide inserts



Size	I.C. (in.)	Part Number	W	D	R	Style LH/RH
3	7/16	AOI-3XR 031NG	0.031	0.050	0.005	RH
3	7/16	AOI-3XL 031NG	0.031	0.050	0.005	LH
3	7/16	AOI-3XR 062NG	0.062	0.125	0.008	RH
3	7/16	AOI-3XL 062NG	0.062	0.125	0.008	LH
3	7/16	AOI-3XR 094NG	0.094	0.125	0.008	RH
3	7/16	AOI-3XL 094NG	0.094	0.125	0.008	LH
3	7/16	AOI-3XR 125NG	0.125	0.125	0.008	RH
3	7/16	AOI-3XL 125NG	0.125	0.125	0.008	LH

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-3XL125NGC1 – Inserts are supplied in packages of 5 Inserts.

4 size 4 OD/ID Grooving edges OCTI-EDGE carbide inserts



Size	I.C. (in.)	Part Number	W	D	R	Style LH/RH
4	9/16	AOI-4XR 062NG	0.062	0.125	0.008	RH
4	9/16	AOI-4XL 062NG	0.062	0.125	0.008	LH
4	9/16	AOI-4XR 094NG	0.094	0.180	0.008	RH
4	9/16	AOI-4XL 094NG	0.094	0.180	0.008	LH
4	9/16	AOI-4XR 125NG	0.125	0.180	0.008	RH
4	9/16	AOI-4XL 125NG	0.125	0.180	0.008	LH
4	9/16	AOI-4XR 156NG	0.156	0.180	0.008	RH
4	9/16	AOI-4XL 156NG	0.156	0.180	0.008	LH
4	9/16	AOI-4XR 188NG	0.188	0.190	0.008	RH
4	9/16	AOI-4XL 188NG	0.188	0.190	0.008	LH

Insert Grade:

C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-4XL188NGC1 – Inserts are supplied in packages of 5 Inserts.

NOTE: All in-between groove sizes are available! Full Ball Radius, Face grooving & Specials are available!

Please call for quote 800.847.3234



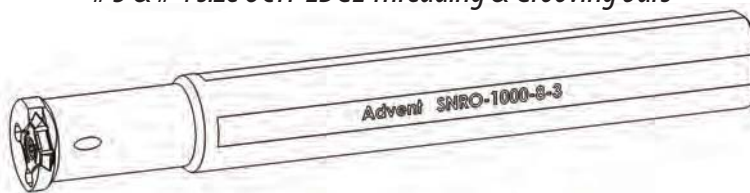
OCTI-EDGE Threading and Grooving Holders

2 size OCTI-EDGE ID Threading & Grooving Bars



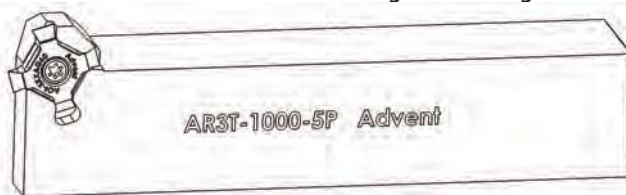
Size	I.C. (in.)	LH Part #	RH Part #	D (in.)	L (in.)	Type	Min. Bore
2	11/32	SNLO 0625-6-2	SNRO 0625-6-2	0.625	6	Threading bar	0.765
2	11/32	SNLO 0750-7-2	SNRO 0750-7-2	0.750	7	Threading bar	0.875
2	11/32	SNLS 0625-6-2	SNRS 0625-6-2	0.625	6	Grooving bar	0.765
2	11/32	SNLS 0750-7-2	SNRS 0750-7-2	0.750	7	Grooving bar	0.875

3 & # 4 size OCTI-EDGE Threading & Grooving bars



Size	I.C. (in.)	LH Part #	RH Part #	D (in.)	L (in.)	Type	Min. Bore
3	7/16	SNLO-0750-7-3	SNRO-0750-7-3	0.750	7	Threading bar	0.875
3	7/16	SNLO-1000-8-3	SNRO-1000-8-3	1.000	8	Threading bar	1.145
3	7/16	SNLO-1250-8-3	SNRO-1250-8-3	1.250	8	Threading bar	1.395
4	9/16	SNLO-1000-8-4	SNRO-1000-8-4	1.000	8	Threading bar	1.25
4	9/16	SNLO-1250-8-4	SNRO-1250-8-4	1.250	8	Threading bar	1.45
3	7/16	SNLS-0750-7-3	SNRS-0750-7-3	0.750	7	Grooving bar	0.875
3	7/16	SNLS-1000-8-3	SNRS-1000-8-3	1.000	8	Grooving bar	1.145
4	9/16	SNLS-1000-8-4	SNRS-1000-8-4	1.000	8	Grooving bar	1.25
4	9/16	SNLS-1250-8-4	SNRS-1250-8-4	1.250	8	Grooving bar	1.45
4	9/16	SNLS-1500-8-4	SNRS-1500-8-4	1.500	8	Grooving bar	1.75

3 & # 4 size OCTI-EDGE Threading & Grooving holders



Size	I.C. (in.)	LH Part #	RH Part #	A & B (in.)	L (in.)	Type
3	7/16	AL3T-0500-4	AR3T-0500-4	0.5 x 0.5	4	Threading holder
3	7/16	AL3T-0625-4	AR3T-0625-4	0.625 x 0.625	4	Threading holder
3	7/16	AL3T-0750-5	AR3T-0750-5	0.75 x 0.75	5	Threading holder
3	7/16	AL3T-1000-5	AR3T-1000-5	1 x 1	5	Threading holder
3	7/16	AL3T-1250-5	AR3T-1250-5	1.25 x 1.25	5	Threading holder
4	9/16	AL4T-1000-5	AR4T-1000-5	1 x 1	5	Threading holder
4	9/16	AL4T-1250-5	AR4T-1250-5	1.25 x 1.25	5	Threading holder
3	7/16	AL3G-0500-4P	AR3G-0500-4P	0.5 x 0.5	4	Grooving holder
3	7/16	AL3G-0750-5P	AR3G-0750-5P	0.75 x 0.75	5	Grooving holder
3	7/16	AL3G-1000-5P	AR3G-1000-5P	1 x 1	5	Grooving holder
4	9/16	AL4G-1000-5P	AR4G-1000-5P	1 x 1	5	Grooving holder
4	9/16	AL4G-1250-5P	AR4G-1250-5P	1.25 x 1.25	5	Grooving holder

OCTI-EDGE Cut Off & Deep Grooving Tooling

Q size 4 edges OCTI-EDGE carbide inserts



Right Hand



Left Hand

Size	I.C. (in.)	Part Number	W (in.)	D (in.)	Style LH/RH	Nose
Q	9/16	AOI-QXL 031N	0.031	0.110	LH	N
Q	9/16	AOI-QXR 031N	0.031	0.110	RH	N
Q	9/16	AOI-QXR 031C4A	0.031	0.110	RH	4A
Q	9/16	AOI-QXR 031C18A	0.031	0.110	RH	18A
Q	9/16	AOI-QXL 062N	0.062	0.265	LH	N
Q	9/16	AOI-QXR 062N	0.062	0.265	RH	N
Q	9/16	AOI-QXR 062C4A	0.062	0.265	RH	4A
Q	9/16	AOI-QXR 062C18A	0.062	0.265	RH	18A
Q	9/16	AOI-QXL 094N	0.094	0.265	LH	N
Q	9/16	AOI-QXR 094N	0.094	0.265	RH	N
Q	9/16	AOI-QXR 094C4A	0.094	0.265	RH	4A
Q	9/16	AOI-QXR 094C18A	0.094	0.265	RH	18A

Insert Grade: C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

Ordering example: AOI-QXR094C18AC1 – Inserts are supplied in packages of 5 Inserts.

Q size 4 edges OCTI-EDGE carbide inserts, metric sizes

Size	I.C. (in.)	Part Number	W (mm)	D (mm)	Style LH/RH	Nose
Q	9/16	AOI-QXR 1N	1	2.790	RH	N
Q	9/16	AOI-QXR 1C4A	1	2.790	RH	4A
Q	9/16	AOI-QXR 1C18A	1	2.790	RH	18A
Q	9/16	AOI-QXR 1.5N	1.5	6.730	RH	N
Q	9/16	AOI-QXR 1.5C4A	1.5	6.730	RH	4A
Q	9/16	AOI-QXR 1.5C18A	1.5	6.730	RH	18A
Q	9/16	AOI-QXR 2N	2	6.730	RH	N
Q	9/16	AOI-QXR 2C4A	2	6.730	RH	4A
Q	9/16	AOI-QXR 2C18A	2	6.730	RH	18A

Insert Grade: C1(TiN C1-carbide), Z1(TiAlN C1-carbide), Y1(TiCN C1-carbide), C5(TiN C5-carbide), Z5(TiAlN C5-carbide), Z2(TiAlN C2/C3-carbide), X2(ZrN C2/C3-carbide)

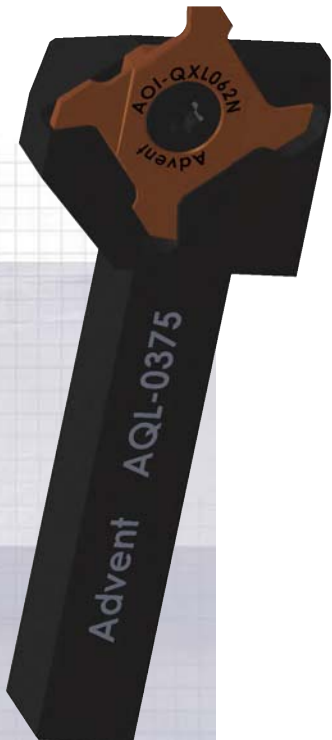
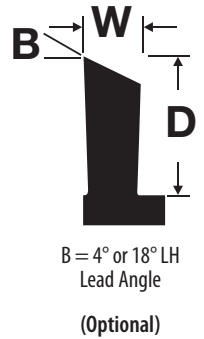
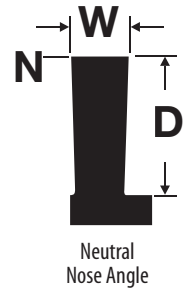
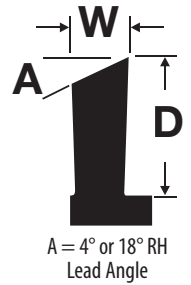
Ordering example: AOI-QXR2C18AC1 – Inserts are supplied in packages of 5 Inserts.

Q size OCTI-EDGE holders

Size	I.C. (in.)	LH Part #	RH Part #	A & B (in.)	L (in.)
Q	9/16	AQL-0375-3	AQR-0375-3	0.375 x 0.375	3
Q	9/16	AQL-0500-4	AQR-0500-4	0.5 x 0.5	4
Q	9/16	AQL-0625-4	AQR-0625-4	0.625 x 0.625	4
Q	9/16	AQL-0750-5	AQR-0750-5	0.75 x 0.75	5
Q	9/16	AQL-10-3	AQR-10-3	10mm x 10mm	3
Q	9/16	AQL-12-4	AQR-12-4	12mm x 12mm	4
Q	9/16	AQL-16-4	AQR-16-4	16mm x 16mm	4

Right Hand is Standard. Left Hand available on Request.

Many more items are available on the Q system. Please call for quote 800.847.3234



Hardware Insert Screws for OCTI-EDGE SYSTEM

Size	Screw	TORX Wrench
2	Insert screw A2S	ATW10
3	Insert screw A3S	ATW15
4	Insert screw A4S	ATW20
Q	Insert screw A4S	ATW20

Advent Carbide Insert Grades	Carbide Insert Grades	Applications
C1	K30 / C1 - MICRO GRAIN / TiN COATED	Alloys steels, Stainless Steels, High Temp Alloys
Z1	K30 / C1 - MICRO GRAIN / TiAlN COATED	Higher speeds, Oxidation resistant
Y1	K30 / C1 - MICRO GRAIN / TiCN COATED	Shock resistant, Austenitic Steels, High Temp Alloys
C5	P30 / C5 - MEDIUM GRAIN / TiN COATED	Steels, Gen purpose
Z5	P30 / C5 - MEDIUM GRAIN / TiAlN COATED	Steels, Gen purpose, Higher speeds
Z2	K10 / C2, C3 - MICRO GRAIN / TiAlN COATED	Cast Iron, Nodular Iron
X2	K10 / C2, C3 - MICRO GRAIN / ZrN COATED	Aluminum, Magnesium, Copper, Non-ferrous Materials

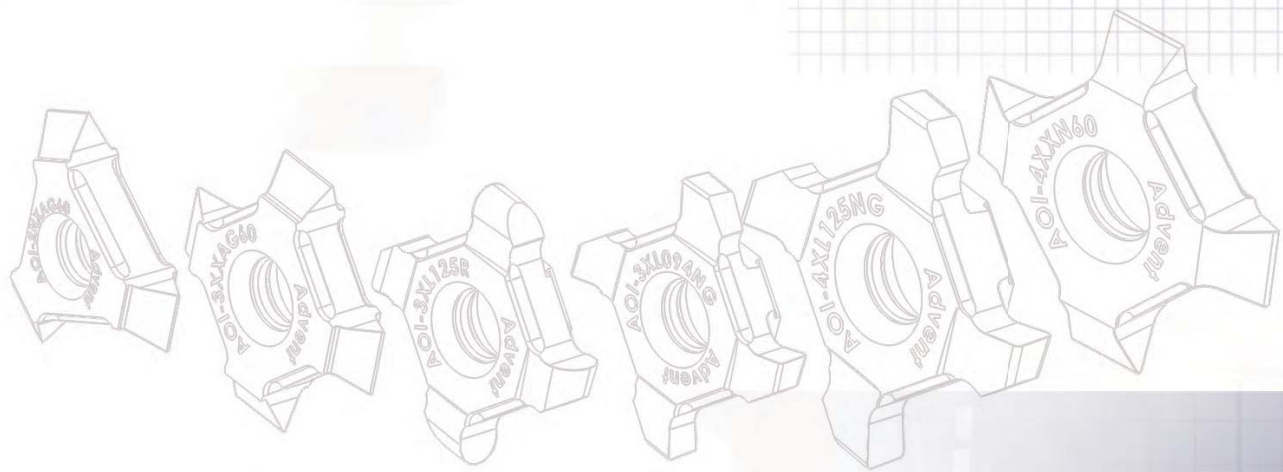
NOTE: Most types of thread forms will be available soon!





ADVENT OCTI-EDGE CATALOG

NOTES



Supplied by: _____

Advent Tool and Manufacturing Inc.
710 Anita Avenue
Antioch, IL 60002

Tel: 847.395.9707
Fax: 866.269.8186
1.800.THREAD4 (1.800.847.3234)

info@advent-threadmill.com
www.advent-threadmill.com

