

ADVENT
TOOL & MANUFACTURING INC.



GT Tooling

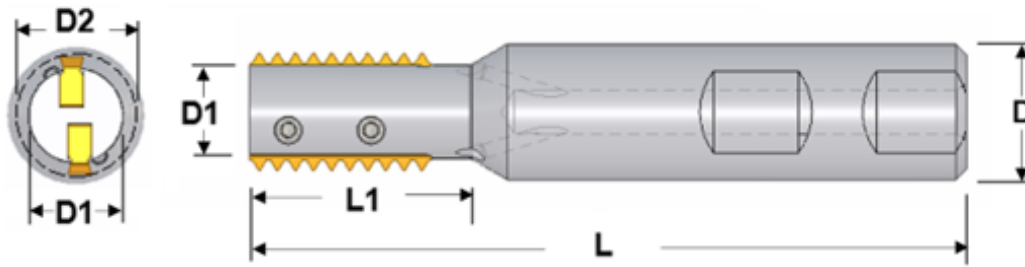
2019



**Replaceable
Inserts & Holders**

advent-threadmill.com

1-800-847-3234



INCH

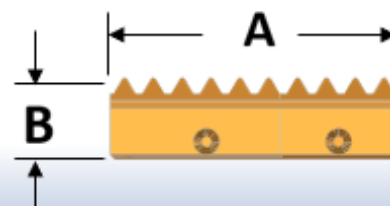
Part Number	EDP	Description	L	L1	D	D1	D2	Screw Size	Radial Coolant	Thru Coolant
GTL-63-75-F1-125	30300	1 Flute Ins. Mill	4.00	1.25	.75	.47	.630	M4	Yes	No
GTL-63-75-F1-175	30301	1 Flute Ins. Mill	4.50	1.75	.75	.47	.630	M4	Yes	No
GTL-67-75-F2-125	30302	2 Flute Ins. Mill	4.00	1.25	.75	.51	.670	M4	Yes	No
GTL-67-75-F2-175	30303	2 Flute Ins. Mill	4.50	1.75	.75	.51	.670	M4	Yes	No
GTL-75-100-F2-125	30304	2 Flute Ins. Mill	4.00	1.25	1.00	.59	.750	M4	Yes	Yes
GTL-75-100-F2-175	30305	2 Flute Ins. Mill	4.50	1.75	1.00	.59	.750	M4	Yes	Yes
GTL-81-100-F3-150	30306	3 Flute Ins. Mill	4.25	1.50	1.00	.63	.810	M4	Yes	Yes
GTL-81-100-F3-225	30307	3 Flute Ins. Mill	4.75	2.25	1.00	.63	.810	M4	Yes	Yes
GTL-87-100-F4-175	30311	4 Flute Ins. Mill	5.00	1.75	1.00	.70	.870	M4	Yes	Yes
GTL-87-100-F4-225	30312	4 Flute Ins. Mill	5.50	2.25	1.00	.70	.870	M4	Yes	Yes
GTL-118-100-F5-225	30313	5 Flute Ins. Mill	5.00	2.25	1.00	1.20	1.18	M4	Yes	Yes
GTL-118-100-F5-300	30314	5 Flute Ins. Mill	5.50	3.00	1.00	1.20	1.18	M4	Yes	Yes

Coolant-Thru is recommended if D2>0.7 x nominal thread diameter

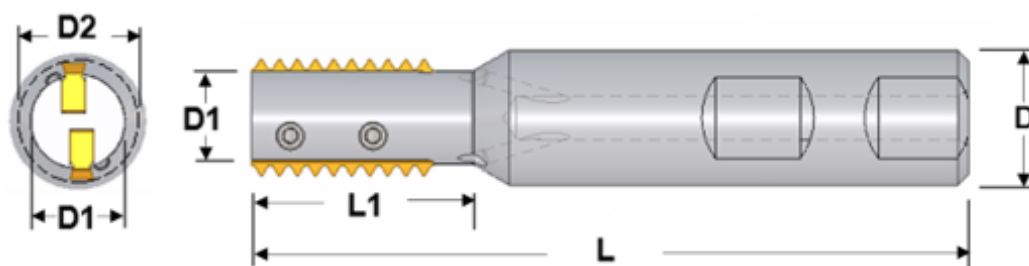
- Fully Hardened / CNC Ground
- Indexable Double Sided Insert
- Small Diameter / Course Pitch Internal Threading
- Thru Body Coolant

TORX+ Tool	
SD-8IP	
Use ADVENT Recommended Torque Tool	

INSERT EXAMPLE / IN"	A	B
AGL-AD20BUN	1.00	.280



M4 SCREW
AGL-SESM4074



METRIC

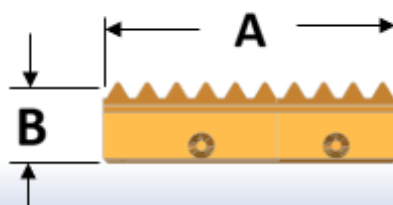
Part Number	EDP	Description	L	L1	D	D1	D2	Screw Size	Radial Coolant	Thru Coolant
GTL-17-20-F2-34	30315	2 Flute Ins. Mill	101	34	20	13	17	M4	Yes	No
GTL-17-20-F2-45	30316	2 Flute Ins. Mill	114	45	20	13	17	M4	Yes	No
GTL-19-25-F2-34	30317	2 Flute Ins. Mill	101	34	25	15	19	M4	Yes	No
GTL-19-25-F2-45	30318	2 Flute Ins. Mill	114	45	25	15	19	M4	Yes	No
GTL-20-25-F3-38	30319	3 Flute Ins. Mill	108	38	25	16.5	20.5	M4	Yes	Yes
GTL-20-25-F3-57	30320	3 Flute Ins. Mill	120	57	25	16.5	20.5	M4	Yes	Yes
GTL-22-25-F4-45	30321	4 Flute Ins. Mill	127	45	25	18	22	M4	Yes	Yes
GTL-22-25-F4-57	30322	4 Flute Ins. Mill	140	57	25	18	22	M4	Yes	Yes
GTL-30-25-F5-58	30323	5 Flute Ins. Mill	127	58	25	26	30	M4	Yes	Yes
GTL-30-25-F5-80	30324	5 Flute Ins. Mill	140	80	25	26	30	M4	Yes	Yes

Coolant-Thru is recommended if $D2 > 0.7 \times$ nominal thread diameter

- Fully Hardened / CNC Ground
- Indexable Double Sided Insert
- Small Diameter / Course Pitch Internal Threading
- Thru Body Coolant

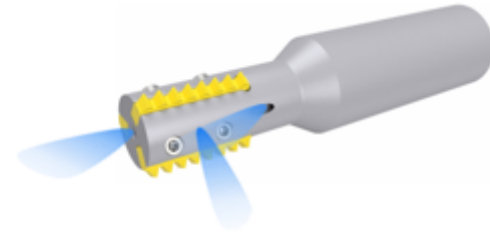
TORX+ Tool	
SD-8IP	
Use ADVENT Recommended Torque Tool	

INSERT EXAMPLE / MM	A	B
AGL-AD1.5MM	25.4	7.11



M4 SCREW
AGL-SESM4074

INCH Tool Series



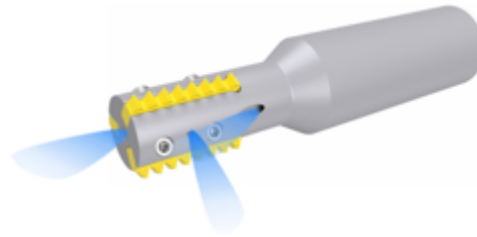
Weldon Flat available on all tools

Carbon and Alloy Steels up to 38Rc

INCH Part Numbers	EDP Number	Holder Relief Length	Cut Diameter	UNC	UN / UNF / UNEF / UNS	ISO Course	ISO Fine	BSF	BSP (G)
GTL-63-75-F1-125 GTL-63-75-F1-175	30300 30301	1.25 1.75	.630	3/4-10	3/4-12, 3/4-14, 3/4-16, 3/4-20, 11/16-24 11/16-32	M20x2.5	M17x0.5, M15x0.75, M15x1.0, M15x1.25, M16x1.5, M16x1.75	3/4-12	N/A
GTL-67-75-F2-125 GTL-67-75-F2-175	30302 30303	1.25 1.75	.670	N/A	7/8-10, 13/16-12, 7/8-14, 3/4-16, 3/4-18 3/4-20	M20x2.5	M19x1.0, M19x1.25, M19x1.5 M20x2.0	7/8-11, 7/8-12, 7/8-14, 7/8-16	1/2-14
GTL-75-100-F2-125 GTL-75-100-F2-175	30304 30305	1.25 1.75	.750	7/8-9, 1-8	7/8-10 7/8-12, 7/8-14, 7/8-16, 7/8-20	M22x2.5, M24x3.0	M21x1.0, M21x1.25, M21x1.5, M22x2.0	7/8-14, 7/8-16, 15/16-12, 15/16-11	5/8-14
GTL-81-100-F3-150 GTL-81-100-F3-225	30306 30307	1.50" 2.25"	.810	1-8	15/16-9, 1-10, 15/16-12 1-14, 15/16-16, 7/8-20	M27x3.0	M22x1.0, M22x1.25, M23x1.5, M23x2.0, M23.5x2.5	1-12, 1-14, 1-16	5/8-14
GTL-87-100-F4-175 GTL-87-100-F4-225	30311 30312	1.75" 2.25"	.870	N/A	1-11/16-8, 1-9, 1-10, 1-12, 1-14, 1-16, 15/16-20	M27x3.0	M24x1.0, 24x1.25, M24x1.5, M25x2.0, M25x2.5	1-12 1-14 1-16	3/4-14
GTL-118-100-F5-225 GTL-118-100-F5-300	30313 30314	2.25" 3.00"	1.18	N/A	1-3/8-8, 1-3/8-9, 1-3/8-10 1-5/16-12 1-3/8-14, 1-5/16-16 1-5/16-20	N/A	M32x1.0, M32x1.25, M32x1.5, M33x2.0, M33x2.5, M34x3.0	1-3/8-11, 1-3/8-12 1-3/8-14, 1-3/8-16	1-11

Coolant-Thru is recommended if D2>0.7 x nominal thread diameter

METRIC Tool Series



Carbon and Alloy Steels up to 38Rc

METRIC Part Numbers	EDP Number	Holder Relief Length	Cut Diameter	UNC	UN / UNF / UNEF / UNS	ISO Course	ISO Fine	BSF	BSP (G)
GTL-17-20-F2-34 GTL-17-20-F2-45	30315 30316	31mm 45mm	17mm	N/A	7/8-10, 13/16-12, 7/8-14, 7/8-20, 7/8-24, 7/8-16 3/4-18, 3/4-20	M20x2.5	M19x1.0, M19x1.5, M20x2.0	7/8-11, 7/8-12 7/8-14 7/8-16	1/2-14
GTL-19-25-F2-34 GTL-19-25-F2-45	30317 30318	34mm 45mm	19mm	7/8-9, 1-8	7/8-10, 7/8-12, 7/8-14, 7/8-16, 7/8-18, 7/8-20	M22x2.5	M21x1.0, M21x1.5, M22x2.0	7/8-16, 7/8-14 15/16-12, 15/16-11	5/8-14
GTL-20-25-F3-38 GTL-20-25-F3-57	30319 30320	38mm 57mm	20.5mm	1-8	15/16-9, 1-10, 15/16-12, 1-14, 15/16-16 7/8-18, 7/8-20	M24x3.0	M22x1.0, M23x1.5, M23x2.0, M23x2.5	1-11, 1-12, 1-14, 1-16	5/8-14
GTL-22-25-F4-45 GTL-22-25-F4-57	30321 30322	45mm 57mm	22mm	N/A	1-11/16, 1-9, 1-10 1-12, 1-12, 1-14, 1-16, 1-18, 15/16-20	M27x3.0	M24x1.0, M24x1.5, M25x2.0, M25x2.5	1-11, 1-12, 1-14, 1-16	3/4-14
GTL-30-25-F5-58 GTL-30-25-F5-80	30323 30324	58mm 80mm	30mm	N/A	1-3/8, 1-3/8-9, 1-3/8-10 1-5/16-12, 1-3/8-14, 1-5/16-16, 1-5/16-18 1-5/16-20	N/A	M32x1.0, M23x1.5, M33x2, M23x2.5, M34x3.0	1-3/8-11, 1-3/8-12 1-3/8-14, 1-3/8-16	1-11

Coolant-Thru is recommended if D2>0.7 x nominal thread diameter

ADVENT Part Number System, Example: P/N GTL-19-25-F2-34

GTL	19 mm	25 mm	F2	34 mm
Product Line	Cut Diameter	Shank Diameter	Number of Flutes	Relief Length



INCH Holder

NPT / NPS & API

INCH Part Numbers	EDP	Relief Length	Cut Diameter	NPT FORM	NPS FORM	API FORM
GTN-67-100-F2-125	30300	1.25	.675	1/2" NPT	1/2-14	8 API
GTN-67-100-F2-175	30301	1.75		3/4" NPT	1"-11.5	10 API
GTN-78-100-F2-125	30304	1.25	.787	1"-11.5 NPT	1"-11.5	8 API
GTN-78-100-F2-175	30305	1.75		2-1/2"-8 NPT	2-1/2"-8	10 API
GTN-81-100-F3-150	30306	1.50	.810	1"-11.5 NPT	1"-11.5	8 API
GTN-81-100-F3-225	30307	2.25		2-1/2"-8 NPT	2-1/2"-8	10 API

Coolant-Thru is recommended if D2>0.7 x nominal thread diameter

Metric Holder

NPT / NPS & API

METRIC Part Numbers	EDP	Relief Length	Cut Diameter	NPT FORM	NPS FORM	API FORM
GTN-17-20-F2-34	30315	34mm	17.15mm	1/2" NPT	1/2-14	8 API
GTN-17-20-F2-45	30316	45mm		3/4" NPT	1"-11.5	10 API
GTN-19-25-F2-34	30317	34mm	19mm	1"-11.5 NPT	1"-11.5	8 API
GTN-19-25-F2-45	30318	45mm		2-1/2"-8 NPT	2-1/2"-8	10 API
GTN-20-25-F3-38	30319	38mm	20mm	1"-11.5 NPT	1"-11.5	8 API
GTN-20-25-F3-57	30320	57mm		2-1/2"-8 NPT	2-1/2"-8	10 API

Coolant-Thru is recommended if D2>0.7 x nominal thread diameter

TORX+ Tool

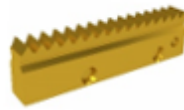
SD-8IP



Use ADVENT Recommended Torque Tool

- Tools will cut Internal or External thread
- Thru Body Coolant

INCH



UN INSERT Part Numbers	EDP	FORM	COATINGS	
			Z	V
AGL-AD7BUNZ	51558	7 UN INT	IN-STOCK	BY REQUEST
AGL-AD8BUNZ	51560	8 UN INT	IN-STOCK	BY REQUEST
AGL-AD9BUNZ	51562	9 UN INT	IN-STOCK	BY REQUEST
AGL-AD10BUNZ	51564	10 UN INT	IN-STOCK	BY REQUEST
AGL-AD12BUNZ	51566	12 UN INT	IN-STOCK	BY REQUEST
AGL-AD14BUNZ	51568	14 UN INT	IN-STOCK	BY REQUEST
AGL-AD16BUNZ	51570	16 UN INT	IN-STOCK	BY REQUEST
AGL-AD20BUNZ	51574	20 UN INT	IN-STOCK	BY REQUEST
AGL-AD24BUNZ	51576	24 UN INT	IN-STOCK	BY REQUEST

❖ Use holders larger than .67 [17mm] Cut Size
7 UN Add +.020" [.50mm] to cut diameter.

METRIC



Metric INSERT Part Numbers	EDP	FORM	COATINGS	
			Z	V
AGL-AD3.0BMMZ	51584	3.0 MM INT	IN-STOCK	BY REQUEST
AGL-AD2.5BMMZ	51586	2.5 MM INT	IN-STOCK	BY REQUEST
AGL-AD2.0BMMZ	51588	2.0 MM INT	IN-STOCK	BY REQUEST
AGL-AD1.5BMMZ	51591	1.5 MM INT	IN-STOCK	BY REQUEST

NPT / API NON - Double Sided



NPT INSERT Part Numbers	EDP	FORM	COATINGS	
			Z	V
AGL-AD14NPTZ	51593	14 NPT	IN-STOCK	BY REQUEST
AGL-AD115NPTZ	51595	11.5 NPT	IN-STOCK	BY REQUEST
AGL-AD8NPTZ	51597	8 NPT	IN-STOCK	BY REQUEST
API INSERT Part Numbers	EDP	FORM	COATINGS	
			Z	V
AGL-AD10APIZ	51599	10 API	IN-STOCK	BY REQUEST
AGL-AD8APIZ	51601	8 API	IN-STOCK	BY REQUEST

❖ Add +.020" [.50mm] to Cut Diameter

Z = TIALN COATING

V = ALTiN COATING