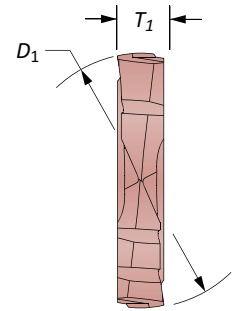
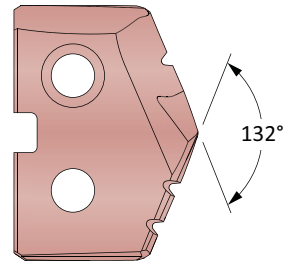




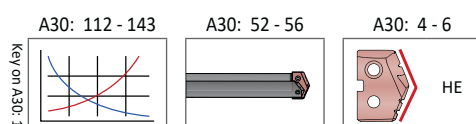
GEN2 T-A® Drill Inserts

1 Series | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")



HSS Inserts – Super Cobalt • Carbide Inserts – K20 (C2) | K35 (C1)

Series	Insert				HSS Part No.		
	D_1 mm	D_1 inch	Fractional Equivalent	T_1 mm	 Super Cobalt	 C2	 C1
1	17.86	0.7031	45/64	4.00	451H-.703	4C21H-.703	4C11H-.703
	18.00	0.7087	–		451H-18	4C21H-18	4C11H-18
	18.26	0.7188	23/32		451H-0023	4C21H-0023	4C11H-0023
	18.50	0.7283	–		451H-18.5	4C21H-18.5	4C11H-18.5
	18.65	0.7344	47/64		451H-.734	4C21H-.734	4C11H-.734
	19.00	0.7480	–		451H-19	4C21H-19	4C11H-19
	19.05	0.7500	3/4		451H-0024	4C21H-0024	4C11H-0024
	19.45	0.7656	49/64		451H-.765	4C21H-.765	4C11H-.765
	19.50	0.7677	–		451H-19.5	4C21H-19.5	4C11H-19.5
	19.84	0.7813	25/32		451H-0025	4C21H-0025	4C11H-0025
	20.00	0.7874	–		451H-20	4C21H-20	4C11H-20
	20.24	0.7969	51/64		451H-.796	4C21H-.796	4C11H-.796
	20.34	0.8010	–		451H-.801	4C21H-.801	4C11H-.801
	20.50	0.8071	–		451H-20.5	4C21H-20.5	4C11H-20.5
	20.64	0.8125	13/16		451H-0026	4C21H-0026	4C11H-0026
	21.00	0.8268	–		451H-21	4C21H-21	4C11H-21
	21.43	0.8438	27/32		451H-0027	4C21H-0027	4C11H-0027
	21.50	0.8465	–		451H-21.5	4C21H-21.5	4C11H-21.5
1.5	21.83	0.8594	55/64	4.00	451H-.859	4C21H-.859	4C11H-.859
	22.00	0.8661	–		451H-22	4C21H-22	4C11H-22
	22.23	0.8750	7/8		451H-0028	4C21H-0028	4C11H-0028
	22.50	0.8858	–		451H-22.5	4C21H-22.5	4C11H-22.5
	20.62	0.8906	57/64		451H-.890	4C21H-.890	4C11H-.890
	23.00	0.9055	–		451H-23	4C21H-23	4C11H-23
	23.02	0.9063	29/32		451H-0029	4C21H-0029	4C11H-0029
	23.42	0.9219	59/64		451H-.921	4C21H-.921	4C11H-.921
	23.50	0.9252	–		451H-23.5	4C21H-23.5	4C11H-23.5
	23.81	0.9375	15/16		451H-0030	4C21H-0030	4C11H-0030
	24.00	0.9449	–		451H-24	4C21H-24	4C11H-24

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

Coatings not listed above can be supplied as non-stocked standards.

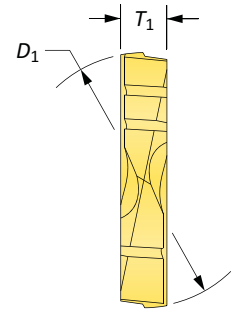
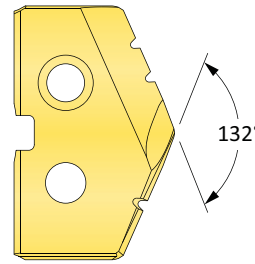
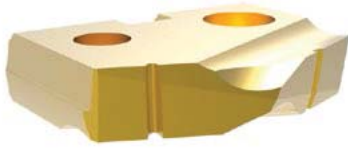


Inserts sold in quantities of 2

TiN = 131T-XXXX	TiAlN = 131A-XXXX
TiCN = 131N-XXXX	AM200® = 131H-XXXX

T-A® Original Drill Inserts

1 Series | HSS | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")

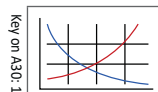


HSS Inserts – Premium Cobalt

Series	Insert				Part No.		
	D ₁ mm	D ₁ inch	Fractional Equivalent	T ₁ mm	 TiN	 TiAlN	 TiCN
1	17.86	0.7031	45/64	4.00	181T-.703	181A-.703	181N-.703
	18.00	0.7087	–		181T-18	181A-18	181N-18
	18.26	0.7188	23/32		181T-0023	181A-0023	181N-0023
	18.50	0.7283	–		181T-18.5	181A-18.5	181N-18.5
	18.65	0.7344	47/64		181T-.734	181A-.734	181N-.734
	19.00	0.7480	–		181T-19	181A-19	181N-19
	19.05	0.7500	3/4		181T-0024	181A-0024	181N-0024
	19.45	0.7656	49/64		181T-.765	181A-.765	181N-.765
	19.50	0.7677	–		181T-19.5	181A-19.5	181N-19.5
	19.84	0.7813	25/32		181T-0025	181A-0025	181N-0025
	20.00	0.7874	–		181T-20	181A-20	181N-20
	20.24	0.7969	51/64		181T-.796	181A-.796	181N-.796
	20.34	0.8010	–		181T-.801	181A-.801	181N-.801
	20.50	0.8071	–		181T-20.5	181A-20.5	181N-20.5
	20.64	0.8125	13/16		181T-0026	181A-0026	181N-0026
	21.00	0.8268	–		181T-21	181A-21	181N-21
	21.43	0.8438	27/32		181T-0027	181A-0027	181N-0027
	21.50	0.8465	–		181T-21.5	181A-21.5	181N-21.5
1.5	21.83	0.8594	55/64	4.00	181T-.859	181A-.859	181N-.859
	22.00	0.8661	–		181T-22	181A-22	181N-22
	22.23	0.8750	7/8		181T-0028	181A-0028	181N-0028
	22.50	0.8858	–		181T-22.5	181A-22.5	181N-22.5
	20.62	0.8906	57/64		181T-.890	181A-.890	181N-.890
	23.00	0.9055	–		181T-23	181A-23	181N-23
	23.02	0.9063	29/32		181T-0029	181A-0029	181N-0029
	23.42	0.9219	59/64		181T-.921	181A-.921	181N-.921
	23.50	0.9252	–		181T-23.5	181A-23.5	181N-23.5
	23.81	0.9375	15/16		181T-0030	181A-0030	181N-0030
	24.00	0.9449	–		181T-24	181A-24	181N-24

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

A30: 112 - 143



A30: 52 - 56



A30: 4 - 6



HI, HR, CR, TC, SK,
NP, IN, RN, CN, AN,
BR, CI, CP, NC, WC

Coatings not listed above
can be supplied as
non-stocked standards.



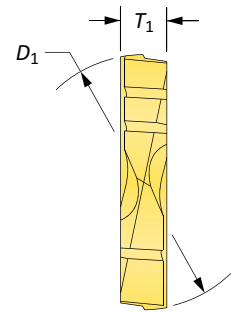
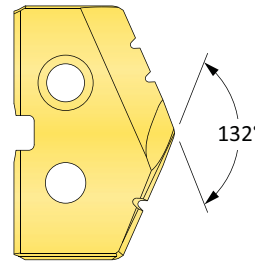
Inserts sold in quantities of 2

TiN = 131T-XXXX	TiAlN = 131A-XXXX
TiCN = 131N-XXXX	AM200® = 131H-XXXX



T-A® Original Drill Inserts

1 Series | HSS | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")

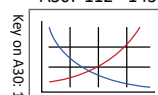


HSS Inserts – Super Cobalt

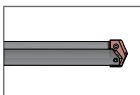
Series	Insert				Part No.		
	D_1 mm	D_1 inch	Fractional Equivalent	T_1 mm	 TiN	 TiAlN	 TiCN
1	17.86	0.7031	45/64	4.00	151T-.703	151A-.703	151N-.703
	18.00	0.7087	–		151T-18	151A-18	151N-18
	18.26	0.7188	23/32		151T-0023	151A-0023	151N-0023
	18.50	0.7283	–		151T-18.5	151A-18.5	151N-18.5
	18.65	0.7344	47/64		151T-.734	151A-.734	151N-.734
	19.00	0.7480	–		151T-19	151A-19	151N-19
	19.05	0.7500	3/4		151T-0024	151A-0024	151N-0024
	19.45	0.7656	49/64		151T-.765	151A-.765	151N-.765
	19.50	0.7677	–		151T-19.5	151A-19.5	151N-19.5
	19.84	0.7813	25/32		151T-0025	151A-0025	151N-0025
	20.00	0.7874	–		151T-20	151A-20	151N-20
	20.24	0.7969	51/64		151T-.796	151A-.796	151N-.796
	20.34	0.8010	–		151T-.801	151A-.801	151N-.801
	20.50	0.8071	–		151T-20.5	151A-20.5	151N-20.5
	20.64	0.8125	13/16		151T-0026	151A-0026	151N-0026
	21.00	0.8268	–		151T-21	151A-21	151N-21
	21.43	0.8438	27/32		151T-0027	151A-0027	151N-0027
	21.50	0.8465	–		151T-21.5	151A-21.5	151N-21.5
1.5	21.83	0.8594	55/64	4.0	151T-.859	151A-.859	151N-.859
	22.00	0.8661	–		151T-22	151A-22	151N-22
	22.23	0.8750	7/8		151T-0028	151A-0028	151N-0028
	22.50	0.8858	–		151T-22.5	151A-22.5	151N-22.5
	20.62	0.8906	57/64		151T-.890	151A-.890	151N-.890
	23.00	0.9055	–		151T-23	151A-23	151N-23
	23.02	0.9063	29/32		151T-0029	151A-0029	151N-0029
	23.42	0.9219	59/64		151T-.921	151A-.921	151N-.921
	23.50	0.9252	–		151T-23.5	151A-23.5	151N-23.5
	23.81	0.9375	15/16		151T-0030	151A-0030	151N-0030
	24.00	0.9449	–		151T-24	151A-24	151N-24

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

A30: 112 - 143



A30: 52 - 56



A30: 4 - 6



HI, HR, CR, TC, SK,
NP, IN, RN, CN, AN,
BR, CI, CP, NC, WC

Coatings not listed above
can be supplied as
non-stocked standards.



Inserts sold in quantities of 2

TiN = 131T-XXXX

TiAlN = 131A-XXXX

TiCN = 131N-XXXX

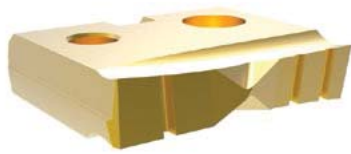
AM200® = 131H-XXXX

T-A® Original Drill Inserts

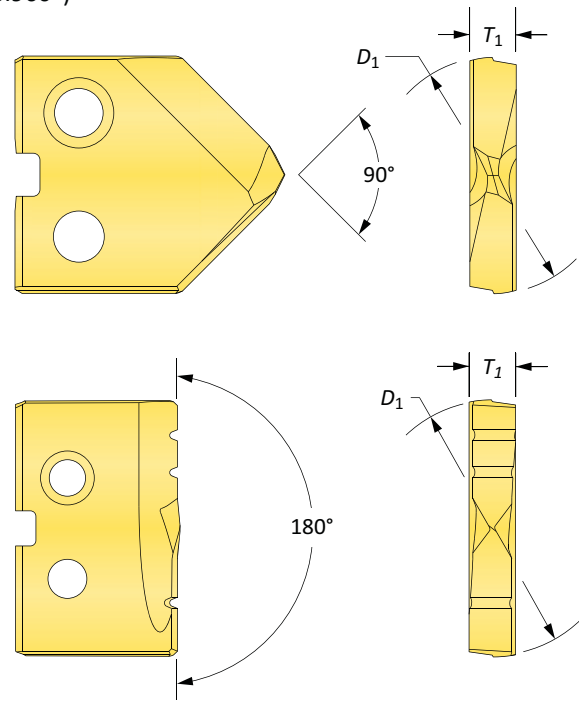
1 Series | HSS | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")



90° Spot & Chamfer



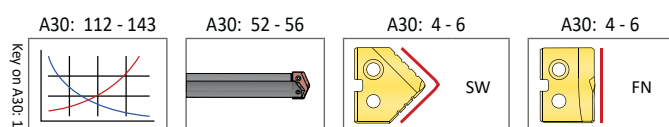
Flat Bottom



HSS Inserts – Super Cobalt

Series	Insert				90° Spot & Chamfer Part No.			Flat Bottom Part No.
	D ₁ mm	D ₁ inch	Fractional Equivalent	T ₁ mm	TiN	TiAlN	TiCN	TiN
1	17.86	0.7031	45/64	4.00	151T-.703-SP	151A-.703-SP	151N-.703-SP	151T-.703-FB
	18.00	0.7087	–		151T-18-SP	151A-18-SP	151N-18-SP	151T-18-FB
	18.26	0.7188	23/32		151T-0023-SP	151A-0023-SP	151N-0023-SP	151T-0023-FB
	18.50	0.7283	–		151T-18.5-SP	151A-18.5-SP	151N-18.5-SP	151T-18.5-FB
	18.65	0.7344	47/64		151T-.734-SP	151A-.734-SP	151N-.734-SP	151T-.734-FB
	19.00	0.7480	–		151T-19-SP	151A-19-SP	151N-19-SP	151T-19-FB
	19.05	0.7500	3/4		151T-0024-SP	151A-0024-SP	151N-0024-SP	151T-0024-FB
	19.45	0.7656	49/64		151T-.765-SP	151A-.765-SP	151N-.765-SP	151T-.765-FB
	19.50	0.7677	–		151T-19.5-SP	151A-19.5-SP	151N-19.5-SP	151T-19.5-FB
	19.84	0.7813	25/32		151T-0025-SP	151A-0025-SP	151N-0025-SP	151T-0025-FB
	20.00	0.7874	–		151T-20-SP	151A-20-SP	151N-20-SP	151T-20-FB
	20.24	0.7969	51/64		151T-.796-SP	151A-.796-SP	151N-.796-SP	151T-.796-FB
	20.34	0.8010	–		151T-.801-SP	151A-.801-SP	151N-.801-SP	151T-.801-FB
	20.50	0.8071	–		151T-20.5-SP	151A-20.5-SP	151N-20.5-SP	151T-20.5-FB
	20.64	0.8125	13/16		151T-0026-SP	151A-0026-SP	151N-0026-SP	151T-0026-FB
	21.00	0.8268	–		151T-21-SP	151A-21-SP	151N-21-SP	151T-21-FB
	21.43	0.8438	27/32		151T-0027-SP	151A-0027-SP	151N-0027-SP	151T-0027-FB
	21.50	0.8465	–		151T-21.5-SP	151A-21.5-SP	151N-21.5-SP	151T-21.5-FB
1.5	21.83	0.8594	55/64	4.0	151T-.859-SP	151A-.859-SP	151N-.859-SP	151T-.859-FB
	22.00	0.8661	–		151T-22-SP	151A-22-SP	151N-22-SP	151T-22-FB
	22.23	0.8750	7/8		151T-0028-SP	151A-0028-SP	151N-0028-SP	151T-0028-FB
	22.50	0.8858	–		151T-22.5-SP	151A-22.5-SP	151N-22.5-SP	151T-22.5-FB
	20.62	0.8906	57/64		151T-.890-SP	151A-.890-SP	151N-.890-SP	151T-.890-FB
	23.00	0.9055	–		151T-23-SP	151A-23-SP	151N-23-SP	151T-23-FB
	23.02	0.9063	29/32		151T-0029-SP	151A-0029-SP	151N-0029-SP	151T-0029-FB
	23.42	0.9219	59/64		151T-.921-SP	151A-.921-SP	151N-.921-SP	151T-.921-FB
	23.50	0.9252	–		151T-23.5-SP	151A-23.5-SP	151N-23.5-SP	151T-23.5-FB
	23.81	0.9375	15/16		151T-0030-SP	151A-0030-SP	151N-0030-SP	151T-0030-FB
	24.00	0.9449	–		151T-24-SP	151A-24-SP	151N-24-SP	151T-24-FB

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.



Coatings not listed above can be supplied as non-stocked standards.

TiN = 131T-XXXX	TiAlN = 131A-XXXX
TiCN = 131N-XXXX	AM200® = 131H-XXXX

Inserts sold in quantities of 2

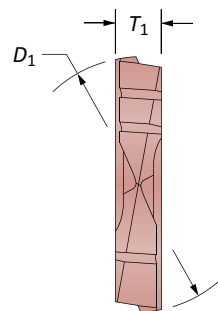
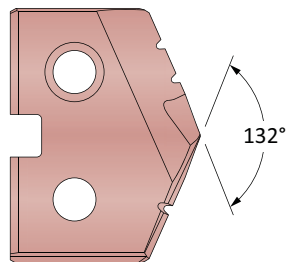


T-A® Original Drill Inserts

1 Series | HSS | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")

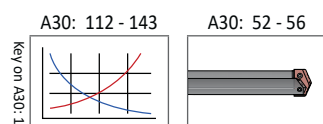


Tube Sheet



HSS Inserts – Super Cobalt | HSS

Series	Insert				Part No.	
	D_1 mm	D_1 inch	Fractional Equivalent	T_1 mm	 Super Cobalt	 HSS
1	19.25	0.7580	–	4.00	151H-.7580-IN	131H-.7580-IN
	19.45	0.7656	49/64		151H-.765-IN	131H-.765-IN
	19.85	0.7813	25/32		151H-0025-IN	131H-0025-IN



Coatings not listed above
can be supplied as
non-stocked standards.

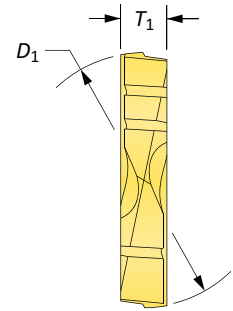
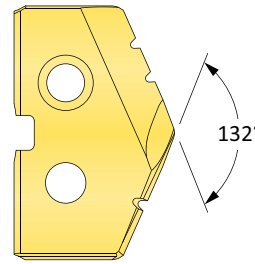


Inserts sold in quantities of 2

TiN = 131T-XXXX	TiAlN = 131A-XXXX
TiCN = 131N-XXXX	AM200® = 131H-XXXX

T-A® Original Drill Inserts

1 Series | HSS | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")

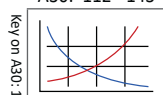


HSS Inserts – HSS

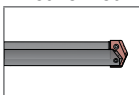
Series	Insert				Part No.		
	D_1 mm	D_1 inch	Fractional Equivalent	T_1 mm	 TiN	 TiAlN	 TiCN
1	17.86	0.7031	45/64	4.00	131T-.703	131A-.703	131N-.703
	18.00	0.7087	–		131T-18	131A-18	131N-18
	18.26	0.7188	23/32		131T-0023	131A-0023	131N-0023
	18.50	0.7283	–		131T-18.5	131A-18.5	131N-18.5
	18.65	0.7344	47/64		131T-.734	131A-.734	131N-.734
	19.00	0.7480	–		131T-19	131A-19	131N-19
	19.05	0.7500	3/4		131T-0024	131A-0024	131N-0024
	19.45	0.7656	49/64		131T-.765	131A-.765	131N-.765
	19.50	0.7677	–		131T-19.5	131A-19.5	131N-19.5
	19.84	0.7813	25/32		131T-0025	131A-0025	131N-0025
	20.00	0.7874	–		131T-20	131A-20	131N-20
	20.24	0.7969	51/64		131T-.796	131A-.796	131N-.796
	20.34	0.8010	–		131T-.801	131A-.801	131N-.801
	20.50	0.8071	–		131T-20.5	131A-20.5	131N-20.5
	20.64	0.8125	13/16		131T-0026	131A-0026	131N-0026
	21.00	0.8268	–		131T-21	131A-21	131N-21
	21.43	0.8438	27/32		131T-0027	131A-0027	131N-0027
	21.50	0.8465	–		131T-21.5	131A-21.5	131N-21.5
1.5	21.83	0.8594	55/64	4.00	131T-.859	131A-.859	131N-.859
	22.00	0.8661	–		131T-22	131A-22	131N-22
	22.23	0.8750	7/8		131T-0028	131A-0028	131N-0028
	22.50	0.8858	–		131T-22.5	131A-22.5	131N-22.5
	20.62	0.8906	57/64		131T-.890	131A-.890	131N-.890
	23.00	0.9055	–		131T-23	131A-23	131N-23
	23.02	0.9063	29/32		131T-0029	131A-0029	131N-0029
	23.42	0.9219	59/64		131T-.921	131A-.921	131N-.921
	23.50	0.9252	–		131T-23.5	131A-23.5	131N-23.5
	23.81	0.9375	15/16		131T-0030	131A-0030	131N-0030
	24.00	0.9449	–		131T-24	131A-24	131N-24

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

A30: 112 - 143



A30: 52 - 56



A30: 4 - 6



HI, HR, CR, TC, SK,
NP, IN, RN, CN, AN,
BR, CI, CP, NC, WC

Coatings not listed above
can be supplied as
non-stocked standards.



Inserts sold in quantities of 2

TiN = 131T-XXXX

TiAlN = 131A-XXXX

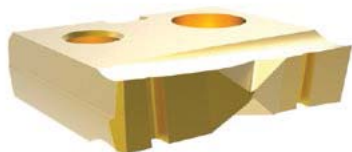
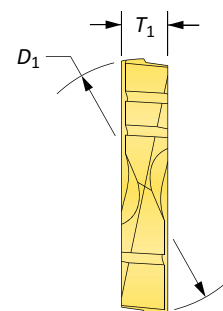
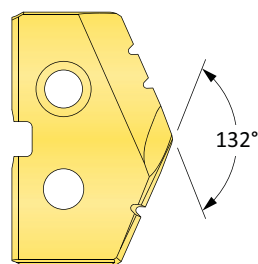
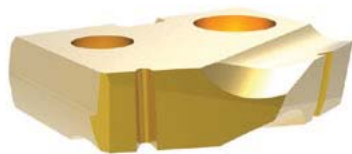
TiCN = 131N-XXXX

AM200® = 131H-XXXX

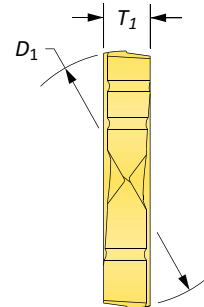
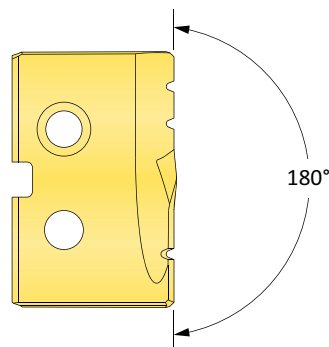


T-A® Original Drill Inserts

1 Series | Carbide | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")



Flat Bottom



Carbide Inserts – K20 (C2)

Series	Insert				Part No.		Flat Bottom Part No.
	D ₁ mm	D ₁ inch	Fractional Equivalent	T ₁ mm	 TiN	 TiAlN	 TiN
1	17.86	0.7031	45/64	4.00	1C21T-.703	1C21A-.703	1C21T-.703-FB
	18.00	0.7087	–		1C21T-18	1C21A-18	1C21T-18-FB
	18.26	0.7188	23/32		1C21T-0023	1C21A-0023	1C21T-0023-FB
	18.50	0.7283	–		1C21T-18.5	1C21A-18.5	1C21T-18.5-FB
	18.65	0.7344	47/64		1C21T-.734	1C21A-.734	1C21T-.734-FB
	19.00	0.7480	–		1C21T-19	1C21A-19	1C21T-19-FB
	19.05	0.7500	3/4		1C21T-0024	1C21A-0024	1C21T-0024-FB
	19.45	0.7656	49/64		1C21T-.765	1C21A-.765	1C21T-.765-FB
	19.50	0.7677	–		1C21T-19.5	1C21A-19.5	1C21T-19.5-FB
	19.84	0.7813	25/32		1C21T-0025	1C21A-0025	1C21T-0025-FB
	20.00	0.7874	–		1C21T-20	1C21A-20	1C21T-20-FB
	20.24	0.7969	51/64		1C21T-.796	1C21A-.796	1C21T-.796-FB
	20.34	0.8010	–		1C21T-.801	1C21A-.801	1C21T-.801-FB
	20.50	0.8071	–		1C21T-20.5	1C21A-20.5	1C21T-20.5-FB
	20.64	0.8125	13/16		1C21T-0026	1C21A-0026	1C21T-0026-FB
	21.00	0.8268	–		1C21T-21	1C21A-21	1C21T-21-FB
	21.43	0.8438	27/32		1C21T-0027	1C21A-0027	1C21T-0027-FB
	21.50	0.8465	–		1C21T-21.5	1C21A-21.5	1C21T-21.5-FB
1.5	21.83	0.8594	55/64	4.00	1C21T-.859	1C21A-.859	1C21T-.859-FB
	22.00	0.8661	–		1C21T-22	1C21A-22	1C21T-22-FB
	22.23	0.8750	7/8		1C21T-0028	1C21A-0028	1C21T-0028-FB
	22.50	0.8858	–		1C21T-22.5	1C21A-22.5	1C21T-22.5-FB
	20.62	0.8906	57/64		1C21T-.890	1C21A-.890	1C21T-.890-FB
	23.00	0.9055	–		1C21T-23	1C21A-23	1C21T-23-FB
	23.02	0.9063	29/32		1C21T-0029	1C21A-0029	1C21T-0029-FB
	23.42	0.9219	59/64		1C21T-.921	1C21A-.921	1C21T-.921-FB
	23.50	0.9252	–		1C21T-23.5	1C21A-23.5	1C21T-23.5-FB
	23.81	0.9375	15/16		1C21T-0030	1C21A-0030	1C21T-0030-FB
	24.00	0.9449	–		1C21T-24	1C21A-24	1C21T-24-FB

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

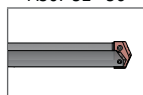
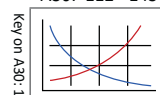
Inserts sold in quantities of 2

A30: 112 - 143

A30: 52 - 56

A30: 4 - 6

A30: 4 - 6



HI, HR, CR, TC, SK,
NP, IN, RN, CN, AN,
BR, CI, CP, NC, WC



FN

Coatings not listed above
can be supplied as
non-stocked standards.



TiN = 131T-XXXX

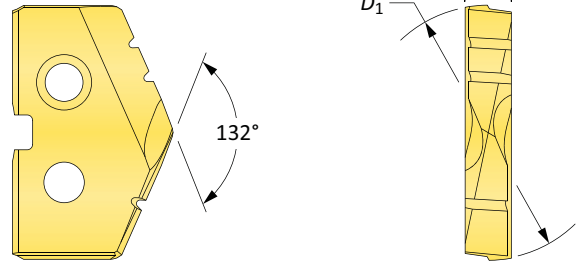
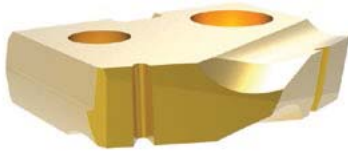
TiAlN = 131A-XXXX

TiCN = 131N-XXXX

AM200® = 131H-XXXX

T-A® Original Drill Inserts

1 Series | Carbide | Diameter Range: 17.53mm - 24.38mm (0.690" - 0.960")



Carbide Inserts – P40 (C5) | K10 (C3) | N2

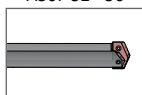
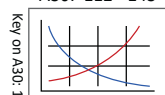
Series	Insert				C5 Part No.		C3 Part No.	N2 Part No.
	D ₁ mm	D ₁ inch	Fractional Equivalent	T ₁ mm	 TiN	 TiAlN	 TiAlN (Cast Iron)	 Diamond Film
1	17.86	0.7031	45/64	4.00	1C51T-.703	1C51A-.703	1C31A-.703-CI	1N21D-.703
	18.00	0.7087	–		1C51T-18	1C51A-18	1C31A-18-CI	1N21D-18
	18.26	0.7188	23/32		1C51T-0023	1C51A-0023	1C31A-0023-CI	1N21D-0023
	18.50	0.7283	–		1C51T-18.5	1C51A-18.5	1C31A-18.5-CI	1N21D-18.5
	18.65	0.7344	47/64		1C51T-.734	1C51A-.734	1C31A-.734-CI	1N21D-.734
	19.00	0.7480	–		1C51T-19	1C51A-19	1C31A-19-CI	1N21D-19
	19.05	0.7500	3/4		1C51T-0024	1C51A-0024	1C31A-0024-CI	1N21D-0024
	19.45	0.7656	49/64		1C51T-.765	1C51A-.765	1C31A-.765-CI	1N21D-.765
	19.50	0.7677	–		1C51T-19.5	1C51A-19.5	1C31A-19.5-CI	1N21D-19.5
	19.84	0.7813	25/32		1C51T-0025	1C51A-0025	1C31A-0025-CI	1N21D-0025
	20.00	0.7874	–		1C51T-20	1C51A-20	1C31A-20-CI	1N21D-20
	20.24	0.7969	51/64		1C51T-.796	1C51A-.796	1C31A-.796-CI	1N21D-.796
	20.34	0.8010	–		1C51T-.801	1C51A-.801	1C31A-.801-CI	1N21D-.801
	20.50	0.8071	–		1C51T-20.5	1C51A-20.5	1C31A-20.5-CI	1N21D-20.5
	20.64	0.8125	13/16		1C51T-0026	1C51A-0026	1C31A-0026-CI	1N21D-0026
	21.00	0.8268	–		1C51T-21	1C51A-21	1C31A-21-CI	1N21D-21
	21.43	0.8438	27/32		1C51T-0027	1C51A-0027	1C31A-0027-CI	1N21D-0027
	21.50	0.8465	–		1C51T-21.5	1C51A-21.5	1C31A-21.5-CI	1N21D-21.5
1.5	21.83	0.8594	55/64	4.00	1C51T-.859	1C51A-.859	1C31A-.859-CI	1N21D-.859
	22.00	0.8661	–		1C51T-22	1C51A-22	1C31A-22-CI	1N21D-22
	22.23	0.8750	7/8		1C51T-0028	1C51A-0028	1C31A-0028-CI	1N21D-0028
	22.50	0.8858	–		1C51T-22.5	1C51A-22.5	1C31A-22.5-CI	1N21D-22.5
	20.62	0.8906	57/64		1C51T-.890	1C51A-.890	1C31A-.890-CI	1N21D-.890
	23.00	0.9055	–		1C51T-23	1C51A-23	1C31A-23-CI	1N21D-23
	23.02	0.9063	29/32		1C51T-0029	1C51A-0029	1C31A-0029-CI	1N21D-0029
	23.42	0.9219	59/64		1C51T-.921	1C51A-.921	1C31A-.921-CI	1N21D-.921
	23.50	0.9252	–		1C51T-23.5	1C51A-23.5	1C31A-23.5-CI	1N21D-23.5
	23.81	0.9375	15/16		1C51T-0030	1C51A-0030	1C31A-0030-CI	1N21D-0030
	24.00	0.9449	–		1C51T-24	1C51A-24	1C31A-24-CI	1N21D-24

NOTE: 1.5 series inserts fit into both 1 and 1.5 series holders. However, 1 series inserts ONLY fit into 1 series holders. See page A30: 7 for visual.

A30: 112 - 143

A30: 52 - 56

A30: 4 - 6



HI, HR, CR, TC, SK,
NP, IN, RN, CN, AN,
BR, CI, CP, NC, WC

Coatings not listed above
can be supplied as
non-stocked standards.



Inserts sold in quantities of 2

TiN = 131T-XXXX

TiAlN = 131A-XXXX

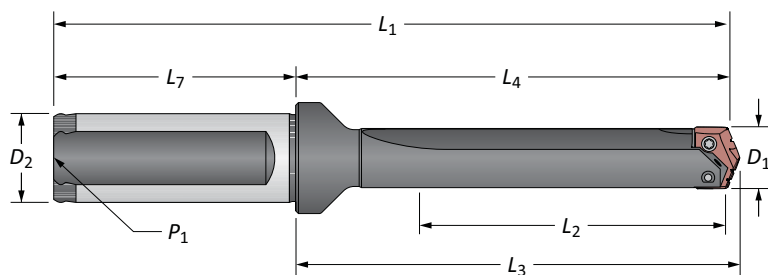
TiCN = 131N-XXXX

AM200® = 131H-XXXX

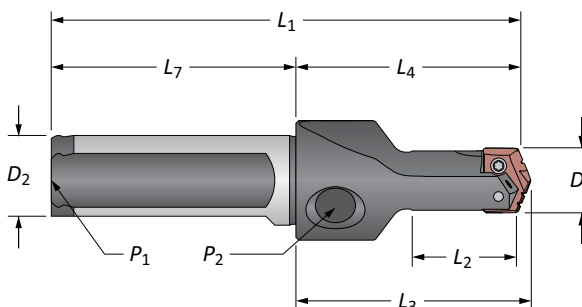


T-A® Drill Insert Holders

1 Series | Flanged Shank



Stub Length



Straight Flute

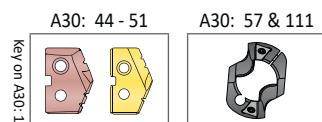
				Body				Shank			
Series		Length	D ₁	L ₂	L ₄	L ₃	L ₁	D ₂	L ₇	P ₁	Part No.
m	1	Stub	18.0 - 24.0	47.6	75.8	79.4	131.8	25.0	56.0	1/8*	21010S-25FM
		Short	18.0 - 24.0	66.7	107.2	110.7	163.2	25.0	56.0	1/8*	22010S-25FM
		XL	18.0 - 24.0	457.0	494.5	498.1	550.5	25.0	56.0	1/8*	27010S-25FM
		3XL	18.0 - 24.0	569.0	602.5	606.1	658.5	25.0	56.0	1/8*	29010S-25FM
	1.5	Stub	22.0 - 24.0	57.2	88.5	92.1	144.5	25.0	56.0	1/8*	21015S-25FM
		Short	22.0 - 24.0	66.7	107.2	110.7	163.2	25.0	56.0	1/8*	22015S-25FM
i	1	Stub	45/64 - 15/16	1-7/8	2-63/64	3-1/8	5-17/64	1	2-9/32	1/8	21010S-100F
		Short	45/64 - 15/16	2-5/8	4-7/32	4-23/64	6-1/2	1	2-9/32	1/8	22010S-100F
		Intermediate	45/64 - 15/16	4-5/8	6-3/32	6-15/64	8-3/8	1	2-9/32	1/8	23010S-100F
		Standard	45/64 - 15/16	6-5/8	8-3/32	8-15/64	10-3/8	1	2-9/32	1/8	24010S-100F
		Extended	45/64 - 15/16	10-5/8	12-3/32	12-15/64	14-3/8	1	2-9/32	1/8	25010S-100F
	1.5	Stub	55/64 - 15/16	2-1/4	3-31/64	3-5/8	5-49/64	1	2-9/32	1/8	21015S-100F
		Short	55/64 - 15/16	2-5/8	4-7/32	4-23/64	6-1/2	1	2-9/32	1/8	22015S-100F
		Intermediate	55/64 - 15/16	4-5/8	6-3/32	6-15/64	8-3/8	1	2-9/32	1/8	23015S-100F
		Standard	55/64 - 15/16	6-5/8	8-3/32	8-15/64	10-3/8	1	2-9/32	1/8	24015S-100F
		Extended	55/64 - 15/16	10-5/8	12-3/32	12-15/64	14-3/8	1	2-9/32	1/8	25015S-100F

*Metric thread to BSP and ISO 7-1

NOTE: Stub length holders have a 1/8" side pipe tap (P₂)

Connection Accessories

Series	Insert Screws	Nylon Locking Screws	Insert Driver	Preset Torque Hand Driver	Replacement Tips	Admissible Tightening Torque*
1	7375-IP9-1	7375N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)
1.5	739-IP9-1	739N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)

*Tightening torques are calculated with a friction coefficient of $\mu = 0.14$ and develop 90% of ultimate yield strength

m = Metric (mm)

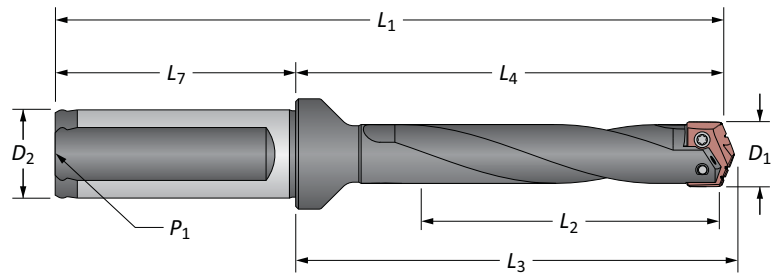
i = Imperial (in)

Screws sold in quantities of 10

WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A30: 150 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

T-A® Drill Insert Holders

1 Series | Flanged Shank



Helical Flute

Series		Length	D ₁	Body				Shank			Part No.
				L ₂	L ₄	L ₃	L ₁	D ₂	L ₇	P ₁	
m	1	Intermediate	18.0 - 24.0	117.5	154.8	158.4	210.8	25.0	56.0	1/8*	23010H-25FM
		Standard	18.0 - 24.0	168.3	205.6	209.2	261.6	25.0	56.0	1/8*	24010H-25FM
		Standard Plus	18.0 - 24.0	219.0	256.3	259.9	312.3	25.0	56.0	1/8*	⚠ 24510H-25FM
		Extended	18.0 - 24.0	269.9	307.2	310.8	363.2	25.0	56.0	1/8*	⚠ 25010H-25FM
		Long	18.0 - 24.0	365.0	402.3	405.9	458.3	25.0	56.0	1/8*	⚠ 26010H-25FM
	1.5	Intermediate	22.0 - 24.0	117.5	154.8	158.4	210.8	25.0	56.0	1/8*	23015H-25FM
		Standard	22.0 - 24.0	168.3	205.6	209.2	261.6	25.0	56.0	1/8*	24015H-25FM
Extended		22.0 - 24.0	269.9	307.2	310.8	363.2	25.0	56.0	1/8*	⚠ 25015H-25FM	
i	1	Intermediate	45/64 - 15/16	4-5/8	6-3/32	6-15/64	8-3/8	1	2-9/32	1/8	23010H-100F
		Standard	45/64 - 15/16	6-5/8	8-3/32	8-15/64	10-3/8	1	2-9/32	1/8	24010H-100F
		Standard Plus	45/64 - 15/16	8-5/8	10-3/32	10-15/64	12-33/64	1	2-9/32	1/8	⚠ 24510H-100F
		Extended	45/64 - 15/16	10-5/8	12-3/32	12-15/64	14-3/8	1	2-9/32	1/8	⚠ 25010H-100F
		Long	45/64 - 15/16	14-3/8	15-27/32	15-63/64	18-17/64	1	2-9/32	1/8	⚠ 26010H-100F
	1.5	Intermediate	55/64 - 15/16	4-5/8	6-3/32	6-15/64	8-3/8	1	2-9/32	1/8	23015H-100F
		Standard	55/64 - 15/16	6-5/8	8-3/32	8-15/64	10-3/8	1	2-9/32	1/8	24015H-100F
		Extended	55/64 - 15/16	10-5/8	12-3/32	12-15/64	14-3/8	1	2-9/32	1/8	⚠ 25015H-100F

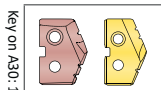
*Metric thread to BSP and ISO 7-1

Connection Accessories

Series	Insert Screws	Nylon Locking Screws	Insert Driver	Preset Torque Hand Driver	Replacement Tips	Admissible Tightening Torque*
1	7375-IP9-1	7375N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)
1.5	739-IP9-1	739N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)

*Tightening torques are calculated with a friction coefficient of $\mu = 0.14$ and develop 90% of ultimate yield strength

A30: 44 - 51



m = Metric (mm)

i = Imperial (in)

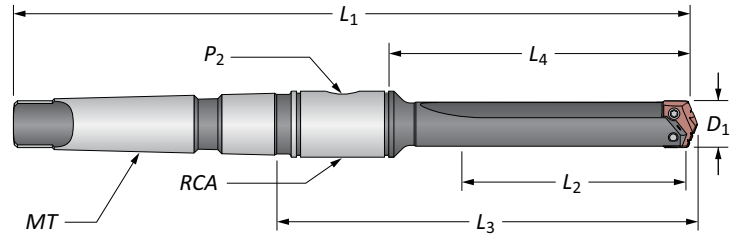
Screws sold in quantities of 10

WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A30: 150 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.



T-A® Drill Insert Holders

1 Series | Taper Shank



Straight Flute

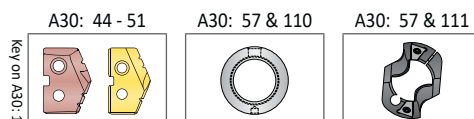
Series		Length	D_1	Body				Shank			Part No.
				L_2	L_4	L_3	L_1	MT	P_2	RCA	
m	1	Short	18.0 - 24.0	69.8	98.4	142.5	232.5	#3**	1/8*	2T-3SRM	22010S-003M
	1.5	Short	22.0 - 24.0	69.8	98.4	142.5	232.5	#3**	1/8*	2T-3SRM	22015S-003M
i	1	Short	45/64 - 15/16	2-3/4	3-7/8	5-39/64	9-5/32	#3	1/8	2T-3SR	22010S-003I
		Short	45/64 - 15/16	2-3/4	3-7/8	5-39/64	10-5/32	#4	1/8	2T-3SR	22010S-004I
		Intermediate	45/64 - 15/16	4-3/4	5-7/8	7-39/64	11-5/32	#3	1/8	2T-3SR	23010S-003I
		Standard	45/64 - 15/16	6-3/4	7-7/8	9-39/64	13-5/32	#3	1/8	2T-3SR	24010S-003I
		Standard	45/64 - 15/16	6-3/4	7-7/8	9-39/64	14-5/32	#4	1/8	2T-3SR	24010S-004I
		Extended	45/64 - 15/16	10-3/4	11-7/8	13-39/64	17-5/32	#3	1/8	2T-3SR	25010S-003I
	1.5	Short	55/64 - 15/16	2-3/4	3-7/8	5-39/64	9-5/32	#3	1/8	2T-3SR	22015S-003I
		Short	55/64 - 15/16	2-3/4	3-7/8	5-39/64	10-5/32	#4	1/8	2T-3SR	22015S-004I
		Intermediate	55/64 - 15/16	4-3/4	5-7/8	7-39/64	11-5/32	#3	1/8	2T-3SR	23015S-003I
		Standard	55/64 - 15/16	6-3/4	7-7/8	9-39/64	13-5/32	#3	1/8	2T-3SR	24015S-003I
		Standard	55/64 - 15/16	6-3/4	7-7/8	9-39/64	14-5/32	#4	1/8	2T-3SR	24015S-004I
		Extended	55/64 - 15/16	10-3/4	11-7/8	13-39/64	17-5/32	#3	1/8	2T-3SR	25015S-003I

*Metric thread to BSP and ISO 7-1

**Per ISO 296 type BEK

Connection Accessories

Series	Insert Screws	Nylon Locking Screws	Insert Driver	Preset Torque Hand Driver	Replacement Tips	Admissible Tightening Torque*
1	7375-IP9-1	7375N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)
1.5	739-IP9-1	739N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)

*Tightening torques are calculated with a friction coefficient of $\mu = 0.14$ and develop 90% of ultimate yield strength

m = Metric (mm)

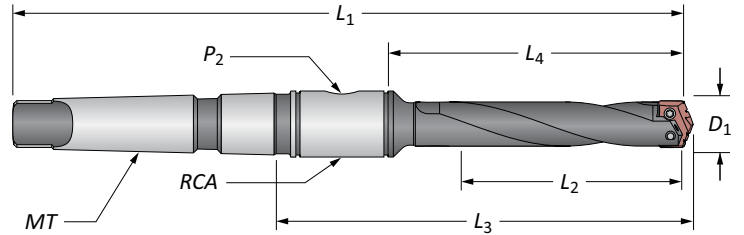
i = Imperial (in)

Screws sold in quantities of 10

WARNING Refer to Speed and Feed charts for recommended adjustments to speeds and feeds. Refer to page A30: 150 for deep hole drilling guidelines in this section of the catalog. Visit www.alliedmachine.com for the most up-to-date information and procedures. Factory technical assistance is available for your specific applications through our Application Engineering Team.

T-A® Drill Insert Holders

1 Series | Taper Shank



Helical Flute

Series		Length	D ₁	Body				Shank			Part No.
				L ₂	L ₄	L ₃	L ₁	MT	P ₂	RCA	
m	1	Intermediate	18.0 - 24.0	120.7	149.2	193.3	283.3	#3**	1/8*	2T-3SRM	23010H-003M
		Standard	18.0 - 24.0	171.5	200.0	244.1	334.2	#3**	1/8*	2T-3SRM	24010H-003M
		Extended	18.0 - 24.0	273.1	301.6	345.7	435.8	#3**	1/8*	2T-3SRM	⚠ 25010H-003M
	1.5	Intermediate	22.0 - 24.0	120.7	149.2	193.3	283.3	#3**	1/8*	2T-3SRM	23015H-003M
		Standard	22.0 - 24.0	171.5	200.0	244.1	334.2	#3**	1/8*	2T-3SRM	24015H-003M
		Extended	22.0 - 24.0	273.1	301.6	345.7	435.8	#3**	1/8*	2T-3SRM	⚠ 25015H-003M
i	1	Intermediate	45/64 - 15/16	4-3/4	5-7/8	7-39/64	11-5/32	#3	1/8	2T-3SR	23010H-003I
		Standard	45/64 - 15/16	6-3/4	7-7/8	9-39/64	13-5/32	#3	1/8	2T-3SR	24010H-003I
		Standard	45/64 - 15/16	6-3/4	7-7/8	9-43/64	14-5/32	#4	1/8	2T-3SR	24010H-004I
		Extended	45/64 - 15/16	10-3/4	11-7/8	13-39/64	17-5/32	#3	1/8	2T-3SR	⚠ 25010H-003I
	1.5	Intermediate	55/64 - 15/16	4-3/4	5-7/8	7-39/64	11-5/32	#3	1/8	2T-3SR	23015H-003I
		Standard	55/64 - 15/16	6-3/4	7-7/8	9-39/64	13-5/32	#3	1/8	2T-3SR	24015H-003I
		Standard	55/64 - 15/16	6-3/4	7-7/8	9-43/64	14-5/32	#4	1/8	2T-3SR	24015H-004I
		Extended	55/64 - 15/16	10-3/4	11-7/8	13-39/64	17-5/32	#3	1/8	2T-3SR	⚠ 25015H-003I

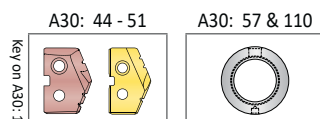
*Metric thread to BSP and ISO 7-1

**Per ISO 296 type BEK

Connection Accessories

Series	Insert Screws	Nylon Locking Screws	Insert Driver	Preset Torque Hand Driver	Replacement Tips	Admissible Tightening Torque*
1	7375-IP9-1	7375N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)
1.5	739-IP9-1	739N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)

*Tightening torques are calculated with a friction coefficient of $\mu = 0.14$ and develop 90% of ultimate yield strength



m = Metric (mm)

i = Imperial (in)

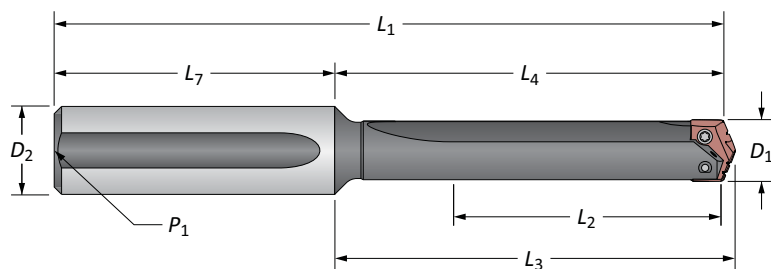
Screws sold in quantities of 10

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T-A® Drill Insert Holders

1 Series | Straight Shank | ER Collet

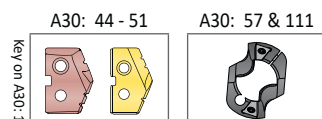


Straight Flute

Series	Length	D ₁	Body				Shank			Part No.
			L ₂	L ₄	L ₃	L ₁	D ₂	L ₇	P ₁	
1	Short	45/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	3/4	3	1/8	22010S-075L
	Short	45/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	1	3	1/8	22010S-100L
	Intermediate	45/64 - 15/16	4-5/8	5-7/8	6-1/64	8-7/8	1	3	1/8	23010S-100L
	Standard	45/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	3/4	3	1/8	24010S-075L
	Standard	45/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	1	3	1/8	24010S-100L
	Extended	45/64 - 15/16	10-5/8	11-7/8	12-1/64	14-7/8	1	3	1/8	⚠ 25010S-100L
	XL	45/64 - 15/16	18	19-1/4	19-25/64	22-1/4	1	3	1/8	⚠ 27010S-100L
1.5	3XL	45/64 - 15/16	22-1/4	23-1/2	23-41/64	26-1/2	1	3	1/8	⚠ 29010S-100L
	Short	55/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	3/4	3	1/8*	22015S-075L
	Short	55/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	1	3	1/8*	22015S-100L
	Intermediate	55/64 - 15/16	4-5/8	5-7/8	6-1/64	8-7/8	1	3	1/8*	23015S-100L
	Standard	55/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	3/4	3	1/8*	24015S-075L
	Standard	55/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	1	3	1/8*	24015S-100L
	Extended	55/64 - 15/16	10-5/8	11-7/8	12-1/64	14-7/8	1	3	1/8*	⚠ 25015S-100L

Connection Accessories

Series	Insert Screws	Nylon Locking Screws	Insert Driver	Preset Torque Hand Driver	Replacement Tips	Admissible Tightening Torque*
1	7375-IP9-1	7375N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)
1.5	739-IP9-1	739N-IP9-1	8IP-9	8IP-9TL	8IP-9B	305 N-cm (27.0 in-lbs)

*Tightening torques are calculated with a friction coefficient of $\mu = 0.14$ and develop 90% of ultimate yield strength

M = Metric (mm)

I = Imperial (in)

Screws sold in quantities of 10

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