

Onyx Tap CNC Style — Spiral Point Plug Taps

Taraud à entrée hélicoïdale

Machuelo con punta en espiral



- Manufactured To Table 302A Standards
- High Speed Steel
- Oxide/Nitride Surface Treatment

For general purpose tapping in a wide variety of materials up to 28Rc hardness.

Primarily designed for tapping through holes. The spiral point forces the chips ahead of the tap.

CNC Reduced Neck Design

List No. 2101 – Fractional & Machine Screw

List No. 2101M – Metric

Steam Oxide over Nitride increases wear resistance, reduces friction, acts as a lubricant, reduces galling and chip welding, improves chip flow and increases tap lubricant retention.

Reduce Neck Design and Shorter Thread Length for increased coolant flow to the cutting edge, enhanced chip evacuation and reduced contact between tap and workpiece.

List No. 2101 – Fractional & Machine Screw

SIZE	THREAD TYPE	PITCH DIA. LIMIT	NO. OF FLUTES	THREAD LENGTH	NECK LENGTH	OAL	EDP NO.
4-40	NC	H2	2	.313	.250	1-7/8	34700
6-32	NC	H3	2	.375	.313	2	34701
8-32	NC	H3	2	.375	.375	2-1/8	34702
8-32	NC	H3	3	.375	.375	2-1/8	34703
10-24	NC	H3	2	.500	.375	2-3/8	34704
10-24	NC	H3	3	.500	.375	2-3/8	34705
10-32	NF	H3	2	.500	.375	2-3/8	34706
10-32	NF	H3	3	.500	.375	2-3/8	34707
12-24	NC	H3	3	.500	.375	2-3/8	34708
12-28	NF	H3	3	.500	.375	2-3/8	34709
1/4-20	NC	H3	2	.625	.375	2-1/2	34710
1/4-20	NC	H3	3	.625	.375	2-1/2	34711
1/4-28	NF	H3	2	.625	.375	2-1/2	34712
1/4-28	NF	H3	3	.625	.375	2-1/2	34713
5/16-18	NC	H3	3	.688	.438	2-23/32	34714
5/16-24	NF	H3	3	.688	.438	2-23/32	34715
3/8-16	NC	H3	3	.750	.500	2-15/16	34716
3/8-24	NF	H3	3	.750	.500	2-15/16	34717
7/16-14	NC	H3	3	.875	.563	3-5/32	34718
7/16-20	NF	H3	3	.875	.563	3-5/32	34719
1/2-13	NC	H3	3	.938	.719	3-3/8	34720
1/2-20	NF	H3	3	.938	.719	3-3/8	34721
9/16-12	NC	H3	4	1.000	.673	3-19/32	34722
9/16-18	NF	H3	4	1.000	.673	3-19/32	34723
5/8-11	NC	H3	4	1.125	.673	3-13/16	34724
5/8-18	NF	H3	4	1.125	.673	3-13/16	34725
3/4-10	NC	H3	4	1.219	.766	4-1/4	34726
3/4-16	NF	H3	4	1.219	.766	4-1/4	34727
7/8-9	NC	H4	4	1.344	.875	4-11/16	34728
7/8-14	NF	H4	4	1.344	.875	4-11/16	34729
1-8	NC	H4	4	1.500	1.000	5-1/8	34730
1-12	NF	H4	4	1.500	1.000	5-1/8	34731
1-1/8-7	NC	H4	4	1.719	.843	5-7/16	34732
1-1/8-12	NF	H4	4	1.719	.843	5-7/16	34733
1-1/4-7	NC	H4	4	1.719	.843	5-3/4	34734
1-1/4-12	NF	H4	4	1.719	.843	5-3/4	34735
1-3/8-6	NC	H4	4	2.000	1.000	6-1/16	34736
1-3/8-12	NF	H4	4	2.000	1.000	6-1/16	34737
1-1/2-6	NC	H4	6	2.000	1.000	6-3/8	34738
1-1/2-12	NF	H4	6	2.000	1.000	6-3/8	34739

List No. 2101M – Metric

SIZE	PITCH	PITCH DIA. LIMIT	NO. OF FLUTES	THREAD LENGTH	NECK LENGTH	OAL	EDP NO.
M2	0.4	D3	2	.313	.313	1-15/16	34800
M2.5	0.45	D3	2	.313	.313	1-15/16	34801
M3	0.5	D3	2	.313	.313	1-15/16	34802
M3.5	0.6	D4	2	.375	.313	2	34803
M4	0.7	D4	3	.375	.375	2-1/8	34804
M5	0.8	D4	3	.500	.375	2-3/8	34805
M6	1	D5	3	.625	.375	2-1/2	34806
M7	1	D5	3	.688	.438	2-23/32	34807
M8	1	D5	3	.688	.438	2-23/32	34808
M8	1.25	D5	3	.688	.438	2-23/32	34809
M10	1.25	D5	3	.750	.500	2-15/16	34810
M10	1.5	D6	3	.750	.500	2-15/16	34811
M12	1.25	D5	3	.938	.719	3-3/8	34812
M12	1.75	D6	3	.938	.719	3-3/8	34813
M14	1.5	D6	4	1.000	.673	3-19/32	34814
M14	2	D7	4	1.000	.673	3-19/32	34815
M16	1.5	D6	4	1.125	.673	3-13/16	34816
M16	2	D7	4	1.125	.673	3-13/16	34817
M18	1.5	D6	4	1.125	.719	4-1/32	34818
M18	2.5	D7	4	1.125	.719	4-1/32	34819
M20	1.5	D6	4	1.188	.812	4-15/32	34820
M20	2.5	D7	4	1.188	.812	4-15/32	34821
M22	1.5	D6	4	1.188	1.031	4-11/16	34822
M22	2.5	D7	4	1.188	1.031	4-11/16	34823
M24	1.5	D7	4	1.422	.797	4-29/32	34824
M24	3	D8	4	1.422	.797	4-29/32	34825

Onyx Tap

CNC Style — Spiral Flute Semi-Bottoming Taps

- Manufactured To Table 302A Standards
- High Speed Steel
- Oxide/Nitride Surface Treatment

For general purpose tapping in a wide variety of materials up to 28Rc hardness.

Primarily designed for tapping blind holes. The spiral flutes draw the chips out of the hole.

CNC Reduced Neck Design

Taraud à gorges hélicoïdales
Machuelo de roscar con gavilanes en espiral



List No. 2102 – Fractional & Machine Screw

List No. 2102M – Metric

Steam Oxide over Nitride increases wear resistance, reduces friction, acts as a lubricant, reduces galling and chip welding, improves chip flow and increases tap lubricant retention.

Reduce Neck Design and Shorter Thread Length for increased coolant flow to the cutting edge, enhanced chip evacuation and reduced contact between tap and workpiece.

List No. 2102 – Fractional & Machine Screw

SIZE	THREAD TYPE	PITCH DIA. LIMIT	NO. OF FLUTES	THREAD LENGTH	NECK LENGTH	OAL	EDP NO.
4-40	NC	H2	3	.236	.327	1-7/8	34750
6-32	NC	H3	3	.236	.452	2	34751
8-32	NC	H3	3	.236	.514	2-1/8	34752
10-24	NC	H3	3	.354	.521	2-3/8	34753
10-32	NF	H3	3	.354	.521	2-3/8	34754
12-24	NC	H3	3	.354	.521	2-3/8	34755
12-28	NF	H3	3	.354	.521	2-3/8	34756
1/4-20	NC	H3	3	.433	.567	2-1/2	34757
1/4-28	NF	H3	3	.433	.567	2-1/2	34758
5/16-18	NC	H3	3	.472	.653	2-23/32	34759
5/16-24	NF	H3	3	.472	.653	2-23/32	34760
3/8-16	NC	H3	3	.551	.699	2-15/16	34761
3/8-24	NF	H3	3	.551	.699	2-15/16	34762
7/16-14	NC	H3	3	.591	.847	3-5/32	34763
7/16-20	NF	H3	3	.591	.847	3-5/32	34764
1/2-13	NC	H3	3	.630	1.026	3-3/8	34765
1/2-20	NF	H3	3	.630	1.026	3-3/8	34766
9/16-12	NC	H3	3	.690	.983	3-19/32	34767
9/16-18	NF	H3	3	.690	.983	3-19/32	34768
5/8-11	NC	H3	3	.745	1.052	3-13/16	34769
5/8-18	NF	H3	3	.745	1.052	3-13/16	34770
3/4-10	NC	H3	4	.820	1.165	4-1/4	34771
3/4-16	NF	H3	4	.820	1.165	4-1/4	34772
7/8-9	NC	H4	4	.911	1.308	4-11/16	34773
7/8-14	NF	H4	4	.911	1.308	4-11/16	34774
1-8	NC	H4	4	1.025	1.475	5-1/8	34775
1-12	NF	H4	4	1.025	1.475	5-1/8	34776
1-1/8-7	NC	H4	4	1.143	1.419	5-7/16	34777
1-1/8-12	NF	H4	4	1.143	1.419	5-7/16	34778
1-1/4-7	NC	H4	4	1.143	1.419	5-3/4	34779
1-1/4-12	NF	H4	4	1.143	1.419	5-3/4	34780
1-3/8-6	NC	H4	4	1.333	1.667	6-1/16	34781
1-3/8-12	NF	H4	4	1.333	1.667	6-1/16	34782
1-1/2-6	NC	H4	4	1.333	1.667	6-3/8	34783
1-1/2-12	NF	H4	4	1.333	1.667	6-3/8	34784

List No. 2102M – Metric

SIZE	PITCH	PITCH DIA. LIMIT	NO. OF FLUTES	THREAD LENGTH	NECK LENGTH	OAL	EDP NO.
M3	0.5	D3	3	.236	.389	1-15/16	34840
M3.5	0.6	D4	3	.236	.452	2	34841
M4	0.7	D4	3	.236	.514	2-1/8	34842
M5	0.8	D4	3	.354	.521	2-3/8	34843
M6	1	D5	3	.433	.567	2-1/2	34844
M7	1	D5	3	.472	.653	2-23/32	34845
M8	1	D5	3	.472	.653	2-23/32	34846
M8	1.25	D5	3	.472	.653	2-23/32	34847
M10	1.25	D5	3	.551	.699	2-15/16	34848
M10	1.5	D6	3	.551	.699	2-15/16	34849
M12	1.25	D5	3	.630	1.026	3-3/8	34850
M12	1.75	D6	3	.630	1.026	3-3/8	34851
M14	1.5	D6	3	.690	.983	3-19/32	34852
M14	2	D7	3	.690	.983	3-19/32	34853
M16	1.5	D6	3	.745	1.052	3-13/16	34854
M16	2	D7	3	.745	1.052	3-13/16	34855
M18	1.5	D6	4	.813	.983	4-1/32	34856
M18	2.5	D7	4	.813	.983	4-1/32	34857
M20	1.5	D6	4	.790	1.210	4-15/32	34858
M20	2.5	D7	4	.790	1.210	4-15/32	34859
M22	1.5	D6	4	.790	1.428	4-11/16	34860
M22	2.5	D7	4	.790	1.428	4-11/16	34861
M24	1.5	D7	4	.940	1.279	4-29/32	34862
M24	3	D8	4	.940	1.279	4-29/32	34863