

## YG COMBO TAPS

Fractional, Machine Screw & Metric Sizes

- TiCN Coated
- Reduces tap breakage, ensures accurate thread depth
- Eliminates loose threads due to tap overfeeding
- Improves thread quality & chip evacuation
- Allows tapping of many metals including stainless steel & steels
- Eliminates "bird nests" around tap shank

### One Tap Does It All!

- Steel
- Stainless Steel
- Cast Iron
- Copper
- Aluminum



SPIRAL POINT



SPIRAL FLUTE



LATHE CHUCKS  
LIVE CENTERS

VICE JAWS  
VICE ACCESSORIES

STRAIGHT SHANK  
COLLET HOLDERS

TAP HOLDERS  
DRILL CHUCKS

CARBIDE INSERTS  
THREADING/GROOVING

CUTTING TOOLS  
MACHINERY

PRECISION TOOLS  
DEBURRING

COOLANT/FLUIDS  
TOOL STORAGE

Size	OAL	Shan k	Thrd Limits	TiCN COATED		Price Each
				SPIRAL FLUTE	SPIRAL POINT	

### FRACTIONAL SIZES

1/4-20	2.50	.255	H3	YG-TC1/4-20SFH3	YG-TC1/4-20SPH3	\$11.45
1/4-20	2.50	.255	H5	YG-TC1/4-20SFH5	YG-TC1/4-20SPH5	\$12.77
1/4-28	2.50	.255	H3	YG-TC1/4-28SFH3	YG-TC1/4-28SPH3	\$11.45
1/4-28	2.50	.255	H4	YG-TC1/4-28SFH4	YG-TC1/4-28SPH4	\$11.45
5/16-18	2.72	.318	H3	YG-TC5/16-18SF3	YG-TC5/16-18SP3	\$13.07
5/16-18	2.72	.318	H5	YG-TC5/16-18SF5	YG-TC5/16-18SP5	\$13.07
5/16-24	2.72	.318	H3	YG-TC5/16-24SF3	YG-TC5/16-24SP3	\$13.07
5/16-24	2.72	.318	H5	YG-TC5/16-24SF5	YG-TC5/16-24SP5	\$13.07
3/8-16	2.94	.381	H3	YG-TC3/8-16SFH3	YG-TC3/8-16SPH3	\$14.40
3/8-16	2.94	.381	H5	YG-TC3/8-16SFH5	YG-TC3/8-16SPH5	\$14.40
3/8-24	2.94	.381	H3	YG-TC3/8-24SFH3	YG-TC3/8-24SPH3	\$14.40
3/8-24	2.94	.381	H4	YG-TC3/8-24SFH4	YG-TC3/8-24SPH4	\$14.40
7/16-14	3.16	.323	H3	YG-TC7/16-14SF3	YG-TC7/16-14SP3	\$19.02
7/16-14	3.16	.323	H5	YG-TC7/16-14SF5	YG-TC7/16-14SP5	\$19.02
7/16-20	3.16	.323	H3	YG-TC7/16-20SF3	YG-TC7/16-20SP3	\$19.02
7/16-20	3.16	.323	H5	YG-TC7/16-20SF5	YG-TC7/16-20SP5	\$19.02
1/2-13	3.38	.367	H5	YG-TC1/2-13SFC	YG-TC1/2-13SPC	\$22.31
1/2-20	3.38	.367	H5	YG-TC1/2-20SFC	YG-TC1/2-20SPC	\$22.31
9/16-12	3.59	.429	H5	YG-TC9/16-12SFC	YG-TC9/16-12SPC	\$32.61
9/16-18	3.59	.429	H5	YG-TC9/16-18SFC	YG-TC9/16-18SPC	\$32.61
5/8-11	3.81	.480	H5	YG-TC5/8-11SFC	YG-TC5/8-11SPC	\$37.78
5/8-18	3.81	.480	H5	YG-TC5/8-18SFC	YG-TC5/8-18SPC	\$37.78
3/4-10	4.25	.590	H5	YG-TC3/4-10SFC	YG-TC3/4-10SPC	\$55.23
3/4-16	4.25	.590	H5	YG-TC3/4-16SFC	YG-TC3/4-16SPC	\$55.23
7/8-14	4.69	.697	H5	YG-TC7/8-14SFC	YG-TC7/8-14SPC	\$71.00
7/8-9	4.69	.697	H5	YG-TC7/8-9SFC	YG-TC7/8-9SPC	\$71.00
1-8	5.13	.800	H5	YG-TC1-8SFC	YG-TC1-8SPC	\$95.89
1-12	5.13	.800	H5	YG-TC1-12SFC	YG-TC1-12SPC	\$95.89

### MACHINE SCREW SIZES

4-40	1.88	.141	H2	YG-TC4-40SFC	YG-TC4-40SPC	\$12.04
4-48	1.88	.141	H2	YG-TC4-48SFC	YG-TC4-48SPC	\$12.04
5-40	1.94	.141	H2	YG-TC5-40SFC	YG-TC5-40SPC	\$12.04
5-44	1.94	.141	H2	YG-TC5-44SFC	YG-TC5-44SPC	\$12.04
6-32	2.00	.141	H3	YG-TC6-32SFC	YG-TC6-32SPC	\$10.38
6-40	2.00	.141	H2	YG-TC6-40SFC	YG-TC6-40SPC	\$10.38
8-32	2.13	.168	H3	YG-TC8-32SFC	YG-TC8-32SPC	\$10.38
8-36	2.13	.168	H2	YG-TC8-36SFC	YG-TC8-36SPC	\$10.38
10-24	2.38	.194	H3	YG-TC10-24SFC	YG-TC10-24SPC	\$10.57
10-32	2.38	.194	H3	YG-TC10-32SFC	YG-TC10-32SPC	\$10.57
12-24	2.38	.220	H3	YG-TC12-24SFC	YG-TC12-24SPC	\$10.57
12-28	2.38	.220	H3	YG-TC12-28SFC	YG-TC12-28SPC	\$10.57

Size	OAL	Shan k	Thrd Limits	TiCN COATED		Price Each
				SPIRAL FLUTE	SPIRAL POINT	

### METRIC SIZES

M3 X 0.5	1.94	.141	D3	YG-TCM3X0.5SFC	YG-TCM3X0.5SPC	\$12.89
M3.5 X 0.6	2.00	.141	D4	YG-TCM3.50.6SFC	YG-TCM3.50.6SPC	\$11.15
M4 X 0.7	2.13	.168	D4	YG-TCM4X0.7SFC	YG-TCM4X0.7SPC	\$11.15
M5 X 0.8	2.38	.194	D4	YG-TCM5X0.8SFC	YG-TCM5X0.8SPC	\$11.34
M6 X 1.0	2.50	.255	D5	YG-TCM6X1.0SFC	YG-TCM6X1.0SPC	\$12.23
M7 X 1.0	2.72	.318	D5	YG-TCM7X1.0SFC	YG-TCM7X1.0SPC	\$13.89
M8 X 1.0	2.72	.318	D5	YG-TCM8X1.0SFC	YG-TCM8X1.0SPC	\$13.89
M8 X 1.25	2.72	.318	D5	YG-TCM8X1.25SFC	YG-TCM8X1.25SPC	\$13.89
M10 X 1.25	2.94	.381	D5	YG-TCM101.25SFC	YG-TCM101.25SPC	\$15.14
M10 X 1.5	2.94	.381	D6	YG-TCM10X1.5SFC	YG-TCM10X1.5SPC	\$15.14
M12 X 1.25	3.38	.367	D5	YG-TCM121.25SFC	YG-TCM121.25SPC	\$23.45
M12 X 1.75	3.38	.367	D6	YG-TCM121.75SFC	YG-TCM121.75SPC	\$23.45
M14 X 1.5	3.59	.429	D6	YG-TCM14X1.5SFC	YG-TCM14X1.5SPC	\$39.62
M14 X 2.0	3.59	.429	D7	YG-TCM14X2.0SFC	YG-TCM14X2.0SPC	\$39.62
M16 X 1.5	3.84	.480	D6	YG-TCM16X1.5SFC	YG-TCM16X1.5SPC	\$41.25
M16 X 2.0	3.81	.480	D7	YG-TCM16X2.0SFC	YG-TCM16X2.0SPC	\$41.25
M18 X 1.5	4.03	.542	D6	YG-TCM18X1.5SFC	YG-TCM18X1.5SPC	\$57.52
M18 X 2.5	4.03	.542	D7	YG-TCM18X2.5SFC	YG-TCM18X2.5SPC	\$57.52
M20 X 1.5	4.47	.652	D6	-	YG-TCM20X1.5SPC	\$61.79
M20 X 2.5	4.47	.652	D7	-	YG-TCM20X2.5SPC	\$61.79
M22 X 1.5	4.69	.697	D6	-	YG-TCM22X1.5SPC	\$78.85
M22 X 2.5	4.69	.697	D7	-	YG-TCM22X2.5SPC	\$78.85
M24 X 3.0	4.91	.760	D8	-	YG-TCM24X3.0SPC	\$105.44

## TAP ADAPTERS/TAP COLLETS

- Interchangeable with industry standard tapping systems.
- Quick change feature saves you time
- **Torque Controlled** tap adapters are ideal for blind hole tapping to protect your taps and workpieces from tap breakage.
- **Positive Drive** adapters are best suited for through hole tapping applications.
- Quantity discounts!



See Page 228 For Our Complete Selection!



Call Us Or Visit Our Website For Our Complete Selection!

# HIGH PERFORMANCE TAPS

## SOWA HIGH PERFORMANCE TAPS



Sowa High Performance Taps help you take the guesswork out of tap selection. Taps are color-coded to ensure the proper selection for your application.

**Blue Ring:** For general ductile materials including aluminum, low and medium carbon steels, brass, copper and cast iron

**Yellow Ring:** For tough materials including stainless steel, medium grade and alloyed high carbon steel, aluminum and titanium

**Orange Ring:** Superior geometry and design for Stainless Steels

**Red Ring:** Powdered metal ideal for nickel alloys, tool steels, stainless steels and titanium



## HSSE-V3 TAPS SPIRAL POINT & SPIRAL FLUTE Machine Screw and Fractional Sizes Blue Ring

Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry for long tool life.

### Applications and Features:

- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065
- Up to 25 HRC
- Metric Sizes Also Available



Spiral Point



Spiral Flute

### Cutting Conditions

Materials Group	Sub-Group	Condition	Hardness (HRC)	Cutting Speed (FPM)
Low carbon	1018, 1010, 1035	Normalized	<25	20-50
Medium carbon	1045, 1050, 1065	Normalized	<25	20-40
Aluminum	Unalloyed, cast	-	-	30-80
Brass/	-	-	-	30-80
Copper	-	-	-	25-60
Cast iron	-	As cast	<15	20-40

### SPIRAL POINT      SPIRAL FLUTE

Tap	TPI	Thread Limits	OAL	Thread Len.	No. of Flutes	Part Number	Price Each	No. Of Flutes	Part Number	Price Each
<b>NC</b>										
4	40	H2	1-7/8	.433	2	SOWA-119-700	\$9.84	2	SOWA-119-800	\$11.60
6	32	H3	2	.512	3	SOWA-119-701	\$8.00	3	SOWA-119-801	\$11.60
8	32	H3	2-1/8	.512	3	SOWA-119-702	\$8.32	3	SOWA-119-802	\$11.52
10	24	H3	2-3/8	.512	2	SOWA-119-703	\$8.32	-	-	-
10	24	H3	2-3/8	.512	3	SOWA-119-704	\$8.32	3	SOWA-119-803	\$11.52
12	24	H3	2-3/8	.512	3	SOWA-119-705	\$9.28	-	-	-
1/4	20	H3	2-1/2	.630	2	SOWA-119-706	\$9.28	-	-	-
1/4	20	H3	2-1/2	.630	3	SOWA-119-707	\$9.28	3	SOWA-119-804	\$12.32
5/16	18	H3	2-23/32	.748	2	SOWA-119-708	\$11.12	-	-	-
5/16	18	H3	2-23/32	.748	3	SOWA-119-709	\$11.12	3	SOWA-119-805	\$16.16
3/8	16	H3	2-15/16	.748	2	SOWA-119-710	\$12.80	-	-	-
3/8	16	H3	2-15/16	.748	3	SOWA-119-711	\$12.80	3	SOWA-119-806	\$17.76
7/16	14	H3	3-5/32	.866	3	SOWA-119-712	\$16.80	3	SOWA-119-807	\$26.56
1/2	13	H3	3-3/8	.945	3	SOWA-119-713	\$18.56	3	SOWA-119-808	\$30.40
5/8	11	H3	3-13/16	1.102	3	SOWA-119-714	\$29.04	4	SOWA-119-809	\$46.00
3/4	10	H3	4-1/4	1.220	3	SOWA-119-715	\$48.40	4	SOWA-119-810	\$65.04
7/8	9	H4	4-11/16	1.339	3	SOWA-119-716	\$64.40	4	SOWA-119-811	\$94.08
1	8	H4	5-1/8	1.496	3	SOWA-119-717	\$86.40	4	SOWA-119-812	\$125.20
1-1/8	7	H4	5-7/16	1.732	4	SOWA-119-718	\$122.32	4	SOWA-119-813	\$173.04
1-1/4	7	H4	5-3/4	1.732	4	SOWA-119-719	\$142.48	4	SOWA-119-814	\$185.68
1-3/8	6	H4	6-1/16	2.000	4	SOWA-119-720	\$187.28	4	SOWA-119-815	\$249.04
1-1/2	6	H4	6-3/8	2.000	4	SOWA-119-721	\$240.16	4	SOWA-119-816	\$312.72
<b>NF</b>										
6	40	H2	2	.512	3	SOWA-119-722	\$8.00	-	-	-
10	32	H3	2-3/8	.512	2	SOWA-119-723	\$8.32	-	-	-
10	32	H3	2-3/8	.512	3	SOWA-119-724	\$8.32	3	SOWA-119-817	\$11.52
1/4	28	H3	2-1/2	.630	2	SOWA-119-725	\$9.28	-	-	-
1/4	28	H3	2-1/2	.630	3	SOWA-119-726	\$9.28	3	SOWA-119-818	\$12.32
5/16	24	H3	2-23/32	.748	2	SOWA-119-727	\$11.12	-	-	-
5/16	24	H3	2-23/32	.748	3	SOWA-119-728	\$11.12	3	SOWA-119-819	\$16.16
3/8	24	H3	2-15/16	.748	2	SOWA-119-729	\$12.80	-	-	-
3/8	24	H3	2-15/16	.748	3	SOWA-119-730	\$12.80	3	SOWA-119-820	\$17.76
7/16	20	H3	3-5/32	.866	3	SOWA-119-731	\$16.80	-	-	-
1/2	20	H3	3-3/8	.945	3	SOWA-119-732	\$18.56	3	SOWA-119-821	\$30.40
5/8	18	H3	3-13/16	1.102	3	SOWA-119-733	\$29.04	4	SOWA-119-822	\$46.00
3/4	16	H3	4-1/4	1.220	3	SOWA-119-734	\$48.40	4	SOWA-119-823	\$65.04
7/8	14	H4	4-11/16	1.339	3	SOWA-119-735	\$64.40	4	SOWA-119-824	\$94.08
1	12	H4	5-1/8	1.496	3	SOWA-119-736	\$86.40	4	SOWA-119-825	\$125.20
1-1/8	12	H4	5-7/16	1.732	4	SOWA-119-737	\$122.32	4	SOWA-119-826	\$173.04
1-1/4	12	H4	5-3/4	1.732	4	SOWA-119-738	\$142.48	4	SOWA-119-827	\$185.68
1-3/8	12	H4	6-1/16	2.000	4	SOWA-119-739	\$187.28	4	SOWA-119-828	\$249.04
1-1/2	12	H4	6-3/8	2.000	4	SOWA-119-740	\$240.16	4	SOWA-119-829	\$312.72

Call Us Today For All Of Your Machine Tool Needs!

# HIGH PERFORMANCE TAPS

C

## HSSE-V3 3% Vanadium

### Machine Screw and Fractional Sizes

Yellow Ring-Hardened Tool Steels  
Orange Ring-Stainless Steels



Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.

#### Applications and Features:

##### Yellow Ring:

- Superior performance in hardened tool steels such as 4140, 4340, H13 & D2
- Up to 35 HRC
- Metric Sizes Also Available

##### Orange Ring:

- For **STAINLESS STEELS**
- Up to 35 HRC

### YELLOW RING

### SPIRAL POINT

### SPIRAL FLUTE

Tap	TPI	No. Of Flutes	Thread Limits	OAL	Thread Len.	Part Number	Price Each	No. Of Flutes	Thread Len.	Part Number	Price Each
<b>NC</b>											
2	56	2	H2	1-3/4	.433	SOWA-122-550	\$9.28	2	.433	SOWA-122-500	\$13.84
3	48	2	H2	1-13/16	.512	SOWA-122-552	\$9.28	2	.512	SOWA-122-502	\$13.84
4	40	2	H2	1-7/8	.433	SOWA-123-296	\$9.28	2	.250	SOWA-123-362	\$11.60
4	40	2	*H3	1-7/8	.433	SOWA-122-554*	\$9.28	2	.250	SOWA-122-506*	\$11.60
6	32	3	H3	2	.512	SOWA-123-300	\$8.32	3	.313	SOWA-123-366	\$11.60
8	32	3	H3	2-1/8	.512	SOWA-123-302	\$8.80	3	.313	SOWA-123-368	\$11.60
10	24	3	H3	2-3/8	.512	SOWA-123-304	\$9.04	3	.417	SOWA-123-370	\$11.60
12	24	3	H3	2-3/8	.512	SOWA-123-306	\$9.76	-	-	-	-
1/4	20	3	H3	2-1/2	.630	SOWA-123-308	\$10.24	3	.500	SOWA-123-372	\$12.32
5/16	18	3	H3	2-23/32	.748	SOWA-123-310	\$12.48	3	.556	SOWA-123-374	\$14.80
3/8	16	3	H3	2-15/16	.748	SOWA-123-312	\$15.04	3	.625	SOWA-123-376	\$17.76
7/16	14	3	H3	3-5/32	.866	SOWA-123-314	\$19.68	3	.714	SOWA-123-378	\$26.56
1/2	13	3	H3	3-3/8	.945	SOWA-123-316	\$21.84	3	.769	SOWA-123-380	\$30.40
5/8	11	3	H3	3-13/16	1.102	SOWA-123-318	\$34.40	4	.909	SOWA-123-452	\$46.00
3/4	10	3	H3	4-1/4	1.220	SOWA-123-320	\$57.68	4	1.000	SOWA-123-454	\$62.96
7/8	9	3	H4	4-11/16	1.339	SOWA-123-321	\$80.40	4	1.111	SOWA-123-466	\$89.60
1	8	4	H4	5-1/8	1.496	SOWA-123-323	\$108.00	4	1.250	SOWA-123-469	\$121.04
1-1/8	7	4	H4	5-7/16	1.732	SOWA-123-364	\$152.96	4	1.429	SOWA-123-471	\$173.04
1-1/4	7	4	H4	5-3/4	1.732	SOWA-123-367	\$178.08	4	1.429	SOWA-123-473	\$185.68
1-3/8	6	4	H4	6-1/16	2.000	SOWA-123-371	\$234.08	4	1.667	SOWA-123-475	\$249.04
1-1/2	6	4	H4	6-3/8	2.000	SOWA-123-363	\$300.16	4	1.667	SOWA-123-477	\$300.16

### NF

6	40	3	H3	2	.512	SOWA-123-334	\$8.32	-	-	-	-
10	32	3	H3	2-3/8	.512	SOWA-123-338	\$9.04	3	.417	SOWA-123-382	\$11.60
1/4	28	3	H3	2-1/2	.630	SOWA-123-342	\$10.24	3	.500	SOWA-123-384	\$12.32
5/16	24	3	H3	2-23/32	.748	SOWA-123-344	\$12.48	3	.556	SOWA-123-386	\$14.80
3/8	24	3	H3	2-15/16	.748	SOWA-123-346	\$15.12	3	.625	SOWA-123-388	\$17.76
7/16	20	3	H3	3-5/32	.866	SOWA-123-348	\$19.68	-	-	-	-
1/2	20	3	H3	3-3/8	.945	SOWA-123-350	\$21.84	3	.769	SOWA-123-392	\$30.40
5/8	18	3	H3	3-13/16	1.102	SOWA-123-352	\$34.40	4	.909	SOWA-123-462	\$46.00
3/4	16	3	H3	4-1/4	1.220	SOWA-123-353	\$57.68	4	1.000	SOWA-123-464	\$62.96
7/8	14	3	H4	4-11/16	1.339	SOWA-123-359	\$80.40	4	1.111	SOWA-123-468	\$89.60
1	12	4	H4	5-1/8	1.496	SOWA-123-361	\$108.00	4	1.250	SOWA-123-470	\$121.04
1	14	4	H4	5-1/8	1.496	SOWA-123-360	\$109.54	4	1.250	SOWA-123-465	\$125.20
1-1/8	12	4	H4	5-7/16	1.732	SOWA-123-365	\$152.96	4	1.429	SOWA-123-472	\$173.04
1-1/4	12	4	H4	5-3/4	1.732	SOWA-123-369	\$178.08	4	1.429	SOWA-123-474	\$185.68
1-3/8	12	4	H4	6-1/16	2.000	SOWA-123-373	\$234.08	4	1.667	SOWA-123-476	\$249.04
1-1/2	12	4	H4	6-3/8	2.000	SOWA-123-375	\$300.16	4	1.667	SOWA-123-478	\$300.16

### ORANGE RING

### SPIRAL POINT

### SPIRAL FLUTE

Tap	TPI	No. Of Flutes	Thread Limits	OAL	Thread Len.	Part Number	Price Each	No. Of Flutes	Thread Len.	Part Number	Price Each
<b>NC</b>											
4	40	2	H2	1-7/8	.433	SOWA-124-930	\$9.28	2	.250	SOWA-124-965	\$14.28
6	32	3	H3	2	.512	SOWA-124-931	\$8.32	3	.313	SOWA-124-966	\$12.94
8	32	3	H3	2-1/8	.512	SOWA-124-932	\$8.80	3	.313	SOWA-124-967	\$12.94
10	24	3	H3	2-3/8	.512	SOWA-124-933	\$9.04	3	.417	SOWA-124-968	\$12.94
1/4	20	3	H3	2-1/2	.630	SOWA-124-934	\$10.24	3	.500	SOWA-124-969	\$13.69
5/16	18	3	H3	2-23/32	.748	SOWA-124-935	\$12.48	3	.556	SOWA-124-970	\$16.46
3/8	16	3	H3	2-15/16	.748	SOWA-124-936	\$15.12	3	.625	SOWA-124-971	\$21.84
7/16	14	3	H3	3-5/32	.866	SOWA-124-937	\$19.68	3	.714	SOWA-124-972	\$29.57
1/2	13	3	H3	3-3/8	.945	SOWA-124-938	\$21.84	3	.769	SOWA-124-973	\$37.38
5/8	11	3	H3	3-13/16	1.102	SOWA-124-939	\$34.40	4	.909	SOWA-124-975	\$51.32
3/4	10	3	H3	4-1/4	1.220	SOWA-124-940	\$57.68	4	1.000	SOWA-124-976	\$72.58
7/8	9	3	H4	4-11/16	1.339	SOWA-124-941	\$80.40	4	1.111	SOWA-124-977	\$105.00
1	8	3	H4	5-1/8	1.496	SOWA-124-942	\$108.00	4	1.250	SOWA-124-978	\$139.19

### NF

10	32	3	H3	2-3/8	.512	SOWA-124-945	\$9.04	3	.417	SOWA-124-979	\$12.94
1/4	28	3	H3	2-1/2	.630	SOWA-124-946	\$10.24	3	.500	SOWA-124-980	\$13.69
5/16	24	3	H3	2-23/32	.748	SOWA-124-947	\$12.48	3	.556	SOWA-124-981	\$18.14
3/8	24	3	H3	2-15/16	.748	SOWA-124-948	\$15.12	3	.625	SOWA-124-982	\$21.84
7/16	20	3	H3	3-5/32	.866	SOWA-124-949	\$19.68	-	-	-	-
1/2	20	3	H3	3-3/8	.945	SOWA-124-950	\$24.88	3	.769	SOWA-124-983	\$37.38
5/8	18	3	H3	3-13/16	1.102	SOWA-124-951	\$34.40	4	1.909	SOWA-124-984	\$51.32
3/4	16	3	H3	4-1/4	1.220	SOWA-124-952	\$57.68	4	1.000	SOWA-124-985	\$72.58
7/8	14	3	H4	4-11/16	1.339	SOWA-124-953	\$80.40	4	1.111	SOWA-124-986	\$105.00
1	12	3	H4	5-1/8	1.496	SOWA-124-954	\$108.00	4	1.250	SOWA-124-987	\$139.19



Spiral Point



Spiral Flute



Straight Shank Tap Holders

Are On Page 230



Bilz™ Style Tap Adapters

Are On Page 228

Call Us Or Visit Our Website For Our Complete Selection!

2019-20 MASTER CATALOG

401

LATHE CHUCKS  
LIVE CENTERS

VICE JAWS  
VICE ACCESSORIES

STRAIGHT SHANK  
COLLET HOLDERS

TAP HOLDERS  
DRILL CHUCKS

CARBIDE INSERTS  
THREADING/GROOVING

CUTTING TOOLS  
MACHINERY

PRECISION TOOLS  
DEBURRING

COOLANT/FLUIDS  
TOOL STORAGE

# HIGH PERFORMANCE TAPS

## P-HSS POWDERED METAL TAPS

Machine Screw & Fractional Sizes  
Red Ring



**Full Line Available!**  
Please call for more information.

### Applications and Features:

#### Red Ring:

- Ideal for heat resistant materials, high strength **stainless steel** and **titanium alloys** as well as other high tensile steels and alloys including tool steel and nickel alloys
- Up to 48 HRC



Spiral Point



Spiral Flute

Tap	TPI	No. Of Flutes	Thread Limits	OAL	Thread Len.	SPIRAL POINT				SPIRAL FLUTE	
						Part Number	Price Each	No. Of Flutes	Thread Len.	Part Number	Price Each
<b>NC</b>											
4	40	2	H2	1-7/8	.433	SOWA-124-100	\$19.44	2	.250	SOWA-124-250	\$19.76
5	40	3	H2	1-15/16	.433	SOWA-124-105	\$17.04	-	-	-	-
6	32	3	H3	2	.512	SOWA-124-110	\$16.00	3	.313	SOWA-124-255	\$18.00
8	32	3	H3	2-1/8	.512	SOWA-124-115	\$16.00	3	.313	SOWA-124-260	\$17.76
10	24	3	H3	2-3/8	.512	SOWA-124-120	\$17.04	3	.417	SOWA-124-265	\$17.76
1/4	20	3	H3	2-1/2	.630	SOWA-124-130	\$18.48	3	.500	SOWA-124-275	\$19.76
5/16	18	3	H3	2-23/32	.748	SOWA-124-140	\$21.84	3	.556	SOWA-124-285	\$21.84
3/8	16	3	H3	2-15/16	.748	SOWA-124-150	\$29.12	3	.625	SOWA-124-295	\$29.12
7/16	14	3	H3	3-5/32	.866	SOWA-124-160	\$34.40	3	.714	SOWA-124-305	\$35.04
1/2	13	3	H3	3-3/8	.945	SOWA-124-170	\$40.32	3	.769	SOWA-124-315	\$40.32
5/8	11	3	H3	3-13/16	1.102	SOWA-124-180	\$82.32	4	.909	SOWA-124-325	\$87.12
3/4	10	4	H3	4-1/4	1.220	SOWA-124-190	\$130.72	4	1.000	SOWA-124-335	\$130.72
<b>NF</b>											
10	32	3	H3	2-3/8	.512	SOWA-124-125	\$17.04	3	.417	SOWA-124-270	\$17.76
1/4	28	3	H3	2-1/2	.630	SOWA-124-135	\$18.48	3	.500	SOWA-124-280	\$19.76
5/16	24	3	H3	2-23/32	.748	SOWA-124-145	\$21.84	3	.556	SOWA-124-290	\$21.84
3/8	24	3	H3	2-15/16	.748	SOWA-124-155	\$29.12	3	.625	SOWA-124-300	\$29.12
7/16	20	3	H3	3-5/32	.866	SOWA-124-165	\$34.40	3	.714	SOWA-124-310	\$35.04
1/2	20	3	H3	3-3/8	.945	SOWA-124-175	\$40.32	3	.769	SOWA-124-320	\$40.32
5/8	18	3	H3	3-13/16	1.102	SOWA-124-185	\$82.32	4	.909	SOWA-124-330	\$87.12
3/4	16	4	H3	4-1/4	1.220	SOWA-124-195	\$130.72	4	1.000	SOWA-124-340	\$130.72

## SPIRAL FLUTE TAPS

For Aluminum



- Recommended for all types of aluminum alloys
- Premium powder metal high speed steel
- Bright finish
- Designed for tapping blind holes-spiral flutes draw the chips out of the hole



Tap	TPI	No. Of Flutes	Thread Limits	OAL	Thread Length	Part Number	Price Each
<b>NC</b>							
4	40	2	H2	1-7/8	.250	SOWA-124-400	\$13.92
6	32	2	H3	2	.313	SOWA-124-405	\$11.20
8	32	2	H3	2-1/8	.313	SOWA-124-415	\$11.20
10	24	2	H3	2-3/8	.417	SOWA-124-420	\$11.36
1/4	20	2	H3	2-1/2	.500	SOWA-124-430	\$12.56
5/16	18	2	H3	2-23/32	.556	SOWA-124-445	\$15.12
3/8	16	2	H3	2-15/16	.625	SOWA-124-465	\$17.68
<b>NF</b>							
10	32	2	H3	2-3/8	.417	SOWA-124-425	\$11.36
1/4	28	2	H3	2-1/2	.500	SOWA-124-440	\$12.56
5/16	24	2	H3	2-23/32	.556	SOWA-124-455	\$15.12
3/8	24	2	H3	2-15/16	.625	SOWA-124-475	\$17.68

## HSSE-V3 S.T.I. TAPS

Screw Thread Insert 45° Spiral Flute Taps



STI taps combine special geometry & surface finish for tapping in Aluminum and other non-ferrous materials for screw thread insert applications.



Tap	TPI	No. Of Flutes	OAL	Thread Length	Part Number	Price Each
<b>NC</b>						
4	40	2	1-7/8	.250	SOWA-124-050	\$11.28
6	32	2	2	.313	SOWA-124-052	\$12.80
8	32	2	2-1/8	.313	SOWA-124-054	\$12.80
10	24	2	2-3/8	.417	SOWA-124-056	\$12.80
1/4	20	2	2-1/2	.500	SOWA-124-060	\$15.84
5/16	18	2	2-23/32	.556	SOWA-124-064	\$18.00
3/8	16	2	2-15/16	.625	SOWA-124-068	\$23.76
<b>NF</b>						
10	32	2	2-3/8	.417	SOWA-124-058	\$12.80
1/4	28	2	2-1/2	.500	SOWA-124-062	\$15.84
5/16	24	2	2-23/32	.556	SOWA-124-066	\$18.00
3/8	24	2	2-15/16	.625	SOWA-124-070	\$23.76

Call Us Today For All Of Your Machine Tool Needs!

## HSSE-V3 METRIC TAPS

### Spiral Point & Spiral Flute Blue Ring

Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.

#### Applications and Features:

- Used in general machine tapping applications for mild carbon steels such as 1018, 1010, 1035, 1045, 1050 and 1065
- Up to 25 HRC



Spiral Point



Spiral Flute

Nominal Size & Pitch	No. of Flutes	Thread Limits	OAL	Thread Length	SPIRAL POINT		SPIRAL FLUTE	
					Part Number	Price Each	Part Number	Price Each
M2 X .4	2	D3	1-3/4	.433	SOWA-119-750	\$23.36	-	-
M2.5 X .45	2	D3	1-13/16	.512	SOWA-119-751	\$11.76	-	-
M3 X .5	3	D3	1-15/16	.433	SOWA-119-752	\$9.94	SOWA-119-840	\$16.56
M3.5 X .6	3	D4	2	.512	SOWA-119-753	\$8.00	SOWA-119-841	\$16.56
M4 X .7	3	D4	2-1/8	.512	SOWA-119-754	\$8.32	SOWA-119-842	\$16.56
M4.5 X .75	3	D4	2-3/8	.512	SOWA-119-755	\$8.32	-	-
M5 X .8	3	D4	2-3/8	.512	SOWA-119-756	\$9.12	SOWA-119-843	\$16.56
M6 X 1	3	D5	2-1/2	.630	SOWA-119-757	\$9.28	SOWA-119-844	\$16.56
M7 X 1	3	D5	2-23/32	.630	SOWA-119-758	\$11.68	SOWA-119-845	\$20.48
M8 X 1	3	D5	2-23/32	.748	SOWA-119-759	\$11.68	SOWA-119-846	\$20.48
M8 X 1.25	3	D5	2-23/32	.748	SOWA-119-760	\$11.68	SOWA-119-847	\$20.48
M10 X 1.25	3	D5	2-15/16	.748	SOWA-119-761	\$16.96	SOWA-119-848	\$30.48
M10 X 1.5	3	D6	2-15/16	.748	SOWA-119-762	\$16.96	SOWA-119-849	\$30.48
M12 X 1.25	3	D5	3-3/8	.945	SOWA-119-763	\$21.12	SOWA-119-850	\$33.36
M12 X 1.75	3	D6	3-3/8	.945	SOWA-119-764	\$21.12	-	-
M14 X 1.5	3	D6	3-19/32	.984	SOWA-119-765	\$32.00	SOWA-119-852	\$45.36
M14 X 2	3	D7	3-19/32	.984	SOWA-119-766	\$32.00	SOWA-119-853	\$45.36
M16 X 1.5	3	D6	3-13/16	1.102	SOWA-119-767	\$37.12	SOWA-119-854	\$53.36
M16 X 2	3	D7	3-13/16	1.102	SOWA-119-768	\$37.12	SOWA-119-855	\$53.36
M18 X 1.5	3	D6	4-1/32	1.102	SOWA-119-769	\$48.40	SOWA-119-856	\$78.20
M18 X 2.5	3	D7	4-1/32	1.102	SOWA-119-770	\$48.40	SOWA-119-857	\$78.20
M20 X 1.5	3	D5	4-15/32	1.220	SOWA-119-771	\$59.28	SOWA-119-858	\$108.61
M20 X 2.5	3	D6	4-15/32	1.220	SOWA-119-772	\$59.28	SOWA-119-859	\$108.61

## HSSE-V3 3% Vanadium

### Metric Taps Orange Ring

Designed for high-speed tapping applications. Developed to withstand the high stress and high heat associated with high-speed CNC production tapping. Features a unique free-cutting design with a special tempering and geometry which contributes to extra tool life.

#### Applications and Features:

- For STAINLESS STEELS
- Up to 35 HRC



Spiral Point



Spiral Flute



Nominal Size & Pitch	No. of Flutes	Thread Limits	OAL	Thread Length	SPIRAL POINT		SPIRAL FLUTE	
					Part Number	Price Each	Part Number	Price Each
M3 X .5	3	D3	1-15/16	.433	SOWA-124-955	\$8.24	SOWA-124-988	\$18.40
M4 X .7	3	D4	2-1/8	.512	SOWA-124-956	\$8.80	SOWA-124-989	\$18.40
M5 X .8	3	D4	2-3/8	.512	SOWA-124-957	\$10.32	SOWA-124-990	\$18.40
M6 X 1	3	D5	2-1/2	.630	SOWA-124-958	\$10.32	SOWA-124-991	\$18.40
M8 X 1.25	3	D5	2-23/32	.748	SOWA-124-959	\$12.96	SOWA-124-992	\$22.56
M10 X 1.25	3	D5	2-15/16	.748	SOWA-124-960	\$18.64	SOWA-124-993	\$33.60
M10 X 1.5	3	D6	2-15/16	.748	SOWA-124-961	\$18.64	SOWA-124-994	\$33.60
M12 X 1.75	3	D6	3-3/8	.945	SOWA-124-962	\$23.28	SOWA-124-995	\$36.80
M14 X 2	3	D6	3-19/32	.984	SOWA-124-897	\$35.28	SOWA-124-996	\$49.90
M16 X 2	3	D7	3-13/16	1.102	SOWA-124-899	\$40.88	SOWA-124-997	\$58.72
M18 X 2.5	3	D7	4-1/32	1.102	SOWA-124-901	\$58.46	SOWA-124-998	\$122.72
M20 X 2.5	3	D6	4-1/4	1.220	SOWA-124-903	\$69.04	SOWA-124-999	\$119.53
M22 X 2.5	3	D6	4-11/16	1.339	SOWA-124-905	\$81.56	SOWA-124-943	\$129.11
M24 X 3	3	D7	4-29/32	1.339	SOWA-124-907	\$109.54	SOWA-124-944	\$152.80

**Full Line Available!**  
Please call for more information.

## PERFORMANCE TAPS

### For Steels & Stainless Steels



- Ideal for steels, stainless steels and materials up to 28RC
- Black steam oxide to help coolant retention
- 2% vanadium plus 5% cobalt for superior wear resistance and increased heat resistance
- 60° Unified National (UN) thread form
- Available in fractional and machine screw sizes

Nominal Size & Pitch	No. of Flutes	Thread Limits	Thread Length	OAL	SPIRAL POINT		SPIRAL FLUTE	
					Part Number	Price Each	Part Number	Price Each
M3 X .5	3	D3	0.374	1-15/16	BI-5785-0035	\$9.37	-	-
M4 X .7	3	D4	0.453	2-1/8	BI-5785-0040	\$9.37	BI-5788-0040	\$15.20
M5 X .8	3	D4	0.531	2-3/8	BI-5785-0050	\$11.23	BI-5788-0050	\$15.20
M6 X 1	3	D5	0.591	2-1/2	BI-5785-0060	\$11.23	BI-5788-0060	\$15.20
M8 X 1	3	D5	0.669	2-23/32	BI-5785-0081	\$13.49	BI-5788-0081	\$20.22
M8 X 1.25	3	D5	0.669	2-23/32	BI-5785-0080	\$13.49	BI-5788-0080	\$20.22
M10 X 1.5	3	D6	0.748	2-15/16	BI-5785-0100	\$20.79	BI-5788-0100	\$30.38
M12 X 1.25	3	D5	0.984	3-3/8	BI-5785-0121	\$23.97	BI-5788-0121	\$33.76
M12 X 1.75	3	D6	0.984	3-3/8	BI-5785-0120	\$23.97	BI-5788-0120	\$33.76

Call Us Or Visit Our Website For Our Complete Selection!

LATHE CHUCKS  
LIVE CENTERS

WISE JAWS  
WISE ACCESSORIES

STRAIGHT SHANK  
COLLET HOLDERS

TAP HOLDERS  
DRILL CHUCKS

CARBIDE INSERTS  
THREADING/GROOVING

CUTTING TOOLS  
MACHINERY

PRECISION TOOLS  
DEBURRING

COOLANT/FLUIDS  
TOOL STORAGE