

## HSS M2 Fully Ground Hand Taps

List No. HT02W00 - HSS M2 Stright Flute Taper Taps

List No. HP02W00 - HSS M2 Stright Flute Plug Taps

List No. HB02W00 - HSS M2 Stright Flute Bottom Taps



### Features

- \* Precision ground to insure concentricity of tip & body
- \* Fully ground smooth flutes & surface treated for effective chip flow
- \* Premium quality HSS, special heat treatment to remain sharper cut, & reduce wear
- \* Penetrates faster with less pressure
- \* All dimensional & element tolerances conform to ASME/ANSI B94.11M

### Application

Designed for general purpose hand tapping or in machines effectively  
They are suitable for tapping most materials in through or blind holes.

### Sizes available:

Number #0 - #14; Fractional 3/32" to 4"; Metric M2 to M52

Each size is available in taper, bottoming, or plug chamfer. When taper or bottoming chamfer taps are not available in size ordered, plug chamfer taps will be substituted to complete order.

Customer Sets and Customer surface finish are available

**Material:** M2 right hand taps in stock. M35, M42 cobalt available as customer requests

### Gauge Series

Size	OAL	FL	HTN02W00	HPN02W00	HBN02W00	Size	OAL	FL	HTN02W00	HPN02W00	HBN02W00
0-80NF	1-5/8	5/16	R0F	R0F	R0F	8-24UN	2-1/8	3/4	R08N24	R08N24	R08N24
1-64NC	1-11/16	3/8	R01	R01	R01	8-32NC	2-1/8	3/4	R08	R08	R08
1-72NF	1-11/16	3/8	R01F	R01F	R01F	8-36NF	2-1/8	3/4	R08F	R08F	R08F
2-56NC	1-3/4	7/16	R02	R02	R02	8-40UN	2-1/8	3/4	R08N40	R08N40	R08N40
2-64NF	1-3/4	7/16	R02F	R02F	R02F	8-48UN	2-1/8	3/4	R08N48	R08N48	R08N48
3-48NC	1-13/16	1/2	R03	R03	R03	10-24NC	2-3/8	7/8	R10	R10	R10
3-56NF	1-13/16	1/2	R03F	R03F	R03F	10-28NS	2-3/8	7/8	R10S28	R10S28	R10S28
4-36NS	1-7/8	9/16	R04S36	R04S36	R04S36	10-32NF	2-3/8	7/8	R10F	R10F	R10F
4-40NC	1-7/8	9/16	R04	R04	R04	10-36NS	2-3/8	7/8	R10S36	R10S36	R10S36
4-48NF	1-7/8	9/16	R04F	R04F	R04F	10-40NS	2-3/8	7/8	R10S40	R10S40	R10S40
4-80UN	1-7/8	9/16	R04N80	R04N80	R04N80	10-48NS	2-3/8	7/8	R10S40	R10S40	R10S40
5-40NC	1-15/16	5/8	R05	R05	R05	10-56NS	2-3/8	7/8	R10S56	R10S56	R10S56
5-44NF	1-15/16	5/8	R05F	R05F	R05F	12-24NC	2-3/8	15/16	R12	R12	R12
6-32NC	2	11/16	R06	R06	R06	12-28NF	2-3/8	15/16	R12F	R12F	R12F
6-36UN	2	11/16	R06N36	R06N36	R06N36	12-32NEF	2-3/8	15/16	R12EF	R12EF	R12EF
6-40NF	2	11/16	R06F	R06F	R06F	12-36NS	2-3/8	15/16	R12S36	R12S36	R12S36
6-48NS	2	11/16	R06S48	R06S48	R06S48	12-40NS	2-3/8	15/16	R12S40	R12S40	R12S40
7-32UN	2-1/8	3/4	R07N32	R07N32	R07N32	12-48NS	2-3/8	15/16	R12S48	R12S48	R12S48
7-48UN	2-1/8	3/4	R07N48	R07N48	R07N48	14-24UN	2-3/8	15/16	R12N24	R12N24	R12N24

### Imperial Size Series

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00	Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
3/32-48NC	1-13/16	1/2	R006	R006	R006	1-27NS	5-1/8	2-1/2	R100S27	R100S27	R100S27
5/32-32UN	2-1/8	3/4	R010N32	R010N32	R010N32	1-28UN	5-1/8	2-1/2	R100N28	R100N28	R100N28
5/32-36NF	2-1/8	3/4	R010F	R010F	R010F	1-32UN	5-1/8	2-1/2	R100N32	R100N32	R100N32
3/16-24UN	2-3/8	7/8	R012N24	R012N24	R012N24	1-40NS	5-1/8	2-1/2	R100S40	R100S40	R100S40
3/16-32UN	2-3/8	7/8	R012N32	R012N32	R012N32	1-48UN	5-1/8	2-1/2	R100N48	R100N48	R100N48

## HSS M2 Fully Ground Hand Taps

### Imperial Size Series

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
7/32-24NC	2-3/8	15/16	R014	R014	R014
7/32-32UN	2-3/8	15/16	R014N32	R014N32	R014N32
1/4-20NC	2-1/2	1	R016	R016	R016
1/4-24NS	2-1/2	1	R016S24	R016S24	R016S24
1/4-26UN	2-1/2	1	R016N26	R016N26	R016N26
1/4-27NS	2-1/2	1	R016S27	R016S27	R016S27
1/4-28NF	2-1/2	1	R016F	R016F	R016F
1/4-32NEF	2-1/2	1	R016EF	R016EF	R016EF
1/4-36NS	2-1/2	1	R016S36	R016S36	R016S36
1/4-40NS	2-1/2	1	R016S40	R016S40	R016S40
1/4-48NS	2-1/2	1	R016S48	R016S48	R016S48
1/4-80UN	2-1/2	1	R016N80	R016N80	R016N80
5/16-18NC	2-23/32	1-1/8	R020	R020	R020
5/16-20UN	2-23/32	1-1/8	R020N20	R020N20	R020N20
5/16-22UN	2-23/32	1-1/8	R020N22	R020N22	R020N22
5/16-24NF	2-23/32	1-1/8	R020F	R020F	R020F
5/16-27NS	2-23/32	1-1/8	R020S27	R020S27	R020S27
5/16-28UN	2-23/32	1-1/8	R020N28	R020N28	R020N28
5/16-30UN	2-23/32	1-1/8	R020N30	R020N30	R020N30
5/16-32NEF	2-23/32	1-1/8	R020EF	R020EF	R020EF
5/16-36NS	2-23/32	1-1/8	R020S36	R020S36	R020S36
5/16-40UN	2-23/32	1-1/8	R020N40	R020N40	R020N40
5/16-56UN	2-23/32	1-1/8	R020N56	R020N56	R020N56
3/8-14UN	2-15/16	1-1/4	R024N14	R024N14	R024N14
3/8-16NC	2-15/16	1-1/4	R024	R024	R024
3/8-18NS	2-15/16	1-1/4	R024S18	R024S18	R024S18
3/8-20UN	2-15/16	1-1/4	R024N20	R024N20	R024N20
3/8-24NF	2-15/16	1-1/4	R024F	R024F	R024F
3/8-26UN	2-15/16	1-1/4	R024N26	R024N26	R024N26
3/8-27NS	2-15/16	1-1/4	R024S27	R024S27	R024S27
3/8-28UN	2-15/16	1-1/4	R024N28	R024N28	R024N28
3/8-32NEF	2-15/16	1-1/4	R024EF	R024EF	R024EF
3/8-40NS	2-15/16	1-1/4	R024S40	R024S40	R024S40
3/8-48UN	2-15/16	1-1/4	R024N48	R024N48	R024N48
7/16-14NC	3-5/32	1-7/16	R028	R028	R028
7/16-16UN	3-5/32	1-7/16	R028N16	R028N16	R028N16
7/16-18NS	3-5/32	1-7/16	R028S18	R028S18	R028S18
7/16-20NF	3-5/32	1-7/16	R028F	R028F	R028F
7/16-24NS	3-5/32	1-7/16	R028S24	R028S24	R028S24
7/16-27NS	3-5/32	1-7/16	R028S27	R028S27	R028S27
7/16-28NEF	3-5/32	1-7/16	R028EF	R028EF	R028EF
7/16-32UN	3-5/32	1-7/16	R028N32	R028N32	R028N32
7/16-40NS	3-5/32	1-7/16	R028S40	R028S40	R028S40
15/32-32UN	3-3/8	1-21/32	R030N32	R030N32	R030N32
1/2-12NS	3-3/8	1-21/32	R032S12	R032S12	R032S12
1/2-13NC	3-3/8	1-21/32	R032	R032	R032
1/2-14NS	3-3/8	1-21/32	R032S14	R032S14	R032S14
1/2-16UN	3-3/8	1-21/32	R032N16	R032N16	R032N16
1/2-18NS	3-3/8	1-21/32	R032S18	R032S18	R032S18
1/2-20NF	3-3/8	1-21/32	R032F	R032F	R032F

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
1 1/16-10NS	5-1/8	2-1/2	R104S10	R104S10	R104S10
1 1/16-12NS	5-1/8	2-1/2	R104S12	R104S12	R104S12
1 1/16-16UN	4	1-1/2	R104N16	R104N16	R104N16
1 1/16-18NEF	4	1-1/2	R104EF	R104EF	R104EF
1 1/16-20UN	4	1-1/2	R104N20	R104N20	R104N20
1 1/16-24NS	4	1-1/2	R104S24	R104S24	R104S24
1 1/16-27UN	4	1-1/2	R104N27	R104N27	R104N27
1 1/16-32UN	4	1-1/2	R104N32	R104N32	R104N32
1 1/8-7NC	5-7/16	2-9/16	R108	R108	R108
1 1/8-8UN	5-7/16	2-9/16	R108N8	R108N8	R108N8
1 1/8-12NF	5-7/16	2-9/16	R108F	R108F	R108F
1 1/8-16UN	4	1-1/2	R108N16	R108N16	R108N16
1 1/8-18NEF	4	1-1/2	R108EF	R108EF	R108EF
1 1/8-20UN	4	1-1/2	R108N20	R108N20	R108N20
1 1/8-32UN	4	1-1/2	R108N32	R108N32	R108N32
1 3/16-12UN	5-7/16	2-9/16	R112N12	R112N12	R112N12
1 3/16-16UN	4	1-1/2	R112N16	R112N16	R112N16
1 3/16-18NEF	4	1-1/2	R112EF	R112EF	R112EF
1 3/16-20UN	4	1-1/2	R112N20	R112N20	R112N20
1 3/16-28UN	4	1-1/2	R112N28	R112N28	R112N28
1 3/16-32UN	4	1-1/2	R112N32	R112N32	R112N32
1 1/4-7NC	5-3/4	2-9/16	R116	R116	R116
1 1/4-8UN	5-3/4	2-9/16	R116N8	R116N8	R116N8
1 1/4-10NS	5-3/4	2-9/16	R116S10	R116S10	R116S10
1 1/4-12NF	5-3/4	2-9/16	R116F	R116F	R116F
1 1/4-14NS	4	1-1/2	R116S14	R116S14	R116S14
1 1/4-16UN	4	1-1/2	R116N16	R116N16	R116N16
1 1/4-18NEF	4	1-1/2	R116EF	R116EF	R116EF
1 1/4-20UN	4	1-1/2	R116N20	R116N20	R116N20
1 1/4-24NS	4	1-1/2	R116S24	R116S24	R116S24
1 5/16-8UN	5-3/4	2-9/16	R120N8	R120N8	R120N8
1 5/16-12UN	5-3/4	2-9/16	R120N12	R120N12	R120N12
1 5/16-16UN	4	1-1/2	R120N16	R120N16	R120N16
1 5/16-18NEF	4	1-1/2	R120EF	R120EF	R120EF
1 5/16-20UN	4	1-1/2	R120N20	R120N20	R120N20
1 3/8-6NC	6-1/16	3	R124	R124	R124
1 3/8-8UN	6-1/16	3	R124N8	R124N8	R124N8
1 3/8-12NF	6-1/16	3	R124F	R124F	R124F
1 3/8-14NS	4	1-1/2	R124S14	R124S14	R124S14
1 3/8-16UN	4	1-1/2	R124N16	R124N16	R124N16
1 3/8-18NEF	4	1-1/2	R124EF	R124EF	R124EF
1 3/8-20UN	4	1-1/2	R124N20	R124N20	R124N20
1 7/16-8UN	6-1/16	3	R128N8	R128N8	R128N8
1 7/16-12UN	6-1/16	3	R128N12	R128N12	R128N12
1 7/16-16UN	4	1-1/2	R128N16	R128N16	R128N16
1 7/16-18NEF	4	1-1/2	R128EF	R128EF	R128EF
1 1/2-6NC	6-3/8	3	R132	R132	R132
1 1/2-8UN	6-3/8	3	R132N8	R132N8	R132N8
1 1/2-10NS	6-3/8	3	R132S10	R132S10	R132S10
1 1/2-12NF	6-3/8	3	R132F	R132F	R132F

## HSS M2 Fully Ground Hand Taps

### Imperial Size Series

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00	Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
1/2-24NS	3-3/8	1-21/32	R032S24	R032S24	R032S24	1 1/2-16UN	4	1-1/2	R132N16	R132N16	R132N16
1/2-27NS	3-3/8	1-21/32	R032S27	R032S27	R032S27	1 1/2-18NEF	4	1-1/2	R132EF	R132EF	R132EF
1/2-28NEF	3-3/8	1-21/32	R032EF	R032EF	R032EF	1 1/2-20UN	4	1-1/2	R132N20	R132N20	R132N20
1/2-32UN	3-3/8	1-21/32	R032N32	R032N32	R032N32	1 1/2-24NS	4	1-1/2	R132S24	R132S24	R132S24
1/2-40NS	3-3/8	1-21/32	R032S40	R032S40	R032S40	1 1/2-27UN	4	1-1/2	R132N27	R132N27	R132N27
1/2-56UN	3-3/8	1-21/32	R032N56	R032N56	R032N56	1 1/2-28UN	4	1-1/2	R132N28	R132N28	R132N28
9/16-12NC	3-19/32	1-21/32	R036	R036	R036	1 9/16-12UN	5	2	R136N12	R136N12	R136N12
9/16-18NF	3-19/32	1-21/32	R036F	R036F	R036F	1 9/16-16UN	5	2	R136N16	R136N16	R136N16
9/16-20UN	3-19/32	1-21/32	R036N20	R036N20	R036N20	1 9/16-18NEF	5	2	R136EF	R136EF	R136EF
9/16-24NEF	3-19/32	1-21/32	R036EF	R036EF	R036EF	1 9/16-20UN	5	2	R136N20	R136N20	R136N20
9/16-27NS	3-19/32	1-21/32	R036S27	R036S27	R036S27	1 5/8-5UN	6-11/16	3-3/16	R140N5	R140N5	R140N5
9/16-28UN	3-19/32	1-21/32	R036N28	R036N28	R036N28	1 5/8 - 5 1/2UN	6-11/16	3-3/16	R140N5.5	R140N5.5	R140N5.5
9/16-32UN	3-19/32	1-21/32	R036N32	R036N32	R036N32	1 5/8-8UN	6-11/16	3-3/16	R140N8	R140N8	R140N8
9/16-40NS	3-19/32	1-21/32	R036S40	R036S40	R036S40	1 5/8-10NS	5	2	R140S10	R140S10	R140S10
5/8-11NC	3-13/16	1-13/16	R040	R040	R040	1 5/8-12UN	5	2	R140N12	R140N12	R140N12
5/8-14NS	3-13/16	1-13/16	R040S14	R040S14	R040S14	1 5/8-16UN	5	2	R140N16	R140N16	R140N16
5/8-16UN	3-13/16	1-13/16	R040N16	R040N16	R040N16	1 5/8-18NEF	5	2	R140EF	R140EF	R140EF
5/8-18NF	3-13/16	1-13/16	R040F	R040F	R040F	1 5/8-20UN	5	2	R140N20	R140N20	R140N20
5/8-20UN	3-13/16	1-13/16	R040N20	R040N20	R040N20	1 5/8-24NS	5	2	R140S24	R140S24	R140S24
5/8-24NEF	3-13/16	1-13/16	R040EF	R040EF	R040EF	1 11/16-12UN	5	2	R144N12	R144N12	R144N12
5/8-27NS	3-13/16	1-13/16	R040S27	R040S27	R040S27	1 11/16-16UN	5	2	R144N16	R144N16	R144N16
5/8-28UN	3-13/16	1-13/16	R040N28	R040N28	R040N28	1 11/16-18NEF	5	2	R144EF	R144EF	R144EF
5/8-32UN	3-13/16	1-13/16	R040N32	R040N32	R040N32	1 3/4-5NC	7	3-3/16	R148	R148	R148
5/8-40NS	3-13/16	1-13/16	R040S40	R040S40	R040S40	1 3/4-6UN	7	3-3/16	R148N6	R148N6	R148N6
11/16-11UN	4-1/32	1-13/16	R044N11	R044N11	R044N11	1 3/4-8UN	7	3-3/16	R148N8	R148N8	R148N8
11/16-12UN	4-1/32	1-13/16	R044N12	R044N12	R044N12	1 3/4-10NS	5	2	R148S10	R148S10	R148S10
11/16-16UN	4-1/32	1-13/16	R044N16	R044N16	R044N16	1 3/4-12UN	5	2	R148N12	R148N12	R148N12
11/16-18NS	4-1/32	1-13/16	R044S18	R044S18	R044S18	1 3/4-14NS	5	2	R148S14	R148S14	R148S14
11/16-20UN	4-1/32	1-13/16	R044N20	R044N20	R044N20	1 3/4-16UN	5	2	R148N16	R148N16	R148N16
11/16-24NEF	4-1/32	1-13/16	R044EF	R044EF	R044EF	1 3/4-18NS	5	2	R148S18	R148S18	R148S18
11/16-27NS	4-1/32	1-13/16	R044S27	R044S27	R044S27	1 3/4-20UN	5	2	R148N20	R148N20	R148N20
11/16-28UN	4-1/32	1-13/16	R044N28	R044N28	R044N28	1 7/8 - 4 1/2UN	7-5/16	3-9/16	R156N4.5	R156N4.5	R156N4.5
11/16-32UN	4-1/32	1-13/16	R044N32	R044N32	R044N32	1 7/8-5UN	7-5/16	3-9/16	R156N5	R156N5	R156N5
11/16-40NS	4-1/32	1-13/16	R044S40	R044S40	R044S40	1 7/8-8UN	7-5/16	3-9/16	R156N8	R156N8	R156N8
3/4-10NC	4-1/4	2	R048	R048	R048	1 7/8-10NS	5	2	R156S10	R156S10	R156S10
3/4-12UN	4-1/4	2	R048N12	R048N12	R048N12	1 7/8-12UN	5	2	R156N12	R156N12	R156N12
3/4-14NS	4-1/4	2	R048S14	R048S14	R048S14	1 7/8-16UN	5	2	R156N16	R156N16	R156N16
3/4-16NF	4-1/4	2	R048F	R048F	R048F	1 7/8-20UN	5	2	R156N20	R156N20	R156N20
3/4-18NS	4-1/4	2	R048S18	R048S18	R048S18	1 15/16-16NS	5	2	R160S16	R160S16	R160S16
3/4-20NEF	4-1/4	2	R048EF	R048EF	R048EF	2-4 1/2NC	7-5/8	3-9/16	R200	R200	R200
3/4-24NS	4-1/4	2	R048S24	R048S24	R048S24	2-6UN	7-5/8	3-9/16	R200N6	R200N6	R200N6
3/4-26UN	4-1/4	2	R048N26	R048N26	R048N26	2-8UN	7-5/8	3-9/16	R200N8	R200N8	R200N8
3/4-27NS	4-1/4	2	R048S27	R048S27	R048S27	2-10NS	5	2	R200S10	R200S10	R200S10
3/4-28UN	4-1/4	2	R048N28	R048N28	R048N28	2-12UN	5	2	R200N12	R200N12	R200N12
3/4-32UN	4-1/4	2	R048N32	R048N32	R048N32	2-16UN	5	2	R200N16	R200N16	R200N16
13/16-10UN	4-15/32	2	R052N10	R052N10	R052N10	2-20UN	5	2	R200N20	R200N20	R200N20
13/16-14UN	4-15/32	2	R052N14	R052N14	R052N14	2 1/8-12UN	5-1/4	2	R208N12	R208N12	R208N12
13/16-16UN	4-15/32	2	R052N16	R052N16	R052N16	2 1/8-16UN	5-1/4	2	R208N16	R208N16	R208N16
13/16-18NS	4-15/32	2	R052S18	R052S18	R052S18	2 1/8-8UN	8	3-9/16	R208N8	R208N8	R208N8
13/16-20NEF	4-15/32	2	R052EF	R052EF	R052EF	2 1/4 - 4 1/2NC	8-1/4	3-9/16	R216	R216	R216

## HSS M2 Fully Ground Hand Taps

### Imperial Size Series

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
13/16-24NS	4-15/32	2	R052S24	R052S24	R052S24
13/16-27NS	4-15/32	2	R052S27	R052S27	R052S27
13/16-28UN	4-15/32	2	R052N28	R052N28	R052N28
13/16-32UN	4-15/32	2	R052N32	R052N32	R052N32
7/8-9NC	4-11/16	2-7/32	R056	R056	R056
7/8-12UN	4-11/16	2-7/32	R056N12	R056N12	R056N12
7/8-14NF	4-11/16	2-7/32	R056F	R056F	R056F
7/8-16UN	4-11/16	2-7/32	R056N16	R056N16	R056N16
7/8-18NS	4-11/16	2-7/32	R056S18	R056S18	R056S18
7/8-20NEF	4-11/16	2-7/32	R056EF	R056EF	R056EF
7/8-24NS	4-11/16	2-7/32	R056S24	R056S24	R056S24
7/8-27NS	4-11/16	2-7/32	R056S27	R056S27	R056S27
7/8-28UN	4-11/16	2-7/32	R056N28	R056N28	R056N28
7/8-32UN	4-11/16	2-7/32	R056N32	R056N32	R056N32
15/16-12UN	4-29/32	2-7/32	R060N12	R060N12	R060N12
15/16-14UN	4-29/32	2-7/32	R060N14	R060N14	R060N14
15/16-16UN	4-29/32	2-7/32	R060N16	R060N16	R060N16
15/16-18NS	4-29/32	2-7/32	R060S18	R060S18	R060S18
15/16-20NEF	4-29/32	2-7/32	R060EF	R060EF	R060EF
15/16-24NS	4-29/32	2-7/32	R060S24	R060S24	R060S24
15/16-27NS	4-29/32	2-7/32	R060S27	R060S27	R060S27
15/16-32UN	4-29/32	2-7/32	R060N32	R060N32	R060N32
1-8NC	5-1/8	2-1/2	R100	R100	R100
1-10NS	5-1/8	2-1/2	R100S10	R100S10	R100S10
1-12NF	5-1/8	2-1/2	R100F	R100F	R100F
1-14NS	5-1/8	2-1/2	R100S14	R100S14	R100S14
1-16UN	5-1/8	2-1/2	R100N16	R100N16	R100N16
1-18NS	5-1/8	2-1/2	R100S18	R100S18	R100S18
1-20NEF	5-1/8	2-1/2	R100EF	R100EF	R100EF
1-24NS	5-1/8	2-1/2	R100S24	R100S24	R100S24

Size	OAL	FL	HTF02W00	HPF02W00	HBF02W00
2 1/4-8UN	8-1/4	3-9/16	R216N8	R216N8	R216N8
2 1/4-12UN	5-1/4	2	R216N12	R216N12	R216N12
2 3/8-4 1/2UN	8-1/2	4	R224N4.5	R224N4.5	R224N4.5
2 3/8-8UN	8-1/2	4	R224N8	R224N8	R224N8
2 3/8-12UN	5-1/4	2	R224N12	R224N12	R224N12
2 3/8-14NS	5-1/4	2	R224S14	R224S14	R224S14
2 1/2-4NC	8-3/4	4	R232	R232	R232
2 1/2-8UN	8-3/4	4	R232N8	R232N8	R232N8
2 1/2-12UN	5-1/4	2	R232N12	R232N12	R232N12
2 1/2-16UN	5-1/4	2	R232N16	R232N16	R232N16
2 5/8-16UN	5-1/2	2	R240N16	R240N16	R240N16
2 5/8-18NS	5-1/2	2	R240S18	R240S18	R240S18
2 3/4-8UN	9-1/4	4	R248N8	R248N8	R248N8
2 3/4-12UN	5-1/2	2	R248N12	R248N12	R248N12
2 3/4-16UN	5-1/2	2	R248N16	R248N16	R248N16
2 3/4-18NS	5-1/2	2	R248S18	R248S18	R248S18
2 7/8-12UN	5-1/2	2	R256N12	R256N12	R256N12
3-4NC	9-3/4	4-9/16	R300	R300	R300
3-8UN	9-3/4	4-9/16	R300N8	R300N8	R300N8
3-12UN	5-1/2	2	R300N12	R300N12	R300N12
3-16UN	5-1/2	2	R300N16	R300N16	R300N16
3 1/4-4NC	10	4-9/16	R316	R316	R316
3 1/4-8UN	10	4-9/16	R316N8	R316N8	R316N8
3 1/4-12UN	5-3/4	2	R316N12	R316N12	R316N12
3 1/2-12UN	5-3/4	2	R332N12	R332N12	R332N12
3 3/4-8UN	10-1/2	5-5/16	R348N8	R348N8	R348N8
3 3/4-12UN	6	2	R348N12	R348N12	R348N12
3 7/8-12UN	6	2	R356N12	R356N12	R356N12
4-8UN	10-3/4	5-5/16	R400N8	R400N8	R400N8

### Metric Size Series

Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00
M2 X 0.35	1-3/4	7/16	R020F1	R020F1	R020F1
M2 X 0.4	1-3/4	7/16	R020F	R020F	R020F
M2 X 0.45	1-3/4	7/16	R020	R020	R020
M2.2 X 0.25	1-3/4	7/16	R022F	R022F	R022F
M2.2 X 0.45	1-3/4	7/16	R022	R022	R022
M2.3 X 0.4	1-3/4	7/16	R023	R023	R023
M2.5 X 0.35	1-13/16	1/2	R025F1	R025F1	R025F1
M2.5 X 0.45	1-13/16	1/2	R025F	R025F	R025F
M2.5 X 0.5	1-13/16	1/2	R025	R025	R025
M2.6 X 0.45	1-13/16	1/2	R026	R026	R026
M3 X 0.35	1-15/16	5/8	R030F1	R030F1	R030F1
M3 X 0.5	1-15/16	5/8	R030F	R030F	R030F
M3 X 0.6	1-15/16	5/8	R030	R030	R030
M3.5 X 0.35	2	11/16	R035F	R035F	R035F
M3.5 X 0.6	2	11/16	R035	R035	R035

Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00
M19 X 1.5	4-1/4	2	R190F	R190F	R190F
M19 X 2	4-1/4	2	R190	R190	R190
M20 X 1	4-15/32	2	R200F4	R200F4	R200F4
M20 X 1.25	4-15/32	2	R200F3	R200F3	R200F3
M20 X 1.5	4-15/32	2	R200F2	R200F2	R200F2
M20 X 1.75	4-15/32	2	R200F1	R200F1	R200F1
M20 X 2	4-15/32	2	R200F	R200F	R200F
M20 X 2.5	4-15/32	2	R200	R200	R200
M21 X 1	4-11/16	2-7/32	R210F1	R210F1	R210F1
M21 X 1.5	4-11/16	2-7/32	R210F	R210F	R210F
M21 X 2	4-11/16	2-7/32	R210	R210	R210
M22 X 1	4-11/16	2-7/32	R220F4	R220F4	R220F4
M22 X 1.25	4-11/16	2-7/32	R220F3	R220F3	R220F3
M22 X 1.5	4-11/16	2-7/32	R220F2	R220F2	R220F2
M22 X 1.75	4-11/16	2-7/32	R220F1	R220F1	R220F1

## HSS M2 Fully Ground Hand Taps

### Metric Size Series

Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00	Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00
M4 X 0.35	2-1/8	3/4	R040F2	R040F2	R040F2	M22 X 2	4-11/16	2-7/32	R220F	R220F	R220F
M4 X 0.5	2-1/8	3/4	R040F1	R040F1	R040F1	M22 X 2.5	4-11/16	2-7/32	R220	R220	R220
M4 X 0.7	2-1/8	3/4	R040F	R040F	R040F	M23 X 1.5	4-29/32	2-7/32	R230	R230	R230
M4 X 0.75	2-1/8	3/4	R040	R040	R040	M24 X 1	4-29/32	2-7/32	R240F4	R240F4	R240F4
M4.5 X 0.5	2-3/8	7/8	R045F1	R045F1	R045F1	M24 X 1.25	4-29/32	2-7/32	R240F3	R240F3	R240F3
M4.5 X 0.7	2-3/8	7/8	R045F	R045F	R045F	M24 X 1.5	4-29/32	2-7/32	R240F2	R240F2	R240F2
M4.5 X 0.75	2-3/8	7/8	R045	R045	R045	M24 X 2	4-29/32	2-7/32	R240F1	R240F1	R240F1
M5 X 0.5	2-3/8	7/8	R050F3	R050F3	R050F3	M24 X 2.5	4-29/32	2-7/32	R240F	R240F	R240F
M5 X 0.75	2-3/8	7/8	R050F2	R050F2	R050F2	M24 X 3	4-29/32	2-7/32	R240	R240	R240
M5 X 0.8	2-3/8	7/8	R050F1	R050F1	R050F1	M25 X 1	5-1/8	2-1/2	R250F3	R250F3	R250F3
M5 X 0.9	2-3/8	7/8	R050F	R050F	R050F	M25 X 1.5	5-1/8	2-1/2	R250F2	R250F2	R250F2
M5 X 1.0	2-3/8	7/8	R050	R050	R050	M25 X 2	5-1/8	2-1/2	R250F1	R250F1	R250F1
M5.5 X 0.5	2-3/8	15/16	R055F	R055F	R055F	M25 X 2.5	5-1/8	2-1/2	R250F	R250F	R250F
M5.5 X 0.9	2-3/8	15/16	R055	R055	R055	M25 X 3	5-1/8	2-1/2	R250	R250	R250
M6 X 0.5	2-1/2	1	R060F2	R060F2	R060F2	M26 X 1.5	5-1/8	2-1/2	R260F	R260F	R260F
M6 X 0.75	2-1/2	1	R060F1	R060F1	R060F1	M26 X 2	5-1/8	2-1/2	R260	R260	R260
M6 X 1	2-1/2	1	R060F	R060F	R060F	M27 X 1	4	1-1/2	R270F2	R270F2	R270F2
M6 X 1.25	2-1/2	1	R060	R060	R060	M27 X 1.5	4	1-1/2	R270F1	R270F1	R270F1
M6.3 X 1	2-1/2	1	R063	R063	R063	M27 X 2	5-1/8	2-1/2	R270F	R270F	R270F
M7 X 0.5	2-23/32	1-1/8	R070F2	R070F2	R070F2	M27 X 3	5-1/8	2-1/2	R270	R270	R270
M7 X 0.75	2-23/32	1-1/8	R070F1	R070F1	R070F1	M28 X 1	4	1-1/2	R280F2	R280F2	R280F2
M7 X 1	2-23/32	1-1/8	R070F	R070F	R070F	M28 X 1.5	4	1-1/2	R280F1	R280F1	R280F1
M7 X 1.25	2-23/32	1-1/8	R070	R070	R070	M28 X 2	5-7/16	2-9/16	R280F	R280F	R280F
M8 X 0.5	2-23/32	1-1/8	R080F3	R080F3	R080F3	M28 X 2.5	5-7/16	2-9/16	R280	R280	R280
M8 X 0.75	2-23/32	1-1/8	R080F2	R080F2	R080F2	M29 X 2	5-7/16	2-9/16	R290	R290	R290
M8 X 1	2-23/32	1-1/8	R080F1	R080F1	R080F1	M30 X 1	4	1-1/2	R300F4	R300F4	R300F4
M8 X 1.25	2-23/32	1-1/8	R080F	R080F	R080F	M30 X 1.5	4	1-1/2	R300F3	R300F3	R300F3
M8 X 1.5	2-23/32	1-1/8	R080	R080	R080	M30 X 2	5-7/16	2-9/16	R300F2	R300F2	R300F2
M9 X 0.5	2-15/16	1-1/4	R090F2	R090F2	R090F2	M30 X 2.5	5-7/16	2-9/16	R300F1	R300F1	R300F1
M9 X 0.75	2-15/16	1-1/4	R090F1	R090F1	R090F1	M30 X 3	5-7/16	2-9/16	R300F	R300F	R300F
M9 X 1	2-15/16	1-1/4	R090F	R090F	R090F	M30 X 3.5	5-7/16	2-9/16	R300	R300	R300
M9 X 1.25	2-15/16	1-1/4	R090	R090	R090	M32 X 1.5	4	1-1/2	R320F1	R320F1	R320F1
M10 X 0.5	2-15/16	1-1/4	R100.50	R100F3	R100F3	M32 X 2	5-3/4	2-9/16	R320F	R320F	R320F
M10 X 0.75	2-15/16	1-1/4	R100F2	R100F2	R100F2	M32 X 3	5-3/4	2-9/16	R320	R320	R320
M10 X 1	2-15/16	1-1/4	R100F1	R100F1	R100F1	M33 X 1	4	1-1/2	R330F3	R330F3	R330F3
M10 X 1.25	2-15/16	1-1/4	R100F	R100F	R100F	M33 X 1.5	4	1-1/2	R330F2	R330F2	R330F2
M10 X 1.5	2-15/16	1-1/4	R100	R100	R100	M33 X 2	5-3/4	2-9/16	R330F1	R330F1	R330F1
M11 X 0.5	3-5/32	1-7/16	R110F4	R110F4	R110F4	M33 X 3	5-3/4	2-9/16	R330F	R330F	R330F
M11 X 0.75	3-5/32	1-7/16	R110F3	R110F3	R110F3	M33 X 3.5	5-3/4	2-9/16	R330	R330	R330
M11 X 1	3-5/32	1-7/16	R110F2	R110F2	R110F2	M34 X 3.5	6-1/16	3	R340	R340	R340
M11 X 1.25	3-5/32	1-7/16	R110F1	R110F1	R110F1	M35 X 1	4	1-1/2	R350F2	R350F2	R350F2
M11 X 1.5	3-5/32	1-7/16	R110F	R110F	R110F	M35 X 1.5	4	1-1/2	R350F1	R350F1	R350F1
M11 X 1.75	3-5/32	1-7/16	R110	R110	R110	M35 X 2	6-1/16	3	R350F	R350F	R350F
M12 X 0.5	3-3/8	1-21/32	R120F4	R120F4	R120F4	M35 X 3	6-1/16	3	R350	R350	R350
M12 X 0.75	3-3/8	1-21/32	R120F3	R120F3	R120F3	M36 X 1.5	4	1-1/2	R360F2	R360F2	R360F2
M12 X 1	3-3/8	1-21/32	R120F2	R120F2	R120F2	M36 X 2	6-1/16	3	R360F1	R360F1	R360F1
M12 X 1.25	3-3/8	1-21/32	R120F1	R120F1	R120F1	M36 X 3	6-1/16	3	R360F	R360F	R360F
M12 X 1.5	3-3/8	1-21/32	R120F	R120F	R120F	M36 X 4	6-1/16	3	R360	R360	R360
M12 X 1.75	3-3/8	1-21/32	R120	R120	R120	M38 X 1.5	4	1-1/2	R380F	R380F	R380F
M13 X 0.5	3-3/8	1-21/32	R130F5	R130F5	R130F5	M38 X 4	6-3/8	3	R380	R380	R380

## HSS M2 Fully Ground Hand Taps

### Metric Size Series

Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00	Size	OAL	FL	HTM02W00	HPM02W00	HBM02W00
M13 X 0.75	3-3/8	1-21/32	R130F4	R130F4	R130F4	M39 X 1.5	5	2	R390F2	R390F2	R390F2
M13 X 1	3-3/8	1-21/32	R130F3	R130F3	R130F3	M39 X 2	5	2	R390F1	R390F1	R390F1
M13 X 1.25	3-3/8	1-21/32	R130F2	R130F2	R130F2	M39 X 3	6-11/16	3-3/16	R390F	R390F	R390F
M13 X 1.5	3-3/8	1-21/32	R130F1	R130F1	R130F1	M39 X 4	6-11/16	3-3/16	R390	R390	R390
M13 X 1.75	3-3/8	1-21/32	R130F	R130F	R130F	M40 X 1.5	5	2	R400F2	R400F2	R400F2
M13 X 2	3-3/8	1-21/32	R130	R130	R130	M40 X 2	5	2	R400F1	R400F1	R400F1
M14 X 0.5	3-19/32	1-21/32	R140F5	R140F5	R140F5	M40 X 2.5	5	2	R400F	R400F	R400F
M14 X 0.75	3-19/32	1-21/32	R140F4	R140F4	R140F4	M40 X 3	6-11/16	3-3/16	R400	R400	R400
M14 X 1	3-19/32	1-21/32	R140F3	R140F3	R140F3	M42 X 1.5	5	2	R420F2	R420F2	R420F2
M14 X 1.25	3-19/32	1-21/32	R140F2	R140F2	R140F2	M42 X 2	5	2	R420F1	R420F1	R420F1
M14 X 1.5	3-19/32	1-21/32	R140F1	R140F1	R140F1	M42 X 3	7	3-3/16	R420F	R420F	R420F
M14 X 1.75	3-19/32	1-21/32	R140F	R140F	R140F	M42 X 4.5	7	3-3/16	R420	R420	R420
M14 X 2	3-19/32	1-21/32	R140	R140	R140	M44 X 2	5	2	R440	R440	R440
M15 X 1	3-13/16	1-13/16	R150F2	R150F2	R150F2	M45 X 1.5	5	2	R450F3	R450F3	R450F3
M15 X 1.25	3-13/16	1-13/16	R150F1	R150F1	R150F1	M45 X 2	5	2	R450F2	R450F2	R450F2
M15 X 1.5	3-13/16	1-13/16	R150F	R150F	R150F	M45 X 3	7-5/16	3-9/16	R450F1	R450F1	R450F1
M15 X 2	3-13/16	1-13/16	R150	R150	R150	M45 X 4	7-5/16	3-9/16	R450F	R450F	R450F
M16 X 0.5	3-13/16	1-13/16	R160F4	R160F4	R160F4	M45 X 4.5	7-5/16	3-9/16	R450	R450	R450
M16 X 0.75	3-13/16	1-13/16	R160F3	R160F3	R160F3	M46 X 2	5	2	R460	R460	R460
M16 X 1	3-13/16	1-13/16	R160F2	R160F2	R160F2	M48 X 1.5	5	2	R480F4	R480F4	R480F4
M16 X 1.5	3-13/16	1-13/16	R160F1	R160F1	R160F1	M48 X 2	5	2	R480F3	R480F3	R480F3
M16 X 1.75	3-13/16	1-13/16	R160F	R160F	R160F	M48 X 3	7-5/8	3-9/16	R480F2	R480F2	R480F2
M16 X 2	3-13/16	1-13/16	R160	R160	R160	M48 X 4	7-5/8	3-9/16	R480F1	R480F1	R480F1
M17 X 1	4-1/32	1-13/16	R170F2	R170F2	R170F2	M48 X 4.5	7-5/8	3-9/16	R480F	R480F	R480F
M17 X 1.25	4-1/32	1-13/16	R170F1	R170F1	R170F1	M48 X 5	7-5/8	3-9/16	R480	R480	R480
M17 X 1.5	4-1/32	1-13/16	R170F	R170F	R170F	M50 X 1.5	5	2	R500F2	R500F2	R500F2
M17 X 2	4-1/32	1-13/16	R170	R170	R170	M50 X 2	5	2	R500F1	R500F1	R500F1
M18 X 1	4-1/32	1-13/16	R180F4	R180F4	R180F4	M50 X 3	7-5/8	3-9/16	R500F	R500F	R500F
M18 X 1.25	4-1/32	1-13/16	R180F3	R180F3	R180F3	M50 X 5	7-5/8	3-9/16	R500	R500	R500
M18 X 1.5	4-1/32	1-13/16	R180F2	R180F2	R180F2	M52 X 1.5	5-1/4	2	R520F3	R520F3	R520F3
M18 X 1.75	4-1/32	1-13/16	R180F1	R180F1	R180F1	M52 X 2	5-1/4	2	R520F2	R520F2	R520F2
M18 X 2	4-1/32	1-13/16	R180F	R180F	R180F	M52 X 3	8	3-9/16	R520F1	R520F1	R520F1
M18 X 2.5	4-1/32	1-13/16	R180	R180	R180	M52 X 4	8	3-9/16	R520F	R520F	R520F
M19 X 1	4-1/4	2	R190F1	R190F1	R190F1	M52 X 5	8	3-9/16	R520	R520	R520