








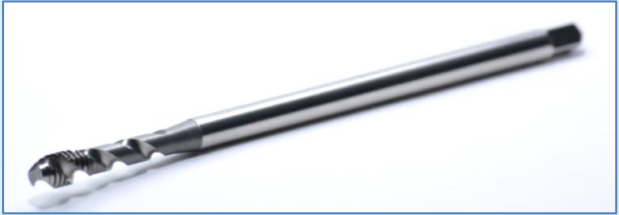







スパイラルタップ シリーズ Spiral Fluted Tap series (SFT)

製品 (Items)	Symbol	用途 (Description)
<p>一般用 (General Application)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT SFT-OX	<p>止まり穴や、切りくずをタップの進行方向と反対側に排出したい場合に使用します。また、コイル状の切りくずが排出される場合に適します。It is for blind holes. Suitable for the materials where chips come out in coil shape.</p> <p>表面処理 ホモまたは無処理。(Surface: OX or Bright)</p>
<p>Jタイプ (JIS Type)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	J-SFT J-SFT-OX	<p>JIS規格の形状・寸法で作られています。Thread length is same as JIS Taps.</p> <p>表面処理 ホモまたは無処理。(Surface: OX or Bright)</p>
<p>ステンレス用 (Stainless Steel)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT-SUS	<p>ステンレス鋼、炭素鋼、合金鋼に適します。Suitable for tapping in materials such as Stainless steels, Heat resistant steels, Carbon steels and Alloy steels.</p> <p>表面処理 ホモ。(Surface: OX)</p>
<p>深穴用 (Deep Holes)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT-DH	<p>一般用に比べ切りくずの排出性に優れ、特にネジ立て長さが1.5D以上の深穴に効果があります。Suitable for tapping where damage is cause by chip packing</p> <p>表面処理 ホモ。(Surface: OX)</p>
<p>チタンコーティング (TiN Coated)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT-TiN	<p>耐溶着性、耐摩耗性に優れ、炭素鋼やステンレス鋼に適します。TiN coating has a good welding resistance and good wear resistance. It is suitable for Carbon steels and Stainless steels</p> <p>表面処理 TiN。(Surface: TiN)</p>
<p>TiCNコーティング (TiCN Coated)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT-TiCN	<p>TiNに比べ耐摩耗性に優れ、幅広い被削材に使用できます。TiCN coating has excellent wear resistance. It is suitable for tapping in soft materials and hard materials.</p> <p>表面処理 TiCN。(Surface: TiCN)</p>
<p>ロングシャンク (Long Shank)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	LTSFT LTSFT-OX	<p>全長が100mm 120mm 150mm 200mm 250mm のロングシリーズを用意しています。ただし、サイズにより製作可能範囲が異なります。We have several overall length 100mm, 120mm, 150mm, 200mm, 250mm.</p> <p>表面処理 ホモまたは無処理。(Surface: OX or Bright)</p>
<p>アルミ用 (Aluminium)</p>  <p>材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches</p>	SFT-AI	<p>アルミ用に設計されたタップで、一般のタップでは切りくずが柔らかく排出に問題がある場合に適します。Suitable for tapping in materials such as Aluminium. It is two flutes type.</p> <p>表面処理 無し。(Surface: Bright)</p>
<p>粉末ハイス特殊タップ (CPM Special designed Spiral fluted Taps)</p>		
 <p>CPM SFT15-TiN Flat center M6</p>		 <p>CPM LTSFT-AL 2F L=150 M6x1 HL3</p>
 <p>CPM SFT15-TiCN Flat center M5</p>		

ポイントタップ シリーズ Spiral Pointed Tap series (POT)

製品 (Items)	Symbol	用途 (Description)
一般用 General Application  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	POT POT-OX	貫通穴用で、コイル状の切りくずが排出される場合に適します。It is for through holes. Materials where chips come out in coil shape. 表面処理 ホモまたは無処理。(Surface: OX or Bright)
Jタイプ (JIS Type)  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	J-POT J-POT-OX	JIS規格の形状・寸法で作られています。Thread length is same as JIS Taps. 表面処理 ホモまたは無処理。(Surface: OX or Bright)
ステンレス用 (Stainless Steel)  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	POT-SUS	ステンレス鋼、炭素鋼、合金鋼に適します。Suitable for tapping in materials such as Stainless steels, Heat resistant steels, Carbon steels and Alloy steels. 表面処理 ホモ。(Surface: OX)
深穴用 (Deep Holes)  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	POT-DH	特にネジ立て長さが1.5D以上の深穴に効果があります。Suitable for tapping where damage is cause by chip packing 表面処理 ホモ。(Surface: OX)
チタンコーティング (TiN Coated)  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	POT-TiN	耐溶着性、耐摩耗性に優れ、炭素鋼やステンレス鋼に適します。TiN coating has a good welding resistance and good wear resistance. It is suitable for Carbon steels and Stainless steels 表面処理 TiN。(Surface: TiN)
TiCNコーティング (TiCN Coated)  材質 (Material): HSSE 食付 (Chamfer Length): 5pitches	POT-TiCN	TiNに比べ耐摩耗性に優れ、幅広い被削材に使用できます。TiCN coating has excellent wear resistance. It is suitable for tapping in soft materials and hard materials. 表面処理 TiCN。(Surface: TiCN)
ロングシャンク (Long Shank)  材質 (Material): HSS 食付 (Chamfer Length): 5pitches	LTPOT LTPOT-OX	全長が100mm 120mm 150mm 200mm 250mmのロングシリーズを用意しています。ただし、サイズにより製作可能範囲が異なります。We have several overall length 100mm, 120mm, 150mm, 200mm, 250mm. 表面処理 ホモまたは無処理。(Surface: OX or Bright)

フォーミングタップ シリーズ Forming Tap series (FT)

製品 (Items)	Symbol	用途 (Description)
非鉄金属用 (Non-ferrous material)  食付 (Chamfer length): Ptype 4p, Btype 2p	HSSE FT	アルミ、亜鉛、銅などの非鉄金属に適します。It is for non-ferrous materials such as aluminum, zinc and copper 表面処理 無し。(Surface: Bright)
スチール用 (Steel)  食付 (Chamfer length): Ptype 4p, Btype 2p	HSSE FT-OX	It is for steels such as low carbon steels, alloy steels and stainless steels. 表面処理 ホモ。(Surface: OX)
チタンコーティング (TiN Coated)  食付 (Chamfer length): Ptype 4p, Btype 2p	HSSE FT-TiN	耐溶着性、耐摩耗性に優れてます。TiN coating has a good welding resistance and good wear resistance. 表面処理 TiN。(Surface: TiN)
TiCNコーティング (TiCN Coated)  食付 (Chamfer length): Ptype 4p, Btype 2p	HSSE FT-TiCN	耐摩耗性に優れ、炭素鋼やステンレス鋼に適します。TiN coating has a good welding resistance and good wear resistance. It is suitable for Carbon steels and Stainless steels 表面処理 TiCN。(Surface: TiCN)
粉末ハイス特殊タップ CPM TiCN LTFT L=150 TiCN BH 		

英式管用タップ シリーズ Pipe thread Tap series

★1982年のISO導入によりJIS規格が改正され、下記のように記号が変更されましたが、ねじ部精度については変更されていません。
(In 1982, the JIS Pipe Standard was revised according to ISO Standard and the symbol was changed. But the limits was not changed.)

【PT・Rc 管用テーパねじ】

管用テーパ雌ねじ加工に使用します。パイプの接続などのようにねじが長い場合は、標準タイプを使用し、エルボやチーズのようにねじが短い場合は、短ねじタイプを使用します。(Used in order to process taper pipe internal thread. There is standard thread length type and short thread length type.)

◎雌ねじの種類: 耐密用テーパ雌ねじ。(Type of thread : Taper pipe threads for pressure-tight joints.)

◎記号: PT (新記号: Rc) (Symbol: PT (New symbol: Rc))

【PS・Rp 管用平行ねじ】

管用テーパ雌ねじの平行雌ねじ、および管用平行雌ねじ加工に使用します。Used for tapping parallel pipe internal thread.

◎雌ねじの種類: 耐密用平行雌ねじ。(Type of thread: Parallel pipe threads for pressure-tight joints.)



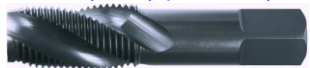





◎記号: PS (新記号: Rp) (Symbol: PS (New symbol: Rp))

【PF・G 管用平行ねじ】





管用テーパ雌ねじの平行雌ねじ、および管用平行雌ねじ加工に使用します。Used for tapping parallel pipe internal thread.

◎雌ねじの種類: 機械的結合用平行雌ねじ。(Type of thread: Parallel pipe threads for mechanical joints.)


◎記号: PF (新記号: G) (Symbol: PF (New symbol: G))

製品 (Items)	Symbol	用途 (Description)	
一般用PT(Rc) (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PT PT-OX	表面処理: ホモ または 無処理。 (Surface : OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
短ネジPT(Rc) (Short thread type)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PT-S PT-S-OX	表面処理: ホモ または 無処理。 (Surface : OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル PT(Rc) (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PTSFT PTSFT-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
インターラップ PT(Rc) (Interrupted Thread)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	INT	ステンレス鋼や耐熱合金などに適します。また、溝は左弱ねじになっています。(It is suitable for stainless steels and Heat resistant alloys.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
ロングシャンク PT(Rc) (Long Shank)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	LTPT LTPT-OX	全長が100mm 120mm 150mm 200mm 250mm のロングシリーズを用意しています。ただし、サイズにより製作可能範囲が異なります。We have several overall length 100mm, 120mm, 150mm, 200mm, 250mm. 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
一般用PF(G) and PS(Rp) (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PP PP-OX	表面処理: ホモ または 無処理。 (Surface : OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル PF(G) and PS(Rp) (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PPSFT PPSFT-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
ロングシャンクPF(G) and PS(Rp) (Long Shank)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	LTPT	全長が100mm 120mm 150mm 200mm 250mm のロングシリーズを用意しています。ただし、サイズにより製作可能範囲が異なります。We have several overall length 100mm, 120mm, 150mm, 200mm, 250mm. 表面処理: ホモまたは無処理。(Surface: OX or Bright)	

米式管用タップ シリーズ American pipe thread Tap series






製品 (Items)	Symbol	用途 (Description)	
一般用NPT (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PT PT-OX	米式管用テーパねじ。 American taper pipe thread. 表面処理: ホモ または 無処理。 (Surface: OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル NPT (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	SFTPT SFTPT-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
一般用 NPS (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	PP PP-OX	米式管用平行ねじ。 American parallel pipe thread. 表面処理: ホモ または 無処理。 (Surface: OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル NPS (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	SFTPP SFTPP-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	

BS規格管用タップ シリーズ BS pipe thread Tap series

製品 (Items)	Symbol	用途 (Description)	
一般用BSPT (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 1.5 & 4 pitches	PT PT-OX	BS規格管用テーパねじ。 BS taper pipe thread. 表面処理: ホモ または 無処理。 (Surface: OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル BSPT (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	SFTPT SFTPT-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	
一般用 BSP (General Application)  材質 (Material): HSS 食付 (Chamfer Length): 1.5 & 4 pitches	PP PP-OX	BS規格管用平行ねじ。 BS parallel pipe thread. 表面処理: ホモ または 無処理。 (Surface: OX or Bright)	SKSシリーズもあります。 (SKS series is also available.)
スパイラル BSP (Spiral fluted)  材質 (Material): HSS 食付 (Chamfer Length): 2.5pitches	SFTPP SFTPP-OX	切りくずがコイル状に排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 表面処理: ホモまたは無処理。(Surface: OX or Bright)	





ハンドタップ シリーズ Hand Tap series (HT)

★CL: 食付き長さ (Chamfer Length)

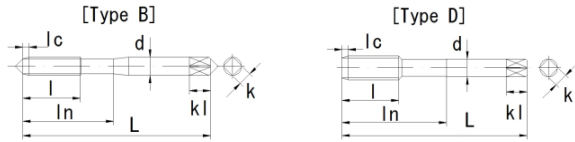
製品 (Items)	Symbol	用途 (Description)
3φシャंकSKS2 シリーズ(Small Dia.)  CL: #1 (Taper) 9p, #2 (Plug) 5p, #3 (Bottom) 1.5p	HT	対象範囲: M0.9×0.25~M2.6×0.45 SKS2材の持つ靱性を生かした商品となっており、高いコストパフォーマンスが特長です。また、当社のSHコートと合わせることで、特にアルミやマグネシウム合金などの加工に適します。
SKS2 一般用 General Application  CL: #1 (Taper) 9p, #2 (Plug) 5p, #3 (Bottom) 1.5p	HT	もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップは、JIS Class III以上の品質で製造されています。 表面処理: 無処理 (Surface: Bright)
HSS 一般用 General Application  CL: #1 (Taper) 9p, #2 (Plug) 5p, #3 (Bottom) 1.5p	HT	このタップはJIS Class IIの品質で製造されています。母材にHSS材を使用することで、連続加工にも適します。ただし、切りくずがコイル状に連続して排出される被削材の場合は、SFTやPOTをお使いください。 表面処理: 無処理 (Surface: Bright)
ステンレス用 Stainless Steels (HSS)  CL: #1 (Taper) 9p, #2 (Plug) 5p, #3 (Bottom) 1.5p	HT-SUS	ステンレス鋼、炭素鋼、合金鋼に適します。Suitable for tapping in materials such as Stainless steels, Heat resistant steels, Carbon steels and Alloy steels. 表面処理: ホモ。(Surface: OX)
ロングシャंक Long Shank (HSS)  CL: #1 (Taper) 9p, #2 (Plug) 5p, #3 (Bottom) 1.5p	LT	全長が100mm 120mm 150mm 200mm 250mmのロングシリーズを用意しています。ただし、サイズにより製作可能範囲が異なります。We have several overall length 100mm, 120mm, 150mm, 200mm, 250mm. 表面処理: ホモまたは無処理。(Surface: OX or Bright)

六角軸工具 (HEX Shank series)

★インパクトドライバー用工具 (HEX Shank series is for impact driver use.)

製品 (Items)	Symbol	用途 (Description)
スパイラルタップ Spiral Fluted  材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches	HEX-SFT	止まり穴や、切りくずを進行方向と反対側に排出したい場合にご使用ください。It is suitable for blind holes. Surface: Bright
ポイントタップ Spiral Pointed  材質 (Material): HSSE 食付 (Chamfer Length): 2.5pitches	HEX-POT	貫通穴用です。 It is suitable for through holes Surface: Bright
ドリル付タップ Drill with Tap  材質 (Material): HSSE	HEX-DR-SFT	この一本でドリルとタップの加工ができます。ドリルの加工可能板厚は5mmとなっています。また、既になら穴がある場合でも、ドリル部をガイドとして使うことにより、より安定したネジ立てが可能です。 Surface: Bright
面取り Countersink  材質 (Material): HSS	HEX-CD I	バリ取りや面取りに使用します。インパクトドライバー用に刃部を設計しています。 Surface: Bright

ミリねじ スパイラルタップ Spiral Fluted Tap (Metric)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：35° 右入れ 1山 (Type of flute: 35° right spiral flute.)
- ③材質：HSSE (Material) ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

- 1. 止まり穴用。(For Blind Holes)
- 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape)

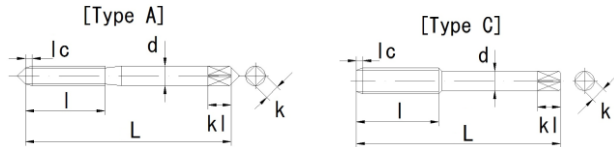
表1 M SFT Table 1

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

Dia	SIZE		OX CODE	Bright CODE	L	l	ln	d	K	Kl	Type	F	HL
	×	Pitch											
M3	×	0.5	FGVB3.0G	FGBB3.0G	46	11	19	4.0	3.2	6	B	3	2
M3	×	0.6	FGVA3.0H	FGBA3.0H	46	11	19	4.0	3.2	6	B	3	1
M3.5	×	0.6	FGVB3.5H	FGBB3.5H	48	13	20	4.0	3.2	6	B	3	1
M4	×	0.7	FGVB4.0I	FGBB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	×	0.8	FGVB5.0K	FGBB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	×	1	FGVB6.0M	FGBB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	×	1.25	FGVB8.0N	FGBB8.0N	70	22	37	6.2	5.0	8	D	3	2
M10	×	1.5	FGVB0100	FGBB0100	75	24	41	7.0	5.5	8	D	3	2
M12	×	1.75	FGVB012P	FGBB012P	82	29	48	8.5	6.5	9	D	3	2
M14	×	2	FGVB014Q	FGBB014Q	88	30	48	10.5	8.0	11	D	3	2
M16	×	2	FGVB016Q	FGBB016Q	95	32	52	12.5	10.0	13	D	3	2
M18	×	2.5	FGVC018R	FGBC018R	100	37	55	14.0	11.0	14	D	4	3
M20	×	2.5	FGVC020R	FGBC020R	105	37	58	15.0	12.0	15	D	4	3
M22	×	2.5	FGVC022R	FGBC022R	115	38	63	17.0	13.0	16	D	4	3
M24	×	3	FGVC024S	FGBC024S	120	45	66	19.0	15.0	18	D	4	3
M27	×	3	FOGVC027S	FOGBC027S	130	45	71	20.0	15.0	18	D	4	3
M30	×	3.5	FOGVC030T	FOGBC030T	135	48	74	23.0	17.0	20	D	4	3
M33	×	3.5	FOGVH033T	FOGBH033T	145	51	77	25.0	19.0	22	D	4	JIS2
M36	×	4	FOGVH036U	FOGBH036U	155	57	82	28.0	21.0	24	D	4	JIS2
M39	×	4	FOGVH039U	FOGBH039U	165	60	87	30.0	23.0	26	D	4	JIS2
M42	×	4.5	FOGVH042V	FOGBH042V	175	60	93	32.0	26.0	30	D	4	JIS2
M45	×	4.5	FOGVH045V	FOGBH045V	180	67	95	35.0	26.0	30	D	4	JIS2
M48	×	5	FOGVH048W	FOGBH048W	185	67	98	38.0	29.0	32	D	4	JIS2

ミリねじ J形スパイラルタップ JIS Spiral Fluted Tap (Metric)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
 ②溝形状：35° 右ねじ用 (Type of flute: 35° right spiral flute)
 ③材質：HSSE (Material) ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

1. 止まり穴用。(For Blind Holes.)
 2. 切りくすが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.)

表2 MJ SFT **Table 2**

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

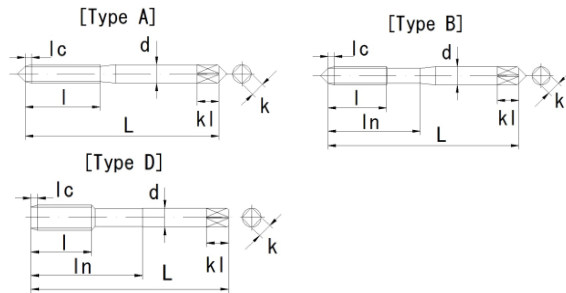
(Unit: mm)

SIZE		OX	Bright	L	l	d	K	kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M2	× 0.4	FGJVA2.0E	FGJBA2.0E	40	15	3.0	2.5	5	A	2	1
M2.3	× 0.4	FGJVA2.3E	FGJBA2.3E	42	15	3.0	2.5	5	A	2	1
M2.5	× 0.45	FGJVA2.5F	FGJBA2.5F	44	16	3.0	2.5	5	A	2	1
M2.6	× 0.45	FGJVA2.6F	FGJBA2.6F	44	16	3.0	2.5	5	A	2	1
M3	× 0.5	FGJVB3.0G	FGJBB3.0G	46	18	4.0	3.2	6	A	3	2
M3	× 0.6	FGJVA3.0H	FGJBA3.0H	46	18	4.0	3.2	6	A	3	1
M3.5	× 0.6	FGJVB3.5H	FGJBB3.5H	48	18	4.0	3.2	6	A	3	1
M4	× 0.7	FGJVB4.0I	FGJBB4.0I	52	20	5.0	4.0	7	A	3	2
M4	× 0.75	FGJVB4.0J	FGJBB4.0J	52	20	5.0	4.0	7	A	3	2
M4.5	× 0.75	FGJVB4.5J	FGJBB4.5J	55	20	5.0	4.0	7	A	3	2
M5	× 0.8	FGJVB5.0K	FGJBB5.0K	60	22	5.5	4.5	7	A	3	2
M5	× 0.9	FGJVB5.0L	FGJBB5.0L	60	22	5.5	4.5	7	A	3	2
M5.5	× 0.9	FGJVB5.5L	FGJBB5.5L	60	22	5.5	4.5	7	A	3	2
M5.5	× 0.75	FGJVB5.5J	FGJBB5.5J	60	22	5.5	4.5	7	A	3	2
M6	× 1	FGJVB6.0M	FGJBB6.0M	62	24	6.0	4.5	7	A	3	2
M6	× 0.75	FGJVB6.0J	FGJBB6.0J	62	20	6.0	4.5	7	A	3	2
M7	× 1	FGJVB7.0M	FGJBB7.0M	65	26	6.2	5.0	8	C	3	2
M7	× 0.75	FGJVB7.0J	FGJBB7.0J	62	20	6.2	5.0	8	C	3	2
M8	× 1.25	FGJVB8.0N	FGJBB8.0N	70	30	6.2	5.0	8	C	3	2
M8	× 1	FGJVB8.0M	FGJBB8.0M	70	30	6.2	5.0	8	C	3	2
M8	× 0.75	FGJVB8.0J	FGJBB8.0J	62	20	6.2	5.0	8	C	3	2
M9	× 1.25	FGJVB9.0N	FGJBB9.0N	72	30	7.0	5.5	8	C	3	2
M9	× 1	FGJVB9.0M	FGJBB9.0M	70	30	7.0	5.5	8	C	3	2
M9	× 0.75	FGJVB9.0J	FGJBB9.0J	62	20	7.0	5.5	8	C	3	2
M10	× 1.5	FGJVB0100	FGJBB0100	75	32	7.0	5.5	8	C	3	2
M10	× 1.25	FGJVB010N	FGJBB010N	75	32	7.0	5.5	8	C	3	2
M10	× 1	FGJVB010M	FGJBB010M	70	30	7.0	5.5	8	C	3	2
M10	× 0.75	FGJVB010J	FGJBB010J	62	20	7.0	5.5	8	C	3	2
M11	× 1.5	FGJVB0110	FGJBB0110	80	38	8.0	6.0	9	C	3	2
M11	× 1.25	FGJVB011N	FGJBB011N	80	38	8.0	6.0	9	C	3	2
M11	× 1	FGJVB011M	FGJBB011M	70	30	8.0	6.0	9	C	3	2
M11	× 0.75	FGJVB011J	FGJBB011J	62	20	8.0	6.0	9	C	3	2
M12	× 1.75	FGJVB012P	FGJBB012P	82	38	8.5	6.5	9	C	3	2
M12	× 1.5	FGJVB0120	FGJBB0120	82	38	8.5	6.5	9	C	3	2
M12	× 1.25	FGJVB012N	FGJBB012N	80	38	8.5	6.5	9	C	3	2
M12	× 1	FGJVB012M	FGJBB012M	70	30	8.5	6.5	9	C	3	2
M12	× 0.75	FGJVB012J	FGJBB012J	70	30	8.5	6.5	9	C	3	2
M12	× 0.5	FGJVB012G	FGJBB012G	55	15	8.5	6.5	9	C	3	2
M13	× 1.75	FGJVB013P	FGJBB013P	88	42	9.5	7.0	10	C	3	2
M13	× 1.5	FGJVB0130	FGJBB0130	85	42	9.5	7.0	10	C	3	2
M13	× 1	FGJVB013M	FGJBB013M	70	30	9.5	7.0	10	C	3	2
M14	× 2	FGJVB014Q	FGJBB014Q	88	42	10.5	8.0	11	C	3	2
M14	× 1.5	FGJVB0140	FGJBB0140	88	42	10.5	8.0	11	C	3	2
M14	× 1.25	FGJVB014N	FGJBB014N	88	38	10.5	8.0	11	C	3	2
M14	× 1	FGJVB014M	FGJBB014M	70	30	10.5	8.0	11	C	3	2
M14	× 0.75	FGJVB014J	FGJBB014J	70	30	10.5	8.0	11	C	3	2
M14	× 0.5	FGJVB014G	FGJBB014G	58	15	10.5	8.0	11	C	3	2
M15	× 2	FGJVB015Q	FGJBB015Q	90	42	10.5	8.0	11	C	3	2
M15	× 1.5	FGJVB0150	FGJBB0150	90	42	10.5	8.0	11	C	3	2
M15	× 1	FGJVB015M	FGJBB015M	70	30	10.5	8.0	11	C	3	2

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M16	× 2	FGJVB016Q	FGJBB016Q	95	45	12.5	10.0	13	C	3	2
M16	× 1.5	FGJVB0160	FGJBB0160	95	45	12.5	10.0	13	C	3	2
M16	× 1.25	FGJVB016N	FGJBB016N	95	45	12.5	10.0	13	C	3	2
M16	× 1	FGJVB016M	FGJBB016M	75	35	12.5	10.0	13	C	3	2
M16	× 0.75	FGJVB016J	FGJBB016J	75	35	12.5	10.0	13	C	3	2
M16	× 0.5	FGJVB016G	FGJBB016G	60	15	12.5	10.0	13	C	3	2
M18	× 2.5	FGJVC018R	FGJBC018R	100	48	14.0	11.0	14	C	4	3
M18	× 2	FGJVC018Q	FGJBC018Q	95	45	14.0	11.0	14	C	4	3
M18	× 1.5	FGJVB0180	FGJBB0180	95	45	14.0	11.0	14	C	4	2
M18	× 1	FGJVB018M	FGJBB018M	80	30	14.0	11.0	14	C	4	2
M19	× 2.5	FGJVC019R	FGJBC019R	105	50	14.0	11.0	14	C	4	3
M19	× 2	FGJVB019Q	FGJBB019Q	95	45	14.0	11.0	14	C	4	2
M19	× 1.5	FGJVB0190	FGJBB0190	95	45	14.0	11.0	14	C	4	2
M19	× 1	FGJVB019M	FGJBB019M	80	30	14.0	11.0	14	C	4	2
M20	× 2.5	FGJVC020R	FGJBC020R	105	50	15.0	12.0	15	D	4	3
M20	× 2	FGJVB020Q	FGJBB020Q	95	45	15.0	12.0	15	C	4	3
M20	× 1.5	FGJVB0200	FGJBB0200	95	45	15.0	12.0	15	C	4	2
M20	× 1	FGJVB020M	FGJBB020M	80	30	15.0	12.0	15	C	4	2
M22	× 2.5	FGJVC022R	FGJBC022R	115	55	17.0	13.0	16	C	4	3
M22	× 2	FGJVC022Q	FGJBC022Q	95	45	17.0	13.0	16	C	4	3
M22	× 1.5	FGJVB0220	FGJBB0220	95	45	17.0	13.0	16	C	4	2
M22	× 1	FGJVB022M	FGJBB022M	85	30	17.0	13.0	16	C	4	2
M24	× 3	FGJVC024S	FGJBC024S	120	58	19.0	15.0	18	C	4	3
M24	× 2	FGJVB024Q	FGJBB024Q	95	45	19.0	15.0	18	C	4	3
M24	× 1.5	FGJVB0240	FGJBB0240	95	45	19.0	15.0	18	C	4	2
M24	× 1	FGJVB024M	FGJBB024M	90	30	19.0	15.0	18	C	4	2
M25	× 3	FOGJVC025S	FOGJBC025S	130	62	19.0	15.0	18	C	4	3
M25	× 2	FOGJVY025Q	FOGJBY025Q	95	45	19.0	15.0	18	C	4	3
M25	× 1.5	FOGJVB0250	FOGJBB0250	95	45	19.0	15.0	18	C	4	2
M25	× 1	FOGJVB025M	FOGJBB025M	95	30	19.0	15.0	18	C	4	2
M26	× 3	FOGJVC026S	FOGJBC026S	130	62	20.0	15.0	18	C	4	3
M26	× 2	FOGJVY026Q	FOGJBY026Q	95	45	20.0	15.0	18	C	4	3
M26	× 1.5	FOGJVB0260	FOGJBB0260	95	45	20.0	15.0	18	C	4	2
M26	× 1	FOGJVB026M	FOGJBB026M	95	30	20.0	15.0	18	C	4	2
M27	× 3	FOGJVC027S	FOGJBC027S	130	62	20.0	15.0	18	D	4	3
M27	× 2	FOGJVC027Q	FOGJBC027Q	95	45	20.0	15.0	18	C	4	3
M27	× 1.5	FOGJVB0270	FOGJBB0270	95	45	20.0	15.0	18	C	4	2
M27	× 1	FOGJVB027M	FOGJBB027M	95	30	20.0	15.0	18	C	4	2
M28	3	FOGJVC028S	FOGJBC028S	135	65	21.0	17.0	20	C	4	3
M28	2	FOGJVB028Q	FOGJBB028Q	105	45	21.0	17.0	20	C	4	3
M28	1.5	FOGJVB0280	FOGJBB0280	105	45	21.0	17.0	20	C	4	2
M28	1	FOGJVB028M	FOGJBB028M	105	30	21.0	17.0	20	C	4	2
M30	× 3.5	FOGJVC030T	FOGJBC030T	135	65	23.0	17.0	20	C	4	3
M30	× 3	FOGJVC030S	FOGJBC030S	135	65	23.0	17.0	20	C	4	3
M30	× 2.5	FOGJVC030R	FOGJBC030R	130	62	23.0	17.0	20	C	4	JIS2
M30	× 2	FOGJVC030Q	FOGJBC030Q	105	45	23.0	17.0	20	C	4	3
M30	× 1.5	FOGJVB0300	FOGJBB0300	105	45	23.0	17.0	20	C	4	2
M30	× 1	FOGJVB030M	FOGJBB030M	105	30	23.0	17.0	20	C	4	2
M32	× 3	FOGJVH032S	FOGJBH032S	145	70	24.0	19.0	22	C	4	JIS2
M32	× 2.5	FOGJVH032R	FOGJBH032R	130	62	24.0	19.0	22	C	4	JIS2
M32	× 2	FOGJVH032Q	FOGJBH032Q	105	45	24.0	19.0	22	C	4	JIS2
M32	× 1.5	FOGJVH0320	FOGJBH0320	105	45	24.0	19.0	22	C	4	JIS2
M32	× 1	FOGJVH032M	FOGJBH032M	105	30	24.0	19.0	22	C	4	JIS2
M33	× 3.5	FOGJVH033T	FOGJBH033T	145	70	25.0	19.0	22	C	4	JIS2
M33	× 3	FOGJVH033S	FOGJBH033S	145	70	25.0	19.0	22	C	4	JIS2
M33	× 2	FOGJVH033Q	FOGJBH033Q	110	45	25.0	19.0	22	C	4	JIS2
M33	× 1.5	FOGJVH0330	FOGJBH0330	110	45	25.0	19.0	22	C	4	JIS2
M33	× 1	FOGJVH033M	FOGJBH033M	110	30	25.0	19.0	22	C	4	JIS2
M34	× 2	FOGJVH034Q	FOGJBH034Q	110	45	26.0	21.0	24	C	4	JIS2
M34	× 1.5	FOGJVH0340	FOGJBH0340	110	45	26.0	21.0	24	C	4	JIS2
M35	× 2	FOGJVH035Q	FOGJBH035Q	110	45	26.0	21.0	24	C	4	JIS2
M35	× 1.5	FOGJVH0350	FOGJBH0350	110	45	26.0	21.0	24	C	4	JIS2
M36	× 4	FOGJVH036U	FOGJBH036U	155	75	28.0	21.0	24	C	4	JIS2
M36	× 3	FOGJVH036S	FOGJBH036S	155	75	28.0	21.0	24	C	4	JIS2
M36	× 2	FOGJVH036Q	FOGJBH036Q	110	45	28.0	21.0	24	C	4	JIS2
M36	× 1.5	FOGJVH0360	FOGJBH0360	110	45	28.0	21.0	24	C	4	JIS2
M36	× 1	FOGJVH036M	FOGJBH036M	110	30	28.0	21.0	24	C	4	JIS2

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M37	× 1.5	FOGJVH0370	FOGJBH0370	115	45	28.0	21.0	24	C	4	JIS2
M37	× 1	FOGJVH037M	FOGJBH037M	115	30	28.0	21.0	24	C	4	JIS2
M39	× 4	FOGJVH039U	FOGJBH039U	165	80	30.0	23.0	26	C	4	JIS2
M39	× 3	FOGJVH039S	FOGJBH039S	165	80	30.0	23.0	26	C	4	JIS2
M39	× 2	FOGJVH039Q	FOGJBH039Q	115	45	30.0	23.0	26	C	4	JIS2
M39	× 1.5	FOGJVH0390	FOGJBH0390	115	45	30.0	23.0	26	C	4	JIS2
M39	× 1	FOGJVH039M	FOGJBH039M	115	30	30.0	23.0	26	C	4	JIS2
M40	× 3	FOGJVH040S	FOGJBH040S	165	80	30.0	23.0	26	C	4	JIS2
M40	× 2	FOGJVH040Q	FOGJBH040Q	115	45	30.0	23.0	26	C	4	JIS2
M40	× 1.5	FOGJVH0400	FOGJBH0400	115	45	30.0	23.0	26	C	4	JIS2
M40	× 1	FOGJVH040M	FOGJBH040M	115	30	30.0	23.0	26	C	4	JIS2
M42	× 4.5	FOGJVH042V	FOGJBH042V	175	85	32.0	26.0	30	C	4	JIS2
M42	× 4	FOGJVH042U	FOGJBH042U	175	80	32.0	26.0	30	C	4	JIS2
M42	× 3	FOGJVH042S	FOGJBH042S	175	80	32.0	26.0	30	C	4	JIS2
M42	× 2	FOGJVH042Q	FOGJBH042Q	120	45	32.0	26.0	30	C	4	JIS2
M42	× 1.5	FOGJVH0420	FOGJBH0420	120	45	32.0	26.0	30	C	4	JIS2
M42	× 1	FOGJVH042M	FOGJBH042M	120	30	32.0	26.0	30	C	4	JIS2
M45	× 4.5	FOGJVH045V	FOGJBH045V	180	85	35.0	26.0	30	C	4	JIS2
M45	× 4	FOGJVH045U	FOGJBH045U	180	80	35.0	26.0	30	C	4	JIS2
M45	× 3	FOGJVH045S	FOGJBH045S	180	80	35.0	26.0	30	C	4	JIS2
M45	× 2	FOGJVH045Q	FOGJBH045Q	120	45	35.0	26.0	30	C	4	JIS2
M45	× 1.5	FOGJVH0450	FOGJBH0450	120	45	35.0	26.0	30	C	4	JIS2
M45	× 1	FOGJVH045M	FOGJBH045M	120	30	35.0	26.0	30	C	4	JIS2
M46	× 1.5	FOGJVH0460	FOGJBH0460	125	45	35.0	26.0	30	C	4	JIS2
M48	× 5	FOGJVH048W	FOGJBH048W	185	90	38.0	29.0	32	C	4	JIS2
M48	× 4	FOGJVH048U	FOGJBH048U	180	80	38.0	29.0	32	C	4	JIS2
M48	× 3	FOGJVH048S	FOGJBH048S	180	80	38.0	29.0	32	C	4	JIS2
M48	× 2	FOGJVH048Q	FOGJBH048Q	125	45	38.0	29.0	32	C	4	JIS2
M48	× 1.5	FOGJVH0480	FOGJBH0480	125	45	38.0	29.0	32	C	4	JIS2

ミリねじ ステンレス用スパイラルタップ Spiral Fluted Tap for Stainless Steels (Metric)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：45° 右ねじ (Type of flute: 45° right spiral flute)
- ③材質：HSSE (Material) ④表面処理：ホモ (Surface: OX)

1. 止まり穴用。(For Blind Holes.) 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Materials where chips come out continuously in coil shape.) 3. 特に、ステンレス鋼・耐熱鋼・ニッケルクロムマンガン鋼などに適します。また、炭素鋼や合金鋼にも効果があります。(Suitable for tapping blind holes in materials such as Stainless Steels, Heat Resistant Steels and Nickel-Chrome-Manganese Steels. Also, it is suitable for Carbon Steels, Alloy Steels and equivalent materials.)

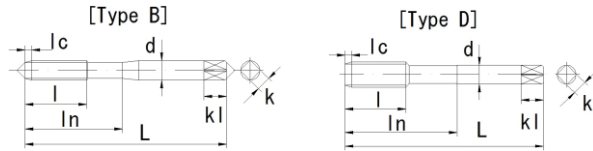
表3 M SFT SUS OX Table 3

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M2	× 0.4	FSJVA2.0E	40	15	-	3.0	2.5	5	A	2	1
M2.5	× 0.45	FSJVB2.5F	44	16	-	3.0	2.5	5	A	2	2
M2.6	× 0.45	FSJVB2.6F	44	16	-	3.0	2.5	5	A	2	2
M3	× 0.5	FSVB3.0G	46	11	19	4.0	3.2	6	B	3	2
M3.5	× 0.6	FSVB3.5H	48	13	20	4.0	3.2	6	B	3	2
M4	× 0.7	FSVB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	FSVB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	FSVB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	FSVC8.0N	70	22	37	6.2	5.0	8	D	3	3
M10	× 1.5	FSVC0100	75	24	41	7.0	5.5	8	D	3	3
M10	× 1.25	FSVC010N	75	24	41	7.0	5.5	8	D	3	3
M12	× 1.75	FSVC012P	82	29	48	8.5	6.5	9	D	3	3
M12	× 1.5	FSVC0120	82	29	48	8.5	6.5	9	D	3	3
M12	× 1.25	FSVC012N	82	29	48	8.5	6.5	9	D	3	3
M14	× 2	FSVC014Q	88	30	48	10.5	8.0	11	D	3	3
M14	× 1.5	FSVC0140	88	30	48	10.5	8.0	11	D	3	3
M16	× 2	FSVC016Q	95	32	52	12.5	10.0	13	D	3	3
M16	× 1.5	FSVC0160	95	32	52	12.5	10.0	13	D	3	3
M18	× 2.5	FSVC018R	100	37	55	14.0	11.0	14	D	4	3
M20	× 2.5	FSVC020R	105	37	58	15.0	12.0	15	D	4	3
M22	× 2.5	FSVD022R	115	38	63	17.0	13.0	16	D	4	4
M24	× 3	FSVD024S	120	45	66	19.0	15.0	18	D	4	4

ミルねじ アルミ用スパイラルタップ Spiral Fluted Tap for Aluminium (Metric)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：45° 右が 1fl (Type of flute: 45° right spiral flute.)
- ③材質：HSSE (Material)
- ④表面処理：無処理 (Surface: Bright.)

- 1. 止まり穴用。(For Blind Holes)
- 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.)
- 3. アルミニウムとその合金、及びアルミダイカストに適します。(Suitable for tapping blind holes in Aluminium, Aluminium Alloys and Aluminium diecastings.)

表4 M SFT AL

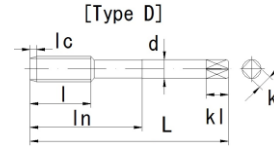
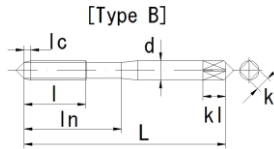
Table 4

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M3	× 0.5	FA2FB3.0G	46	11	19	4.0	3.2	6	B	3	2
M4	× 0.7	FA2FB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	FA2FB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	FA2FB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	FA2FB8.0N	70	22	37	6.2	5.0	8	D	3	2
M10	× 1.5	FA2FB0100	75	24	41	7.0	5.5	8	D	3	2
M12	× 1.75	FA2FB012P	82	29	48	8.5	6.5	9	D	3	2

ミリねじ 深穴用スパイラルタップ Spiral Fluted Tap for Deep Holes (Metric)



①食付き長さ：2.5山 (Chamfer Length 2.5p) ②溝形状：45° 右刃1山 (Type of flute: 45° right spiral flute)
 ③材質：HSSE (Material) ④表面処理：ホモ (Surface: OX)

1. 止まり穴用。(For Blind Holes.) 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape.) 3. 止まり穴のネジ立て長さが通常よりも長く、切りくず等によりタップが損傷しやすい場合に使用します。また、雌ネジのかじりが発生しやすい場合にも効果があります。(Suitable for tapping blind holes where damage is caused by chip packing as well as in case where internal thread bites work material without difficulty.)

表5 M SFT DH OX

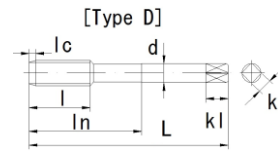
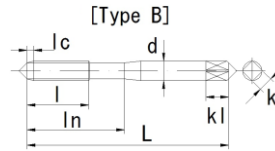
Table 5

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M2	× 0.4	FBSVA2.0E	40		-	3.0	2.5	5		2	1
M2.3	× 0.4	FBSVA2.3E	42		-	3.0	2.5	5		2	1
M2.5	× 0.45	FBSVA2.5F	44		-	3.0	2.5	5		2	1
M2.6	× 0.45	FBSVA2.6F	44		-	3.0	2.5	5		2	1
M3	× 0.5	FBSVB3.0G	46	5	19	4.0	3.2	6	B	3	2
M3	× 0.6	FBSVB3.0H	46	5	19	4.0	3.2	6	B	3	2
M3.5	× 0.6	FBSVB3.5H	48	6	20	4.0	3.2	6	B	3	2
M4	× 0.5	FBSVB4.0G	52	7	21	5.0	4.0	7	B	3	2
M4	× 0.7	FBSVB4.0I	52	7	21	5.0	4.0	7	B	3	2
M5	× 0.8	FBSVB5.0K	60	8	24	5.5	4.5	7	B	3	2
M6	× 1	FBSVB6.0M	62	10	29	6.0	4.5	7	B	3	2
M8	× 1.25	FBSVB8.0N	70	13	37	6.2	5.0	8	D	3	2
M10	× 1.5	FBSVB0100	75	15	41	7.0	5.5	8	D	3	2
M10	× 1.25	FBSVB010N	75	15	41	7.0	5.5	8	D	3	2
M12	× 1.75	FBSVB012P	82	18	48	8.5	6.5	9	D	3	2
M12	× 1.5	FBSVB0120	82	18	48	8.5	6.5	9	D	3	2
M12	× 1.25	FBSVB012N	82	18	48	8.5	6.5	9	D	3	2
M14	× 2	FBSVB014Q	88	20	48	10.5	8.0	11	D	3	2
M14	× 1.5	FBSVB0140	88	20	48	10.5	8.0	11	D	3	2
M16	× 2	FBSVB016Q	95	20	52	12.5	10.0	13	D	3	2
M16	× 1.5	FBSVB0160	95	20	52	12.5	10.0	13	D	3	2
M18	× 2.5	FBSVC018R	100	25	55	14.0	11.0	14	D	4	3
M18	× 1.5	FBSVB0180	100	25	55	14.0	11.0	14	D	4	3
M20	× 2.5	FBSVC020R	105	25	58	15.0	12.0	15	D	4	3
M20	× 1.5	FBSVB0200	105	25	58	15.0	12.0	15	D	4	2
M22	× 2.5	FBSVC022R	115	25	63	17.0	13.0	16	D	4	3
M22	× 1.5	FBSVB0220	115	25	63	17.0	13.0	16	D	4	2
M24	× 3	FBSVC024S	120	30	66	19.0	15.0	18	D	4	3
M24	× 1.5	FBSVB0240	120	30	66	19.0	15.0	18	D	4	2
M27	× 3	FBSVC027S	130	30	71	20.0	15.0	18	D	4	3
M27	× 1.5	FBSVB0270	130	30	71	20.0	15.0	18	D	4	2
M30	× 3.5	FBSVC030T	135	35	74	23.0	17.0	20	D	4	3
M30	× 1.5	FBSVB0300	135	35	74	23.0	17.0	20	D	4	2
M33	× 3.5	FBSVH033T	145	28	77	25.0	19.0	22	D	4	3
M33	× 1.5	FBSVH0330	145	20	77	25.0	19.0	22	D	4	3
M36	× 4	FBSVH036U	155	32	82	28.0	21.0	24	D	4	4
M36	× 1.5	FBSVH0360	155	20	82	28.0	21.0	24	D	4	3

ミリねじ チタンコーティング スパイラルタップ TiN Coated Spiral Fluted Tap (Metric)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p) ②溝形状：35° 右旋1山 (Type of flute: 35° right spiral flute.)
 ③材質：HSSE (Material) ④表面処理：チタンコーティング (Surface: TiN Coating)

1. 止まり穴用。(For Blind Holes.) 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape) 3. TiNコーティングの効果により、耐摩耗性、反溶着性に優れ、低-中炭素鋼、ステンレス鋼、アルミ鍛造品の加工に適します。(TiN coating has a good welding resistance and good wear resistance. It is suitable for carbon steels, stainless steels and aluminium forging.)

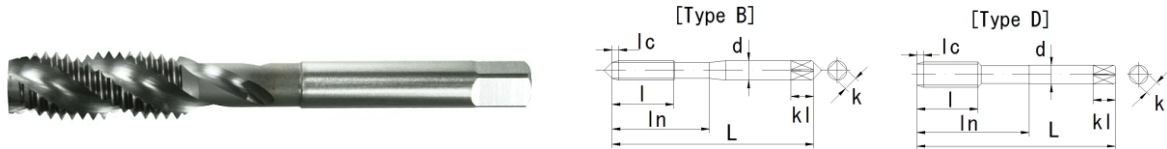
表6 M SFT TiN Table 6

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M3	× 0.5	FGTB3.0G	46	18	19	4.0	3.2	6	B	3	2
M4	× 0.7	FGTB4.0I	52	20	21	5.0	4.0	7	B	3	2
M5	× 0.8	FGTB5.0K	60	22	24	5.5	4.5	7	B	3	2
M6	× 1	FGTB6.0M	62	24	29	6.0	4.5	7	B	3	2
M8	× 1.25	FGTB8.0N	70	30	37	6.2	5.0	8	D	3	2
M10	× 1.5	FGTB0100	75	32	41	7.0	5.5	8	D	3	2
M12	× 1.75	FGTB012P	82	38	48	8.5	6.5	9	D	3	2
M14	× 2	FGTB014Q	88	42	48	10.5	8.0	11	D	3	2
M16	× 2	FGTB016Q	95	45	52	12.5	10.0	13	D	3	2
M18	× 2.5	FGTB018R	100	48	55	14.0	11.0	14	D	4	3
M20	× 2.5	FGTB020R	105	50	58	15.0	12.0	15	D	4	3
M22	× 2.5	FGTC022R	115	55	63	17.0	13.0	16	D	4	3
M24	× 3	FGTC024S	120	58	66	19.0	15.0	18	D	4	3

ミリねじ TiCNコーティング スパイラルタップ TiCN coated Spiral Fluted Tap 'Metric)



①食付き長さ：2.5山 (Chamfer Length 2.5p) ②溝形状：35° 右ねじ (Type of flute: 35° right spiral flute.)
 ③材質：HSSE (Material) ④表面処理：TiCNコーティング (Surface: TiCN Coating)

1. 止まり穴用。(For Blind Holes.) 2. 切りくすが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape) 3. TiCNコーティングに比べ、耐摩耗性、反溶着性に優れ軟質材から硬質材まで幅広く使用できます。(TiCN coating has a good welding resistance and excellent wear resistance. Suitable for tapping blind holes in soft materials and hard materials.)

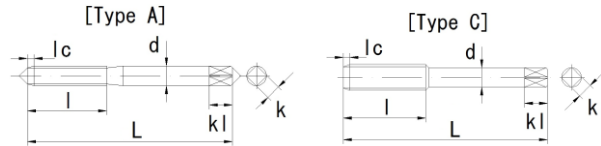
表7 M SFT TiCN Table 7

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M3	× 0.5	FGCB3.0G	46	18	19	4.0	3.2	6	B	3	2
M4	× 0.7	FGCB4.0I	52	20	21	5.0	4.0	7	B	3	2
M5	× 0.8	FGCB5.0K	60	22	24	5.5	4.5	7	B	3	2
M6	× 1	FGCB6.0M	62	24	29	6.0	4.5	7	B	3	2
M8	× 1.25	FGCB8.0N	70	30	37	6.2	5.0	8	D	3	2
M10	× 1.5	FGCB0100	75	32	41	7.0	5.5	8	D	3	2
M12	× 1.75	FGCB012P	82	38	48	8.5	6.5	9	D	3	2
M14	× 2	FGCB014Q	88	42	48	10.5	8.0	11	D	3	2
M16	× 2	FGCB016Q	95	45	52	12.5	10.0	13	D	3	2
M18	× 2.5	FGCC018R	100	48	55	14.0	11.0	14	D	4	3
M20	× 2.5	FGCC020R	105	50	58	15.0	12.0	15	D	4	3
M22	× 2.5	FGCC022R	115	55	63	17.0	13.0	16	D	4	3
M24	× 3	FGCC024S	120	58	66	19.0	15.0	18	D	4	3
M27	× 3	FGCC027S	130	62	71	20.0	15.0	18	D	4	3
M30	× 3.5	FGCC030T	135	65	74	23.0	17.0	20	D	4	3

ミリねじ ロングシャンクスパイラルタップ Long Shank Spiral Fluted Tap (Metric)



①食付き長さ：2.5山 (Chamfer Length 2.5p) ②溝形状：3.5° 右がけ 1山 (Type of flute: 3.5° right spiral flute)
 ③材質：HSSE (Material) ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

1. 止まり穴用。(For Blind Holes) 2. 切りくずが、コイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape) 3. 一般のタップでは長さが不足するような場合に使用します。(Suitable for occasions where a Taps of insufficient length)

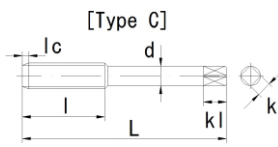
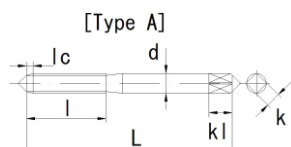
表8 M LTSFT Table 8

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M3	× 0.5	FGVB3.0G10	FGBB3.0G10	100	18	4.0	3.2	6	A	3	2
		FGVB3.0G12	FGBB3.0G12	120	18	4.0	3.2	6	A	3	2
M4	× 0.7	FGVB4.0I10	FGBB4.0I10	100	20	5.0	4.0	7	A	3	2
		FGVB4.0I12	FGBB4.0I12	120	20	5.0	4.0	7	A	3	2
		FGVB4.0I15	FGBB4.0I15	150	20	5.0	4.0	7	A	3	2
M5	× 0.8	FGVB5.0K10	FGBB5.0K10	100	22	5.5	4.5	7	A	3	2
		FGVB5.0K12	FGBB5.0K12	120	22	5.5	4.5	7	A	3	2
		FGVB5.0K15	FGBB5.0K15	150	22	5.5	4.5	7	A	3	2
M6	× 1	FGVB6.0M10	FGBB6.0M10	100	24	6.0	4.5	7	A	3	2
		FGVB6.0M12	FGBB6.0M12	120	24	6.0	4.5	7	A	3	2
		FGVB6.0M15	FGBB6.0M15	150	24	6.0	4.5	7	A	3	2
M8	× 1.25	FGVB8.0N10	FGBB8.0N10	100	30	6.2	5.0	8	C	3	2
		FGVB8.0N12	FGBB8.0N12	120	30	6.2	5.0	8	C	3	2
		FGVB8.0N15	FGBB8.0N15	150	30	6.2	5.0	8	C	3	2
M10	× 1.5	FGVB010010	FGBB010010	100	32	7.0	5.5	8	C	3	2
		FGVB010012	FGBB010012	120	32	7.0	5.5	8	C	3	2
		FGVB010015	FGBB010015	150	32	7.0	5.5	8	C	3	2
M10	× 1.25	FGVB010N10	FGBB010N10	100	32	7.0	5.5	8	C	3	2
		FGVB010N12	FGBB010N12	120	32	7.0	5.5	8	C	3	2
		FGVB010N15	FGBB010N15	150	32	7.0	5.5	8	C	3	2
M12	× 1.75	FGVB012P12	FGBB012P12	120	38	8.5	6.5	9	C	3	2
		FGVB012P15	FGBB012P15	150	38	8.5	6.5	9	C	3	2
M12	× 1.5	FGVB012012	FGBB012012	120	38	8.5	6.5	9	C	3	2
		FGVB012015	FGBB012015	150	38	8.5	6.5	9	C	3	2
M12	× 1.25	FGVB012N12	FGBB012N12	120	38	8.5	6.5	9	C	3	2
		FGVB012N15	FGBB012N15	150	38	8.5	6.5	9	C	3	2
M14	× 2	FGVB014Q15	FGBB014Q15	120	42	10.5	8.0	11	C	3	2
		FGVB014Q20	FGBB014Q20	150	42	10.5	8.0	11	C	3	2
M14	× 1.5	FGVB014012	FGBB014012	120	42	10.5	8.0	11	C	3	2
		FGVB014015	FGBB014015	150	42	10.5	8.0	11	C	3	2
		FGVB016Q15	FGBB016Q15	150	45	12.5	10.0	13	C	3	2
M16	× 2	FGVB016Q20	FGBB016Q20	200	45	12.5	10.0	13	C	3	2
		FGVB016015	FGBB016015	150	45	12.5	10.0	13	C	3	2
M16	× 1.5	FGVB016020	FGBB016020	200	45	12.5	10.0	13	C	3	2
		FGVC018R15	FGBC018R15	150	48	14.0	11.0	14	C	4	3
M18	× 2.5	FGVC018R20	FGBC018R20	200	48	14.0	11.0	14	C	4	3
		FGVB018015	FGBB018015	150	45	14.0	11.0	14	C	4	2
M18	× 1.5	FGVB018020	FGBB018020	200	45	14.0	11.0	14	C	4	2
		FGVC020R15	FGBC020R15	150	50	15.0	12.0	15	C	4	3
M20	× 2.5	FGVC020R20	FGBC020R20	200	50	15.0	12.0	15	C	4	3
		FGVB020015	FGBB020015	150	45	15.0	12.0	15	C	4	2
M20	× 1.5	FGVB020020	FGBB020020	200	45	15.0	12.0	15	C	4	2
		FGVC022R20	FGBC022R20	200	55	17.0	13.0	16	C	4	3
M22	× 2.5	FGVB022020	FGBB022020	200	45	17.0	13.0	16	C	4	2
M24	× 3	FGVC024S20	FGBC024S20	200	58	19.0	15.0	18	C	4	3
M24	× 1.5	FGVB024020	FGBB024020	200	45	19.0	15.0	18	C	4	2

ウィットねじ スパイラルタップ Spiral Fluted Tap (Whitworth)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：35° 右山 1山 (Type of flute: 35° right spiral flute)
- ③材質：HSSE (Material)
- ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

表9 W SFT

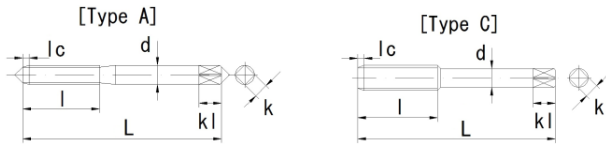
Table 9

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	Kl	Type	F	JC
	CODE	CODE	CODE	CODE								
1/16 - 60	FGJVHW01A2	FGJBHW01A2			40	9.0	3.0	2.5	5.0	A		
1/8 - 40	FGJVHW02G	FGJBHW02G			46	18.0	4.0	3.2	6.0	A	3	2
5/32 - 32	FGJVHW0B1	FGJBHW0B1			52	20.0	5.0	4.0	7.0	A	3	2
3/16 - 24	FGJVHW03L	FGJBHW03L			60	22.0	5.5	4.5	7.0	A	3	2
7/32 - 24	FGJVHW0CL	FGJBHW0CL			60	22.0	5.5	4.5	7.0	A	3	2
1/4 - 20	FGJVHW04M	FGJBHW04M			62	24.0	6.0	4.5	7.0	A	3	2
5/16 - 18	FGJVHW050	FGJBHW050			70	30.0	6.1	5.0	8.0	C	3	2
3/8 - 16	FGJVHW06P	FGJBHW06P			75	35.0	7.0	5.5	8.0	C	3	2
7/16 - 14	FOGJVHW07Q	FOGJBHW07Q			80	38.0	8.0	6.0	9.0	C	3	2
1/2 - 12	FOGJVHW08R	FOGJBHW08R			85	42.0	9.0	7.0	10.0	C	3	2
9/16 - 12	FOGJVHW09R	FOGJBHW09R			90	42.0	10.5	8.0	11.0	C	3	2
W 5/8 - 11	FOGJVHW10T	FOGJBHW10T			95	45.0	12.0	9.0	12.0	C	3	2
3/4 - 10	FOGJVHW12U	FOGJBHW12U			105	50.0	14.0	11	14.0	C	4	2
7/8 - 9	FOGJVHW14V	FOGJBHW14V			115	55.0	17.0	13	16.0	C	4	2
1" - 8	FOGJVHW16W	FOGJBHW16W			125	60.0	20.0	15	18.0	C	4	2
1"1/8 - 7	FOGJVHW18A0	FOGJBHW18A0			135	65.0	22.0	17	20.0	C	4	2
1"1/4 - 7	FOGJVHW20A0	FOGJBHW20A0			145	70.0	24.0	19	22.0	C	4	2
1"3/8 - 6	FOGJVHW22X	FOGJBHW22X			155	75.0	26.0	21	24.0	C	4	2
1"1/2 - 6	FOGJVHW24X	FOGJBHW24X			160	78.0	30.0	23	26.0	C	4	2
1"5/8 - 5	FOGJVHW26Y	FOGJBHW26Y			170	82.0	32.0	26.0	30.0	C		
1"3/4 - 5	FOGJVHW28Y	FOGJBHW28Y			175	85.0	35.0	26.0	30.0	C		
1"7/8 - 4.1/2	FOGJVHW30Z	FOGJBHW30Z			185	90.0	38.0	29.0	32.0	C		
2" - 4.1/2	FOGJVHW32Z	FOGJBHW32Z			195	92.0	40.0	32.0	35.0	C		

ユニファイ並目ねじ スパイラルタップ Spiral Fluted Tap (Unified Coarse)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：35° 右削り 1列 (Type of flute: 35° right spiral flute.)
- ③材質：HSSE (Material)
- ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

表10 UNC SFT

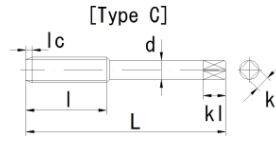
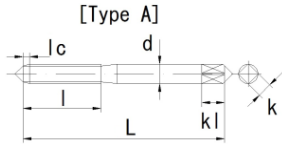
Table 10

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	Kl	Type	F	JC
	CODE	CODE	CODE	CODE								
No.1 - 64	FGJVHUN1C	FGJBHUN1C			36	13	3.0	2.5	5.0	A		
No.2 - 56	FGJVHUN2D	FGJBHUN2D			42	15	3.0	2.5	5.0	A	2	2
No.3 - 48	FGJVHUN3E	FGJBHUN3E			44	16	3.0	2.5	5.0	A		
No.4 - 40	FGJVHUN4G	FGJBHUN4G			44	16	3.0	2.5	5.0	A	3	2
No.5 - 40	FGJVHUN5G	FGJBHUN5G			46	18	4.0	3.2	6.0	A	3	2
No.6 - 32	FGJVHUN6I	FGJBHUN6I			48	18	4.0	3.2	6.0	A	3	2
No.8 - 32	FGJVHUN8I	FGJBHUN8I			52	20	5.0	4.0	7.0	A	3	2
No.10 - 24	FGJVHUNAL	FGJBHUNAL			60	22	5.5	4.5	7.0	A	3	2
No.12 - 24	FGJVHUNBL	FGJBHUNBL			60	22	5.5	4.5	7.0	A	3	2
1/4 - 20	FGJVHU04M	FGJBHU04M			62	24	6.0	4.5	7.0	A	3	2
5/16 - 18	FGJVHU05O	FGJBHU05O			70	30	6.1	5.0	8.0	C	3	2
3/8 - 16	FGJVHU06P	FGJBHU06P			75	35	7.0	5.5	8.0	C	3	2
7/16 - 14	FGJVHU07Q	FGJBHU07Q			80	38	8.0	6	9.0	C	3	2
1/2 - 13	FGJVHU08A1	FGJBHU08A1			85	42	9.0	7	10.0	C	3	2
9/16 - 12	FGJVHU09R	FGJBHU09R			90	42	10.5	8	11.0	C	3	2
5/8 - 11	FGJVHU10T	FGJBHU10T			95	45	12.0	9	12.0	C	3	2
3/4 - 10	FGJVHU12U	FGJBHU12U			105	50	14.0	11	14.0	C	4	2
7/8 - 9	FGJVHU14V	FGJBHU14V			115	55	17.0	13	16.0	C	4	2
1" - 8	FGJVHU16W	FGJBHU16W			125	60	20.0	15	18.0	C	4	2
1"1/8 - 7	FGJVHU18A0	FGJBHU18A0			135	65	22.0	17	20.0	C		
1"1/4 - 7	FGJVHU20A0	FGJBHU20A0			145	70	24.0	19	22.0	C		
1"3/8 - 6	FGJVHU22X	FGJBHU22X			155	75	26.0	21	24.0	C		
1"1/2 - 6	FGJVHU24X	FGJBHU24X			160	78	30.0	23	26.0	C		
1"3/4 - 5	FGJVHU28Y	FGJBHU28Y			175	85	35.0	26	30.0	C		
2" - 4.1/2	FGJVHU32Z	FGJBHU32Z			195	92	40.0	32	35.0	C		

ユニファイ細目ねじ スパイラルタップ Spiral Fluted Tap (Unified Fine)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：35° 右旋 1山 (Type of flute: 35° right spiral flute.)
- ③材質：HSSE (Material)
- ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

表11 UNF SFT

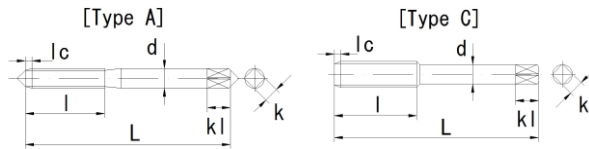
Table 11

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	Kl	Type	F	JC
	CODE	CODE	CODE	CODE								
No.1 - 72	FGJVHUN1B	FGJBHUN1B			36	13	3.0	2.5	5.0	A		
No.2 - 64	FGJVHUN2C	FGJBHUN2C			42	15	3.0	2.5	5.0	A	2	2
No.3 - 56	FGJVHUN3D	FGJBHUN3D			44	16	3.0	2.5	5.0	A		
No.4 - 48	FGJVHUN4E	FGJBHUN4E			44	16	3.0	2.5	5.0	A	3	2
No.5 - 44	FGJVHUN5F	FGJBHUN5F			46	18	4.0	3.2	6.0	A	3	2
No.6 - 40	FGJVHUN6G	FGJBHUN6G			48	18	4.0	3.2	6.0	A	3	2
No.8 - 36	FGJVHUN8H	FGJBHUN8H			52	20	5.0	4.0	7.0	A	3	2
No.10 - 32	FGJVHUNA I	FGJBHUNA I			60	22	5.5	4.5	7.0	A	3	2
No.12 - 28	FGJVHUNBJ	FGJBHUNBJ			60	22	5.5	4.5	7.0	A	3	2
1/4 - 28	FGJVHU04J	FGJBHU04J			62	24	6.0	4.5	7.0	A	3	2
5/16 - 24	FGJVHU05L	FGJBHU05L			70	30	6.1	5.0	8.0	C	3	2
3/8 - 24	FGJVHU06L	FGJBHU06L			75	35	7.0	5.5	8.0	C	3	2
7/16 - 20	FOGJVHU07M	FOGJBHU07M			80	38	8.0	6	9.0	C	3	2
1/2 - 20	FOGJVHU08M	FOGJBHU08M			85	42	9.0	7	10.0	C	3	2
9/16 - 18	FOGJVHU090	FOGJBHU090			90	42	10.5	8	11.0	C	3	2
5/8 - 18	FOGJVHU100	FOGJBHU100			95	45	12.0	9	12.0	C	3	2
3/4 - 16	FOGJVHU12P	FOGJBHU12P			105	50	14.0	11	14.0	C	4	2
7/8 - 14	FOGJVHU14Q	FOGJBHU14Q			115	55	17.0	13	16.0	C	4	2
1" - 12	FOGJVHU16R	FOGJBHU16R			125	60	20.0	15	18.0	C	4	2
1"1/8 - 12	FOGJVHU18R	FOGJBHU18R			135	65	22.0	17	20.0	C		
1"1/4 - 12	FOGJVHU20R	FOGJBHU20R			145	70	24.0	19	22.0	C		
1"3/8 - 12	FOGJVHU22R	FOGJBHU22R			155	75	26.0	21	24.0	C		
1"1/2 - 12	FOGJVHU24R	FOGJBHU24R			160	78	30.0	23	26.0	C		
1"3/4 - 12	FOGJVHU28R	FOGJBHU28R			175	85	35.0	26	30.0	C		
2" - 12	FOGJVHU32R	FOGJBHU32R			195	92	40.0	32	35.0	C		

BS規格ウィットねじ スパイラルタップ Spiral Fluted Tap (British Standard Whitworth)



- ①食付き長さ：2.5山 (Chamfer Length 2.5p)
- ②溝形状：35° 右入/ 1山 (Type of flute: 35° right spiral flute)
- ③材質：HSSE (Material)
- ④表面処理：ホモまたは無処理 (Surface: OX or Bright)

表12 BSW SFT

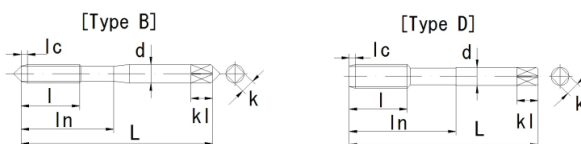
Table 12

*F：溝数。(Number of flutes)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	kl	Type	F	Z
	CODE	CODE	CODE	CODE								
1/16 - 60	FGJVB01A2	FGJBB01A2								A	3	
3/32 - 48	FGJVB0AE	FGJBB0AE								A		
1/8 - 40	FGJVB02G	FGJBB02G			49	16.0	3.3	2.7	4.5	A	3	3
5/32 - 32	FGJVB0BI	FGJBB0BI			54	19.0	4.0	3.1	6.5	A	3	3
3/16 - 24	FGJVB03L	FGJBB03L			61	22.0	4.8	3.8	6.5	A	3	3
7/32 - 24	FGJVB0CL	FGJBB0CL								A	3	3
1/4 - 20	FGJVB04M	FGJBB04M			64	25.0	6.4	5.0	7.0	A	3	3
5/16 - 18	FGJVB05O	FGJBB05O			70	28.0	8.0	6.1	10.3	C	4	3
3/8 - 16	FGJVB06P	FGJBB06P			75	32.0	9.5	7.5	10.3	C	4	3
7/16 - 14	F0GJVB07Q	F0GJBB07Q			80	36.5	8.2	6.1	10.5	C	4	3
1/2 - 12	F0GJVB08R	F0GJBB08R			86	42.0	9.3	7.0	11.0	C	4	3
9/16 - 12	F0GJVB09R	F0GJBB09R			91	42.0	10.9	8.2	12.7	C	4	3
5/8 - 11	F0GJVB10T	F0GJBB10T			97	46.0	12.2	9.1	14.0	C	4	3
3/4 - 10	F0GJVB12U	F0GJBB12U			108	51.0	15.0	11.2	17.5	C	4	3
7/8 - 9	F0GJVB14V	F0GJBB14V			119	56.5	17.7	13.3	19.0	C	4	3
1" - 8	F0GJVB16W	F0GJBB16W			130	63.5	20.3	15.2	20.5	C	4	3
1"1/8 - 7	F0GJVB18A0	F0GJBB18A0								C	4	
1"1/4 - 7	F0GJVB20A0	F0GJBB20A0								C	4	
1"3/8 - 6	F0GJVB22X	F0GJBB22X								C	4	
1"1/2 - 6	F0GJVB24X	F0GJBB24X								C	4	
1"5/8 - 5	F0GJVB26Y	F0GJBB26Y								C	4	
1"3/4 - 5	F0GJVB28Y	F0GJBB28Y								C	4	
1"7/8 - 4.1/2	F0GJVB30Z	F0GJBB30Z								C	4	
2" - 4.1/2	F0GJVB32Z	F0GJBB32Z								C	6	
2"1/4 - 4	F0GJVB36A5	F0GJBB36A5								C		
2"1/2 - 4	F0GJVB40A5	F0GJBB40A5								C		
2"3/4 - 4	F0GJVB44A5	F0GJBB44A5								C		
3" - 3.1/2	F0GJVB48A4	F0GJBB48A4								C		

ミリねじ ポイントタップ Spiral Pointed Tap (Metric)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：ホモまたは無処理 (Surface: OX or Bright)

1. 貫通穴用。(For Through Holes) 2. 切削トルクが低く、切りくずを前方に排出します。(Pushes chips forward with low cutting torque) 3. 切りくずがコイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape)

表13 M POT

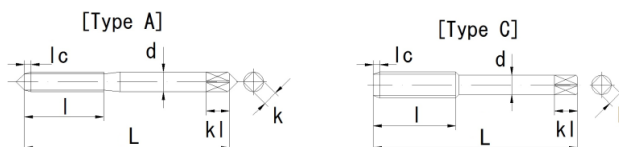
Table 13

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

Dia	SIZE		OX	Bright	L	l	ln	d	K	Kl	Type	F	HL
	Pitch		CODE	CODE									
M3	×	0.5	PGVB3.0G	PGBB3.0G	46	11	19	4.0	3.2	6	B	3	2
M3	×	0.6	PGVB3.0H	PGBB3.0H	46	11	19	4.0	3.2	6	B	3	2
M3.5	×	0.6	PGVB3.5H	PGBB3.5H	48	13	20	4.0	3.2	6	B	3	2
M4	×	0.7	PGVB4.0I	PGBB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	×	0.8	PGVB5.0K	PGBB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	×	1	PGVB6.0M	PGBB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	×	1.25	PGVC8.0N	PGBB8.0N	70	22	37	6.2	5.0	8	D	3	3
M10	×	1.5	PGVC0100	PGBB0100	75	24	41	7.0	5.5	8	D	3	3
M12	×	1.75	PGVD012P	PGBD012P	82	29	48	8.5	6.5	9	D	3	4
M14	×	2	PGVD014Q	PGBD014Q	88	30	48	10.5	8.0	11	D	3	4
M16	×	2	PGVD016Q	PGBD016Q	95	32	52	12.5	10.0	13	D	3	4
M18	×	2.5	PGVD018R	PGBD018R	100	37	55	14.0	11.0	14	D	3	4
M20	×	2.5	PGVD020R	PGBD020R	105	37	58	15.0	12.0	15	D	3	4
M22	×	2.5	PGVD022R	PGBD022R	115	38	63	17.0	13.0	16	D	3	4
M24	×	3	PGVD024S	PGBD024S	120	45	66	19.0	15.0	18	D	4	4
M27	×	3	POGVD027S	PGBD027S	130	45	71	20.0	15.0	18	D	4	4
M30	×	3.5	POGVE030T	PGBE030T	135	48	74	23.0	17.0	20	D	4	5
M33	×	3.5	POGVH033T	PGBH033T	145	51	77	25.0	19.0	22	D	4	JIS2
M36	×	4	POGVH036U	PGBH036U	155	57	82	28.0	21.0	24	D	4	JIS2
M39	×	4	POGVH039U	PGBH039U	165	60	87	30.0	23.0	26	D	4	JIS2
M42	×	4.5	POGVH042V	PGBH042V	175	60	93	32.0	26.0	30	D	4	JIS2
M45	×	4.5	POGVH045V	PGBH045V	180	67	95	35.0	26.0	30	D	4	JIS2
M48	×	5	POGVH048W	PGBH048W	185	67	98	38.0	29.0	32	D	4	JIS2

ミリねじ ポイントタップ Spiral Pointed Tap (Metric)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：ホモまたは無処理 (Surface: OX or Bright)

1. 貫通穴用。(For Through Holes) 2. 切削トルクが低く、切りくずを前方に排出します。(Pushes chips forward with low cutting torque) 3. 切りくずがコイルのようにカールして排出される被削材に適します。(Suitable for the materials where chips come out continuously in coil shape)

表14 M J POT

Table 14

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original)

(Unit: mm)

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M2	× 0.4	PGJVA2.0E	PGJBA2.0E	40	15	3.0	2.5	5	A	2	1
M2.3	× 0.4	PGJVA2.3E	PGJBA2.3E	42	15	3.0	2.5	5	A	2	1
M2.5	× 0.45	PGJVB2.5F	PGJBB2.5F	44	16	3.0	2.5	5	A	2	2
M2.6	× 0.45	PGJVB2.6F	PGJBB2.6F	44	16	3.0	2.5	5	A	2	2
M3	× 0.5	PGJVB3.0G	PGJBB3.0G	46	18	4.0	3.2	6	A	3	2
M3	× 0.6	PGJVB3.0H	PGJBB3.0H	46	18	4.0	3.2	6	A	3	2
M3.5	× 0.6	PGJVB3.5H	PGJBB3.5H	48	18	4.0	3.2	6	A	3	2
M4	× 0.7	PGJVB4.0I	PGJBB4.0I	52	20	5.0	4.0	7	A	3	2
M4	× 0.75	PGJVB4.0J	PGJBB4.0J	52	20	5.0	4.0	7	A	3	2
M4.5	× 0.75	PGJVB4.5J	PGJBB4.5J	55	20	5.0	4.0	7	A	3	2
M5	× 0.8	PGJVB5.0K	PGJBB5.0K	60	22	5.5	4.5	7	A	3	2
M5	× 0.9	PGJVB5.0L	PGJBB5.0L	60	22	5.5	4.5	7	A	3	2
M5.5	× 0.9	PGJVB5.5L	PGJBB5.5L	60	22	5.5	4.5	7	A	3	2
M5.5	× 0.75	PGJVB5.5J	PGJBB5.5J	60	22	5.5	4.5	7	A	3	2
M6	× 1	PGJVB6.0M	PGJBB6.0M	62	24	6.0	4.5	7	A	3	2
M6	× 0.75	PGJVB6.0J	PGJBB6.0J	62	20	6.0	4.5	7	A	3	2
M7	× 1	PGJVB7.0M	PGJBB7.0M	65	26	6.2	5.0	8	C	3	2
M7	× 0.75	PGJVB7.0J	PGJBB7.0J	62	20	6.2	5.0	8	C	3	2
M8	× 1.25	PGJVC8.0N	PGJBC8.0N	70	30	6.2	5.0	8	C	3	3
M8	× 1	PGJVB8.0M	PGJBB8.0M	70	30	6.2	5.0	8	C	3	2
M8	× 0.75	PGJVB8.0J	PGJBB8.0J	62	20	6.2	5.0	8	C	3	2
M9	× 1.25	PGJVC9.0N	PGJBC9.0N	72	30	7.0	5.5	8	C	3	3
M9	× 1	PGJVB9.0M	PGJBB9.0M	70	30	7.0	5.5	8	C	3	2
M9	× 0.75	PGJVB9.0J	PGJBB9.0J	62	20	7.0	5.5	8	C	3	2
M10	× 1.5	PGJVC0100	PGJBC0100	75	32	7.0	5.5	8	C	3	3
M10	× 1.25	PGJVC010N	PGJBC010N	75	32	7.0	5.5	8	C	3	3
M10	× 1	PGJVC010M	PGJBC010M	70	30	7.0	5.5	8	C	3	3
M10	× 0.75	PGJVB010J	PGJBB010J	62	20	7.0	5.5	8	C	3	2
M11	× 1.5	PGJVC0110	PGJBC0110	80	38	8.0	6.0	9	C	3	3
M11	× 1.25	PGJVC011N	PGJBC011N	80	38	8.0	6.0	9	C	3	3
M11	× 1	PGJVC011M	PGJBC011M	70	30	8.0	6.0	9	C	3	3
M11	× 0.75	PGJVB011J	PGJBB011J	62	20	8.0	6.0	9	C	3	2
M12	× 1.75	PGJVD012P	PGJBD012P	82	38	8.5	6.5	9	C	3	4
M12	× 1.5	PGJVC0120	PGJBC0120	82	38	8.5	6.5	9	C	3	3
M12	× 1.25	PGJVD012N	PGJBD012N	80	38	8.5	6.5	9	C	3	4
M12	× 1	PGJVC012M	PGJBC012M	70	30	8.5	6.5	9	C	3	3
M12	× 0.75	PGJVB012J	PGJBB012J	70	30	8.5	6.5	9	C	3	2
M12	× 0.5	PGJVB012G	PGJBB012G	55	15	8.5	6.5	9	C	3	2
M13	× 1.75	PGJVD013P	PGJBD013P	88	42	9.5	7.0	10	C	3	3
M13	× 1.5	PGJVC0130	PGJBC0130	85	42	9.5	7.0	10	C	3	3

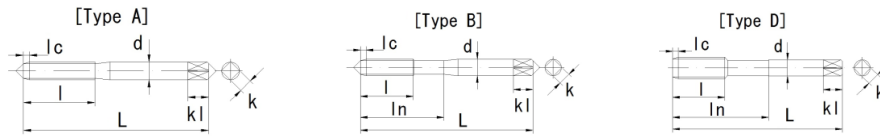
SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M13	× 1	PGJVC013M	PGJBC013M	70	30	9.5	7.0	10	C	3	2
M14	× 2	PGJVD014Q	PGJBD014Q	88	42	10.5	8.0	11	C	3	4
M14	× 1.5	PGJVC0140	PGJBC0140	88	42	10.5	8.0	11	C	3	3
M14	× 1.25	PGJVD014N	PGJBD014N	88	38	10.5	8.0	11	C	3	3
M14	× 1	PGJVC014M	PGJBC014M	70	30	10.5	8.0	11	C	3	3
M14	× 0.75	PGJVB014J	PGJBB014J	70	30	10.5	8.0	11	C	3	2
M14	× 0.5	PGJVB014G	PGJBB014G	58	15	10.5	8.0	11	C	3	2
M15	× 2	PGJVV015Q	PGJBY015Q	90	42	10.5	8.0	11	C	3	3
M15	× 1.5	PGJVV0150	PGJBY0150	90	42	10.5	8.0	11	C	3	3
M15	× 1	PGJVV015M	PGJBY015M	70	30	10.5	8.0	11	C	3	3
M16	× 2	PGJVD016Q	PGJBD016Q	95	45	12.5	10.0	13	C	3	4
M16	× 1.5	PGJVC0160	PGJBC0160	95	45	12.5	10.0	13	C	3	3
M16	× 1.25	PGJVC016N	PGJBC016N	95	45	12.5	10.0	13	C	3	3
M16	× 1	PGJVC016M	PGJBC016M	75	35	12.5	10.0	13	C	3	3
M16	× 0.75	PGJVV016J	PGJBY016J	75	35	12.5	10.0	13	C	3	2
M16	× 0.5	PGJVV016G	PGJBY016G	60	15	12.5	10.0	13	C	3	2
M18	× 2.5	PGJVD018R	PGJBD018R	100	48	14.0	11.0	14	C	3	4
M18	× 2	PGJVD018Q	PGJBD018Q	95	45	14.0	11.0	14	C	3	4
M18	× 1.5	PGJVD0180	PGJBD0180	95	45	14.0	11.0	14	C	3	4
M18	× 1	PGJVC018M	PGJBC018M	80	30	14.0	11.0	14	C	3	3
M19	× 2.5	PGJVD019R	PGJBD019R	105	50	14.0	11.0	14	C	3	4
M19	× 2	PGJVD019Q	PGJBD019Q	95	45	14.0	11.0	14	C	3	4
M19	× 1.5	PGJVD0190	PGJBD0190	95	45	14.0	11.0	14	C	3	3
M19	× 1	PGJVC019M	PGJBC019M	80	30	14.0	11.0	14	C	3	2
M20	× 2.5	PGJVD020R	PGJBD020R	105	50	15.0	12.0	15	C	3	4
M20	× 2	PGJVD020Q	PGJBD020Q	95	45	15.0	12.0	15	C	3	4
M20	× 1.5	PGJVD0200	PGJBD0200	95	45	15.0	12.0	15	C	3	4
M20	× 1	PGJVC020M	PGJBC020M	80	30	15.0	12.0	15	C	3	3
M22	× 2.5	PGJVD022R	PGJBD022R	115	55	17.0	13.0	16	C	3	4
M22	× 2	PGJVD022Q	PGJBD022Q	95	45	17.0	13.0	16	C	3	4
M22	× 1.5	PGJVD0220	PGJBD0220	95	45	17.0	13.0	16	C	3	4
M22	× 1	PGJVC022M	PGJBC022M	85	30	17.0	13.0	16	C	3	2
M24	× 3	PGJVD024S	PGJBD024S	120	58	19.0	15.0	18	C	4	4
M24	× 2	PGJVD024Q	PGJBD024Q	95	45	19.0	15.0	18	C	4	4
M24	× 1.5	PGJVD0240	PGJBD0240	95	45	19.0	15.0	18	C	4	4
M24	× 1	PGJVC024M	PGJBC024M	90	30	19.0	15.0	18	C	4	2
M25	× 3	POGJVD025S	POGJBD025S	130	62	19.0	15.0	18	C	4	4
M25	× 2	POGJVD025Q	POGJBD025Q	95	45	19.0	15.0	18	C	4	4
M25	× 1.5	POGJVD0250	POGJBD0250	95	45	19.0	15.0	18	C	4	4
M25	× 1	POGJVC025M	POGJBC025M	95	30	19.0	15.0	18	C	4	JIS2
M26	× 3	POGJVD026S	POGJBD026S	130	62	20.0	15.0	18	C	4	4
M26	× 2	POGJVD026Q	POGJBD026Q	95	45	20.0	15.0	18	C	4	3
M26	× 1.5	POGJVD0260	POGJBD0260	95	45	20.0	15.0	18	C	4	4
M26	× 1	POGJVC026M	POGJBC026M	95	30	20.0	15.0	18	C	4	3
M27	× 3	POGJVD027S	POGJBD027S	130	62	20.0	15.0	18	C	4	4
M27	× 2	POGJVD027Q	POGJBD027Q	95	45	20.0	15.0	18	C	4	4
M27	× 1.5	POGJVD0270	POGJBD0270	95	45	20.0	15.0	18	C	4	4
M27	× 1	POGJVC027M	POGJBC027M	95	30	20.0	15.0	18	C	4	2
M28	× 3	POGJVD028S	POGJBD028S	135	65	21.0	17.0	20	C	4	4
M28	× 2	POGJVD028Q	POGJBD028Q	105	45	21.0	17.0	20	C	4	4
M28	× 1.5	POGJVD0280	POGJBD0280	105	45	21.0	17.0	20	C	4	4
M28	× 1	POGJVC028M	POGJBC028M	105	30	21.0	17.0	20	C	4	3
M30	× 3.5	POGJVE030T	POGJBE030T	135	65	23.0	17.0	20	C	4	5

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M30	× 3	POGJVD030S	POGJBD030S	135	65	23.0	17.0	20	C	4	4
M30	× 2.5	POGJVD030R	POGJBD030R	130	62	23.0	17.0	20	C	4	JIS2
M30	× 2	POGJVD030Q	POGJBD030Q	105	45	23.0	17.0	20	C	4	4
M30	× 1.5	POGJVD0300	POGJBD0300	105	45	23.0	17.0	20	C	4	4
M30	× 1	POGJVC030M	POGJBC030M	105	30	23.0	17.0	20	C	4	2
M32	× 3	POGJVH032S	POGJBH032S	145	70	24.0	19.0	22	C	4	JIS2
M32	× 2.5	POGJVH032R	POGJBH032R	130	62	24.0	19.0	22	C	4	JIS2
M32	× 2	POGJVH032Q	POGJBH032Q	105	45	24.0	19.0	22	C	4	JIS2
M32	× 1.5	POGJVH0320	POGJBH0320	105	45	24.0	19.0	22	C	4	JIS2
M32	× 1	POGJVH032M	POGJBH032M	105	30	24.0	19.0	22	C	4	JIS2
M33	× 3.5	POGJVH033T	POGJBH033T	145	70	25.0	19.0	22	C	4	JIS2
M33	× 3	POGJVH033S	POGJBH033S	145	70	25.0	19.0	22	C	4	JIS2
M33	× 2	POGJVH033Q	POGJBH033Q	110	45	25.0	19.0	22	C	4	JIS2
M33	× 1.5	POGJVH0330	POGJBH0330	110	45	25.0	19.0	22	C	4	JIS2
M33	× 1	POGJVH033M	POGJBH033M	110	30	25.0	19.0	22	C	4	JIS2
M34	× 2	POGJVH034Q	POGJBH034Q	110	45	26.0	21.0	24	C	4	JIS2
M34	× 1.5	POGJVH0340	POGJBH0340	110	45	26.0	21.0	24	C	4	JIS2
M35	× 2	POGJVH035Q	POGJBH035Q	110	45	26.0	21.0	24	C	4	JIS2
M35	× 1.5	POGJVH0350	POGJBH0350	110	45	26.0	21.0	24	C	4	JIS2
M36	× 4	POGJVH036U	POGJBH036U	155	75	28.0	21.0	24	C	4	JIS2
M36	× 3	POGJVH036S	POGJBH036S	155	75	28.0	21.0	24	C	4	JIS2
M36	× 2	POGJVH036Q	POGJBH036Q	110	45	28.0	21.0	24	C	4	JIS2
M36	× 1.5	POGJVH0360	POGJBH0360	110	45	28.0	21.0	24	C	4	JIS2
M36	× 1	POGJVH036M	POGJBH036M	110	30	28.0	21.0	24	C	4	JIS2
M37	× 1.5	POGJVH0370	POGJBH0370	115	45	28.0	21.0	24	C	4	JIS2
M37	× 1	POGJVH037M	POGJBH037M	115	30	28.0	21.0	24	C	4	JIS2
M39	× 4	POGJVH039U	POGJBH039U	165	80	30.0	23.0	26	C	4	JIS2
M39	× 3	POGJVH039S	POGJBH039S	165	80	30.0	23.0	26	C	4	JIS2
M39	× 2	POGJVH039Q	POGJBH039Q	115	45	30.0	23.0	26	C	4	JIS2
M39	× 1.5	POGJVH0390	POGJBH0390	115	45	30.0	23.0	26	C	4	JIS2
M39	× 1	POGJVH039M	POGJBH039M	115	30	30.0	23.0	26	C	4	JIS2
M40	× 3	POGJVH040S	POGJBH040S	165	80	30.0	23.0	26	C	4	JIS2
M40	× 2	POGJVH040Q	POGJBH040Q	115	45	30.0	23.0	26	C	4	JIS2
M40	× 1.5	POGJVH0400	POGJBH0400	115	45	30.0	23.0	26	C	4	JIS2
M40	× 1	POGJVH040M	POGJBH040M	115	30	30.0	23.0	26	C	4	JIS2
M42	× 4.5	POGJVH042V	POGJBH042V	175	85	32.0	26.0	30	C	4	JIS2
M42	× 4	POGJVH042U	POGJBH042U	175	80	32.0	26.0	30	C	4	JIS2
M42	× 3	POGJVH042S	POGJBH042S	175	80	32.0	26.0	30	C	4	JIS2
M42	× 2	POGJVH042Q	POGJBH042Q	120	45	32.0	26.0	30	C	4	JIS2
M42	× 1.5	POGJVH0420	POGJBH0420	120	45	32.0	26.0	30	C	4	JIS2
M42	× 1	POGJVH042M	POGJBH042M	120	30	32.0	26.0	30	C	4	JIS2
M45	× 4.5	POGJVH045V	POGJBH045V	180	85	35.0	26.0	30	C	4	JIS2
M45	× 4	POGJVH045U	POGJBH045U	180	80	35.0	26.0	30	C	4	JIS2
M45	× 3	POGJVH045S	POGJBH045S	180	80	35.0	26.0	30	C	4	JIS2
M45	× 2	POGJVH045Q	POGJBH045Q	120	45	35.0	26.0	30	C	4	JIS2
M45	× 1.5	POGJVH0450	POGJBH0450	120	45	35.0	26.0	30	C	4	JIS2
M45	× 1	POGJVH045M	POGJBH045M	120	30	35.0	26.0	30	C	4	JIS2
M46	× 1.5	POGJVH0460	POGJBH0460	125	45	35.0	26.0	30	C	4	JIS2
M48	× 5	POGJVH048W	POGJBH048W	185	90	38.0	29.0	32	C	4	JIS2
M48	× 4	POGJVH048U	POGJBH048U	180	80	38.0	29.0	32	C	4	JIS2
M48	× 3	POGJVH048S	POGJBH048S	180	80	38.0	29.0	32	C	4	JIS2
M48	× 2	POGJVH048Q	POGJBH048Q	125	45	38.0	29.0	32	C	4	JIS2
M48	× 1.5	POGJVH0480	POGJBH0480	125	45	38.0	29.0	32	C	4	JIS2

ミリねじ ステンレス用ポイントタップ Spiral Pointed Tap for Stainless Steels (Metric)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：ホモまたは無処理 (Surface: OX or Bright)



特にステンレス鋼・耐熱鋼・ニッケルクロムマンガン鋼などに適します。炭素鋼や合金鋼にも効果があります。
 Suitable for tapping through holes in materials such as Stainless Steels, Heat Resistant Steels and Nickel-Chrome-Manganese Steels. Also, it is suitable for Carbon Steels, Alloy Steels and equivalent materials.

表15 M POT SUS OX Table 15

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaki)

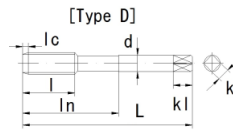
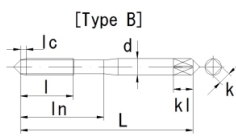
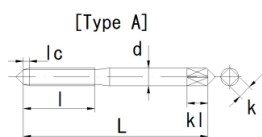
(Unit: mm)

SIZE		CODE	L	l	l _n	d	K	K _l	Type	F	HL
Dia	Pitch										
M2	× 0.4	PSJVA2.0E	40	15	-	3.0	2.5	5	A	2	1
M2.3	× 0.4	PSJVA2.3E	42	15	-	3.0	2.5	5	A	2	1
M2.5	× 0.45	PSJVB2.5F	44	16	-	3.0	2.5	5	A	2	2
M2.6	× 0.45	PSJVB2.6F	44	16	-	3.0	2.5	5	A	2	2
M3	× 0.5	PSVB3.0G	46	11	19	4.0	3.2	6	B	3	2
M3	× 0.6	PSVB3.0H	46	11	19	4.0	3.2	6	B	3	2
M3.5	× 0.6	PSVB3.5H	48	13	20	4.0	3.2	6	B	3	2
M4	× 0.7	PSVB4.0I	52	13	21	5.0	4.0	7	B	3	2
M4	× 0.75	PSVB4.0J	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	PSVB5.0K	60	16	24	5.5	4.5	7	B	3	2
M5	× 0.9	PSVB5.0L	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	PSVB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	PSVC8.0N	70	22	37	6.2	5.0	8	D	3	3
M8	× 1	PSVB8.0M	70	22	37	6.2	5.0	8	D	3	2
M10	× 1.5	PSVC0100	75	24	41	7.0	5.5	8	D	3	3
M10	× 1.25	PSVC010N	75	24	41	7.0	5.5	8	D	3	3
M10	× 1	PSVC010M	75	24	41	7.0	5.5	8	D	3	3
M12	× 1.75	PSVC012P	82	29	48	8.5	6.5	9	D	3	3
M12	× 1.5	PSVC0120	82	29	48	8.5	6.5	9	D	3	3
M12	× 1.25	PSVC012N	82	29	48	8.5	6.5	9	D	3	3
M12	× 1	PSVC012M	82	29	48	8.5	6.5	9	D	3	3
M14	× 2	PSVC014Q	88	30	48	10.5	8.0	11	D	3	3
M14	× 1.5	PSVC0140	88	30	48	10.5	8.0	11	D	3	3
M16	× 2	PSVC016Q	95	32	52	12.5	10.0	13	D	3	3
M16	× 1.5	PSVC0160	95	32	52	12.5	10.0	13	D	3	3
M18	× 2.5	PSVC018R	100	37	55	14.0	11.0	14	D	3	3
M18	× 1.5	PSVC0180	100	37	55	14.0	11.0	14	D	3	3
M20	× 2.5	PSVC020R	105	37	58	15.0	12.0	15	D	3	3
M20	× 1.5	PSVC0200	105	37	58	15.0	12.0	15	D	3	3
M22	× 2.5	PSVD022R	115	38	63	17.0	13.0	16	D	3	4
M22	× 1.5	PSVD0220	115	38	63	17.0	13.0	16	D	3	4
M24	× 3	PSVD024S	120	45	66	19.0	15.0	18	D	4	4
M24	× 1.5	PSVD0240	120	45	66	19.0	15.0	18	D	4	4
M27	× 3	POSVD027S	130	45	71	20.0	15.0	18	D	4	4
M27	× 1.5	POSVD0270	130	45	71	20.0	15.0	18	D	4	4
M30	× 3.5	POSVE030T	135	48	74	23.0	17.0	20	D	4	5
M30	× 1.5	POSVD0300	135	48	74	23.0	17.0	20	D	4	4
M33	× 3.5	POSVH033T	145	51	77	25.0	19.0	22	D	4	5
M33	× 1.5	POSVH0330	145	51	77	25.0	19.0	22	D	4	4
M36	× 4	POSVH036U	155	57	82	28.0	21.0	24	D	4	5
M36	× 1.5	POSVH0360	155	57	82	28.0	21.0	24	D	4	4

ミリねじ アルミ用ポイントタップ Spiral Pointed Tap for Aluminium (Metric)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：無処理 (Surface: Bright)



アルミニウムとその合金、及びアルミダイカストに適します。Suitable for tapping through holes in Aluminium, Aluminium Alloys and Aluminium diecastings.

表16 M POT AL Table 16

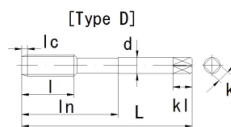
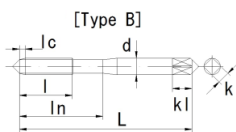
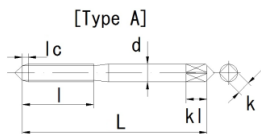
*F : 溝数。(Number of flutes) / HL : HL精度。(Hayasaka original thread limit) (Unit: mm)

SIZE		CODE	L	l	ln	d	K	kl	Type	F	HL
Dia	Pitch										
M3	× 0.5	PA3. 0G	46	11	19	4.0	3.2	6	B	3	2
M4	× 0.7	PA4. 0I	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	PA5. 0K	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	PA6. 0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	PA8. 0N	70	22	37	6.2	5.0	8	D	3	3
M10	× 1.5	PA0100	75	24	41	7.0	5.5	8	D	3	3
M12	× 1.75	PA012P	82	29	48	8.5	6.5	9	D	3	4

ミリねじ チタンコーティング ポイントタップ TiN Coated Spiral Pointed Tap (Metric)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：チタンコーティング (Surface: TiN)



TiNコーティングの効果により、耐摩耗性、反溶性性に優れ、低-中炭素鋼、ステンレス鋼、アルミ鍛造品の加工に適します。TiN coating has a good welding resistance and good wear resistance. It is suitable for carbon steels, stainless steels and aluminium forgini.

表17 M POT TiN

Table 17

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

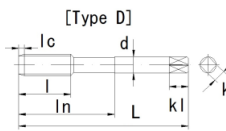
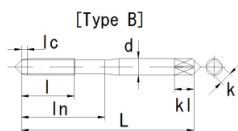
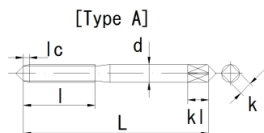
(Unit: mm)

SIZE		CODE	L	l	ln	d	K	Kl	Type	F	HL
Dia	Pitch										
M2	× 0.4	PGJTA2.0E	40	15		3.0	2.5	5	A	2	1
M2.3	× 0.4	PGJTA2.3E	42	15		3.0	2.5	5	A	2	1
M2.5	× 0.45	PGJTA2.5F	44	16		3.0	2.5	5	A	2	2
M2.6	× 0.45	PGJTA2.6F	44	16		3.0	2.5	5	A	2	2
M3	× 0.5	PGTB3.0G	46	11	19	4.0	3.2	6	B	3	2
M4	× 0.7	PGTB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	PGTB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	PGTB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	PGTC8.0N	70	22	37	6.2	5.0	8	D	3	3
M10	× 1.5	PGTC0100	75	24	41	7.0	5.5	8	D	3	3
M12	× 1.75	PGTD012P	82	29	48	8.5	6.5	9	D	3	4
M14	× 2	PGTD014Q	88	30	48	10.5	8.0	11	D	3	4
M16	× 2	PGTD016Q	95	32	52	12.5	10.0	13	D	3	4
M18	× 2.5	PGTD018R	100	37	55	14.0	11.0	14	D	3	4
M20	× 2.5	PGTD020R	105	37	58	15.0	12.0	15	D	3	4
M22	× 2.5	PGTD022R	115	38	63	17.0	13.0	16	D	3	4
M24	× 3	PGTD024S	120	45	66	19.0	15.0	18	D	4	4
M27	× 3	POGTD027S	130	45	71	20.0	15.0	18	D	4	4
M30	× 3.5	POGTE030T	135	48	74	23.0	17.0	20	D	4	5

ミリねじ TiCNコーティング ポイントタップ TiCN coated Spiral Pointed Tap (Metric)



- ① 食付き長さ：5山 (Chamfer Length 5p)
- ② 材質：HSSE (Material)
- ③ 表面処理：TiCNコーティング (Surface: TiCN)



TiCNに比べ耐摩耗性に優れ、幅広い被削材に使用できます。TiCN coating has excellent wear resistance. It is suitable for tapping in soft material and hard materials.

表18 M POT TiCN

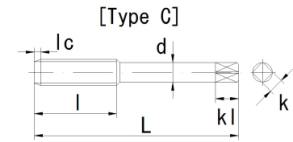
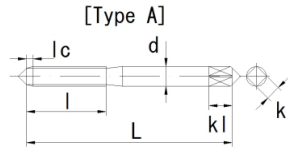
Table 18

*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		CODE	L	l	Ln	d	K	Kl	Type	F	HL
Dia	Pitch										
M2	× 0.4	PGJCA2.0E	40	15		3.0	2.5	5	A	2	1
M2.3	× 0.4	PGJCA2.3E	42	15		3.0	2.5	5	A	2	1
M2.5	× 0.45	PGJCA2.5F	44	16		3.0	2.5	5	A	2	2
M2.6	× 0.45	PGJCA2.6F	44	16		3.0	2.5	5	A	2	2
M3	× 0.5	PGCB3.0G	46	11	19	4.0	3.2	6	B	3	2
M4	× 0.7	PGCB4.0I	52	13	21	5.0	4.0	7	B	3	2
M5	× 0.8	PGCB5.0K	60	16	24	5.5	4.5	7	B	3	2
M6	× 1	PGCB6.0M	62	19	29	6.0	4.5	7	B	3	2
M8	× 1.25	PGCC8.0N	70	22	37	6.2	5.0	8	D	3	3
M10	× 1.5	PGCC0100	75	24	41	7.0	5.5	8	D	3	3
M12	× 1.75	PGCD012P	82	29	48	8.5	6.5	9	D	3	4
M14	× 2	PGCD014Q	88	30	48	10.5	8.0	11	D	3	4
M16	× 2	PGCD016Q	95	32	52	12.5	10.0	13	D	3	4
M18	× 2.5	PGCD018R	100	37	55	14.0	11.0	14	D	3	4
M20	× 2.5	PGCD020R	105	37	58	15.0	12.0	15	D	3	4
M22	× 2.5	PGCD022R	115	38	63	17.0	13.0	16	D	3	4
M24	× 3	PGCD024S	120	45	66	19.0	15.0	18	D	4	4
M27	× 3	PGTD027S	130	45	71	20.0	15.0	18	D	4	4
M30	× 3.5	PGTE030T	135	48	74	23.0	17.0	20	D	4	5

ミリねじ ロングシャクポイントタップ Long Shank Spiral Pointed Tap (Metric)



1.貫通穴用。 For Through Holes2.切削トルクが低く、切りくずを前方に排出します。 Pushes chips forward with low cutting torque.3.切りくずがコイルのようにカールして排出される被削材に適します。 Materials where chips come out continuously in coil shape.3.一般のタップでは長さが不足するような場合に使用します。 Suitable for occasions where a Taps of insufficient length.

- ① 食付き長さ：5山 (Chamfer Length 5p)
- ② 材質：HSSE (Material)
- ③ 表面処理：ホモまたは無処理 (Surface: OX or Bright)

表19 M L T POT

Table 19

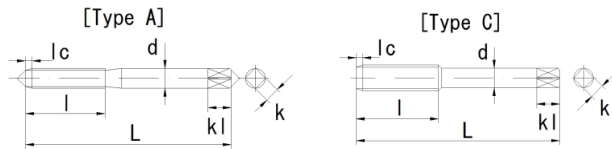
*F：溝数。(Number of flutes) / HL：HL精度。(Hayasaka original thread limit)

(Unit: mm)

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M3	× 0.5	PGVB3.0G10	PGBB3.0G10	100	18	4.0	3.2	6	A	3	2
		PGVB3.0G12	PGBB3.0G12	120	18	4.0	3.2	6	A	3	2
M4	× 0.7	PGVB4.0I10	PGBB4.0I10	100	20	5.0	4.0	7	A	3	2
		PGVB4.0I12	PGBB4.0I12	120	20	5.0	4.0	7	A	3	2
		PGVB4.0I15	PGBB4.0I15	150	20	5.0	4.0	7	A	3	2
M5	× 0.8	PGVB5.0K10	PGBB5.0K10	100	22	5.5	4.5	7	A	3	2
		PGVB5.0K12	PGBB5.0K12	120	22	5.5	4.5	7	A	3	2
		PGVB5.0K15	PGBB5.0K15	150	22	5.5	4.5	7	A	3	2
M6	× 1	PGVB6.0M10	PGBB6.0M10	100	24	6.0	4.5	7	A	3	2
		PGVB6.0M12	PGBB6.0M12	120	24	6.0	4.5	7	A	3	2
		PGVB6.0M15	PGBB6.0M15	150	24	6.0	4.5	7	A	3	2
M8	× 1.25	PGVC8.0N10	PGBC8.0N10	100	30	6.2	5.0	8	C	3	3
		PGVC8.0N12	PGBC8.0N12	120	30	6.2	5.0	8	C	3	3
		PGVC8.0N15	PGBC8.0N15	150	30	6.2	5.0	8	C	3	3
M10	× 1.5	PGVC010010	PGBC010010	100	32	7.0	5.5	8	C	3	3
		PGVC010012	PGBC010012	120	32	7.0	5.5	8	C	3	3
		PGVC010015	PGBC010015	150	32	7.0	5.5	8	C	3	3
M10	× 1.25	PGVC010N10	PGBC010N10	100	32	7.0	5.5	8	C	3	3
		PGVC010N12	PGBC010N12	120	32	7.0	5.5	8	C	3	3
		PGVC010N15	PGBC010N15	150	32	7.0	5.5	8	C	3	3
M12	× 1.75	PGVD012P10	PGBD012P10	100	38	8.5	6.5	9	C	3	4
		PGVD012P12	PGBD012P12	120	38	8.5	6.5	9	C	3	4
		PGVD012P15	PGBD012P15	150	38	8.5	6.5	9	C	3	4
		PGVD012P20	PGBD012P20	200	38	8.5	6.5	9	C	3	4
M12	× 1.5	PGVC012010	PGBC012010	100	38	8.5	6.5	9	C	3	3
		PGVC012012	PGBC012012	120	38	8.5	6.5	9	C	3	3
		PGVC012015	PGBC012015	150	38	8.5	6.5	9	C	3	3
M12	× 1.25	PGVD012N10	PGBD012N10	100	38	8.5	6.5	9	C	3	4
		PGVD012N12	PGBD012N12	120	38	8.5	6.5	9	C	3	4
		PGVD012N15	PGBD012N15	150	38	8.5	6.5	9	C	3	4
M14	× 2	PGVD014Q12	PGBD014Q12	120	42	10.5	8.0	11	C	3	4
		PGVD014Q15	PGBD014Q15	150	42	10.5	8.0	11	C	3	4
		PGVD014Q20	PGBD014Q20	200	42	10.5	8.0	11	C	3	4
M14	× 1.5	PGVC014012	PGBC014012	120	42	10.5	8.0	11	C	3	3
		PGVC014015	PGBC014015	150	42	10.5	8.0	11	C	3	3
M16	× 2	PGVD016Q15	PGBD016Q15	150	45	12.5	10.0	13	C	3	4
		PGVD016Q20	PGBD016Q20	200	45	12.5	10.0	13	C	3	4
M16	× 1.5	PGVC016015	PGBC016015	150	45	12.5	10.0	13	C	3	3
		PGVC016020	PGBC016020	200	45	12.5	10.0	13	C	3	3
M18	× 2.5	PGVD018R15	PGBD018R15	150	48	14.0	11.0	14	C	3	4
		PGVD018R20	PGBD018R20	200	48	14.0	11.0	14	C	3	4

SIZE		OX	Bright	L	l	d	K	Kl	Type	F	HL
Dia	Pitch	CODE	CODE								
M18	× 1.5	PGVC018015	PGBBC018015	150	45	14.0	11.0	14	C	3	4
		PGVC018020	PGBBC018020	200	45	14.0	11.0	14	C	3	4
M20	× 2.5	PGVD020R15	PGBD020R15	150	50	15.0	12.0	15	C	3	4
		PGVD020R20	PGBD020R20	200	50	15.0	12.0	15	C	3	4
M20	× 1.5	PGVD020015	PGBD020015	150	45	15.0	12.0	15	C	3	4
		PGVD020020	PGBD020020	200	45	15.0	12.0	15	C	3	4
M22	× 2.5	PGVD022R20	PGBD022R20	200	55	17.0	13.0	16	C	3	4
M22	× 1.5	PGVD022020	PGBD022020	200	45	17.0	13.0	16	C	3	4
M24	× 3	PGVD024S20	PGBD024S20	200	58	19.0	15.0	18	C	4	4
M24	× 1.5	PGVD024020	PGBD024020	200	45	19.0	15.0	18	C	4	4

ウィットねじ ポイントタップ Spiral Pointed Tap (Whitworth)



- ① 食付き長さ : 5山 (Chamfer Length 5p)
- ② 材質 : HSSE (Material)
- ③ 表面処理 : ホモまたは無処理 (Surface: OX or Bright)

表20 W POT

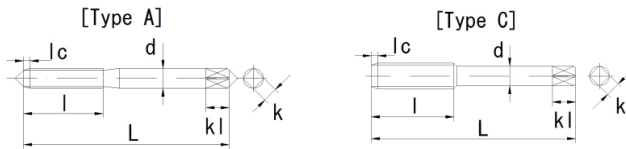
Table 20

*F : 溝数 (Number of flutes) / JC: JIS規格 (JIS class of the thread limit)

(Unit: mm)

SIZE	OX	Bright	L	l	d	K	Kl	Type	F	JC
	CODE	CODE								
1/16 - 60	PGJVHW01A2	PGJBHW01A2	40	9.0	3.0	2.5	5.0	A		
1/8 - 40	PGJVHW02G	PGJBHW02G	46	18.0	4.0	3.2	6.0	A	3	2
5/32 - 32	PGJVHW0B1	PGJBHW0B1	52	20.0	5.0	4.0	7.0	A	3	2
3/16 - 24	PGJVHW03L	PGJBHW03L	60	22.0	5.5	4.5	7.0	A	3	2
7/32 - 24	PGJVHW0CL	PGJBHW0CL	60	22.0	5.5	4.5	7.0	A	3	2
1/4 - 20	PGJVHW04M	PGJBHW04M	62	24.0	6.0	4.5	7.0	A	3	2
5/16 - 18	PGJVHW05O	PGJBHW05O	70	30.0	6.1	5.0	8.0	C	3	2
3/8 - 16	PGJVHW06P	PGJBHW06P	75	35.0	7.0	5.5	8.0	C	3	2
7/16 - 14	POGJVHW07Q	POGJBHW07Q	80	38.0	8.0	6.0	9.0	C	3	2
1/2 - 12	POGJVHW08R	POGJBHW08R	85	42.0	9.0	7.0	10.0	C	3	2
9/16 - 12	POGJVHW09R	POGJBHW09R	90	42.0	10.5	8.0	11.0	C	3	2
5/8 - 11	POGJVHW10T	POGJBHW10T	95	45.0	12.0	9.0	12.0	C	3	2
3/4 - 10	POGJVHW12U	POGJBHW12U	105	50.0	14.0	11.0	14.0	C	3	2
7/8 - 9	POGJVHW14V	POGJBHW14V	115	55.0	17.0	13.0	16.0	C	3	2
1" - 8	POGJVHW16W	POGJBHW16W	125	60.0	20.0	15.0	18.0	C	4	2
1"1/8 - 7	POGJVHW18A0	POGJBHW18A0	135	65.0	22.0	17.0	20.0	C	4	2
1"1/4 - 7	POGJVHW20A0	POGJBHW20A0	145	70.0	24.0	19.0	22.0	C	4	2
1"3/8 - 6	POGJVHW22X	POGJBHW22X	155	75.0	26.0	21.0	24.0	C	4	2
1"1/2 - 6	POGJVHW24X	POGJBHW24X	160	78.0	30.0	23.0	26.0	C	4	2
1"5/8 - 5	POGJVHW26Y	POGJBHW26Y	170	82.0	32.0	26.0	30.0	C		
1"3/4 - 5	POGJVHW28Y	POGJBHW28Y	175	85.0	35.0	26.0	30.0	C		
1"7/8 - 4.1/2	POGJVHW30Z	POGJBHW30Z	185	90.0	38.0	29.0	32.0	C		
2" - 4.1/2	POGJVHW32Z	POGJBHW32Z	195	92.0	40.0	32.0	35.0	C		

ユニファイ並目ねじ ポイントタップ Spiral Pointed Tap (Unified Coarse)



- ①食付き長さ：5山 (Chamfer Length 5p)
- ②材質：HSSE (Material)
- ③表面処理：ホモまたは無処理 (Surface: OX or Bright)

表21 UNC POT

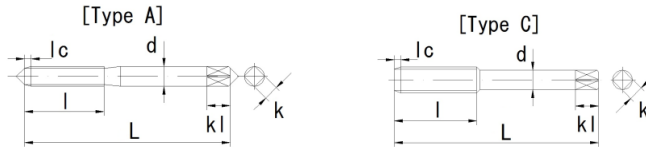
Table 21

*F：溝数 (Number of flutes) / JC:JIS規格 (JIS class of the thread limit)

(Unit: mm)

SIZE	OX CODE	Bright CODE	L	l	d	K	Kl	F	JC
No.2 - 56	PGJVHUN2D	PGJBHUN2D	42	15	3.0	2.5	5.0	2	2
No.3 - 48	PGJVHUN3E	PGJBHUN3E	44	16	3.0	2.5	5.0		
No.4 - 40	PGJVHUN4G	PGJBHUN4G	44	16	3.0	2.5	5.0	3	2
No.5 - 40	PGJVHUN5G	PGJBHUN5G	46	18	4.0	3.2	6.0	3	2
No.6 - 32	PGJVHUN6I	PGJBHUN6I	48	18	4.0	3.2	6.0	3	2
No.8 - 32	PGJVHUN8I	PGJBHUN8I	52	20	5.0	4.0	7.0	3	2
No.10 - 24	PGJVHUNAL	PGJBHUNAL	60	22	5.5	4.5	7.0	3	2
No.12 - 24	PGJVHUNBL	PGJBHUNBL	60	22	5.5	4.5	7.0	3	2
1/4 - 20	PGJVHU04M	PGJBHU04M	62	24	6.0	4.5	7.0	3	2
5/16 - 18	PGJVHU05O	PGJBHU05O	70	30	6.1	5.0	8.0	3	2
3/8 - 16	PGJVHU06P	PGJBHU06P	75	35	7.0	5.5	8.0	3	2
7/16 - 14	POGJVHU07Q	POGJBHU07Q	80	38	8.0	6	9.0	3	2
1/2 - 13	POGJVHU08A1	POGJBHU08A1	85	42	9.0	7	10.0	3	2
9/16 - 12	POGJVHU09R	POGJBHU09R	90	42	10.5	8	11.0	3	2
5/8 - 11	POGJVHU10T	POGJBHU10T	95	45	12.0	9	12.0	3	2
3/4 - 10	POGJVHU12U	POGJBHU12U	105	50	14.0	11	14.0	3	2
7/8 - 9	POGJVHU14V	POGJBHU14V	115	55	17.0	13	16.0	3	2
1" - 8	POGJVHU16W	POGJBHU16W	125	60	20.0	15	18.0	4	2
1"1/8 - 7	POGJVHU18A0	POGJBHU18A0	135	65	22.0	17	20.0		
1"1/4 - 7	POGJVHU20A0	POGJBHU20A0	145	70	24.0	19	22.0		
1"3/8 - 6	POGJVHU22X	POGJBHU22X	155	75	26.0	21	24.0		
1"1/2 - 6	POGJVHU24X	POGJBHU24X	160	78	30.0	23	26.0		
1"3/4 - 5	POGJVHU28Y	POGJBHU28Y	175	85	35.0	26	30.0		
2" - 4.1/2	POGJVHU32Z	POGJBHU32Z	195	92	40.0	32	35.0		

ユニファイ細目ねじ ポイントタップ Spiral Pointed Tap (Unified Fine)



- ① 食付き長さ：5山 (Chamfer Length 5p)
- ② 材質：HSSE (Material)
- ③ 表面処理：ホモまたは無処理 (Surface: OX or Bright)

表22 UNF POT

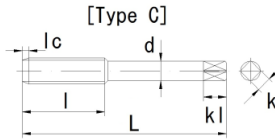
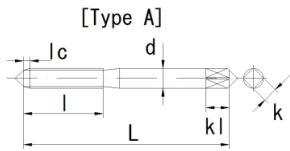
Table 22

*F：溝数 (Number of flutes) / JC:JIS規格 (JIS class of the thread limit)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	Kl	F	JC
	CODE	CODE	CODE	CODE							
No.1 - 72	PGJVHUN1B	PGJBHUN1B			36	13	3.0	2.5	5.0		
No.2 - 64	PGJVHUN2C	PGJBHUN2C			42	15	3.0	2.5	5.0	2	2
No.3 - 56	PGJVHUN3D	PGJBHUN3D			44	16	3.0	2.5	5.0		
No.4 - 48	PGJVHUN4E	PGJBHUN4E			44	16	3.0	2.5	5.0	3	2
No.5 - 44	PGJVHUN5F	PGJBHUN5F			46	18	4.0	3.2	6.0	3	2
No.6 - 40	PGJVHUN6G	PGJBHUN6G			48	18	4.0	3.2	6.0	3	2
No.8 - 36	PGJVHUN8H	PGJBHUN8H			52	20	5.0	4.0	7.0	3	2
No.10 - 32	PGJVHUNA I	PGJBHUNA I			60	22	5.5	4.5	7.0	3	2
No.12 - 28	PGJVHUNBJ	PGJBHUNBJ			60	22	5.5	4.5	7.0	3	2
1/4 - 28	PGJVHU04J	PGJBHU04J			62	24	6.0	4.5	7.0	3	2
5/16 - 24	PGJVHU05L	PGJBHU05L			70	30	6.1	5.0	8.0	3	2
3/8 - 24	PGJVHU06L	PGJBHU06L			75	35	7.0	5.5	8.0	3	2
7/16 - 20	POGJVHU07M	POGJBHU07M			80	38	8.0	6	9.0	3	2
1/2 - 20	POGJVHU08M	POGJBHU08M			85	42	9.0	7	10.0	3	2
9/16 - 18	POGJVHU09O	POGJBHU09O			90	42	10.5	8	11.0	3	2
5/8 - 18	POGJVHU10O	POGJBHU10O			95	45	12.0	9	12.0	3	2
3/4 - 16	POGJVHU12P	POGJBHU12P			105	50	14.0	11	14.0	3	2
7/8 - 14	POGJVHU14Q	POGJBHU14Q			115	55	17.0	13	16.0	3	2
1" - 12	POGJVHU16R	POGJBHU16R			125	60	20.0	15	18.0	4	2
1"1/8 - 12	POGJVHU18R	POGJBHU18R			135	65	22.0	17	20.0		
1"1/4 - 12	POGJVHU20R	POGJBHU20R			145	70	24.0	19	22.0		
1"3/8 - 12	POGJVHU22R	POGJBHU22R			155	75	26.0	21	24.0		
1"1/2 - 12	POGJVHU24R	POGJBHU24R			160	78	30.0	23	26.0		
1"3/4 - 12	POGJVHU28R	POGJBHU28R			175	85	35.0	26	30.0		
2" - 12	POGJVHU32R	POGJBHU32R			195	92	40.0	32	35.0		

BS規格ウィットねじ ポイントタップ Spiral Pointed Tap (British Standard Whitworth)



- ① 食付き長さ：5山 (Chamfer Length 5p)
- ② 材質：HSSE (Material)
- ③ 表面処理：ホモまたは無処理 (Surface: OX or Bright)

表23 BSW POT

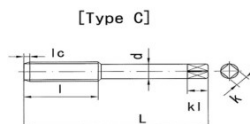
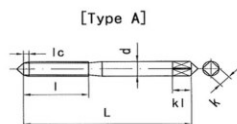
Table 23

*F:溝数 (Number of flutes)

(Unit: mm)

SIZE	OX		Bright		L	l	d	K	Kl	F	Z
	CODE	CODE	CODE	CODE							
1/8 - 40	PGJVB02G	PGJBB02G	PGJVB02G	PGJBB02G	49	16.0	3.3	2.7	4.5	3	3
5/32 - 32	PGJVB0B1	PGJBB0B1	PGJVB0B1	PGJBB0B1	54	19.0	4.0	3.1	6.5	3	3
3/16 - 24	PGJVB03L	PGJBB03L	PGJVB03L	PGJBB03L	61	22.0	4.8	3.8	6.5	3	3
7/32 - 24	PGJVB0CL	PGJBB0CL	PGJVB0CL	PGJBB0CL	61	22.0	5.6	4.4	6.5	3	3
1/4 - 20	PGJVB04M	PGJBB04M	PGJVB04M	PGJBB04M	64	25.0	6.4	5.0	7.0	3	3
5/16 - 18	PGJVB050	PGJBB050	PGJVB050	PGJBB050	70	28.0	8.0	6.1	10.3	3	3
3/8 - 16	PGJVB06P	PGJBB06P	PGJVB06P	PGJBB06P	75	32.0	9.5	7.5	10.3	3	3
7/16 - 14	POGJVB07Q	POGJBB07Q	POGJVB07Q	POGJBB07Q	80	36.5	8.2	6.1	10.5	3	3
1/2 - 12	POGJVB08R	POGJBB08R	POGJVB08R	POGJBB08R	86	42.0	9.3	7.0	11.0	3	3
9/16 - 12	POGJVB09R	POGJBB09R	POGJVB09R	POGJBB09R	91	42.0	10.9	8.2	12.7	3	3
5/8 - 11	POGJVB10T	POGJBB10T	POGJVB10T	POGJBB10T	97	46.0	12.2	9.0	14.0	3	3
3/4 - 10	POGJVB12U	POGJBB12U	POGJVB12U	POGJBB12U	108	51.0	15.0	11.2	17.5	3	3
7/8 - 9	POGJVB14V	POGJBB14V	POGJVB14V	POGJBB14V	119	56.5	17.7	13.3	19.0	3	3
1" - 8	POGJVB16W	POGJBB16W	POGJVB16W	POGJBB16W	130	63.5	20.3	15.2	20.5	4	3

ミリねじ ハンドタップ Hand Tap (Metric)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
 (Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
 ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表24 M HT Table 24

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)
 ☆3P SETは先・中・上の3本1組です。("3P SET" consists of taper, plug and bottom)

(Unit: mm)

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M1	× 0.25	9	HGH1.0B1	2	SG1.0B1	3	30	8	3.0	2.5	5	A	3
		5	HGH1.0B2		SG1.0B2								
		1.5	HGH1.0B3		SG1.0B3								
		3P SET	HGH1.0BS		SG1.0BS								
M1.2	× 0.25	9	HGH1.2B1	2	SG1.2B1	3	32	9	3.0	2.5	5	A	3
		5	HGH1.2B2		SG1.2B2								
		1.5	HGH1.2B3		SG1.2B3								
		3P SET	HGH1.2BS		SG1.2BS								
M1.4	× 0.3	9	HGH1.4C1	2	SG1.4C1	3	34	11	3.0	2.5	5	A	3
		5	HGH1.4C2		SG1.4C2								
		1.5	HGH1.4C3		SG1.4C3								
		3P SET	HGH1.4CS		SG1.4CS								
M1.6	× 0.35	9	HGH1.6D1	2	SG1.6D1	3	36	13	3.0	2.5	5	A	3
		5	HGH1.6D2		SG1.6D2								
		1.5	HGH1.6D3		SG1.6D3								
		3P SET	HGH1.6DS		SG1.6DS								
M1.7	× 0.35	9	HGH1.7D1	2	SG1.7D1	3	36	13	3.0	2.5	5	A	3
		5	HGH1.7D2		SG1.7D2								
		1.5	HGH1.7D3		SG1.7D3								
		3P SET	HGH1.7DS		SG1.7DS								
M1.8	× 0.35	9	HGH1.8D1	2	SG1.8D1	3	36	13	3.0	2.5	5	A	3
		5	HGH1.8D2		SG1.8D2								
		1.5	HGH1.8D3		SG1.8D3								
		3P SET	HGH1.8DS		SG1.8DS								
M2	× 0.4	9	HGH2.0E1	2	SG2.0E1	3	40	15	3.0	2.5	5	A	3
		5	HGH2.0E2		SG2.0E2								
		1.5	HGH2.0E3		SG2.0E3								
		3P SET	HGH2.0ES		SG2.0ES								
M2.3	× 0.4	9	HGH2.3E1	2	SG2.3E1	3	42	15	3.0	2.5	5	A	3
		5	HGH2.3E2		SG2.3E2								
		1.5	HGH2.3E3		SG2.3E3								
		3P SET	HGH2.3ES		SG2.3ES								
M2.5	× 0.45	9	HGH2.5F1	2	SG2.5F1	3	44	16	3.0	2.5	5	A	3
		5	HGH2.5F2		SG2.5F2								
		1.5	HGH2.5F3		SG2.5F3								
		3P SET	HGH2.5FS		SG2.5FS								
M2.6	× 0.45	9	HGH2.6F1	2	SG2.6F1	3	44	16	3.0	2.5	5	A	3
		5	HGH2.6F2		SG2.6F2								
		1.5	HGH2.6F3		SG2.6F3								
		3P SET	HGH2.6FS		SG2.6FS								
M3	× 0.5	9	HGH3.0G1	2	SG3.0G1	3	46	18	4.0	3.2	6	A	3
		5	HGH3.0G2		SG3.0G2								
		1.5	HGH3.0G3		SG3.0G3								
		3P SET	HGH3.0GS		SG3.0GS								
M3	× 0.6	9	HGH3.0H1	2	SG3.0H1	3	46	18	4.0	3.2	6	A	3
		5	HGH3.0H2		SG3.0H2								
		1.5	HGH3.0H3		SG3.0H3								
		3P SET	HGH3.0HS		SG3.0HS								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M3.5	× 0.6	9	HGH3. 5H1	2	SG3. 5H1	3	48	18	4.0	3.2	6	A	3
		5	HGH3. 5H2		SG3. 5H2								
		1.5	HGH3. 5H3		SG3. 5H3								
		3P SET	HGH3. 5HS		SG3. 5HS								
M4	× 0.5	9	HGH4. 0G1	2	SG4. 0G1	3	52	15	5.0	4.0	7	A	3
		5	HGH4. 0G2		SG4. 0G2								
		1.5	HGH4. 0G3		SG4. 0G3								
		3P SET	HGH4. 0GS		SG4. 0GS								
M4	× 0.7	9	HGH4. 0I1	2	SG4. 0I1	3	52	20	5.0	4.0	7	A	3
		5	HGH4. 0I2		SG4. 0I2								
		1.5	HGH4. 0I3		SG4. 0I3								
		3P SET	HGH4. 0IS		SG4. 0IS								
M4	× 0.75	9	HGH4. 0J1	2	SG4. 0J1	3	52	20	5.0	4.0	7	A	3
		5	HGH4. 0J2		SG4. 0J2								
		1.5	HGH4. 0J3		SG4. 0J3								
		3P SET	HGH4. 0JS		SG4. 0JS								
M4.5	× 0.75	9	HGH4. 5J1	2	SG4. 5J1	3	55	20	5.0	4.0	7	A	3
		5	HGH4. 5J1		SG4. 5J2								
		1.5	HGH4. 5J1		SG4. 5J3								
		3P SET	HGH4. 5J1		SG4. 5JS								
M5	× 0.5	9	HGH5. 0G1	2	SG5. 0G1	3	52	15	5.5	4.5	7	A	3
		5	HGH5. 0G2		SG5. 0G2								
		1.5	HGH5. 0G3		SG5. 0G3								
		3P SET	HGH5. 0GS		SG5. 0GS								
M5	× 0.75	9	HGH5. 0J1	2	SG5. 0J1	3	60	22	5.5	4.5	7	A	3
		5	HGH5. 0J2		SG5. 0J2								
		1.5	HGH5. 0J3		SG5. 0J3								
		3P SET	HGH5. 0JS		SG5. 0JS								
M5	× 0.8	9	HGH5. 0K1	2	SG5. 0K1	3	60	22	5.5	4.5	7	A	3
		5	HGH5. 0K2		SG5. 0K2								
		1.5	HGH5. 0K3		SG5. 0K3								
		3P SET	HGH5. 0KS		SG5. 0KS								
M5	× 0.9	9	HGH5. 5L1	2	SG5. 5L1	3	60	22	5.5	4.5	7	A	3
		5	HGH5. 5L2		SG5. 5L2								
		1.5	HGH5. 5L3		SG5. 5L3								
		3P SET	HGH5. 5LS		SG5. 5LS								
M5.5	× 0.75	9	HGH5. 5J1	2	SG5. 5J1	3	60	22	5.5	4.5	7	A	3
		5	HGH5. 5J2		SG5. 5J2								
		1.5	HGH5. 5J3		SG5. 5J3								
		3P SET	HGH5. 5JS		SG5. 5JS								
M5.5	× 0.9	9	HGH5. 5L1	2	SG5. 5L1	3	60	22	5.5	4.5	7	A	3
		5	HGH5. 5L2		SG5. 5L2								
		1.5	HGH5. 5L3		SG5. 5L3								
		3P SET	HGH5. 5LS		SG5. 5LS								
M6	× 0.5	9	HGH6. 0G1	2	SG6. 0G1	3	55	15	6.0	4.5	7	A	3
		5	HGH6. 0G2		SG6. 0G2								
		1.5	HGH6. 0G3		SG6. 0G3								
		3P SET	HGH6. 0GS		SG6. 0GS								
M6	× 0.75	9	HGH6. 0J1	2	SG6. 0J1	3	62	20	6.0	4.5	7	A	3
		5	HGH6. 0J2		SG6. 0J2								
		1.5	HGH6. 0J3		SG6. 0J3								
		3P SET	HGH6. 0J1		SG6. 0JS								
M6	× 1	9	HGH6. 0M1	2	SG6. 0M1	3	62	24	6.0	4.5	7	A	3
		5	HGH6. 0M2		SG6. 0M2								
		1.5	HGH6. 0M3		SG6. 0M3								
		3P SET	HGH6. 0MS		SG6. 0MS								
M7	× 0.5	9	HGH7. 0G1	2	SG7. 0G1	3	55	15	6.2	5.0	8	C	3
		5	HGH7. 0G2		SG7. 0G2								
		1.5	HGH7. 0G3		SG7. 0G3								
		3P SET	HGH7. 0GS		SG7. 0GS								
M7	× 0.75	9	HGH7. 0J1	2	SG7. 0J1	3	62	20	6.2	5.0	8	C	3
		5	HGH7. 0J2		SG7. 0J2								
		1.5	HGH7. 0J3		SG7. 0J3								
		3P SET	HGH7. 0JS		SG7. 0JS								
M7	× 1	9	HGH7. 0M1	2	SG7. 0M1	3	65	26	6.2	5.0	8	C	3
		5	HGH7. 0M2		SG7. 0M2								
		1.5	HGH7. 0M3		SG7. 0M3								
		3P SET	HGH7. 0MS		SG7. 0MS								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M8	× 0.5	9	HGH8.0G1	2	SG8.0G1	3	55	15	6.2	5.0	8	C	4
		5	HGH8.0G2		SG8.0G2								
		1.5	HGH8.0G3		SG8.0G3								
		3P SET	HGH8.0GS		SG8.0GS								
M8	× 0.75	9	HGH8.0J1	2	SG8.0J1	3	62	20	6.2	5.0	8	C	4
		5	HGH8.0J2		SG8.0J2								
		1.5	HGH8.0J3		SG8.0J3								
		3P SET	HGH8.0JS		SG8.0JS								
M8	× 1	9	HGH8.0M1	2	SG8.0M1	3	70	30	6.2	5.0	8	C	4
		5	HGH8.0M2		SG8.0M2								
		1.5	HGH8.0M3		SG8.0M3								
		3P SET	HGH8.0MS		SG8.0MS								
M8	× 1.25	9	HGH8.0N1	2	SG6.0M1	3	70	30	6.2	5.0	8	C	4
		5	HGH8.0N2		SG8.0N2								
		1.5	HGH8.0N3		SG8.0N3								
		3P SET	HGH8.0NS		SG8.0NS								
M9	× 0.75	9	HGH9.0J1	2	SG9.0J1	3	62	20	7.0	5.5	8	C	4
		5	HGH9.0J2		SG9.0J2								
		1.5	HGH9.0J3		SG9.0J3								
		3P SET	HGH9.0JS		SG9.0JS								
M9	× 1	9	HGH9.0M1	2	SG9.0M1	3	70	30	7.0	5.5	8	C	4
		5	HGH9.0M2		SG9.0M2								
		1.5	HGH9.0M3		SG9.0M3								
		3P SET	HGH9.0MS		SG9.0MS								
M9	× 1.25	9	HGH9.0N1	2	SG9.0N1	3	72	30	7.0	5.5	8	C	4
		5	HGH9.0N2		SG9.0N2								
		1.5	HGH9.0N3		SG9.0N3								
		3P SET	HGH9.0NS		SG9.0NS								
M10	× 0.5	9	HGH010G1	2	SG010G1	3	55	15	7.0	5.5	8	C	4
		5	HGH010G2		SG010G2								
		1.5	HGH010G3		SG010G3								
		3P SET	HGH010GS		SG010GS								
M10	× 0.75	9	HGH010J1	2	SG010J1	3	62	20	7.0	5.5	8	C	4
		5	HGH010J2		SG010J2								
		1.5	HGH010J3		SG010J3								
		3P SET	HGH010JS		SG010JS								
M10	× 1	9	HGH010M1	2	SG010M1	3	70	30	7.0	5.5	8	C	4
		5	HGH010M2		SG010M2								
		1.5	HGH010M3		SG010M3								
		3P SET	HGH010MS		SG010MS								
M10	× 1.25	9	HGH010N1	2	SG010N1	3	75	32	7.0	5.5	8	C	4
		5	HGH010N2		SG010N2								
		1.5	HGH010N3		SG010N3								
		3P SET	HGH010NS		SG010NS								
M10	× 1.5	9	HGH010O1	2	SG010O1	3	75	32	7.0	5.5	8	C	4
		5	HGH010O2		SG010O2								
		1.5	HGH010O3		SG010O3								
		3P SET	HGH010OS		SG010OS								
M11	× 0.75	9	HGH011J1	2	SG011J1	3	62	20	8.0	6.0	9	C	4
		5	HGH011J2		SG011J2								
		1.5	HGH011J3		SG011J3								
		3P SET	HGH011JS		SG011JS								
M11	× 1	9	HGH011M1	2	SG011M1	3	70	30	8.0	6.0	9	C	4
		5	HGH011M2		SG011M2								
		1.5	HGH011M3		SG011M3								
		3P SET	HGH011MS		SG011MS								
M11	× 1.25	9	HGH011N1	2	SG011N1	3	80	38	8.0	6.0	9	C	4
		5	HGH011N2		SG011N2								
		1.5	HGH011N3		SG011N3								
		3P SET	HGH011NS		SG011NS								
M11	× 1.5	9	HGH011O1	2	SG011O1	3	80	38	8.0	6.0	9	C	4
		5	HGH011O2		SG011O2								
		1.5	HGH011O3		SG011O3								
		3P SET	HGH011OS		SG011OS								
M12	× 0.5	9	HGH012G1	2	SG012G1	3	55	15	8.5	6.5	9	C	4
		5	HGH012G2		SG012G2								
		1.5	HGH012G3		SG012G3								
		3P SET	HGH012GS		SG012GS								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M12	× 0.75	9	HGH012J1	2	SG012J1	3	70	30	8.5	6.5	9	C	4
		5	HGH012J2		SG012J2								
		1.5	HGH012J3		SG012J3								
		3P SET	HGH012JS		SG012JS								
M12	× 1	9	HGH012M1	2	SG012M1	3	70	30	8.5	6.5	9	C	4
		5	HGH012M2		SG012M2								
		1.5	HGH012M3		SG012M3								
		3P SET	HGH012MS		SG012MS								
M12	× 1.25	9	HGH012N1	2	SG012N1	3	80	38	8.5	6.5	9	C	4
		5	HGH012N2		SG012N2								
		1.5	HGH012N3		SG012N3								
		3P SET	HGH012NS		SG012NS								
M12	× 1.5	9	HGH012O1	2	SG012O1	3	82	38	8.5	6.5	9	C	4
		5	HGH012O2		SG012O2								
		1.5	HGH012O3		SG012O3								
		3P SET	HGH012OS		SG012OS								
M12	× 1.75	9	HGH012P1	2	SG012P1	3	82	38	8.5	6.5	9	C	4
		5	HGH012P2		SG012P2								
		1.5	HGH012P3		SG012P3								
		3P SET	HGH012PS		SG012PS								
M13	× 1	9	HGH013M1	2	SG013M1	3	70	30	9.5	7.0	10	C	4
		5	HGH013M2		SG013M2								
		1.5	HGH013M3		SG013M3								
		3P SET	HGH013MS		SG013MS								
M13	× 1.5	9	HGH013O1	2	SG013O1	3	85	42	9.5	7.0	10	C	4
		5	HGH013O2		SG013O2								
		1.5	HGH013O3		SG013O3								
		3P SET	HGH013OS		SG013OS								
M13	× 1.75	9	HGH013P1	2	SG013P1	3	88	42	9.5	7.0	10	C	4
		5	HGH013P2		SG013P2								
		1.5	HGH013P3		SG013P3								
		3P SET	HGH013PS		SG013PS								
M14	× 0.5	9	HGH014G1	2	SG014G1	2	58	15	10.5	8.0	11	C	4
		5	HGH014G2		SG014G2								
		1.5	HGH014G3		SG014G3								
		3P SET	HGH014GS		SG014GS								
M14	× 0.75	9	HGH014J1	2	SG014J1	2	70	30	10.5	8.0	11	C	4
		5	HGH014J2		SG014J2								
		1.5	HGH014J3		SG014J3								
		3P SET	HGH014JS		SG014JS								
M14	× 1	9	HGH014M1	2	SG014M1	3	70	30	10.5	8.0	11	C	4
		5	HGH014M2		SG014M2								
		1.5	HGH014M3		SG014M3								
		3P SET	HGH014MS		SG014MS								
M14	× 1.25	9	HGH014N1	2	SG014N1	3	88	38	10.5	8.0	11	C	4
		5	HGH014N2		SG014N2								
		1.5	HGH014N3		SG014N3								
		3P SET	HGH014NS		SG014NS								
M14	× 1.5	9	HGH014O1	2	SG014O1	3	88	42	10.5	8.0	11	C	4
		5	HGH014O2		SG014O2								
		1.5	HGH014O3		SG014O3								
		3P SET	HGH014OS		SG014OS								
M14	× 2	9	HGH014Q1	2	SG014Q1	3	88	42	10.5	8.0	11	C	4
		5	HGH014Q2		SG014Q2								
		1.5	HGH014Q3		SG014Q3								
		3P SET	HGH014QS		SG014QS								
M15	× 1	9	HGH015M1	2	SG015M1	2	70	30	10.5	8.0	11	C	4
		5	HGH015M2		SG015M2								
		1.5	HGH015M3		SG015M3								
		3P SET	HGH015MS		SG015MS								
M15	× 1.5	9	HGH015O1	2	SG015O1	2	90	42	10.5	8.0	11	C	4
		5	HGH015O2		SG015O2								
		1.5	HGH015O3		SG015O3								
		3P SET	HGH015OS		SG015OS								
M15	× 2	9	HGH015Q1	2	SG015Q1	2	90	42	10.5	8.0	11	C	4
		5	HGH015Q2		SG015Q2								
		1.5	HGH015Q3		SG015Q3								
		3P SET	HGH015QS		SG015QS								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M16	× 0.5	9	HGH016G1	2	SG016G1	2	60	15	12.5	10.0	13	C	4
		5	HGH016G2		SG016G2								
		1.5	HGH016G3		SG016G3								
		3P SET	HGH016GS		SG016GS								
M16	× 0.75	9	HGH016J1	2	SG016J1	2	75	35	12.5	10.0	13	C	4
		5	HGH016J2		SG016J2								
		1.5	HGH016J3		SG016J3								
		3P SET	HGH016JS		SG016JS								
M16	× 1	9	HGH016M1	2	SG016M1	2	75	35	12.5	10.0	13	C	4
		5	HGH016M2		SG016M2								
		1.5	HGH016M3		SG016M3								
		3P SET	HGH016MS		SG016MS								
M16	× 1.25	9	HGH016N1	2	SG016N1	2	95	45	12.5	10.0	13	C	4
		5	HGH016N2		SG016N2								
		1.5	HGH016N3		SG016N3								
		3P SET	HGH016NS		SG016NS								
M16	× 1.5	9	HGH016O1	2	SG016O1	3	95	45	12.5	10.0	13	C	4
		5	HGH016O2		SG016O2								
		1.5	HGH016O3		SG016O3								
		3P SET	HGH016OS		SG016OS								
M16	× 2	9	HGH016Q1	2	SG016Q1	3	95	45	12.5	10.0	13	C	4
		5	HGH016Q2		SG016Q2								
		1.5	HGH016Q3		SG016Q3								
		3P SET	HGH016QS		SG016QS								
M18	× 1	9	HGH018M1	2	SG018M1	2	80	30	14.0	11.0	14	C	4
		5	HGH018M2		SG018M2								
		1.5	HGH018M3		SG018M3								
		3P SET	HGH018MS		SG018MS								
M18	× 1.5	9	HGH018O1	2	SG018O1	2	95	45	14.0	11.0	14	C	4
		5	HGH018O2		SG018O2								
		1.5	HGH018O3		SG018O3								
		3P SET	HGH018OS		SG018OS								
M18	× 2	9	HGH018Q1	2	SG018Q1	2	95	45	14.0	11.0	14	C	4
		5	HGH018Q2		SG018Q2								
		1.5	HGH018Q3		SG018Q3								
		3P SET	HGH018QS		SG018QS								
M18	× 2.5	9	HGH018R1	2	SG018R1	3	100	48	14.0	11.0	14	C	4
		5	HGH018R2		SG018R2								
		1.5	HGH018R3		SG018R3								
		3P SET	HGH018RS		SG018RS								
M19	× 1	9	HGH019M1	2	SG019M1	2	80	30	14.0	11.0	14	C	4
		5	HGH019M2		SG019M2								
		1.5	HGH019M3		SG019M3								
		3P SET	HGH019MS		SG019MS								
M19	× 1.5	9	HGH019O1	2	SG019O1	2	95	45	14.0	11.0	14	C	4
		5	HGH019O2		SG019O2								
		1.5	HGH019O3		SG019O3								
		3P SET	HGH019OS		SG019OS								
M19	× 2	9	HGH019Q1	2	SG019Q1	2	95	45	14.0	11.0	14	C	4
		5	HGH019Q2		SG019Q2								
		1.5	HGH019Q3		SG019Q3								
		3P SET	HGH019QS		SG019QS								
M19	× 2.5	9	HGH019R1	2	SG019R1	2	105	50	14.0	11.0	14	C	4
		5	HGH019R2		SG019R2								
		1.5	HGH019R3		SG019R3								
		3P SET	HGH019RS		SG019RS								
M20	× 1	9	HGH020M1	2	SG020M1	2	80	30	15.0	12.0	15	C	4
		5	HGH020M2		SG020M2								
		1.5	HGH020M3		SG020M3								
		3P SET	HGH020MS		SG020MS								
M20	× 1.5	9	HGH020O1	2	SG020O1	2	95	45	15.0	12.0	15	C	4
		5	HGH020O2		SG020O2								
		1.5	HGH020O3		SG020O3								
		3P SET	HGH020OS		SG020OS								
M20	× 2	9	HGH020Q1	2	SG020Q1	2	95	5	15.0	12.0	15	C	4
		5	HGH020Q2		SG020Q2								
		1.5	HGH020Q3		SG020Q3								
		3P SET	HGH020QS		SG020QS								

SIZE Dia Pitch	食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
		CODE	JC	CODE	JC							
M20 × 2.5	9	HGH020R1	2	SG020R1	2	105	50	15.0	12.0	15	C	4
	5	HGH020R2		SG020R2								
	1.5	HGH020R3		SG020R3								
	3P SET	HGH020RS		SG020RS								
M22 × 1	9	HGH022M1	2	SG022M1	2	85	30	17.0	13.0	16	C	4
	5	HGH022M2		SG022M2								
	1.5	HGH022M3		SG022M3								
	3P SET	HGH022MS		SG022MS								
M22 × 1.5	9	HGH022O1	2	SG022O1	2	95	45	17.0	13.0	16	C	4
	5	HGH022O2		SG022O2								
	1.5	HGH022O3		SG022O3								
	3P SET	HGH022OS		SG022OS								
M22 × 2	9	HGH022Q1	2	SG022Q1	2	95	45	17.0	13.0	16	C	4
	5	HGH022Q2		SG022Q2								
	1.5	HGH022Q3		SG022Q3								
	3P SET	HGH022QS		SG022QS								
M22 × 2.5	9	HGH022R1	2	SG022R1	2	115	55	17.0	13.0	16	C	4
	5	HGH022R2		SG022R2								
	1.5	HGH022R3		SG022R3								
	3P SET	HGH022RS		SG022RS								
M24 × 1	9	HGH024M1	2	SG024M1	2	90	30	19.0	15.0	18	C	4
	5	HGH024M2		SG024M2								
	1.5	HGH024M3		SG024M3								
	3P SET	HGH024MS		SG024MS								
M24 × 1.5	9	HGH024O1	2	SG024O1	2	95	45	19.0	15.0	18	C	4
	5	HGH024O2		SG024O2								
	1.5	HGH024O3		SG024O3								
	3P SET	HGH024OS		SG024OS								
M24 × 2	9	HGH024Q1	2	SG024Q1	2	95	45	19.0	15.0	18	C	4
	5	HGH024Q2		SG024Q2								
	1.5	HGH024Q3		SG024Q3								
	3P SET	HGH024QS		SG024QS								
M24 × 3	9	HGH024S1	2	SG024S1	2	120	58	19.0	15.0	18	C	4
	5	HGH024S2		SG024S2								
	1.5	HGH024S3		SG024S3								
	3P SET	HGH024SS		SG024SS								
M25 × 1	9	HOGH025M1	2	SG025M1	2	95	30	19.0	15.0	18	C	4
	5	HOGH025M2		SG025M2								
	1.5	HOGH025M3		SG025M3								
	3P SET	HOGH025MS		SG025MS								
M25 × 1.5	9	HOGH025O1	2	SG025O1	2	95	45	19.0	15.0	18	C	4
	5	HOGH025O2		SG025O2								
	1.5	HOGH025O3		SG025O3								
	3P SET	HOGH025OS		SG025OS								
M25 × 2	9	HOGH025Q1	2	SG025Q1	2	95	45	19.0	15.0	18	C	4
	5	HOGH025Q2		SG025Q2								
	1.5	HOGH025Q3		SG025Q3								
	3P SET	HOGH025QS		SG025QS								
M25 × 3	9	HOGH025S1	2	SG025S1	2	130	62	19.0	15.0	18	C	4
	5	HOGH025S2		SG025S2								
	1.5	HOGH025S3		SG025S3								
	3P SET	HOGH025SS		SG025SS								
M26 × 1	9	HOGH026M1	2	SG026M1	2	95	30	20.0	15.0	18	C	4
	5	HOGH026M2		SG026M2								
	1.5	HOGH026M3		SG026M3								
	3P SET	HOGH026MS		SG026MS								
M26 × 1.5	9	HOGH026O1	2	SG026O1	2	95	45	20.0	15.0	18	C	4
	5	HOGH026O2		SG026O2								
	1.5	HOGH026O3		SG026O3								
	3P SET	HOGH026OS		SG026OS								
M26 × 2	9	HOGH026Q1	2	SG026Q1	2	95	45	20.0	15.0	18	C	4
	5	HOGH026Q2		SG026Q2								
	1.5	HOGH026Q3		SG026Q3								
	3P SET	HOGH026QS		SG026QS								
M26 × 3	9	HOGH026S1	2	SG026S1	2	130	62	20.0	15.0	18	C	4
	5	HOGH026S2		SG026S2								
	1.5	HOGH026S3		SG026S3								
	3P SET	HOGH026SS		SG026SS								

SIZE Dia Pitch	食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
		CODE	JC	CODE	JC							
M27 × 1	9	HOGH027M1	2	SG027M1	2	95	30	20.0	15.0	18	C	4
	5	HOGH027M2		SG027M2								
	1.5	HOGH027M3		SG027M3								
	3P SET	HOGH027MS		SG027MS								
M27 × 1.5	9	HOGH02701	2	SG02701	2	95	45	20.0	15.0	18	C	4
	5	HOGH02702		SG02702								
	1.5	HOGH02703		SG02703								
	3P SET	HOGH0270S		SG0270S								
M27 × 2	9	HOGH027Q1	2	SG027Q1	2	95	45	20.0	15.0	18	C	4
	5	HOGH027Q2		SG027Q2								
	1.5	HOGH027Q3		SG027Q3								
	3P SET	HOGH027QS		SG027QS								
M27 × 3	9	HOGH027S1	2	SG027S1	2	130	62	20.0	15.0	18	C	4
	5	HOGH027S2		SG027S2								
	1.5	HOGH027S3		SG027S3								
	3P SET	HOGH027SS		SG027SS								
M28 × 1	9	HOGH028M1	2	SG028M1	2	105	30	21.0	17.0	20	C	4
	5	HOGH028M2		SG028M2								
	1.5	HOGH028M3		SG028M3								
	3P SET	HOGH028MS		SG028MS								
M28 × 1.5	9	HOGH02801	2	SG02801	2	105	45	21.0	17.0	20	C	4
	5	HOGH02802		SG02802								
	1.5	HOGH02803		SG02803								
	3P SET	HOGH0280S		SG0280S								
M28 × 2	9	HOGH028Q1	2	SG028Q1	2	105	45	21.0	17.0	20	C	4
	5	HOGH028Q2		SG028Q2								
	1.5	HOGH028Q3		SG028Q3								
	3P SET	HOGH028QS		SG028QS								
M28 × 3	9	HOGH028S1	2	SG028S1	2	135	65	21.0	17.0	20	C	4
	5	HOGH028S2		SG028S2								
	1.5	HOGH028S3		SG028S3								
	3P SET	HOGH028SS		SG028SS								
M30 × 1	9	HOGH030M1	2	SG030M1	2	105	30	23.0	17.0	20	C	4
	5	HOGH030M2		SG030M2								
	1.5	HOGH030M3		SG030M3								
	3P SET	HOGH030MS		SG030MS								
M30 × 1.5	9	HOGH03001	2	SG03001	2	105	45	23.0	17.0	20	C	4
	5	HOGH03002		SG03002								
	1.5	HOGH03003		SG03003								
	3P SET	HOGH0300S		SG0300S								
M30 × 2	9	HOGH030Q1	2	SG030Q1	2	105	45	23.0	17.0	20	C	4
	5	HOGH030Q2		SG030Q2								
	1.5	HOGH030Q3		SG030Q3								
	3P SET	HOGH030QS		SG030QS								
M30 × 2.5	9	HOGH030R1	2	SG030R1	2	130	62	23.0	17.0	20	C	4
	5	HOGH030R2		SG030R2								
	1.5	HOGH030R3		SG030R3								
	3P SET	HOGH030RS		SG030RS								
M30 × 3	9	HOGH030S1	2	SG030S1	2	135	65	23.0	17.0	20	C	4
	5	HOGH030S2		SG030S2								
	1.5	HOGH030S3		SG030S3								
	3P SET	HOGH030SS		SG030SS								
M30 × 3.5	9	HOGH030T1	2	SG030T1	2	135	65	23.0	17.0	20	C	4
	5	HOGH030T2		SG030T2								
	1.5	HOGH030T3		SG030T3								
	3P SET	HOGH030TS		SG030TS								
M32 × 1	9	HOGH032M1	2	SG032M1	2	105	30	24.0	19.0	22	C	4
	5	HOGH032M2		SG032M2								
	1.5	HOGH032M3		SG032M3								
	3P SET	HOGH032MS		SG032MS								
M32 × 1.5	9	HOGH03201	2	SG03201	2	105	45	24.0	19.0	22	C	4
	5	HOGH03202		SG03202								
	1.5	HOGH03203		SG03203								
	3P SET	HOGH0320S		SG0320S								
M32 × 2	9	HOGH032Q1	2	SG032Q1	2	105	45	24.0	19.0	22	C	4
	5	HOGH032Q2		SG032Q2								
	1.5	HOGH032Q3		SG032Q3								
	3P SET	HOGH032QS		SG032QS								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M32	× 2.5	9	HOGH032R1	2	SG032R1	2	130	62	24.0	19.0	22	C	4
		5	HOGH032R2		SG032R2								
		1.5	HOGH032R3		SG032R3								
		3P SET	HOGH032RS		SG032RS								
M32	× 3	9	HOGH032S1	2	SG032S1	2	145	70	24.0	19.0	22	C	4
		5	HOGH032S2		SG032S2								
		1.5	HOGH032S3		SG032S3								
		3P SET	HOGH032SS		SG032SS								
M33	× 1	9	HOGH033M1	2	SG033M1	2	110	30	25.0	19.0	22	C	4
		5	HOGH033M2		SG033M2								
		1.5	HOGH033M3		SG033M3								
		3P SET	HOGH033MS		SG033MS								
M33	× 1.5	9	HOGH033O1	2	SG033O1	2	110	45	25.0	19.0	22	C	4
		5	HOGH033O2		SG033O2								
		1.5	HOGH033O3		SG033O3								
		3P SET	HOGH033OS		SG033OS								
M33	× 2	9	HOGH033Q1	2	SG033Q1	2	110	45	25.0	19.0	22	C	4
		5	HOGH033Q2		SG033Q2								
		1.5	HOGH033Q3		SG033Q3								
		3P SET	HOGH033QS		SG033QS								
M33	× 3	9	HOGH033S1	2	SG033S1	2	145	70	25.0	19.0	22	C	4
		5	HOGH033S2		SG033S2								
		1.5	HOGH033S3		SG033S3								
		3P SET	HOGH033SS		SG033SS								
M33	× 3.5	9	HOGH033T1	2	SG033T1	2	145	70	25.0	19.0	22	C	4
		5	HOGH033T2		SG033T2								
		1.5	HOGH033T3		SG033T3								
		3P SET	HOGH033TS		SG033TS								
M34	× 1.5	9	HOGH034O1	2	SG034O1	2	110	45	26.0	21.0	24	C	4
		5	HOGH034O2		SG034O2								
		1.5	HOGH034O3		SG034O3								
		3P SET	HOGH034OS		SG034OS								
M34	× 2	9	HOGH034Q1	2	SG034Q1	2	110	45	26.0	21.0	24	C	4
		5	HOGH034Q2		SG034Q2								
		1.5	HOGH034Q3		SG034Q3								
		3P SET	HOGH034QS		SG034QS								
M35	× 1.5	9	HOGH035O1	2	SG035O1	2	110	45	26.0	21.0	24	C	4
		5	HOGH035O2		SG035O2								
		1.5	HOGH035O3		SG035O3								
		3P SET	HOGH035OS		SG035OS								
M35	× 2	9	HOGH035Q1	2	SG035Q1	2	110	45	26.0	21.0	24	C	4
		5	HOGH035Q2		SG035Q2								
		1.5	HOGH035Q3		SG035Q3								
		3P SET	HOGH035QS		SG035QS								
M36	× 1	9	HOGH036M1	2	SG036M1	2	110	30	28.0	21.0	24	C	4
		5	HOGH036M2		SG036M2								
		1.5	HOGH036M3		SG036M3								
		3P SET	HOGH036MS		SG036MS								
M36	× 1.5	9	HOGH036O1	2	SG036O1	2	110	45	28.0	21.0	24	C	4
		5	HOGH036O2		SG036O2								
		1.5	HOGH036O3		SG036O3								
		3P SET	HOGH036OS		SG036OS								
M36	× 2	9	HOGH036Q1	2	SG036Q1	2	110	45	28.0	21.0	24	C	4
		5	HOGH036Q2		SG036Q2								
		1.5	HOGH036Q3		SG036Q3								
		3P SET	HOGH036QS		SG036QS								
M36	× 3	9	HOGH036S1	2	SG036S1	2	155	75	28.0	21.0	24	C	4
		5	HOGH036S2		SG036S2								
		1.5	HOGH036S3		SG036S3								
		3P SET	HOGH036SS		SG036SS								
M36	× 4	9	HOGH036U1	2	SG036U1	2	155	75	28.0	21.0	24	C	4
		5	HOGH036U2		SG036U2								
		1.5	HOGH036U3		SG036U3								
		3P SET	HOGH036US		SG036US								
M37	× 1.5	9	HOGH037O1	2	SG037O1	2	115	45	28.0	21.0	24	C	4
		5	HOGH037O2		SG037O2								
		1.5	HOGH037O3		SG037O3								
		3P SET	HOGH037OS		SG037OS								

SIZE Dia Pitch	食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
		CODE	JC	CODE	JC							
M37 × 1	9	HOGH037M1	2	SG037M1	2	115	30	28.0	21.0	24	C	4
	5	HOGH037M2		SG037M2								
	1.5	HOGH037M3		SG037M3								
	3P SET	HOGH037MS		SG037MS								
M38 × 1.5	9	HOGH03801	2	SG03801	2	115	45	28.0	21.0	24	C	4
	5	HOGH03802		SG03802								
	1.5	HOGH03803		SG03803								
	3P SET	HOGH0380S		SG0380S								
M38 × 2	9	HOGH038Q1	2	SG038Q1	2	115	45	28.0	21.0	24	C	4
	5	HOGH038Q2		SG038Q2								
	1.5	HOGH038Q3		SG038Q3								
	3P SET	HOGH038QS		SG038QS								
M39 × 1	9	HOGH039M1	2	SG039M1	2	115	30	30.0	23.0	26	C	4
	5	HOGH039M2		SG039M2								
	1.5	HOGH039M3		SG039M3								
	3P SET	HOGH039MS		SG039MS								
M39 × 1.5	9	HOGH03901	2	SG03901	2	115	45	30.0	23.0	26	C	4
	5	HOGH03902		SG03902								
	1.5	HOGH03903		SG03903								
	3P SET	HOGH0390S		SG0390S								
M39 × 2	9	HOGH039Q1	2	SG039Q1	2	115	45	30.0	23.0	26	C	4
	5	HOGH039Q2		SG039Q2								
	1.5	HOGH039Q3		SG039Q3								
	3P SET	HOGH039QS		SG039QS								
M39 × 3	9	HOGH039S1	2	SG039S1	2	165	80	30.0	23.0	26	C	4
	5	HOGH039S2		SG039S2								
	1.5	HOGH039S3		SG039S3								
	3P SET	HOGH039SS		SG039SS								
M39 × 4	9	HOGH039U1	2	SG039U1	2	165	80	30.0	23.0	26	C	4
	5	HOGH039U2		SG039U2								
	1.5	HOGH039U3		SG039U3								
	3P SET	HOGH039US		SG039US								
M40 × 1	9	HOGH040M1	2	SG040M1	2	115	30	30.0	23.0	26	C	4
	5	HOGH040M2		SG040M2								
	1.5	HOGH040M3		SG040M3								
	3P SET	HOGH040MS		SG040MS								
M40 × 1.5	9	HOGH04001	2	SG04001	2	115	45	30.0	23.0	26	C	4
	5	HOGH04002		SG04002								
	1.5	HOGH04003		SG04003								
	3P SET	HOGH0400S		SG0400S								
M40 × 2	9	HOGH040Q1	2	SG040Q1	2	115	45	30.0	23.0	26	C	4
	5	HOGH040Q2		SG040Q2								
	1.5	HOGH040Q3		SG040Q3								
	3P SET	HOGH040QS		SG040QS								
M40 × 3	9	HOGH040S1	2	SG040S1	2	165	80	30.0	23.0	26	C	4
	5	HOGH040S2		SG040S2								
	1.5	HOGH040S3		SG040S3								
	3P SET	HOGH040SS		SG040SS								
M42 × 1	9	HOGH042M1	2	SG042M1	2	120	30	32.0	26.0	30	C	4
	5	HOGH042M2		SG042M2								
	1.5	HOGH042M3		SG042M3								
	3P SET	HOGH042MS		SG042MS								
M42 × 1.5	9	HOGH04201	2	SG04201	2	120	45	32.0	26.0	30	C	4
	5	HOGH04202		SG04202								
	1.5	HOGH04203		SG04203								
	3P SET	HOGH0420S		SG0420S								
M42 × 2	9	HOGH042Q1	2	SG042Q1	2	120	45	32.0	26.0	30	C	4
	5	HOGH042Q2		SG042Q2								
	1.5	HOGH042Q3		SG042Q3								
	3P SET	HOGH042QS		SG042QS								
M42 × 3	9	HOGH042S1	2	SG042S1	2	175	80	32.0	26.0	30	C	4
	5	HOGH042S2		SG042S2								
	1.5	HOGH042S3		SG042S3								
	3P SET	HOGH042SS		SG042SS								
M42 × 4	9	HOGH042U1	2	SG042U1	2	175	80	32.0	26.0	30	C	4
	5	HOGH042U2		SG042U2								
	1.5	HOGH042U3		SG042U3								
	3P SET	HOGH042US		SG042US								

SIZE		食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
Dia	Pitch		CODE	JC	CODE	JC							
M42	× 4.5	9	H0GH042V1	2	SG042V1	2	175	85	32.0	26.0	30	C	4
		5	H0GH042V2		SG042V2								
		1.5	H0GH042V3		SG042V3								
		3P SET	H0GH042VS		SG042VS								
M45	× 1	9	H0GH045M1	2	SG045M1	2	120	30	35.0	26.0	30	C	4
		5	H0GH045M2		SG045M2								
		1.5	H0GH045M3		SG045M3								
		3P SET	H0GH045MS		SG045MS								
M45	× 1.5	9	H0GH042V1	2	SG04501	2	120	45	35.0	26.0	30	C	4
		5	H0GH042V2		SG04502								
		1.5	H0GH042V3		SG04503								
		3P SET	H0GH042VS		SG0450S								
M45	× 2	9	H0GH045Q1	2	SG045Q1	2	120	45	35.0	26.0	30	C	4
		5	H0GH045Q2		SG045Q2								
		1.5	H0GH045Q3		SG045Q3								
		3P SET	H0GH045QS		SG045QS								
M45	× 3	9	H0GH045S1	2	SG045S1	2	180	80	35.0	26.0	30	C	4
		5	H0GH045S2		SG045S2								
		1.5	H0GH045S3		SG045S3								
		3P SET	H0GH045SS		SG045SS								
M45	× 4	9	H0GH045U1	2	SG045U1	2	180	80	35.0	26.0	30	C	4
		5	H0GH045U2		SG045U2								
		1.5	H0GH045U3		SG045U3								
		3P SET	H0GH045US		SG045US								
M45	× 4.5	9	H0GH045V1	2	SG045V1	2	180	85	35.0	26.0	30	C	4
		5	H0GH045V2		SG045V2								
		1.5	H0GH045V3		SG045V3								
		3P SET	H0GH045VS		SG045VS								
M46	× 1.5	9	H0GH04601	2	SG04601	2	125	45	35.0	26.0	30	C	4
		5	H0GH04602		SG04602								
		1.5	H0GH04603		SG04603								
		3P SET	H0GH0460S		SG0460S								
M48	× 1.5	9	H0GH04801	2	SG04801	2	125	45	38.0	29.0	32	C	4
		5	H0GH04802		SG04802								
		1.5	H0GH04803		SG04803								
		3P SET	H0GH0480S		SG0480S								
M48	× 2	9	H0GH048Q1	2	SG048Q1	2	125	45	38.0	29.0	32	C	4
		5	H0GH048Q2		SG048Q2								
		1.5	H0GH048Q3		SG048Q3								
		3P SET	H0GH048Q1		SG048QS								
M48	× 3	9	H0GH048S1	2	SG048S1	2	180	80	38.0	29.0	32	C	4
		5	H0GH048S2		SG048S2								
		1.5	H0GH048S3		SG048S3								
		3P SET	H0GH048SS		SG048SS								
M48	× 4	9	H0GH048U1	2	SG048U1	2	180	80	38.0	29.0	32	C	4
		5	H0GH048U2		SG048U2								
		1.5	H0GH048U3		SG048U3								
		3P SET	H0GH048US		SG048US								
M48	× 5	9	H0GH048W1	2	SG048W1	2	185	90	38.0	29.0	32	C	4
		5	H0GH048W2		SG048W2								
		1.5	H0GH048W3		SG048W3								
		3P SET	H0GH048WS		SG048WS								

ミリねじ ステンレス用ハンドタップ Hand Tap for Stainless steel (Metric)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
 (Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
 ②材質：HSSE (Material) ③表面処理：ホモ処理 (Surface: OX)

ステンレス鋼、炭素鋼、合金鋼に適します。Suitable for tapping in materials such as Stainless steels, heat resistant steels, Carbon steels and Alloy steels.

表25 M HT SUS

Table 25

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

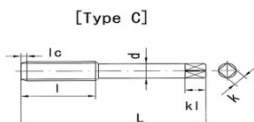
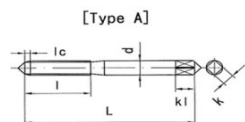
☆3P SETは先・中・上の3本1組です。("3P SET" consists of taper, plug and bottom)

(Unit: mm)

SIZE		食付 Chamfer	CODE	L	l	d	K	Kl	Type	F	JC
Dia	Pitch										
M2 × 0.4		9	HSOH2.0E1	40	15	3.0	2.5	5	A	3	2
		5	HSOH2.0E2								
		1.5	HSOH2.0E3								
		3P SET	HSOH2.0ES								
M3 × 0.5		9	HSOH3.0G1	46	18	4.0	3.2	6	A	3	2
		5	HSOH3.0G2								
		1.5	HSOH3.0G3								
		3P SET	HSOH3.0GS								
M4 × 0.7		9	HSOH4.0I1	52	20	5.0	4.0	7	A	3	2
		5	HSOH4.0I2								
		1.5	HSOH4.0I3								
		3P SET	HSOH4.0IS								
M5 × 0.8		9	HSOH5.0K1	60	22	5.5	4.5	7	A	3	2
		5	HSOH5.0K2								
		1.5	HSOH5.0K3								
		3P SET	HSOH5.0KS								
M5 × 0.9		9	HSOH5.0L1	60	22	5.5	4.5	7	A	3	2
		5	HSOH5.0L2								
		1.5	HSOH5.0L3								
		3P SET	HSOH5.0LS								
M6 × 1		9	HSOH6.0M1	62	24	6.0	4.5	7	A	3	2
		5	HSOH6.0M2								
		1.5	HSOH6.0M3								
		3P SET	HSOH6.0MS								
M8 × 1		9	HSVH8.0M1	70	30	6.2	5.0	8	C	4	2
		5	HSVH8.0M2								
		1.5	HSVH8.0M3								
		3P SET	HSVH8.0MS								
M8 × 1.25		9	HSVH8.0N1	70	30	6.2	5.0	8	C	4	2
		5	HSVH8.0N2								
		1.5	HSVH8.0N3								
		3P SET	HSVH8.0NS								
M10 × 1.25		9	HSVH010N1	75	32	7.0	5.5	8	C	4	2
		5	HSVH010N2								
		1.5	HSVH010N3								
		3P SET	HSVH010NS								
M10 × 1.5		9	HSVH010O1	75	32	7.0	5.5	8	C	4	2
		5	HSVH010O2								
		1.5	HSVH010O3								
		3P SET	HSVH010OS								
M12 × 1.25		9	HSVH012N1	80	38	8.5	6.5	9	C	4	2
		5	HSVH012N2								
		1.5	HSVH012N3								
		3P SET	HSVH012NS								
M12 × 1.5		9	HSVH012O1	82	38	8.5	6.5	9	C	4	2
		5	HSVH012O2								
		1.5	HSVH012O3								
		3P SET	HSVH012OS								
M12 × 1.75		9	HSVH012P1	82	38	8.5	6.5	9	C	4	2
		5	HSVH012P2								
		1.5	HSVH012P3								
		3P SET	HSVH012PS								

SIZE		食付 Chamfer	CODE	L	l	d	K	Kl	Type	F	JC
Dia	Pitch										
M14	× 1.5	9	HSVH01401	88	42	105	80	11	C	4	2
		5	HSVH01402								
		1.5	HSVH01403								
		3P SET	HSVH0140S								
M14	× 2	9	HSVH014Q1	88	42	105	80	11	C	4	2
		5	HSVH014Q2								
		1.5	HSVH014Q3								
		3P SET	HSVH014QS								
M16	× 1.5	9	HSVH01601	95	45	125	100	13	C	4	2
		5	HSVH01602								
		1.5	HSVH01603								
		3P SET	HSVH0160S								
M16	× 2	9	HSVH016Q1	95	45	125	100	13	C	4	2
		5	HSVH016Q2								
		1.5	HSVH016Q3								
		3P SET	HSVH016QS								
M18	× 1.5	9	HSVH01801	95	45	140	110	14	C	4	2
		5	HSVH01802								
		1.5	HSVH01803								
		3P SET	HSVH0180S								
M18	× 2.5	9	HSVH018R1	100	48	140	110	14	C	4	2
		5	HSVH018R2								
		1.5	HSVH018R3								
		3P SET	HSVH018RS								
M20	× 1.5	9	HSVH02001	95	45	150	120	15	C	4	2
		5	HSVH02002								
		1.5	HSVH02003								
		3P SET	HSVH0200S								
M20	× 2.5	9	HSVH020R1	105	50	150	120	15	C	4	2
		5	HSVH020R2								
		1.5	HSVH020R3								
		3P SET	HSVH020RS								
M22	× 1.5	9	HSVH02201	95	45	170	130	16	C	4	2
		5	HSVH02202								
		1.5	HSVH02203								
		3P SET	HSVH0220S								
M22	× 2.5	9	HSVH022R1	115	55	170	130	16	C	4	2
		5	HSVH022R2								
		1.5	HSVH022R3								
		3P SET	HSVH022RS								
M24	× 1.5	9	HSVH02401	95	45	190	150	18	C	4	2
		5	HSVH02402								
		1.5	HSVH02403								
		3P SET	HSVH0240S								
M24	× 3	9	HSVH024S1	120	58	190	150	18	C	4	2
		5	HSVH024S2								
		1.5	HSVH024S3								
		3P SET	HSVH024SS								

ウィットねじ ハンドタップ Hand Tap (Whitworth)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
 (Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
 ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表26 W HT Table 26

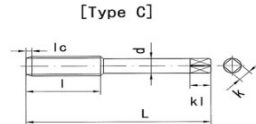
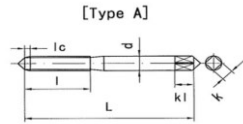
*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)
 ☆3P SETは先・中・上の3本1組です。(“3P SET” consists of taper, plug and bottom)

(Unit: mm)

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
1/16 - 60	9	HGHW01A21	2	SGW01A21	3	40	9.0	3.0	2.5	5.0	A	3
	5	HGHW01A22		SGW01A22								
	1.5	HGHW01A23		SGW01A23								
	3P SET	HGHW01A2S		SGW01A2S								
1/8 - 40	9	HGHW02G1	2	SGW02G1	3	46	18.0	4.0	3.2	6.0	A	3
	5	HGHW02G2		SGW02G2								
	1.5	HGHW02G3		SGW02G3								
	3P SET	HGHW02GS		SGW02GS								
5/32 - 32	9	HGHW0B11	2	SGW0B11	3	52	20.0	5.0	4.0	7.0	A	3
	5	HGHW0B12		SGW0B12								
	1.5	HGHW0B13		SGW0B13								
	3P SET	HGHW0B1S		SGW0B1S								
3/16 - 24	9	HGHW03L1	2	SGW03L1	3	60	22.0	5.5	4.5	7.0	A	3
	5	HGHW03L2		SGW03L2								
	1.5	HGHW03L3		SGW03L3								
	3P SET	HGHW03LS		SGW03LS								
7/32 - 24	9	HGHW0CL1	2	SGW0CL1	3	60	22.0	5.5	4.5	7.0	A	3
	5	HGHW0CL2		SGW0CL2								
	1.5	HGHW0CL3		SGW0CL3								
	3P SET	HGHW0CLS		SGW0CLS								
1/4 - 20	9	HGHW04M1	2	SGW04M1	3	62	24.0	6.0	4.5	7.0	A	3
	5	HGHW04M2		SGW04M2								
	1.5	HGHW04M3		SGW04M3								
	3P SET	HGHW04MS		SGW04MS								
W 5/16 - 18	9	HGHW0501	2	SGW0501	3	70	30.0	6.1	5.0	8.0	C	4
	5	HGHW0502		SGW0502								
	1.5	HGHW0503		SGW0503								
	3P SET	HGHW050S		SGW050S								
3/8 - 16	9	HGHW06P1	2	SGW06P1	3	75	35.0	7.0	5.5	8.0	C	4
	5	HGHW06P2		SGW06P2								
	1.5	HGHW06P3		SGW06P3								
	3P SET	HGHW06PS		SGW06PS								
7/16 - 14	9	HOGHW07Q1	2	SGW07Q1	3	80	38.0	8.0	6.0	9.0	C	4
	5	HOGHW07Q2		SGW07Q2								
	1.5	HOGHW07Q3		SGW07Q3								
	3P SET	HOGHW07QS		SGW07QS								
1/2 - 12	9	HOGHW08R1	2	SGW08R1	3	85	42.0	9.0	7.0	10.0	C	4
	5	HOGHW08R2		SGW08R2								
	1.5	HOGHW08R3		SGW08R3								
	3P SET	HOGHW08RS		SGW08RS								
9/16 - 12	9	HOGHW09R1	2	SGW09R1	3	90	42.0	10.5	8.0	11.0	C	4
	5	HOGHW09R2		SGW09R2								
	1.5	HOGHW09R3		SGW09R3								
	3P SET	HOGHW09RS		SGW09RS								
5/8 - 11	9	HOGHW10T1	2	SGW10T1	3	95	45.0	12.0	9.0	12.0	C	4
	5	HOGHW10T2		SGW10T2								
	1.5	HOGHW10T3		SGW10T3								
	3P SET	HOGHW10TS		SGW10TS								
3/4 - 10	9	HOGHW12U1	2	SGW12U1	3	105	50.0	14.0	11	14.0	C	4
	5	HOGHW12U2		SGW12U2								
	1.5	HOGHW12U3		SGW12U3								
	3P SET	HOGHW12US		SGW12US								

SIZE	食付 Chamfer	HSS		SKS		L	I	d	K	KI	Type	F
		CODE	JC	CODE	JC							
7/8 - 9	9	HOGHW14V1	2	SGW14V1	3	115	55.0	17.0	13	16.0	C	4
	5	HOGHW14V2		SGW14V2								
	1.5	HOGHW14V3		SGW14V3								
	3P SET	HOGHW14VS		SGW14VS								
1" - 8	9	HOGHW16W1	2	SGW16W1	3	125	60.0	20.0	15	18.0	C	4
	5	HOGHW16W2		SGW16W2								
	1.5	HOGHW16W3		SGW16W3								
	3P SET	HOGHW16WS		SGW16WS								
1"1/8 - 7	9	HOGHW18A01	2	SGW18A01	3	135	65.0	22.0	17	20.0	C	4
	5	HOGHW18A02		SGW18A02								
	1.5	HOGHW18A03		SGW18A03								
	3P SET	HOGHW18A0S		SGW18A0S								
1"1/4 - 7	9	HOGHW20A01	2	SGW20A01	3	145	70.0	24.0	19	22.0	C	4
	5	HOGHW20A02		SGW20A02								
	1.5	HOGHW20A03		SGW20A03								
	3P SET	HOGHW20A0S		SGW20A0S								
1"3/8 - 6	9	HOGHW22X1	2	SGW22X1	3	155	75.0	26.0	21	24.0	C	4
	5	HOGHW22X2		SGW22X2								
	1.5	HOGHW22X3		SGW22X3								
	3P SET	HOGHW22XS		SGW22XS								
1"1/2 - 6	9	HOGHW24X1	2	SGW24X1	3	160	78.0	30.0	23	26.0	C	4
	5	HOGHW24X2		SGW24X2								
	1.5	HOGHW24X3		SGW24X3								
	3P SET	HOGHW24XS		SGW24XS								
1"5/8 - 5	9	HOGHW26Y1	2	SGW26Y1	3	170	82.0	32.0	26.0	30.0	C	4
	5	HOGHW26Y2		SGW26Y2								
	1.5	HOGHW26Y3		SGW26Y3								
	3P SET	HOGHW26YS		SGW26YS								
1"3/4 - 5	9	HOGHW28Y1	2	SGW28Y1	3	175	85.0	35.0	26.0	30.0	C	4
	5	HOGHW28Y2		SGW28Y2								
	1.5	HOGHW28Y3		SGW28Y3								
	3P SET	HOGHW28YS		SGW28YS								
1"7/8 - 4.1/2	9	HOGHW30Z1	2	SGW30Z1	3	185	90.0	38.0	29.0	32.0	C	4
	5	HOGHW30Z2		SGW30Z2								
	1.5	HOGHW30Z3		SGW30Z3								
	3P SET	HOGHW30ZS		SGW30ZS								
2" - 4.1/2	9	HOGHW32Z1	2	SGW32Z1	3	195	92.0	40.0	32.0	35.0	C	6
	5	HOGHW32Z2		SGW32Z2								
	1.5	HOGHW32Z3		SGW32Z3								
	3P SET	HOGHW32ZS		SGW32ZS								

ユニファイ並目ねじ ハンドタップ Hand Tap (Unified Coarse thread tap)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
(Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
- ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表27 UNC HT

Table 27

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

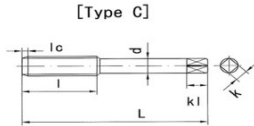
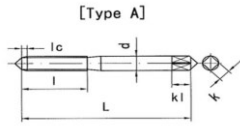
☆3P SETは先・中・上の3本1組です。(“3P SET” consists of taper, plug and bottom)

(Unit: mm)

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
No.1 - 64	9	HGHUN1C1	2	SGUN1C1	3	36	13	3.0	2.5	5.0	A	3
	5	HGHUN1C2		SGUN1C2								
	1.5	HGHUN1C3		SGUN1C3								
	3P SET	HGHUN1CS		SGUN1CS								
No.2 - 56	9	HGHUN2D1	2	SGUN2D1	3	42	15	3.0	2.5	5.0	A	3
	5	HGHUN2D2		SGUN2D2								
	1.5	HGHUN2D3		SGUN2D3								
	3P SET	HGHUN2DS		SGUN2DS								
No.3 - 48	9	HGHUN3E1	2	SGUN3E1	3	44	16	3.0	2.5	5.0	A	3
	5	HGHUN3E2		SGUN3E2								
	1.5	HGHUN3E3		SGUN3E3								
	3P SET	HGHUN3ES		SGUN3ES								
No.4 - 40	9	HGHUN4G1	2	SGUN4G1	3	44	16	3.0	2.5	5.0	A	3
	5	HGHUN4G2		SGUN4G2								
	1.5	HGHUN4G3		SGUN4G3								
	3P SET	HGHUN4GS		SGUN4GS								
No.5 - 40	9	HGHUN5G1	2	SGUN5G1	3	46	18	4.0	3.2	6.0	A	3
	5	HGHUN5G2		SGUN5G2								
	1.5	HGHUN5G3		SGUN5G3								
	3P SET	HGHUN5GS		SGUN5GS								
No.6 - 32	9	HGHUN6I1	2	SGUN6I1	3	48	18	4.0	3.2	6.0	A	3
	5	HGHUN6I2		SGUN6I2								
	1.5	HGHUN6I3		SGUN6I3								
	3P SET	HGHUN6IS		SGUN6IS								
No.8 - 32	9	HGHUN8I1	2	SGUN8I1	3	52	20	5.0	4.0	7.0	A	3
	5	HGHUN8I2		SGUN8I2								
	1.5	HGHUN8I3		SGUN8I3								
	3P SET	HGHUN8IS		SGUN8IS								
No.10 - 24	9	HGHUNAL1	2	SGUNAL1	3	60	22	5.5	4.5	7.0	A	3
	5	HGHUNAL2		SGUNAL2								
	1.5	HGHUNAL3		SGUNAL3								
	3P SET	HGHUNALS		SGUNALS								
No.12 - 24	9	HGHUNBL1	2	SGUNBL1	3	60	22	5.5	4.5	7.0	A	3
	5	HGHUNBL2		SGUNBL2								
	1.5	HGHUNBL3		SGUNBL3								
	3P SET	HGHUNBLS		SGUNBLS								
1/4 - 20	9	HGHU04M1	2	SGU04M1	3	62	24	6.0	4.5	7.0	A	3
	5	HGHU04M2		SGU04M2								
	1.5	HGHU04M3		SGU04M3								
	3P SET	HGHU04MS		SGU04MS								
5/16 - 18	9	HGHU05O1	2	SGU05O1	3	70	30	6.1	5.0	8.0	C	4
	5	HGHU05O2		SGU05O2								
	1.5	HGHU05O3		SGU05O3								
	3P SET	HGHU05OS		SGU05OS								
3/8 - 16	9	HGHU06P1	2	SGU06P1	3	75	35	7.0	5.5	8.0	C	4
	5	HGHU06P2		SGU06P2								
	1.5	HGHU06P3		SGU06P3								
	3P SET	HGHU06PS		SGU06PS								
7/16 - 14	9	HOGHU07Q1	2	SGU07Q1	3	80	38	8.0	6	9.0	C	4
	5	HOGHU07Q2		SGU07Q2								
	1.5	HOGHU07Q3		SGU07Q3								
	3P SET	HOGHU07QS		SGU07QS								

SIZE	食付 Chamfer	HSS		SKS		L	I	d	K	KI	Type	F
		CODE	JC	CODE	JC							
1/2 - 13	9	H0GHU08A11	2	SGU08A11	3	85	42	9.0	7	10.0	C	4
	5	H0GHU08A12		SGU08A12								
	1.5	H0GHU08A13		SGU08A13								
	3P SET	H0GHU08A1S		SGU08A1S								
9/16 - 12	9	H0GHU09R1	2	SGU09R1	3	90	42	10.5	8	11.0	C	4
	5	H0GHU09R2		SGU09R2								
	1.5	H0GHU09R3		SGU09R3								
	3P SET	H0GHU09RS		SGU09RS								
5/8 - 11	9	H0GHU10T1	2	SGU10T1	3	95	45	12.0	9	12.0	C	4
	5	H0GHU10T2		SGU10T2								
	1.5	H0GHU10T3		SGU10T3								
	3P SET	H0GHU10TS		SGU10TS								
3/4 - 10	9	H0GHU12U1	2	SGU12U1	3	105	50	14.0	11	14.0	C	4
	5	H0GHU12U2		SGU12U2								
	1.5	H0GHU12U3		SGU12U3								
	3P SET	H0GHU12US		SGU12US								
7/8 - 9	9	H0GHU14V1	2	SGU14V1	3	115	55	17.0	13	16.0	C	4
	5	H0GHU14V2		SGU14V2								
	1.5	H0GHU14V3		SGU14V3								
	3P SET	H0GHU14VS		SGU14VS								
1" - 8	9	H0GHU16W1	2	SGU16W1	3	125	60	20.0	15	18.0	C	4
	5	H0GHU16W2		SGU16W2								
	1.5	H0GHU16W3		SGU16W3								
	3P SET	H0GHU16WS		SGU16WS								
1"1/8 - 7	9	H0GHU18A01	2	SGU18A01	3	135	65	22.0	17	20.0	C	4
	5	H0GHU18A02		SGU18A02								
	1.5	H0GHU18A03		SGU18A03								
	3P SET	H0GHU18A0S		SGU18A0S								
1"1/4 - 7	9	H0GHU20A01	2	SGU20A01	3	145	70	24.0	19	22.0	C	4
	5	H0GHU20A02		SGU20A02								
	1.5	H0GHU20A03		SGU20A03								
	3P SET	H0GHU20A0S		SGU20A0S								
1"3/8 - 6	9	H0GHU22X1	2	SGU22X1	3	155	75	26.0	21	24.0	C	4
	5	H0GHU22X2		SGU22X2								
	1.5	H0GHU22X3		SGU22X3								
	3P SET	H0GHU22XS		SGU22XS								
1"1/2 - 6	9	H0GHU24X1	2	SGU24X1	3	160	78	30.0	23	26.0	C	4
	5	H0GHU24X2		SGU24X2								
	1.5	H0GHU24X3		SGU24X3								
	3P SET	H0GHU24XS		SGU24XS								
1"3/4 - 5	9	H0GHU28Y1	2	SGU28Y1	3	175	85	35.0	26	30.0	C	4
	5	H0GHU28Y2		SGU28Y2								
	1.5	H0GHU28Y3		SGU28Y3								
	3P SET	H0GHU28YS		SGU28YS								
2" - 4.1/2	9	H0GHU32Z1	2	SGU32Z1	3	195	92	40.0	32	35.0	C	4
	5	H0GHU32Z2		SGU32Z2								
	1.5	H0GHU32Z3		SGU32Z3								
	3P SET	H0GHU32ZS		SGU32ZS								

ユニファイ細目ねじ ハンドタップ Hand Tap (Unified Fine thread tap)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
(Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
- ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表28 UNF HT Table 28

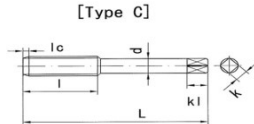
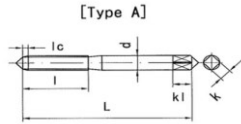
*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)
 ☆3P SETは先・中・上の3本1組です。("3P SET" consists of taper, plug and bottom)

(Unit: mm)

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
No.1 - 72	9	HGHUN1B1	2	SGUN1B1	3	36	13	3.0	2.5	5.0	A	3
	5	HGHUN1B2		SGUN1B2								
	1.5	HGHUN1B3		SGUN1B3								
	3P SET	HGHUN1BS		SGUN1BS								
No.2 - 64	9	HGHUN2C1	2	SGUN2C1	3	42	15	3.0	2.5	5.0	A	3
	5	HGHUN2C2		SGUN2C2								
	1.5	HGHUN2C3		SGUN2C3								
	3P SET	HGHUN2CS		SGUN2CS								
No.3 - 56	9	HGHUN3D1	2	SGUN3D1	3	44	16	3.0	2.5	5.0	A	3
	5	HGHUN3D2		SGUN3D2								
	1.5	HGHUN3D3		SGUN3D3								
	3P SET	HGHUN3DS		SGUN3DS								
No.4 - 48	9	HGHUN4E1	2	SGUN4E1	3	44	16	3.0	2.5	5.0	A	3
	5	HGHUN4E2		SGUN4E2								
	1.5	HGHUN4E3		SGUN4E3								
	3P SET	HGHUN4ES		SGUN4ES								
No.5 - 44	9	HGHUN5F1	2	SGUN5F1	3	46	18	4.0	3.2	6.0	A	3
	5	HGHUN5F2		SGUN5F2								
	1.5	HGHUN5F3		SGUN5F3								
	3P SET	HGHUN5FS		SGUN5FS								
No.6 - 40	9	HGHUN6G1	2	SGUN6G1	3	48	18	4.0	3.2	6.0	A	3
	5	HGHUN6G2		SGUN6G2								
	1.5	HGHUN6G3		SGUN6G3								
	3P SET	HGHUN6GS		SGUN6GS								
No.8 - 36	9	HGHUN8H1	2	SGUN8H1	3	52	20	5.0	4.0	7.0	A	3
	5	HGHUN8H2		SGUN8H2								
	1.5	HGHUN8H3		SGUN8H3								
	3P SET	HGHUN8HS		SGUN8HS								
No.10 - 32	9	HGHUNA11	2	SGUNA11	3	60	22	5.5	4.5	7.0	A	3
	5	HGHUNA12		SGUNA12								
	1.5	HGHUNA13		SGUNA13								
	3P SET	HGHUNA1S		SGUNA1S								
No.12 - 28	9	HGHUNBJ1	2	SGUNBJ1	3	60	22	5.5	4.5	7.0	A	3
	5	HGHUNBJ2		SGUNBJ2								
	1.5	HGHUNBJ3		SGUNBJ3								
	3P SET	HGHUNBJS		SGUNBJS								
1/4 - 28	9	HGHU04J1	2	SGU04J1	3	62	24	6.0	4.5	7.0	A	3
	5	HGHU04J2		SGU04J2								
	1.5	HGHU04J3		SGU04J3								
	3P SET	HGHU04JS		SGU04JS								
5/16 - 24	9	HGHU05L1	2	SGU05L1	3	70	30	6.1	5.0	8.0	C	4
	5	HGHU05L2		SGU05L2								
	1.5	HGHU05L3		SGU05L3								
	3P SET	HGHU05LS		SGU05LS								
3/8 - 24	9	HGHU06L1	2	SGU06L1	3	75	35	7.0	5.5	8.0	C	4
	5	HGHU06L2		SGU06L2								
	1.5	HGHU06L3		SGU06L3								
	3P SET	HGHU06LS		SGU06LS								
7/16 - 20	9	HOGHU07M1	2	SGU07M1	3	80	38	8.0	6	9.0	C	4
	5	HOGHU07M2		SGU07M2								
	1.5	HOGHU07M3		SGU07M3								
	3P SET	HOGHU07MS		SGU07MS								

SIZE	食付 Chamfer	HSS		SKS		L	I	d	K	KI	Type	F
		CODE	JC	CODE	JC							
1/2 - 20	9	HOGHU08M1	2	SGU08M1	3	85	42	9.0	7	10.0	C	4
	5	HOGHU08M2		SGU08M2								
	1.5	HOGHU08M3		SGU08M3								
	3P SET	HOGHU08MS		SGU08MS								
9/16 - 18	9	HOGHU0901	2	SGU0901	3	90	42	10.5	8	11.0	C	4
	5	HOGHU0902		SGU0902								
	1.5	HOGHU0903		SGU0903								
	3P SET	HOGHU090S		SGU090S								
5/8 - 18	9	HOGHU1001	2	SGU1001	3	95	45	12.0	9	12.0	C	4
	5	HOGHU1002		SGU1002								
	1.5	HOGHU1003		SGU1003								
	3P SET	HOGHU100S		SGU100S								
3/4 - 16	9	HOGHU12P1	2	SGU12P1	3	105	50	14.0	11	14.0	C	4
	5	HOGHU12P2		SGU12P2								
	1.5	HOGHU12P3		SGU12P3								
	3P SET	HOGHU12PS		SGU12PS								
7/8 - 14	9	HOGHU14Q1	2	SGU14Q1	3	115	55	17.0	13	16.0	C	4
	5	HOGHU14Q2		SGU14Q2								
	1.5	HOGHU14Q3		SGU14Q3								
	3P SET	HOGHU14QS		SGU14QS								
1" - 12	9	HOGHU16R1	2	SGU16R1	3	125	60	20.0	15	18.0	C	4
	5	HOGHU16R2		SGU16R2								
	1.5	HOGHU16R3		SGU16R3								
	3P SET	HOGHU16RS		SGU16RS								
1"1/8 - 12	9	HOGHU18R1	2	SGU18R1	3	135	65	22.0	17	20.0	C	4
	5	HOGHU18R2		SGU18R2								
	1.5	HOGHU18R3		SGU18R3								
	3P SET	HOGHU18RS		SGU18RS								
1"1/4 - 12	9	HOGHU20R1	2	SGU20R1	3	145	70	24.0	19	22.0	C	4
	5	HOGHU20R2		SGU20R2								
	1.5	HOGHU20R3		SGU20R3								
	3P SET	HOGHU20RS		SGU20RS								
1"3/8 - 12	9	HOGHU22R1	2	SGU22R1	3	155	75	26.0	21	24.0	C	4
	5	HOGHU22R2		SGU22R2								
	1.5	HOGHU22R3		SGU22R3								
	3P SET	HOGHU22RS		SGU22RS								
1"1/2 - 12	9	HOGHU22R1	2	SGU24R1	3	160	78	30.0	23	26.0	C	4
	5	HOGHU22R2		SGU24R2								
	1.5	HOGHU22R3		SGU24R3								
	3P SET	HOGHU22RS		SGU24RS								
1"3/4 - 12	9	HOGHU28R1	2	SGU28R1	3	175	85	35.0	26	30.0	C	4
	5	HOGHU28R2		SGU28R2								
	1.5	HOGHU28R3		SGU28R3								
	3P SET	HOGHU28RS		SGU28RS								
2" - 12	9	HOGHU32R1	2	SGU32R1	3	195	92	40.0	32	35.0	C	4
	5	HOGHU32R2		SGU32R2								
	1.5	HOGHU32R3		SGU32R3								
	3P SET	HOGHU32RS		SGU32RS								

BS規格ウィットねじ ハンドタップ Hand Tap (British Standard Whitworth)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
(Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
- ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表29 BSW HT Table 29

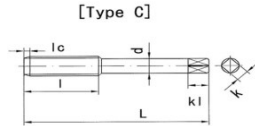
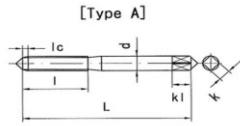
*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)
 ☆3P SETは先・中・上の3本1組です。(“3P SET” consists of taper, plug and bottom)

(Unit: mm)

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	Z	CODE	Z							
1/16 - 60	9	HGB01A21		SGB01A21							A	
	5	HGB01A22		SGB01A22								
	1.5	HGB01A23		SGB01A23								
	3P SET	HGB01A2S		SGB01A2S								
3/32 - 48	9	HGB0AE1		SGB0AE1							A	
	5	HGB0AE2		SGB0AE2								
	1.5	HGB0AE3		SGB0AE3								
	3P SET	HGB0AES		SGB0AES								
1/8 - 40	9	HGB02G1		SGB02G1							A	3
	5	HGB02G2	3	SGB02G2	5	49	16.0	3.3	2.7	4.5		
	1.5	HGB02G3		SGB02G3								
	3P SET	HGB02GS		SGB02GS								
5/32 - 32	9	HGB0B11		SGB0B11							A	3
	5	HGB0B12	3	SGB0B12	5	54	19.0	4.0	3.1	6.5		
	1.5	HGB0B13		SGB0B13								
	3P SET	HGB0B1S		SGB0B1S								
3/16 - 24	9	HGB03L1		SGB03L1							A	3
	5	HGB03L2	3	SGB03L2	5	61	22.0	4.8	3.8	6.5		
	1.5	HGB03L3		SGB03L3								
	3P SET	HGB03LS		SGB03LS								
BSW 7/32 - 24	9	HGB0CL1		SGB0CL1							A	3
	5	HGB0CL2		SGB0CL2		60.5	22.0	5.6	4.4	6.5		
	1.5	HGB0CL3		SGB0CL3								
	3P SET	HGB0CLS		SGB0CLS								
1/4 - 20	9	HGB04M1		SGB04M1							A	3
	5	HGB04M2	3	SGB04M2	5	64	25.0	6.4	5.0	7.0		
	1.5	HGB04M3		SGB04M3								
	3P SET	HGB04MS		SGB04MS								
5/16 - 18	9	HGB05O1		SGB05O1							C	4
	5	HGB05O2	3	SGB05O2	5	70	28.0	8.0	6.1	10.3		
	1.5	HGB05O3		SGB05O3								
	3P SET	HGB05OS		SGB05OS								
3/8 - 16	9	HGB06P1		SGB06P1							C	4
	5	HGB06P2	3	SGB06P2	5	75	32.0	9.5	7.5	10.3		
	1.5	HGB06P3		SGB06P3								
	3P SET	HGB06PS		SGB06PS								
7/16 - 14	9	HGB07Q1		SGB07Q1							C	4
	5	HGB07Q2	3	SGB07Q2	5	80	36.5	8.2	6.1	10.5		
	1.5	HGB07Q3		SGB07Q3								
	3P SET	HGB07QS		SGB07QS								
1/2 - 12	9	HGB08R1		SGB08R1							C	4
	5	HGB08R2	3	SGB08R2	5	86	42.0	9.3	7.0	11.0		
	1.5	HGB08R3		SGB08R3								
	3P SET	HGB08RS		SGB08RS								
9/16 - 12	9	HGB09R1		SGB09R1							C	4
	5	HGB09R2	3	SGB09R2	5	91	42.0	10.9	8.2	12.7		
	1.5	HGB09R3		SGB09R3								
	3P SET	HGB09RS		SGB09RS								

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	KI	Type	F
		CODE	Z	CODE	Z							
5/8 - 11	9	H0GB10T1	3	SGB10T1	5	97	46.0	12.2	91.0	14.0	C	4
	5	H0GB10T2		SGB10T2								
	1.5	H0GB10T3		SGB10T3								
	3P SET	H0GB10TS		SGB10TS								
3/4 - 10	9	H0GB12U1	3	SGB12U1	5	108	51.0	15.0	11.2	17.5	C	4
	5	H0GB12U2		SGB12U2								
	1.5	H0GB12U3		SGB12U3								
	3P SET	H0GB12US		SGB12US								
7/8 - 9	9	H0GB14V1	3	SGB14V1	5	119	56.5	17.7	13.3	19.0	C	4
	5	H0GB14V2		SGB14V2								
	1.5	H0GB14V3		SGB14V3								
	3P SET	H0GB14VS		SGB14VS								
1" - 8	9	H0GB16W1	3	SGB16W1	5	130	63.5	20.3	15.2	20.5	C	4
	5	H0GB16W2		SGB16W2								
	1.5	H0GB16W3		SGB16W3								
	3P SET	H0GB16WS		SGB16WS								
1"1/8 - 7	9	H0GB18A01		SGB18A01							C	4
	5	H0GB18A02		SGB18A02								
	1.5	H0GB18A03		SGB18A03								
	3P SET	H0GB18A0S		SGB18A0S								
1"1/4 - 7	9	H0GB20A01		SGB20A01							C	4
	5	H0GB20A02		SGB20A02								
	1.5	H0GB20A03		SGB20A03								
	3P SET	H0GB20A0S		SGB20A0S								
1"3/8 - 6	9	H0GB22X1		SGB22X1							C	4
	5	H0GB22X2		SGB22X2								
	1.5	H0GB22X3		SGB22X3								
	3P SET	H0GB22XS		SGB22XS								
1"1/2 - 6	9	H0GB24X1		SGB24X1		162	76.0	31.3	23.49	28.5	C	4
	5	H0GB24X2		SGB24X2								
	1.5	H0GB24X3		SGB24X3								
	3P SET	H0GB24XS		SGB24XS								
1"5/8 - 5	9	H0GB26Y1		SGB26Y1							C	4
	5	H0GB26Y2		SGB26Y2								
	1.5	H0GB26Y3		SGB26Y3								
	3P SET	H0GB26YS		SGB26YS								
1"3/4 - 5	9	H0GB28Y1		SGB28Y1		178	81.0	36.3	27.2	31.8	C	4
	5	H0GB28Y2		SGB28Y2								
	1.5	H0GB28Y3		SGB28Y3								
	3P SET	H0GB28YS		SGB28YS								
1"7/8 - 4.1/2	9	H0GB30Z1		SGB30Z1		193.5	90.5	41.7	31.3	35.0	C	4
	5	H0GB30Z2		SGB30Z2								
	1.5	H0GB30Z3		SGB30Z3								
	3P SET	H0GB30ZS		SGB30ZS								
2" - 4.1/2	9	H0GB32Z1		SGB32Z1		193.5	90.5	41.7	31.3	35.0	C	6
	5	H0GB32Z2		SGB32Z2								
	1.5	H0GB32Z3		SGB32Z3								
	3P SET	H0GB32ZS		SGB32ZS								
2"1/4 - 4	9	H0GB36A51		SGB36A51							C	
	5	H0GB36A52		SGB36A52								
	1.5	H0GB36A53		SGB36A53								
	3P SET	H0GB36A5S		SGB36A5S								
2"1/2 - 4	9	H0GB40A51		SGB40A51							C	
	5	H0GB40A52		SGB40A52								
	1.5	H0GB40A53		SGB40A53								
	3P SET	H0GB40A5S		SGB40A5S								
2"3/4 - 4	9	H0GB44A51		SGB44A51							C	
	5	H0GB44A52		SGB44A52								
	1.5	H0GB44A53		SGB44A53								
	3P SET	H0GB44A5S		SGB44A5S								
3" 3.1/2	9	H0GB48A41		SGB48A41							C	
	5	H0GB48A42		SGB48A42								
	1.5	H0GB48A43		SGB48A43								
	3P SET	H0GB48A4S		SGB48A4S								

ミシンねじ ハンドタップ Hand Tap (Sewing machine)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
(Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
- ②材質：HSSEおよびSKS2 (Material: HSSE and SKS2)

もっとも一般的なタップで、小ロット加工やメンテナンスに適します。このタップはJIS規格で製造されています。The most standard tap that can be used in for a variety of applications and suitable for small lot or maintenance.

表30 SM HT Table 30

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

☆3P SETは先・中・上の3本1組です。("3P SET" consists of taper, plug and bottom.)

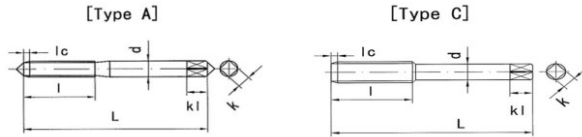
(Unit: mm)

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
1/16 - 80	9	HGHM04A1	2	SGM04A1	3	36	13	3.0	2.5	5	A	
	5	HGHM04A2		SGM04A2								
	1.5	HGHM04A3		SGM04A3								
	3P SET	HGHM04AS		SGM04AS								
5/64 - 64	9	HGHM05C1	2	SGM05C1	3	40	15	3.0	2.5	5	A	3
	5	HGHM05C2		SGM05C2								
	1.5	HGHM05C3		SGM05C3								
	3P SET	HGHM05CS		SGM05CS								
3/32 - 100	9	HGHM06U1	2	SGM06U1	3	42	15	3.0	2.5	5	A	3
	5	HGHM06U2		SGM06U2								
	1.5	HGHM06U3		SGM06U3								
	3P SET	HGHM06US		SGM06US								
3/32 - 56	9	HGHM06D1	2	SGM06D1	3	42	15	3.0	2.5	5	A	3
	5	HGHM06D2		SGM06D2								
	1.5	HGHM06D3		SGM06D3								
	3P SET	HGHM06DS		SGM06DS								
1/8 - 48	9	HGHM08E1	2	SGM08E1	3	46	18	4.0	3.2	6	A	3
	5	HGHM08E2		SGM08E2								
	1.5	HGHM08E3		SGM08E3								
	3P SET	HGHM08ES		SGM08ES								
1/8 - 44	9	HGHM08F1	2	SGM08F1	3	46	18	4.0	3.2	6	A	3
	5	HGHM08F2		SGM08F2								
	1.5	HGHM08F3		SGM08F3								
	3P SET	HGHM08FS		SGM08FS								
1/8 - 40	9	HGHM08G1	2	SGM08G1	3	46	18	4.0	3.2	6	A	3
	5	HGHM08G2		SGM08G2								
	1.5	HGHM08G3		SGM08G3								
	3P SET	HGHM08GS		SGM08GS								
9/64 - 40	9	HGHM09G1	2	SGM09G1	3	48	18	4.0	3.2	6	A	3
	5	HGHM09G2		SGM09G2								
	1.5	HGHM09G3		SGM09G3								
	3P SET	HGHM09GS		SGM09GS								
11/64 - 40	9	HGHM11G1	2	SGM11G1	3	55	20	5.0	4.0	7	A	3
	5	HGHM11G2		SGM11G2								
	1.5	HGHM11G3		SGM11G3								
	3P SET	HGHM11GS		SGM11GS								
11/64 - 32	9	HGHM11I1	2	SGM11I1	3	55	20	5.0	4.0	7	A	3
	5	HGHM11I2		SGM11I2								
	1.5	HGHM11I3		SGM11I3								
	3P SET	HGHM11IS		SGM11IS								
3/16 - 40	9	HGHM12G1	2	SGM12G1	3	60	22	5.5	4.5	7	A	3
	5	HGHM12G2		SGM12G2								
	1.5	HGHM12G3		SGM12G3								
	3P SET	HGHM12GS		SGM12GS								

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
3/16 - 32	9	HGHM12I1	2	SGM12I1	3	60	22	5.5	4.5	7	A	3
	5	HGHM12I2		SGM12I2								
	1.5	HGHM12I3		SGM12I3								
	3P SET	HGHM12IS		SGM12IS								
3/16 - 28	9	HGHM12J1	2	SGM12J1	3	60	22	5.5	4.5	7	A	3
	5	HGHM12J2		SGM12J2								
	1.5	HGHM12J3		SGM12J3								
	3P SET	HGHM12JS		SGM12JS								
3/16 - 24	9	HGHM12L1	2	SGM12L1	3	60	22	5.5	4.5	7	A	3
	5	HGHM12L2		SGM12L2								
	1.5	HGHM12L3		SGM12L3								
	3P SET	HGHM12LS		SGM12LS								
13/64 - 32	9	HGHM13I1	2	SGM13I1	3	60	22	5.5	4.5	7	A	3
	5	HGHM13I2		SGM13I2								
	1.5	HGHM13I3		SGM13I3								
	3P SET	HGHM13IS		SGM13IS								
7/32 - 32	9	HGHM14I1	2	SGM14I1	3	60	22	5.5	4.5	7	A	3
	5	HGHM14I2		SGM14I2								
	1.5	HGHM14I3		SGM14I3								
	3P SET	HGHM14IS		SGM14IS								
15/64 - 28	9	HGHM15J1	2	SGM15J1	3	62	24	6.0	4.5	7	A	3
	5	HGHM15J2		SGM15J2								
	1.5	HGHM15J3		SGM15J3								
	3P SET	HGHM15JS		SGM15JS								
1/4 - 40	9	HGHM16G1	2	SGM16G1	3	62	24	6.0	4.5	7	A	3
	5	HGHM16G2		SGM16G2								
	1.5	HGHM16G3		SGM16G3								
	3P SET	HGHM16GS		SGM16GS								
1/4 - 28	9	HGHM16J1	2	SGM16J1	3	62	24	6.0	4.5	7	A	3
	5	HGHM16J2		SGM16J2								
	1.5	HGHM16J3		SGM16J3								
	3P SET	HGHM16JS		SGM16JS								
1/4 - 24	9	HGHM16L1	2	SGM16L1	3	62	24	6.0	4.5	7	A	3
	5	HGHM16L2		SGM16L2								
	1.5	HGHM16L3		SGM16L3								
	3P SET	HGHM16LS		SGM16LS								
9/32 - 28	9	HGHM18J1	2	SGM18J1	3	65	26	6.5	5.0	8	C	3
	5	HGHM18J2		SGM18J2								
	1.5	HGHM18J3		SGM18J3								
	3P SET	HGHM18JS		SGM18JS								
9/32 - 20	9	HGHM18M1	2	SGM18M1	3	65	26	6.5	5.0	8	C	3
	5	HGHM18M2		SGM18M2								
	1.5	HGHM18M3		SGM18M3								
	3P SET	HGHM18MS		SGM18MS								
5/16 - 28	9	HGHM20J1	2	SGM20J1	3	70	30	6.1	5.0	8	C	4
	5	HGHM20J2		SGM20J2								
	1.5	HGHM20J3		SGM20J3								
	3P SET	HGHM20JS		SGM20JS								
5/16 - 24	9	HGHM20L1	2	SGM20L1	3	70	30	6.1	5.0	8	C	4
	5	HGHM20L2		SGM20L2								
	1.5	HGHM20L3		SGM20L3								
	3P SET	HGHM20LS		SGM20LS								
5/16 - 18	9	HGHM20O1	2	SGM20O1	3	70	30	6.1	5.0	8	C	4
	5	HGHM20O2		SGM20O2								
	1.5	HGHM20O3		SGM20O3								
	3P SET	HGHM20OS		SGM20OS								

SIZE	食付 Chamfer	HSS		SKS		L	l	d	K	Kl	Type	F
		CODE	JC	CODE	JC							
11/32 - 28	9	HGHM22J1	2	SGM22J1	3	70	30	7.0	5.5	8	C	4
	5	HGHM22J2		SGM22J2								
	1.5	HGHM22J3		SGM22J3								
	3P SET	HGHM22JS		SGM22JS								
3/8 - 28	9	HGHM24J1	2	SGM24J1	3	70	30	7.0	5.5	8	C	4
	5	HGHM24J2		SGM24J2								
	1.5	HGHM24J3		SGM24J3								
	3P SET	HGHM24JS		SGM24JS								
3/8 - 18	9	HGHM2401	2	SGM2401	3	75	35	7.0	5.5	8	C	4
	5	HGHM2402		SGM2402								
	1.5	HGHM2403		SGM2403								
	3P SET	HGHM240S		SGM240S								
7/16 - 28	9	HOGHM28J1	2	SGM28J1	3	70	30	8.0	6.0	9	C	4
	5	HOGHM28J2		SGM28J2								
	1.5	HOGHM28J3		SGM28J3								
	3P SET	HOGHM28JS		SGM28JS								
7/16 - 16	9	HOGHM28P1	2	SGM28P1	3	80	38	8.0	6.0	9	C	4
	5	HOGHM28P2		SGM28P2								
	1.5	HOGHM28P3		SGM28P3								
	3P SET	HOGHM28PS		SGM28PS								
1/2 - 28	9	HOGHM32J1	2	SGM32J1	3	70	30	9.0	7.0	10	C	4
	5	HOGHM32J2		SGM32J2								
	1.5	HOGHM32J3		SGM32J3								
	3P SET	HOGHM32JS		SGM32JS								
1/2 - 20	9	HOGHM32M1	2	SGM32M1	3	85	42	9.0	7.0	10	C	4
	5	HOGHM32M2		SGM32M2								
	1.5	HOGHM32M3		SGM32M3								
	3P SET	HOGHM32MS		SGM32MS								
1/2 - 12	9	HOGHM32R1	2	SGM32R1	3	85	42	9.0	7.0	10	C	4
	5	HOGHM32R2		SGM32R2								
	1.5	HOGHM32R3		SGM32R3								
	3P SET	HOGHM32RS		SGM32RS								
9/16 - 20	9	HOGHM36M1	2	SGM36M1	3	90	42	10.5	8.0	11	C	4
	5	HOGHM36M2		SGM36M2								
	1.5	HOGHM36M3		SGM36M3								
	3P SET	HOGHM36MS		SGM36MS								
1"3/16 - 24	9	HOGHM76L1	2	SGM76L1	3	105	35	23.0	17.0	20	C	4
	5	HOGHM76L2		SGM76L2								
	1.5	HOGHM76L3		SGM76L3								
	3P SET	HOGHM76LS		SGM76LS								

ミリねじ ロングシャンクハンドタップ Long Shank Hand Tap (Metric)



- ①食付き：先(#1)・9山、中(#2)・5山、上(#3)・1.5山
(Chamfer length : Taper 9p, Plug 5p, Bottom 1.5p)
- ②材質：HSSE (Material)
- ③表面処理：ホモまたは無処理 (Surface: OX or Bright)

全長は100, 120, 150, 200, 250mmを用意しています。ただし、サイズにより製作可能範囲が異なります。Total length offers 100, 120, 150, 200 and 250mm. The production range depends on the size.

表31 M LT

Table 31

*F：溝数。(Number of flutes) / JC：JIS規格。(JIS class of the thread limit)

(Unit: mm)

SIZE		食付 Chamfer	CODE		L	l	d	K	Kl	Type	F	JC
Dia	Pitch		Bright	OX								
M3	x 0.5	9	HGH3. 0G101	HGVH3. 0G101	100	18	4.0	3.2	6	A	3	3
		5	HGH3. 0G102	HGVH3. 0G102								
		1.5	HGH3. 0G103	HGVH3. 0G103								
		9	HGH3. 0G121	HGVH3. 0G121	120	18	4.0	3.2	6	A	3	3
		5	HGH3. 0G122	HGVH3. 0G122								
		1.5	HGH3. 0G123	HGVH3. 0G123								
		9	HGH3. 0G151	HGVH3. 0G151	150	18	4.0	3.2	6	A	3	3
5	HGH3. 0G152	HGVH3. 0G152										
1.5	HGH3. 0G153	HGVH3. 0G153										
M4	x 0.7	9	HGH4. 0I101	HGVH4. 0I101	100	20	5.0	4.0	7	A	3	3
		5	HGH4. 0I102	HGVH4. 0I102								
		1.5	HGH4. 0I103	HGVH4. 0I103								
		9	HGH4. 0I121	HGVH4. 0I121	120	20	5.0	4.0	7	A	3	3
		5	HGH4. 0I122	HGVH4. 0I122								
		1.5	HGH4. 0I123	HGVH4. 0I123								
		9	HGH4. 0I151	HGVH4. 0I151	150	20	5.0	4.0	7	A	3	3
5	HGH4. 0I152	HGVH4. 0I152										
1.5	HGH4. 0I153	HGVH4. 0I153										
M5	x 0.8	9	HGH5. 0K101	HGVH5. 0K101	100	22	5.5	4.5	7	A	3	3
		5	HGH5. 0K102	HGVH5. 0K102								
		1.5	HGH5. 0K103	HGVH5. 0K103								
		9	HGH5. 0K121	HGVH5. 0K121	120	22	5.5	4.5	7	A	3	3
		5	HGH5. 0K122	HGVH5. 0K122								
		1.5	HGH5. 0K123	HGVH5. 0K123								
		9	HGH5. 0K151	HGVH5. 0K151	150	22	5.5	4.5	7	A	3	3
5	HGH5. 0K152	HGVH5. 0K152										
1.5	HGH5. 0K153	HGVH5. 0K153										
M6	x 1	9	HGH6. 0M101	HGVH6. 0M101	100	24	6.0	4.5	7	A	3	3
		5	HGH6. 0M102	HGVH6. 0M102								
		1.5	HGH6. 0M103	HGVH6. 0M103								
		9	HGH6. 0M121	HGVH6. 0M121	120	24	6.0	4.5	7	A	3	3
		5	HGH6. 0M122	HGVH6. 0M122								
		1.5	HGH6. 0M123	HGVH6. 0M123								
		9	HGH6. 0M151	HGVH6. 0M151	150	24	6.0	4.5	7	A	3	3
		5	HGH6. 0M152	HGVH6. 0M152								
		1.5	HGH6. 0M153	HGVH6. 0M153								
9	HGH6. 0M201	HGVH6. 0M201	200	24	6.0	4.5	7	A	3	3		
5	HGH6. 0M202	HGVH6. 0M202										
1.5	HGH6. 0M203	HGVH6. 0M203										
M8	x 1.25	9	HGH8. 0N101	HGVH8. 0N101	100	30	6.2	5.0	8	C	4	3
		5	HGH8. 0N102	HGVH8. 0N102								
		1.5	HGH8. 0N103	HGVH8. 0N103								
		9	HGH8. 0N121	HGVH8. 0N121	120	30	6.2	5.0	8	C	4	3
		5	HGH8. 0N122	HGVH8. 0N122								
		1.5	HGH8. 0N123	HGVH8. 0N123								
		9	HGH8. 0N151	HGVH8. 0N151	150	30	6.2	5.0	8	C	4	3
		5	HGH8. 0N152	HGVH8. 0N152								
		1.5	HGH8. 0N153	HGVH8. 0N153								
9	HGH8. 0N201	HGVH8. 0N201	200	30	6.2	5.0	8	C	4	3		
5	HGH8. 0N202	HGVH8. 0N202										
1.5	HGH8. 0N203	HGVH8. 0N203										

SIZE		食付 Chamfer	CODE Bright	CODE OX	L	I	d	K	KI	Type	F	JC
Dia	Pitch											
M10	× 1.25	9	HGH010N101	HGVH010N101	100	32	7.0	5.5	8	C	4	3
		5	HGH010N102	HGVH010N102								
		1.5	HGH010N103	HGVH010N103								
		9	HGH010N121	HGVH010N121	120	32	7.0	5.5	8	C	4	3
		5	HGH010N122	HGVH010N122								
		1.5	HGH010N123	HGVH010N123								
		9	HGH010N151	HGVH010N151	150	32	7.0	5.5	8	C	4	3
		5	HGH010N152	HGVH010N152								
		1.5	HGH010N153	HGVH010N153								
		9	HGH010N201	HGVH010N201	200	32	7.0	5.5	8	C	4	3
5	HGH010N202	HGVH010N202										
1.5	HGH010N203	HGVH010N203										
M10	× 1.5	9	HGH0100101	HGVH0100101	100	32	7.0	5.5	8	C	4	3
		5	HGH0100102	HGVH0100102								
		1.5	HGH0100103	HGVH0100103								
		9	HGH0100121	HGVH0100121	120	32	7.0	5.5	8	C	4	3
		5	HGH0100122	HGVH0100122								
		1.5	HGH0100123	HGVH0100123								
		9	HGH0100151	HGVH0100151	150	32	7.0	5.5	8	C	4	3
		5	HGH0100152	HGVH0100152								
		1.5	HGH0100153	HGVH0100153								
		9	HGH0100201	HGVH0100201	200	32	7.0	5.5	8	C	4	3
5	HGH0100202	HGVH0100202										
1.5	HGH0100203	HGVH0100203										
M12	× 1.25	9	HGH012N101	HGVH012N101	100	38	8.5	6.5	9	C	4	3
		5	HGH012N102	HGVH012N102								
		1.5	HGH012N103	HGVH012N103								
		9	HGH012N121	HGVH012N121	120	38	8.5	6.5	9	C	4	3
		5	HGH012N122	HGVH012N122								
		1.5	HGH012N123	HGVH012N123								
		9	HGH012N151	HGVH012N151	150	38	8.5	6.5	9	C	4	3
		5	HGH012N152	HGVH012N152								
		1.5	HGH012N153	HGVH012N153								
		9	HGH012N201	HGVH012N201	200	38	8.5	6.5	9	C	4	3
5	HGH012N202	HGVH012N202										
1.5	HGH012N203	HGVH012N203										
M12	× 1.5	9	HGH0120101	HGVH0120101	100	38	8.5	6.5	9	C	4	3
		5	HGH0120102	HGVH0120102								
		1.5	HGH0120103	HGVH0120103								
		9	HGH0120121	HGVH0120121	120	38	8.5	6.5	9	C	4	3
		5	HGH0120122	HGVH0120122								
		1.5	HGH0120123	HGVH0120123								
		9	HGH0120151	HGVH0120151	150	38	8.5	6.5	9	C	4	3
		5	HGH0120152	HGVH0120152								
		1.5	HGH0120153	HGVH0120153								
		9	HGH0120201	HGVH0120201	200	38	8.5	6.5	9	C	4	3
5	HGH0120202	HGVH0120202										
1.5	HGH0120203	HGVH0120203										
M12	× 1.75	9	HGH012P101	HGVH012P101	100	38	8.5	6.5	9	C	4	3
		5	HGH012P102	HGVH012P102								
		1.5	HGH012P103	HGVH012P103								
		9	HGH012P121	HGVH012P121	120	38	8.5	6.5	9	C	4	3
		5	HGH012P122	HGVH012P122								
		1.5	HGH012P123	HGVH012P123								
		9	HGH012P151	HGVH012P151	150	38	8.5	6.5	9	C	4	3
		5	HGH012P152	HGVH012P152								
		1.5	HGH012P153	HGVH012P153								
		9	HGH012P201	HGVH012P201	200	38	8.5	6.5	9	C	4	3
5	HGH012P202	HGVH012P202										
1.5	HGH012P203	HGVH012P203										
M14	× 1.5	9	HGH0140101	HGVH0140101	100	42	10.5	8.0	11	C	4	3
		5	HGH0140102	HGVH0140102								
		1.5	HGH0140103	HGVH0140103								
		9	HGH0140121	HGVH0140121	120	42	10.5	8.0	11	C	4	3
		5	HGH0140122	HGVH0140122								
		1.5	HGH0140123	HGVH0140123								

SIZE		食付 Chamfer	CODE Bright	CODE OX	L	I	d	K	KI	Type	F	JC
Dia	Pitch											
M14	× 1.5	9	HGH0140151	HGVH0140151	150	42	10.5	8.0	11	C	4	3
		5	HGH0140152	HGVH0140152								
		1.5	HGH0140153	HGVH0140153								
		9	HGH0140201	HGVH0140201	200	42	10.5	8.0	11	C	4	3
		5	HGH0140202	HGVH0140202								
		1.5	HGH0140203	HGVH0140203								
M14	× 2	9	HGH014Q101	HGVH014Q101	100	42	10.5	8.0	11	C	4	3
		5	HGH014Q102	HGVH014Q102								
		1.5	HGH014Q103	HGVH014Q103								
		9	HGH014Q121	HGVH014Q121	120	42	10.5	8.0	11	C	4	3
		5	HGH014Q122	HGVH014Q122								
		1.5	HGH014Q123	HGVH014Q123								
		9	HGH014Q151	HGVH014Q151	150	42	10.5	8.0	11	C	4	3
		5	HGH014Q152	HGVH014Q152								
		1.5	HGH014Q153	HGVH014Q153								
		9	HGH014Q201	HGVH014Q201	200	42	10.5	8.0	11	C	4	3
		5	HGH014Q202	HGVH014Q202								
		1.5	HGH014Q203	HGVH014Q203								
M16	× 1.5	9	HGH0160121	HGVH0160121	120	45	12.5	10.0	13	C	4	3
		5	HGH0160122	HGVH0160122								
		1.5	HGH0160123	HGVH0160123								
		9	HGH0160151	HGVH0160151	150	45	12.5	10.0	13	C	4	3
		5	HGH0160152	HGVH0160152								
		1.5	HGH0160153	HGVH0160153								
		9	HGH0160201	HGVH0160201	200	45	12.5	10.0	13	C	4	3
		5	HGH0160202	HGVH0160202								
		1.5	HGH0160203	HGVH0160203								
		9	HGH0160251	HGVH0160251	250	45	12.5	10.0	13	C	4	3
5	HGH0160252	HGVH0160252										
1.5	HGH0160253	HGVH0160253										
M16	× 2	9	HGH016Q121	HGVH016Q121	120	45	12.5	10.0	13	C	4	3
		5	HGH016Q122	HGVH016Q122								
		1.5	HGH016Q123	HGVH016Q123								
		9	HGH016Q151	HGVH016Q151	150	45	12.5	10.0	13	C	4	3
		5	HGH016Q152	HGVH016Q152								
		1.5	HGH016Q153	HGVH016Q153								
		9	HGH016Q201	HGVH016Q201	200	45	12.5	10.0	13	C	4	3
		5	HGH016Q202	HGVH016Q202								
		1.5	HGH016Q203	HGVH016Q203								
		9	HGH016Q251	HGVH016Q251	250	45	12.5	10.0	13	C	4	3
5	HGH016Q252	HGVH016Q252										
1.5	HGH016Q253	HGVH016Q253										
M18	× 1.5	9	HGH0180151	HGVH0180151	150	45	14.0	11.0	14	C	4	2
		5	HGH0180152	HGVH0180152								
		1.5	HGH0180153	HGVH0180153								
		9	HGH0180201	HGVH0180201	200	45	14.0	11.0	14	C	4	2
		5	HGH0180202	HGVH0180202								
		1.5	HGH0180203	HGVH0180203								
		9	HGH0180251	HGVH0180251	250	45	14.0	11.0	14	C	4	2
		5	HGH0180252	HGVH0180252								
1.5	HGH0180253	HGVH0180253										
M18	× 2.5	9	HGH018R151	HGVH018R151	150	48	14.0	11.0	14	C	4	3
		5	HGH018R152	HGVH018R152								
		1.5	HGH018R153	HGVH018R153								
		9	HGH018R201	HGVH018R201	200	48	14.0	11.0	14	C	4	3
		5	HGH018R202	HGVH018R202								
		1.5	HGH018R203	HGVH018R203								
		9	HGH018R251	HGVH018R251	250	48	14.0	11.0	14	C	4	3
		5	HGH018R252	HGVH018R252								
1.5	HGH018R253	HGVH018R253										
M20	× 1.5	9	HGH0200151	HGVH0200151	150	45	15.0	12.0	15	C	4	2
		5	HGH0200152	HGVH0200152								
		1.5	HGH0200153	HGVH0200153								
		9	HGH0200201	HGVH0200201	200	45	15.0	12.0	15	C	4	2
		5	HGH0200202	HGVH0200202								
		1.5	HGH0200203	HGVH0200203								

SIZE		食付 Chamfer	CODE Bright	CODE OX	L	I	d	K	KI	Type	F	JC
Dia	Pitch											
M20	× 2.5	9	HGH020R151	HGVH020R151	150	50	15.0	12.0	15	C	4	2
		5	HGH020R152	HGVH020R152								
		1.5	HGH020R153	HGVH020R153								
		9	HGH020R201	HGVH020R201	200	50	15.0	12.0	15	C	4	2
		5	HGH020R202	HGVH020R202								
		1.5	HGH020R203	HGVH020R203								
M22	× 1.5	9	HGH0220151	HGVH0220151	150	45	17.0	13.0	16	C	4	2
		5	HGH0220152	HGVH0220152								
		1.5	HGH0220153	HGVH0220153								
		9	HGH0220201	HGVH0220201	200	45	17.0	13.0	16	C	4	2
		5	HGH0220202	HGVH0220202								
		1.5	HGH0220203	HGVH0220203								
M22	× 2.5	9	HGH022R151	HGVH022R151	150	55	17.0	13.0	16	C	4	2
		5	HGH022R152	HGVH022R152								
		1.5	HGH022R153	HGVH022R153								
		9	HGH022R201	HGVH022R201	200	55	17.0	13.0	16	C	4	2
		5	HGH022R202	HGVH022R202								
		1.5	HGH022R203	HGVH022R203								
M24	× 1.5	9	HGH0240151	HGVH0240151	150	45	19.0	15.0	18	C	4	2
		5	HGH0240152	HGVH0240152								
		1.5	HGH0240153	HGVH0240153								
		9	HGH0240201	HGVH0240201	200	45	19.0	15.0	18	C	4	2
		5	HGH0240202	HGVH0240202								
		1.5	HGH0240203	HGVH0240203								
M24	× 3	9	HGH024S151	HGVH024S151	150	58	19.0	15.0	18	C	4	2
		5	HGH024S152	HGVH024S152								
		1.5	HGH024S153	HGVH024S153								
		9	HGH024S201	HGVH024S201	200	58	19.0	15.0	18	C	4	2
		5	HGH024S202	HGVH024S202								
		1.5	HGH024S203	HGVH024S203								