



GREWIN& COWEE MACHINE TAPS



Table of contents /总目录

Material related Grewin&Cowee application chart
Grewin&Cowee 材料应用表

Material library
材料库
P2/P4

HSS TiN Programme Metric T-JIS M
HSS材质, TiN 涂层, 通用丝锥, T-JIS公制丝锥

M/MF
P6-P7

Programme Metric T-JIS M
色环丝锥, T-JIS标公制丝锥

M/MF
P8-P17

Programme Metric DIN M
色环丝锥, DIN标公制丝锥

M/MF
P18-P27

U+Programme Metric T-JIS M
U+丝锥, T-JIS标公制丝锥

M
P28-P29

Technical information
技术信息

Technical part
技术参考
P30-P33

●本样本登载的产品, 虽标有库存, 但由于新材料, 新产品的开发, 更改废除的情况也有。

●式样, 形状, 表内数值也可能会有变动。

●The inventory status is indicated for respective products on this catalogue. However, the products may be improved or discontinued due to development of new materials and products ,etc.

●Specifications, shapes, values in the tables, etc. are subject to change without prior notice.

Material related application chart / 材料应用表

No. G/序号	Material group	材料类别	M&T-JIS M	MF&T-JIS MF
G01	Structural steels <1000 N / mm ²	结构钢<1000N/mm ²	○	○
G02	Structural steels >900 N / mm ²	结构钢>900N/mm ²	○	○
G03	Case hardening steels <1000 N / mm ²	表面硬化钢<1000N/mm ²	○	○
G04	Case hardening steels >900 N / mm ²	表面硬化钢>900N/mm ²	○	○
G05	Heat treatable steels <1000 N / mm ²	热处理钢<1000N/mm ²	○	○
G06	Heat treatable steels >900 N / mm ²	热处理钢>900N/mm ²	○	○
G07	Nitriding steels	氮化钢	○	○
G08	Carbon tool steels	碳素工具钢	○	○
G09	Heat resisting steels	耐热钢	○	○
G10	Cr stainless steels, sulphured	Cr不锈钢	○	○
G11	Cr stainless steels, ferritic and martensitic	Cr不锈钢、铁素体不锈钢、马氏体不锈钢	○	○
G12	Cr-Ni stainless steels, austenitic	Cr-Ni不锈钢、奥氏体不锈钢	○	○
G13	Free-cutting steels	易切钢	○	○
G14	Cast steels <1000 N / mm ²	铸钢<1000N/mm ²	○	○
G15	Cast steels >900 N / mm ²	铸钢>900N/mm ²	○	○
G16	Malleable cast iron	可锻铸铁	○	○
G17	Nodular graphite cast iron	结节性石墨铸铁(球墨铸铁)	○	○
G18	Lamellar graphite cast iron (grey cast iron)	片状石墨铸铁(灰铸铁)	○	○
G19	Vermicular graphite cast iron	蠕墨铸铁	○	○
G20	Copper	铜	○	○
G21	Hard brass (Ms 58, short chipping)	硬黄铜(Ms58,短切屑)	○	○
G22	Soft brass (MS 63, long chipping)	软黄铜(Ms63,长切屑)	○	○
G23	Red brass	红铜	○	○
G24	Phosphor bronze	磷青铜	○	○
G25	Wrought alloy of aluminium	锻造铝合金	○	○
G26	Aluminium cast alloy Si 0.5 %~5 %	铸造铝合金(Si 0.5%~5%)	○	○
G27	Aluminium cast alloy Si 5 %~10 %	铸造铝合金(Si 5%~10%)	○	○
G28	Aluminium cast alloy Si >10 %	铸造铝合金(Si>10%)	○	○
G29	Wrought alloy of magnesium	锻造镁合金	○	○
G30	Cast alloy of magnesium	铸造镁合金	○	○
G31	Alloy of nickel	镍合金	○	○
G32	Titanium and alloy of titanium	钛、钛合金	○	○
G33	Ferro-TiC	Ferro-TiC钢结硬质合金	○	○
G34	Thermoplastic compounds / synthetics	热塑性复合材料 / 合成纤维	○	○
G35	High strength structural steels fine grained	高强度细晶粒结构钢	○	○

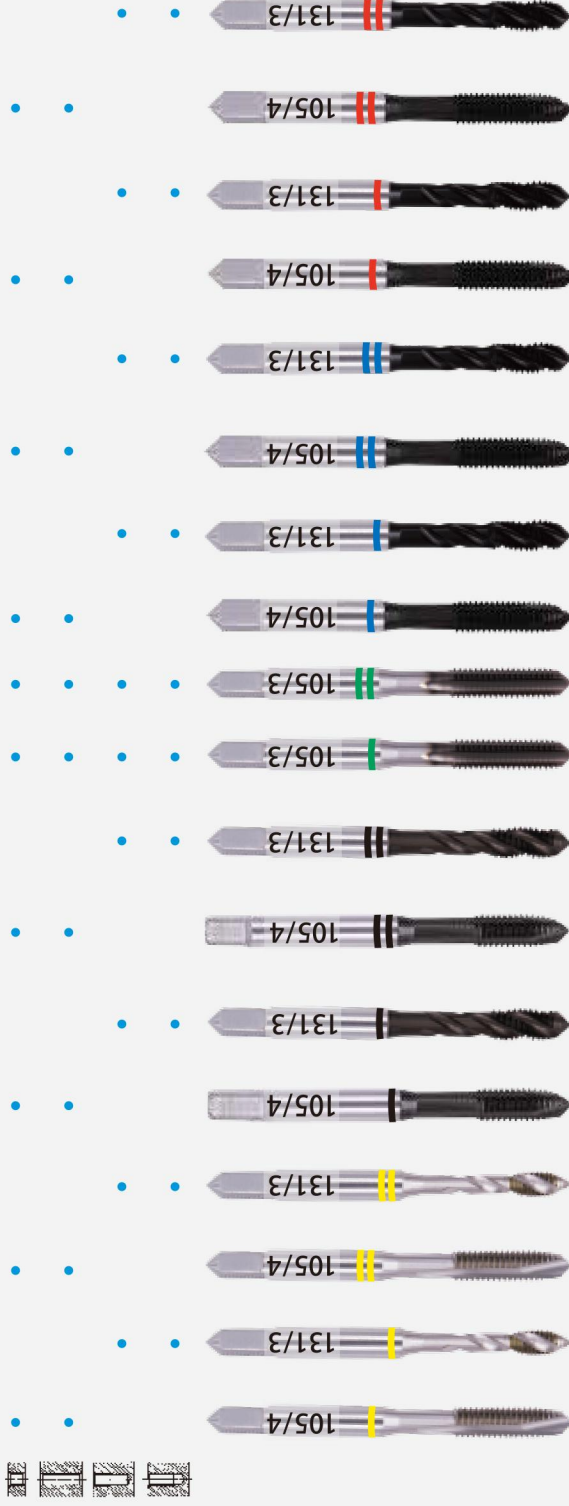
Colouring-programme/Grewin&Coweel /丝锥——色环应用

The new double colour ring tap from Grewin&Coweel is a high performance tool made of powder-metallurgy steel with a hard material coating and a recently developed cutting geometry for high tool life.

双色环丝锥是 Grewin&Coweel 推出新一代高性能环丝锥 选用PVD涂层及最新研发的几何切削形状大大提高刀具寿命。

Dimensions DIN 371/376 尺寸 DIN371/376

through short 短通孔
through 通孔
blind hole short 短盲孔
blind hole 盲孔



Groupment 组别	Material 材料	Strength of material N/mm ² 材料强度 (N/mm ²)	Expansion coefficient% 膨胀系数 (%)
●	Nonferrous metal, light metal /有色金属, 轻金属	≤700	15 ~ 35
●	Structural steels and quality /优质结构钢	≤1000	10 ~ 30
●	Grey cast iron /灰铸铁	≤800	≤20
●	Stainless steels /不锈钢	400 ~ 1000	25 ~ 60
●	High resistance steels /高强度钢	≥900	≤30

Material-related Grewin&Cowee application chart Steel materials

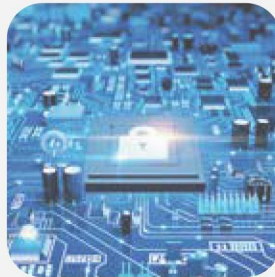
Grewin&Cowee 丝锥 —— 材料应用钢材材料

Material-related Grewin&Cowee application chart Steel materials	Grewin&Cowee 丝锥 —— 材料应用钢材材料	
Structural steels < 1000 N/mm ²	结构钢 < 1000 N/mm ²	
Structural steels > 900 N/mm ²	结构钢 > 900 N/mm ²	
Case hardening steels < 1000 N/mm ²	表面硬化钢 < 1000 N/mm ²	
Case hardening steels > 900 N/mm ²	表面硬化钢 > 900 N/mm ²	
Heat treatable steels < 1000 N/mm ²	热处理钢 < 1000 N/mm ²	
Heat treatable steels > 900 N/mm ²	热处理钢 > 900 N/mm ²	
Nitriding steels	氮化钢	
Carbon tool steels	碳素工具钢	
Heat resisting steels	耐热钢	
Cr stainless steels, sulphured	Cr不锈钢	
Cr stainless steels, ferritic and martensitic	Cr不锈钢、铁素体不锈钢、马氏体不锈钢	
Cr-Ni stainless steels, austenitic	Cr-Ni不锈钢、奥氏体不锈钢	
Free-cutting steels	易切钢	
Cast steels < 1000 N/mm ²	铸钢 < 1000 N/mm ²	
Cast steels > 900 N/mm ²	铸钢 > 900 N/mm ²	
Cast materials	铸造材料	
Malleable cast iron	可锻铸铁	
Lamellar graphite cast iron (grey cast iron)	片状石墨铸铁 (灰铸铁)	
Nodular graphite cast iron	结节性石墨铸铁 (球墨铸铁)	
Vermicular graphite cast iron	蠕墨铸铁	
Copper alloys	铜合金	
Copper	铜	
Hard brass (Ms58, short chipping)	硬黄铜 (Ms58, 短切屑)	
Soft brass (Ms63, long chipping)	软黄铜 (Ms63, 长切屑)	
Red brass	红铜	
Phosphor bronze	磷青铜	
Aluminium and magnesium alloys	铝镁合金	
Wrought alloy of aluminium	锻造铝合金	
Aluminium cast alloy Si < 5%	铸造铝合金 (Si < 5%)	
Aluminium cast alloy Si 5% - 12%	铸造铝合金 (Si 5% ~ 12%)	
Wrought alloy of magnesium	锻造镁合金	
Cast alloy of magnesium	铸造镁合金	
Nickel and titanium alloys	镍合金、钛合金	
Alloy of nickel	镍合金	
Titanium and alloy of titanium	钛、钛合金	
Sintered metal	烧结金属	
Ferro-TiC	钢结硬质合金	
Synthetics	合成纤维	
Thermoplastic compounds/synthetics	热塑性复合材料 / 合成纤维	
Strength of material N/mm² / 材料强度 (N/mm²)		
Expansion coefficient in % / 膨胀系数 (%)		
15 ~ 35 %		
10 ~ 30 %		
to 20%		
25 ~ 60 %		
to 30 %		

200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200

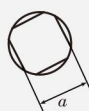
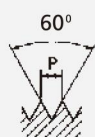
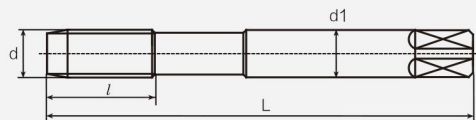
应用领域

Application Domain





T-JIS



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



T-JIS

T-JIS

T-JIS

T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

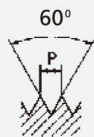
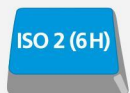
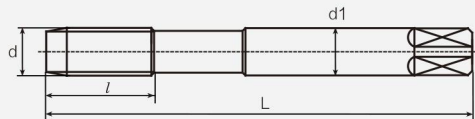
C/2,5

C/2,5

L	105/4 l	131/3 l	d ₁	a	d	P		Art.	Art.	Art.	Art.
40	8	8	3	2.5	M2	0.4	1.6	J652000 •		J673040 •	
44	9	9	3	2.5	M2.5	0.45	2.05	J652035 •		J671560 •	
46	11	6	4	3.2	M3	0.5	2.5	J656707 •		J644245 •	
52	13	7.5	5	4	M4	0.7	3.3	J637176 •		J645500 •	
52	10	7.5	5	4	MF4	0.5	3.5	J666300 ○		J666600 ○	
60	16	9	5.5	4.5	M5	0.8	4.2	J637184 •		J645659 •	
60	12	7.5	5.5	4.5	MF5	0.5	4.5	J666301 ○		J666601 ○	
62	19	11	6	4.5	M6	1	5	J637192 •		J651829 •	
62	14	8	6	4.5	MF6	0.75	5.25	J666303 ○		J666604 ○	
70	22	13	6.2	5	M8	1.25	6.75		J652108 •		J671625 •
70	22	10	6.2	5	MF8	1	7		J666333 ○		J666634 ○
70	18	10	6.2	5	MF8	0.75	7.25		J666332 ○		J666633 ○
75	24	16	7	5.5	M10	1.5	8.5		J652116 •		J671633 •
75	24	14	7	5.5	MF10	1.25	8.75		J666336 ○		J666637 ○
75	20	12	7	5.5	MF10	1	9		J666335 ○		J666636 ○
75	20	12	7	5.5	MF10	0.75	9.25		J666334 ○		J666635 ○
82	29	18	8.5	6.5	M12	1.75	10.25		J637222 •		J657150 •
82	22	14	8.5	6.5	MF12	1.5	10.5		J666339 ○		J666640 ○
82	22	14	8.5	6.5	MF12	1.25	10.75		J666338 ○		J666639 ○
82	22	14	8.5	6.5	MF12	1	11		J666337 ○		J666638 ○
88	30	20	10.5	8	M14	2	12		J637230 •		J657177 •
88	22	20	10.5	8	MF14	1.5	12.5		J666341 ○		J666642 ○
88	22	16	10.5	8	MF14	1	13		J666340 ○		J666641 ○
95	32	20	12.5	10	M16	2	14		J637249 •		J657193 •
95	22	20	12.5	10	MF16	1.5	14.5		J666343 ○		J666644 ○
95	22	16	12.5	10	MF16	1	15		J666342 ○		J666643 ○



T-JIS



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



T-JIS



T-JIS



T-JIS



T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

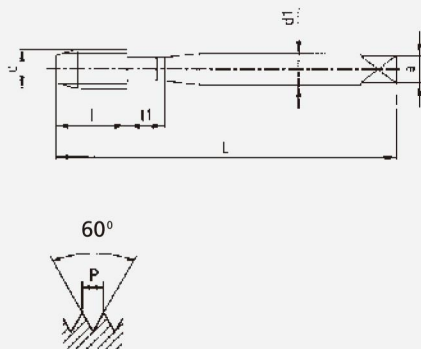
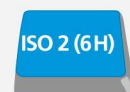
C/2,5

L	105/4 l	131/3 l	d ₁	a	d	P		Art.	Art.	Art.	Art.
100	34	22	14	11	M18	2.5	15.5		J652124 ◯	J657274 ◯	
100	34	25	14	11	MF18	2	16		J666344 ◯	J666645 ◯	
100	25	25	14	11	MF18	1.5	16.5		J666345 ◯	J666646 ◯	
100	25	18	14	11	MF18	1	17		J666346 ◯	J666647 ◯	
105	34	25	15	12	M20	2.5	17.5		J652132 ◯	J657304 ◯	
105	25	25	15	12	MF20	1.5	18.5		J666347 ◯	J666648 ◯	
115	34	25	17	13	M22	2.5	19.5		J672801 ◯	J677102 ◯	
115	25	17	17	13	MF22	1.5	20.5		J666348 ◯	J666649 ◯	
120	38	28	19	15	M24	3	21		J672802 ◯	J677103 ◯	
120	28	20	19	15	MF24	2	22		J666349 ◯	J666650 ◯	
120	25	20	19	15	MF24	1.5	22.5		J666350 ◯	J666651 ◯	

T-JIS M/ MF



T-JIS



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准



T-JIS

T-JIS

T-JIS

T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		d ₁	a	d	P		Art.	Art.	Art.	Art.
	l	l ₁	l	l ₁									
46	11	7	6	11	4	3.2	M3	0.5	2.5	J822519 ○		J878514 ○	
52	13	8	7.5	13	5	4	M4	0.7	3.3	J822535 ○		J878530 ○	
60	16	9	9	16	5.5	4.5	M5	0.8	4.2	J822543 ○		J878549 ○	
62	19	11	11	18	6	4.5	M6	1	5	J822551 ○		J878557 ○	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J861123 ○		J878453 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J861131 ○		J878454 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J822594 ○		J878581 ○
88	30		20		10.5	8	M14	2	12		J822608 ○		J878603 ○
95	32		20		12.5	10	M16	2	14		J822616 ○		J878611 ○
100	34		22		14	11	M18	2.5	15.5		J822624 ○		J878638 ○
105	34		25		15	12	M20	2.5	17.5		J822632 ○		J878646 ○
115	34		25		17	13	M22	2.5	19.5		J822230 ○		J822455 ○
120	38		28		19	15	M24	3	21		J822231 ○		J822456 ○

105/4 YELLOW RING
131/3 YELLOW RING

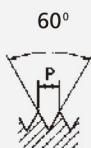
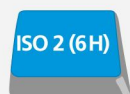
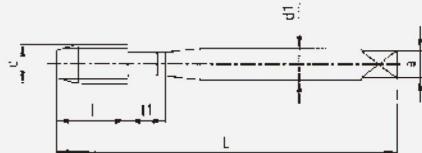
G25 Wrought alloy of aluminium, G22 soft brass(Ms63 long chipping) G29 wrought alloy of magnesium, G26 aluminium cast alloy Si < 5%, G23 red brass, G24 phosphor bronze, G20 copper, G01, G02 Structural steels

105/4 YELLOW RING
131/3 YELLOW RING

G25锻造铝合金, G22软黄铜(Ms63,长切屑) G29锻造镁合金, G26 铸造铝合金(Si < 5%) G23红铜, G24磷青铜, G20铜, G01, G02结构钢



T-JIS

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

T-JIS M

• For stock /有库存

Norm /标准



ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		d ₁	a	d	P		Art.	Art.	Art.	Art.
	l	h	l	l ₁									
46	11	7	6	11	4	3.2	M3	0.5	2.5	J843403 ○		J843422 ○	
52	13	8	7.5	13	5	4	M4	0.7	3.3	J843404 ○		J843423 ○	
60	16	9	9	16	5.5	4.5	M5	0.8	4.2	J843405 ○		J843424 ○	
62	19	11	11	18	6	4.5	M6	1	5	J843406 ○		J843425 ○	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J143414 ○		J143434 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J143415 ○		J143435 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J843409 ○		J843429 ○
88	30		20		10.5	8	M14	2	12		J843410 ○		J843430 ○
95	32		20		12.5	10	M16	2	14		J843411 ○		J843431 ○
100	34		22		14	11	M18	2.5	15.5		J843412 ○		J843432 ○
105	34		25		15	12	M20	2.5	17.5		J843413 ○		J843433 ○
115	34		25		17	13	M22	2.5	19.5		J843414 ○		J843434 ○
120	38		28		19	15	M24	3	21		J843415 ○		J843435 ○

105/4 DOUBLE YELLOW RING
131/3 DOUBLE YELLOW RING

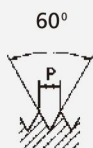
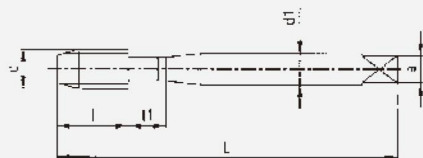
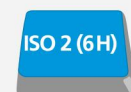
G25 Wrought alloy of aluminium, G22 soft brass(Ms63 long chipping) G29 wrought alloy of magnesium, G26 aluminium cast alloy Si < 5%, G23 red brass, G24 phosphor bronze, G20 copper, G01, G02 Structural steels

105/4 DOUBLE YELLOW RING
131/3 DOUBLE YELLOW RING

G25锻造铝合金, G22软黄铜(Ms63,长切屑) G29锻造镁合金, G26 铸造铝合金(Si < 5%) G23红铜, G24磷青铜, G20铜, G01, G02结构钢



T-JIS



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准



T-JIS

T-JIS

T-JIS

T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

105/4

131/3

L	l	h	l	l1	d1	a	d	P		Art.	Art.	Art.	Art.
40	8		8		3	2.5	M2	0.4	1.6	J852000 ●		J873040 ●	
44	9		9		3	2.5	M2.5	0.45	2.05	J852035 ●		J871560 ●	
46	11	7	6	11	4	3.2	M3	0.5	2.5	J856707 ●		J844245 ●	
52	13	8	7.5	13	5	4	M4	0.7	3.3	J837176 ●		J845500 ●	
60	16	9	9	16	5.5	4.5	M5	0.8	4.2	J837184 ●		J845659 ●	
62	19	11	11	18	6	4.5	M6	1	5	J837192 ●		J851829 ●	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J852108 ●		J871625 ●
70	22		10		6.2	5	MF8	1	7		J166333 ○		J166634 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J852116 ●		J871633 ●
75	20		12		7	5.5	MF10	1	9		J166335 ○		J166636 ○
75	24		14		7	5.5	MF10	1.25	8.8		J166336 ○		J166637 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J837222 ●		J857150 ●
82	22		14		8.5	6.5	MF12	1.25	10.8		J166338 ○		J166639 ○
82	22		14		8.5	6.5	MF12	1.5	10.5		J166339 ○		J166640 ○
88	30		20		10.5	8	M14	2	12		J837230 ●		J857177 ●
88	22		20		10.5	8	MF14	1.5	12.5		J166341 ○		J166642 ○
95	32		20		12.5	10	M16	2	14		J837249 ●		J857193 ●
95	22		22		12.5	10	MF16	1.5	14.5		J166343 ○		J166644 ○
100	34		22		14	11	M18	2.5	15.5		J852124 ○		J857274 ○
105	34		25		15	12	M20	2.5	17.5		J852132 ○		J857304 ○
115	34		25		17	13	M22	2.5	19.5		J872419 ○		J877102 ○
120	38		28		19	15	M24	3	21		J883798 ○		J877103 ○

105/4,131/3 BLACK RING

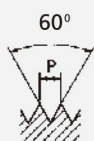
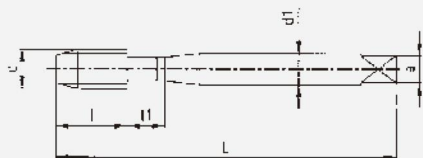
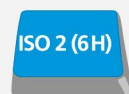
G01, G02, G03, G04, G05, G08, G13, G14, G20.

105/4,131/3 BLACK RING

G01,G02结构钢, G03, G04表面硬化钢, G05热处理钢<1000N/mm², G08碳素工具钢, G13易切钢, G14铸钢<1000N/mm², G20铜



T-JIS

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

T-JIS M

• For stock /有库存

Norm /标准



T-JIS

T-JIS

T-JIS

T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

105/4

131/3

L	l	l1	l	l1	d1	a	d	P	
40	8		8		3	2.5	M2	0.4	1.6
44	9		9		3	2.5	M2.5	0.45	2.05
46	11	7	6	11	4	3.2	M3	0.5	2.5
52	13	8	7.5	13	5	4	M4	0.7	3.3
60	16	9	9	16	5.5	4.5	M5	0.8	4.2
62	19	11	11	18	6	4.5	M6	1	5
70	22	13	13	21	6.2	5	M8	1.25	6.8
75	24	15	16	22	7	5.5	M10	1.5	8.5
82	29		18		8.5	6.5	M12	1.75	10.2
88	30		20		10.5	8	M14	2	12
95	32		20		12.5	10	M16	2	14
100	34		22		14	11	M18	2.5	15.5
105	34		25		15	12	M20	2.5	17.5
115	34		25		17	13	M22	2.5	19.5
120	38		28		19	15	M24	3	21

Art.

Art.

Art.

Art.

J843215 ●

J843216 ●

J843217 ●

J843218 ●

J843219 ●

J843220 ●

J843237 ●

J843238 ●

J843239 ●

J843240 ●

J843241 ●

J843242 ●

J843243 ●

J843244 ●

J843245 ●

J843246 ●

J843247 ●

J843248 ●

J843249 ●

J843250 ●

J843251 ●

J843252 ●

J843253 ●

J843254 ●

J843255 ●

J843256 ●

J843257 ●

J843258 ●

J843259 ●

J843260 ●

J843261 ●

J843262 ●

J843263 ●

J843264 ●

J843265 ●

J843266 ●

J843267 ●

J843268 ●

J843269 ●

J843270 ●

J843271 ●

J843272 ●

J843273 ●

J843274 ●

J843275 ●

J843276 ●

J843277 ●

J843278 ●

J843279 ●

J843280 ●

J843281 ●

J843282 ●

J843283 ●

J843284 ●

J843285 ●

J843286 ●

J843287 ●

J843288 ●

J843289 ●

J843290 ●

J843291 ●

J843292 ●

J843293 ●

J843294 ●

J843295 ●

J843296 ●

J843297 ●

J843298 ●

J843299 ●

J843300 ●

J843301 ●

J843302 ●

J843303 ●

J843304 ●

J843305 ●

J843306 ●

J843307 ●

J843308 ●

J843309 ●

J843310 ●

J843311 ●

J843312 ●

J843313 ●

J843314 ●

J843315 ●

J843316 ●

J843317 ●

J843318 ●

J843319 ●

J843320 ●

J843321 ●

J843322 ●

J843323 ●

J843324 ●

J843325 ●

J843326 ●

J843327 ●

J843328 ●

J843329 ●

J843330 ●

J843331 ●

J843332 ●

J843333 ●

J843334 ●

J843335 ●

J843336 ●

J843337 ●

J843338 ●

J843339 ●

J843340 ●

J843341 ●

J843342 ●

J843343 ●

J843344 ●

J843345 ●

J843346 ●

J843347 ●

J843348 ●

J843349 ●

J843350 ●

105/4,131/3 DOUBLE BLACK RING

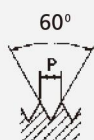
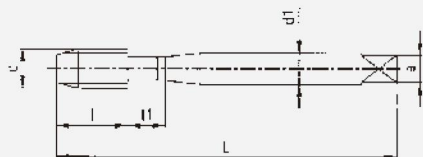
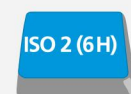
G01,G02 Structural steels, G03, G04 case hardening steels, G05 heat treatable steels up to 1000N/mm², G08 carbon tool steels, G13 free-cutting steels, G10 Cr stainless steels sulphured, a.o.

105/4,131/3 DOUBLE BLACK RING

G01,G02结构钢, G03, G04表面硬化钢, G05热处理钢<1000N/mm², G08碳素工具钢, G13易切钢 G10 Cr不锈钢



T-JIS



105/3



105/3



• For stock / 有库存

Norm / 标准



T-JIS

ISO 2 (6H)

C/2,5



T-JIS

ISO 2 (6H)

C/2,5

L	105/3		d ₁	a	d	P		Art.	Art.
46	11	7	4	3.2	M3	0.5	2.5	J837257 •	
52	13	8	5	4	M4	0.7	3.3	J837273 •	
60	16	9	5.5	4.5	M5	0.8	4.2	J837281 •	
62	19	11	6	4.5	M6	1	5	J856715 •	
70	22	13	6.2	5	M8	1.25	6.8		J871412 •
75	24	15	7	5.5	M10	1.5	8.5		J874985 •
82	29		8.5	6.5	M12	1.75	10.2		J856723 •
88	30		10.5	8	M14	2	12		J852140 •
95	30		12.5	10	M16	2	14		J852159 •
100	34		14	11	M18	2.5	15.5		J852167 ○
105	34		15	12	M20	2.5	17.5		J852175 ○
115	34		17	13	M22	2.5	19.5		J852177 ○
120	38		19	15	M24	3	21		J852179 ○

105/3 GREEN RING

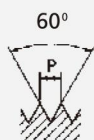
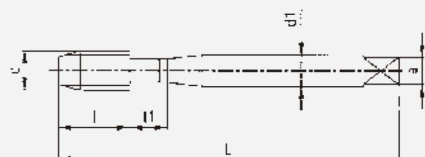
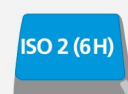
G18 Lamellar graphite cast iron (grey cast iron), G17 nodular graphite cast iron, G19 vermicular graphite cast iron, G16 malleablecast iron, G27, G28 aluminium cast alloy Si 5-12 % a.o.

105/3 GREEN RING

G18片状石墨铸铁(灰铸铁) G17结节性石墨铸铁(球墨铸铁) G19蠕墨铸铁, G16可锻铸铁, G27, G28铸造铝合金 Si 5-12 %



T-JIS

105/3
DOUBLE105/3
DOUBLE

T-JIS M

• For stock /有库存

Norm /标准



T-JIS

ISO 2 (6H)

C/2,5



T-JIS

ISO 2 (6H)

C/2,5

L	105/3		d ₁	a	d	P		Art.	Art.
	l	l ₁							
46	11	7	4	3.2	M3	0.5	2.5	J843446 ●	
52	13	8	5	4	M4	0.7	3.3	J843447 ●	
60	16	9	5.5	4.5	M5	0.8	4.2	J843448 ●	
62	19	11	6	4.5	M6	1	5	J843449 ●	
70	22	13	6.2	5	M8	1.25	6.8		J143450 ●
75	24	15	7	5.5	M10	1.5	8.5		J143451 ●
82	29		8.5	6.5	M12	1.75	10.2		J843454 ●
88	30		10.5	8	M14	2	12		J843455 ●
95	32		12.5	10	M16	2	14		J843456 ●
100	34		14	11	M18	2.5	15.5		J843457 ○
105	34		15	12	M20	2.5	17.5		J843458 ○
115	34		17	13	M22	2.5	19.5		J843459 ○
120	38		19	15	M24	3	21		J843460 ○

105/3 DOUBLE GREEN RING

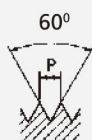
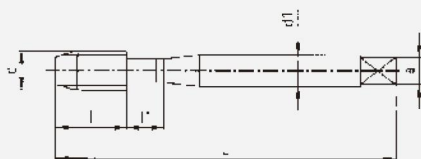
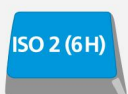
G18 Lamellar graphite cast iron (grey cast iron), G17 nodular graphite cast iron, G19 vermicular graphite cast iron, G16 malleable cast iron, G27, G28 aluminium cast alloy Si 5-12 % a.o.

105/3 DOUBLE GREEN RING

G18片状石墨铸铁(灰铸铁) G17结节性石墨铸铁(球墨铸铁) G19蠕墨铸铁, G16可锻铸铁, G27, G28铸造铝合金 Si 5-12 %



T-JIS



105/4

105/4

131/3

131/3



• For stock / 有库存

Norm / 标准



T-JIS



T-JIS



T-JIS



T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

105/4

131/3

L	l	l ₁	l	l ₁	d ₁	a	d	p		Art.	Art.	Art.	Art.	
40	8		8		3	2.5	M2	0.4	1.6	J893564 ●		J825690 ●		
44	9		9		3	2.5	M2.5	0.45	2.05	J893556 ●		J825828 ●		
46	11	7	6	11	4	3.2	M3	0.5	2.5	J893572 ●		J825925 ●		
52	13	8	7.5	13	5	4	M4	0.7	3.3	J893580 ●		J826034 ●		
60	16	9	9	16	5.5	4.5	M5	0.8	4.2	J893599 ●		J826085 ●		
62	19	11	11	18	6	4.5	M6	1	5	J893602 ●		J826123 ●		
70	22	13	13	21	6.2	5	M8	1.25	6.8		J193631 ●		J126291 ●	
70	22	13	10		6.2	5	MF8	1	7		J111893 ○		J184790 ○	
75	24	15	16	22	7	5.5	M10	1.5	8.5		J193632 ●		J126292 ●	
75	20	15	12		7	5.5	MF10	1	9		J111895 ○		J184792 ○	
75	24	15	14		7	5.5	MF10	1.25	8.8		J111896 ○		J184793 ○	
82	29		18		8.5	6.5	M12	1.75	10.2		J893637 ●		J826298 ●	
82	22		14		8.5	6.5	MF12	1.25	10.8		J811879 ○		J884964 ○	
82	22		14		8.5	6.5	MF12	1.5	10.5		J811880 ○		J884972 ○	
88	30		20		10.5	8	M14	2	12		J893645 ●		J854852 ●	
88	22		20		10.5	8	MF14	1.5	12.5		J811882 ○		J884999 ○	
95	32		20		12.5	10	M16	2	14		J893653 ●		J854860 ●	
95	22		20		12.5	10	MF16	1.5	14.5		J811884 ○		J885014 ○	
100	34		22		14	11	M18	2.5	15.5		J893661 ○		J854879 ○	
105	34		25		15	12	M20	2.5	17.5		J893688 ○		J854887 ○	
115	34		25		17	13	M22	2.5	19.5		J893690 ○		J854889 ○	
120	38		28		19	15	M24	3	21		J893718 ○		J854909 ○	

105/4,131/3 BLUE RING

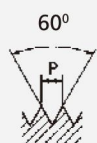
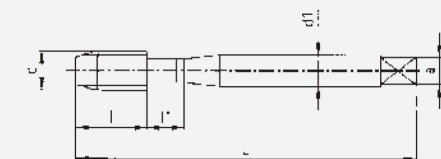
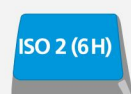
G12 Cr-Ni stainless steels austenitic, G11 Cr stainless steels ferritic and martensitic, G07 nitriding steels, G09 heat resisting steels, G31 alloy of nickel, G10 Cr stainless steels sulphured, G01, G02 structural steels, G03, G04 case hardening steels G06 heat treatable steels from 900N/mm²

105/4,131/3 BLUE RING

G12 Cr-Ni 不锈钢, G11 马氏体不锈钢, G07 氮化钢, G09 耐热钢, G31 镍合金, G10 Cr 不锈钢, G01, G02 结构钢, G03, G04 表面硬化钢, G06 热处理钢 >900N/mm²



T-JIS

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

T-JIS M

• For stock /有库存

Norm /标准



T-JIS



T-JIS



T-JIS



T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

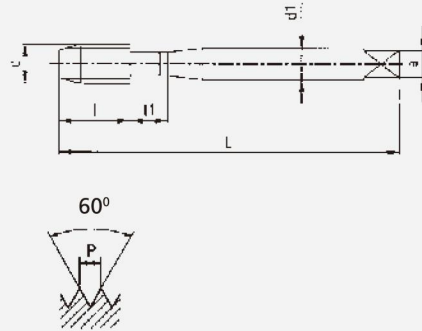
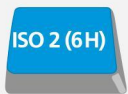
105/4

131/3

L	l	l ₁	l	l ₁	d ₁	a	d	P		Art.	Art.	Art.	Art.
40	8		8		3	2.5	M2	0.4	1.6	J843283 ●		J843297 ●	
44	9		9		3	2.5	M2.5	0.45	2.05	J843284 ●		J843298 ●	
46	11	7	3.6	11	4	3.2	M3	0.5	2.5	J843285 ●		J843299 ●	
52	13	8	4	13	5	4	M4	0.7	3.3	J843286 ●		J843300 ●	
60	16	9	5.7	16	5.5	4.5	M5	0.8	4.2	J843287 ●		J843301 ●	
62	19	11	7.5	18	6	4.5	M6	1	5	J843289 ●		J843302 ●	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J143281 ●		J143297 ●
70	22	13	10	21	6.2	5	MF8	1	7		J820394 ○		J820469 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J143282 ●		J143298 ●
75	20	15	12	22	7	5.5	MF10	1	9		J820403 ○		J820478 ○
75	24	15	14		7	5.5	MF10	1.25	8.8		J820406 ○		J820481 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J843292 ●		J843306 ●
82	22		14		8.5	6.5	MF12	1.25	10.8		J820412 ○		J820487 ○
82	22		14		8.5	6.5	MF12	1.5	10.5		J820415 ○		J820490 ○
88	30		20		10.5	8	M14	2	12		J843293 ●		J843307 ●
88	22		20		10.5	8	MF14	1.5	12.5		J820421 ○		J820496 ○
95	32		20		12.5	10	M16	2	14		J843294 ●		J843308 ●
95	22		20		12.5	10	MF16	1.5	14.5		J820427 ○		J820502 ○
100	34		22		14	11	M18	2.5	15.5		J843295 ○		J843309 ○
105	34		25		15	12	M20	2.5	17.5		J843296 ○		J843310 ○
115	34		25		17	13	M22	2.5	19.5		J843820 ○		J843851 ○
120	38		28		19	15	M24	3	21		J843821 ○		J843852 ○



T-JIS



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准



T-JIS

T-JIS

T-JIS

T-JIS

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		d ₁	a	d	P		Art.	Art.	Art.	Art.
	l	h	l	h ₁									
46	11	7	6	11	4	3.2	M3	0.5	2.5	J875035 ○		J876031 ○	
52	13	8	7.5	13	5	4	M4	0.7	3.3	J875043 ○		J876058 ○	
60	16	9	9	16	5.5	4.5	M5	0.8	4.2	J875051 ○		J876066 ○	
62	19	11	11	18	6	4.5	M6	1	5	J875078 ○		J876074 ○	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J175092 ○		J176088 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J175100 ○		J176096 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J875108 ○		J876104 ○
88	30		20		10.5	8	M14	2	12		J875116 ○		J876112 ○
95	32		20		12.5	10	M16	2	14		J875124 ○		J876120 ○
100	34		22		14	11	M18	2.5	15.5		J875132 ○		J876139 ○
105	34		25		15	12	M20	2.5	17.5		J875140 ○		J876147 ○
115	34		25		17	13	M22	2.5	19.5		J875148 ○		J876155 ○
120	38		28		19	15	M24	3	21		J883909 ○		J884204 ○

105/4 RED RING
131/3 RED RING

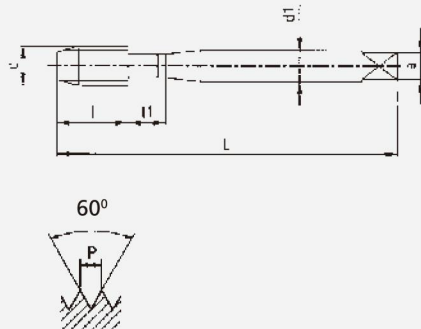
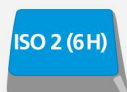
G01, G02 Structural steels, G03, G04 case hardening steels, G05, G06 heat treatable steels, G15 cast steels from 900 N/mm², G08 carbon tool steels, G34 thermoplastic compounds/synthetics

105/4 RED RING
131/3 RED RING

G01, G02结构钢, G03, G04表面硬化钢, G06热处理钢 >900N/mm², G15铸钢>900N/mm², G08碳素工具钢, G34热塑性复合材料



T-JIS

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

T-JIS M

• For stock /有库存

Norm /标准



T-JIS

ISO 2 (6H)

B/4



T-JIS

ISO 2 (6H)

B/4



T-JIS

ISO 2 (6H)

C/2,5



T-JIS

ISO 2 (6H)

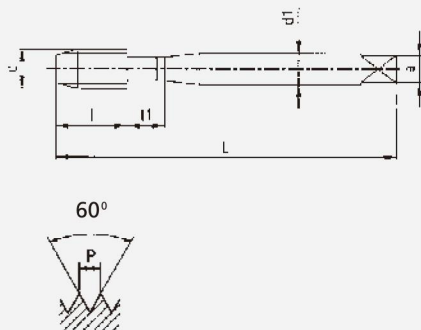
C/2,5

L	105/4		131/3		d ₁	a	d	P		Art.	Art.	Art.	Art.
	l	h	l	l ₁									
46	11	7	3.6	11	4	3.2	M3	0.5	2.5	J843314 ○		J843327 ○	
52	13	8	4	13	5	4	M4	0.7	3.3	J843315 ○		J843328 ○	
60	16	9	5.7	16	5.5	4.5	M5	0.8	4.2	J843316 ○		J843329 ○	
62	19	11	7.5	18	6	4.5	M6	1	5	J843317 ○		J843330 ○	
70	22	13	13	21	6.2	5	M8	1.25	6.8		J143311 ○		J143325 ○
75	24	15	16	22	7	5.5	M10	1.5	8.5		J143312 ○		J143326 ○
82	29		18		8.5	6.5	M12	1.75	10.2		J843320 ○		J843333 ○
88	30		20		10.5	8	M14	2	12		J843321 ○		J843334 ○
95	32		20		12.5	10	M16	2	14		J843322 ○		J843335 ○
100	34		22		14	11	M18	2.5	15.5		J843323 ○		J843336 ○
105	34		25		15	12	M20	2.5	17.5		J843324 ○		J843337 ○
115	34		25		17	13	M22	2.5	19.5		J843860 ○		J843870 ○
120	38		28		19	15	M24	3	21		J843861 ○		J843871 ○

**105/4 DOUBLE RED RING
131/3 DOUBLE RED RING**G01, G02 Structural steels, G03, G04 case hardening steels, G06 heat treatable steels, G15 cast steels from 900N/mm², G08 carbon tool steels**105/4 DOUBLE RED RING
131/3 DOUBLE RED RING**G01, G02结构钢, G03, G04表面硬化钢, G06热处理钢 >900N/mm², G15铸钢>900N/mm², G08碳素工具钢



DIN 371/376



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		DIN 371		DIN 376					Art.	Art.	Art.	Art.
	l	h	l	l1	d1	a	d1	a	d	P					
45	8		8		2.8	2.1			M2	0.4	1.6	C822462 ○		C878484 ○	
50	9		9		2.8	2.1			M2,5	0.45	2.05	C822497 ○		C878506 ○	
56	11	7	6	11	3.5	2.7	2.2	1.8	M3	0.5	2.5	C822519 ○	C861077 ○	C878514 ○	
63	13	8	7.5	13	4.5	3.4	2.8	2.1	M4	0.7	3.3	C822535 ○	C861093 ○	C878530 ○	
70	16	9	9	16	6	4.9	3.5	2.7	M5	0.8	4.2	C822543 ○	C861107 ○	C878549 ○	
80	19	11	11	18	6	4.9	4.5	3.4	M6	1	5	C822551 ○	C861115 ○	C878557 ○	
90	22	13	13	21	8	6.2	6	4.9	M8	1.25	6.8	C822578 ○	C861123 ○	C878565 ○	
100	24	15	16	22	10	8	7	5.5	M10	1.5	8.5	C822586 ○	C861131 ○	C878573 ○	
110	29		18				9	7	M12	1.75	10.2		C822594 ○		C878581 ○
110	30		20				11	9	M14	2	12		C822608 ○		C878603 ○
110	32		20				12	9	M16	2	14		C822616 ○		C878611 ○
125	34		22				14	11	M18	2.5	15.5		C822624 ○		C878638 ○
140	34		25				16	12	M20	2.5	17.5		C822632 ○		C878646 ○
140	34		25				18	14.5	M22	2.5	19.5		C822230 ○		C822455 ○
160	38		28				18	14.5	M24	3	21		C822231 ○		C822456 ○

105/4 YELLOW RING
131/3 YELLOW RING

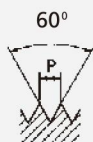
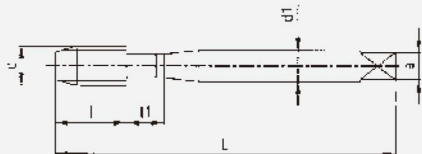
G25 Wrought alloy of aluminium, G22 soft brass(Ms63 long chipping) G29 wrought alloy of magnesium, G26 aluminium cast alloy Si < 5%, G23 red brass, G24 phosphor bronze, G20 copper, G01, G02 Structural steels

105/4 YELLOW RING
131/3 YELLOW RING

G25锻造铝合金, G22软黄铜(Ms63,长切屑) G29锻造镁合金, G26 铸造铝合金(Si < 5%) G23红铜, G24 磷青铜, G20铜, G01, G02结构钢



DIN 371/376

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

DIN M

• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4 l	105/4 l1	131/3 l	131/3 l1	DIN 371 d1	DIN 371 a	DIN 376 d1	DIN 376 a	d	P		Art.	Art.	Art.	Art.
56	11	7	6	11	3.5	2.7	2.2	1.8	M3	0.5	2.5	C843403 ○		C843422 ○	
63	13	8	7.5	13	4.5	3.4	2.8	2.1	M4	0.7	3.3	C843404 ○		C843423 ○	
70	16	9	9	16	6	4.9	3.5	2.7	M5	0.8	4.2	C843405 ○		C843424 ○	
80	19	11	11	18	6	4.9	4.5	3.4	M6	1	5	C843406 ○		C843425 ○	
90	22	13	13	21	8	6.2	6	4.9	M8	1.25	6.8	C843407 ○		C843426 ○	
100	24	15	16	22	10	8	7	5.5	M10	1.5	8.5	C843408 ○		C843428 ○	
110	29		18				9	7	M12	1.75	10.2		C843409 ○		C843429 ○
110	30		20				11	9	M14	2	12		C843410 ○		C843430 ○
110	32		20				12	9	M16	2	14		C843411 ○		C843431 ○
125	34		22				14	11	M18	2.5	15.5		C843412 ○		C843432 ○
140	34		25				16	12	M20	2.5	17.5		C843413 ○		C843433 ○
140	34		25				18	14.5	M22	2.5	19.5		C843414 ○		C843434 ○
160	38		28				18	14.5	M24	3	21		C843415 ○		C843435 ○

105/4 DOUBLE YELLOW RING
131/3 DOUBLE YELLOW RING

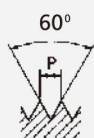
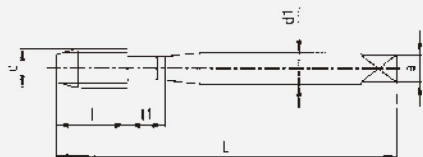
G25 Wrought alloy of aluminium, G22 soft brass(Ms63 long chipping) G29 wrought alloy of magnesium, G26 aluminium cast alloy Si < 5%, G23 red brass, G24 phosphor bronze, G20 copper, G01, G02 Structural steels

105/4 DOUBLE YELLOW RING
131/3 DOUBLE YELLOW RING

G25锻造铝合金, G22软黄铜(Ms63,长切屑) G29锻造镁合金, G26 铸造铝合金(Si < 5%) G23红铜, G24 磷青铜, G20铜, G01, G02结构钢



DIN 371/376



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5-3

L	105/4	131/3	DIN 371	DIN 376	d	P		Art.	Art.	Art.	Art.
	l	l1	l	l1	d1	a	d1	a	d	P	
45	8		8		2.8	2.1			M2	0.4	1.6
50	9		9		2.8	2.1			M2.5	0.45	2.05
56	11	7	6	11	3.5	2.7	2.2	1.8	M3	0.5	2.5
63	13	8	7.5	13	4.5	3.4	2.8	2.1	M4	0.7	3.3
70	16	9	9	16	6	4.9	3.5	2.7	M5	0.8	4.2
80	19	11	11	18	6	4.9	4.5	3.4	M6	1	5
90	22	13	13	21	8	6.2	6	4.9	M8	1.25	6.8
100	24	15	16	22	10	8	7	5.5	M10	1.5	8.5
110	29		18				9	7	M12	1.75	10.2
110	30		20				11	9	M14	2	12
110	32		20				12	9	M16	2	14
125	34		22				14	11	M18	2.5	15.5
140	34		25				16	12	M20	2.5	17.5
140	34		25				18	14.5	M22	2.5	19.5
160	38		28				18	14.5	M24	3	21

105/4,131/3 BLACK RING

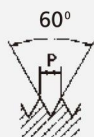
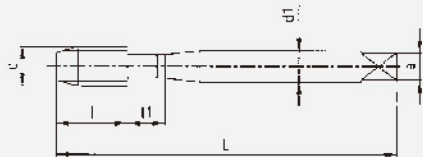
G01, G02, G03, G04, G05, G08, G13, G14, G20.

105/4,131/3 BLACK RING

G01, G02结构钢, G03, G04表面硬化钢, G05热处理钢<1000N/mm², G08碳素工具钢, G13易切钢, G14铸钢<1000N/mm², G20铜



DIN 371/376

105/4
DOUBLE105/4
DOUBLE131/3
DOUBLE131/3
DOUBLE

DIN M

• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5-3

	105/4		131/3		DIN 371		DIN 376								
L	l	l ₁	l	l ₁	d ₁	a	d ₁	a	d	P		Art.	Art.	Art.	Art.
45	8		8		2.8	2.1			M2	0.4	1,6	C843215 ○		C843840 ○	
50	9		9		2.8	2.1			M2.5	0.45	2,05	C843216 ○		C843238 ○	
56	11	7	6	11	3.5	2.7	2.7	1.8	M3	0.5	2,5	C843217 ●		C843239 ●	
63	13	8	7.5	13	4.5	3.4	2.8	2.1	M4	0.7	3,3	C843218 ●		C843240 ●	
70	16	9	9	16	6	4.9	3.5	2.7	M5	0.8	4,2	C843219 ●		C843241 ●	
80	19	11	11	18	6	4.9	4.5	3.4	M6	1	5	C843220 ●		C843242 ●	
90	22	13	13	21	8	6.2	6	4.9	M8	1.25	6,8	C843221 ●		C843243 ●	
100	24	15	16	22	10	8	7	5.5	M10	1.5	8,5	C843231 ●		C843244 ●	
110	29		18				9	7	M12	1.75	10,2		C843232 ●		C843245 ●
110	30		20				11	9	M14	2	12		C843233 ●		C843246 ●
110	32		20				12	9	M16	2	14		C843234 ●		C843247 ●
125	34		22				14	11	M18	2.5	15,5		C843235 ○		C843248 ○
140	34		25				16	12	M20	2.5	17,5		C843236 ○		C843250 ○
140	34		25				18	14.5	M22	2.5	19.5		C843237 ○		C843251 ○
160	38		28				18	14.5	M24	3	21		C843801 ○		C843252 ○

105/4,131/3 DOUBLE BLACK RING

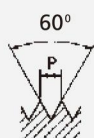
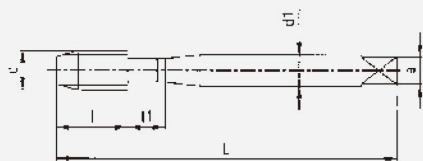
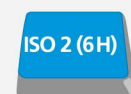
G01,G02 Structural steels, G03, G04 case hardening steels, G05 heat treatable steels up to 1000N/mm², G08 carbon tool steels, G13 free-cutting steels, G10 Cr stainless steels sulphured, a.o.

105/4,131/3 DOUBLE BLACK RING

G01,G02结构钢, G03, G04表面硬化钢, G05热处理钢<1000N/mm², G08碳素工具钢, G13易切钢 G10 Cr不锈钢



DIN 371/376



105/3



105/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

ISO 2 (6H)

C/2,5



DIN 376

ISO 2 (6H)

C/2,5

L	105/3	DIN 371	DIN 376	d	P	Art.	Art.
	l	l ₁	d ₁ a	d ₁ a			
45	8		2.8 2.1		M2 0.4	1.6	C871374 ○
50	9		2.8 2.1		M2.5 0.45	2.05	C871382 ○
56	11	7	3.5 2.7		M3 0.5	2.5	C837257 ○
63	13	8	4.5 3.4		M4 0.7	3.3	C837273 ○
70	16	9	6 4.9		M5 0.8	4.2	C837281 ○
80	19	11	6 4.9		M6 1	5	C856715 ○
90	22	13	8 6.2	6 4.9	M8 1.25	6.8	C837303 ○
100	24	15	10 8	7 5.5	M10 1.5	8.5	C837311 ○
110	29			9 7	M12 1.75	10.2	C856723 ○
110	30			11 9	M14 2	12	C852140 ○
110	32			12 9	M16 2	14	C852159 ○
140	34			16 12	M20 2.5	17.5	C852175 ○
140	34			18 14.5	M22 2.5	19.5	C852177 ○
160	38			18 14.5	M24 3	21	C852179 ○

105/3 GREEN RING

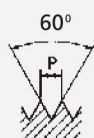
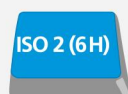
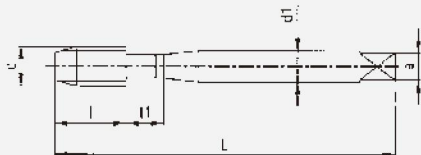
G18 Lamellar graphite cast iron (grey cast iron), **G17** nodular graphite cast iron, **G19** vermicular graphite cast iron, **G16** malleable cast iron, **G27, G28** aluminium cast alloy Si 5–12 % a.o.

105/3 GREEN RING

G18片状石墨铸铁(灰铸铁) **G17**结节性石墨铸铁(球墨铸铁) **G19**蠕墨铸铁, **G16**可锻铸铁, **G27, G28**铸造铝合金 Si 5–12 %



DIN 371/376

105/3
DOUBLE105/3
DOUBLE

• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

ISO 2 (6H)

C/2,5



DIN 376

ISO 2 (6H)

C/2,5

L	105/3		DIN 371		DIN 376		d	P		Art.	Art.
	l	l1	d1	a	d1	a					
56	11	7	3.5	2.7			M3	0.5	2.5	C843446 ○	
63	13	8	4.5	3.4			M4	0.7	3.3	C843447 ○	
70	16	9	6	4.9			M5	0.8	4.2	C843448 ○	
80	19	11	6	4.9			M6	1	5	C843449 ○	
90	22	13	8	6.2	6	4.9	M8	1.25	6.8	C843452 ○	
100	24	15	10	8	7	5.5	M10	1.5	8.5	C843453 ○	
110	29				9	7	M12	1.75	10.2		C843454 ○
110	30				11	9	M14	2	12		C843455 ○
110	32				12	9	M16	2	14		C843456 ○
140	34				16	12	M20	2.5	17.5		C843458 ○
140	34				18	14.5	M22	2.5	19.5		C843459 ○
160	38				18	14.5	M24	3	21		C843460 ○

105/3 DOUBLE GREEN RING

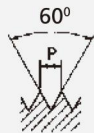
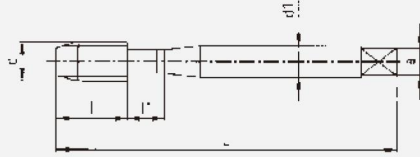
G18 Lamellar graphite cast iron (grey cast iron), G17 nodular graphite cast iron, G19 vermicular graphite cast iron, G16 malleablecast iron, G27, G28 aluminium cast alloy Si 5–12 % a.o.

105/3 DOUBLE GREEN RING

G18片状石墨铸铁(灰铸铁) G17结节性石墨铸铁(球墨铸铁) G19蠕墨铸铁, G16可锻铸铁, G27, G28铸造铝合金 Si 5–12 %



DIN 371/376



105/4

105/4

131/3

131/3



• For stock / 有库存

Norm / 标准

Class of tolerance / 公差



DIN 371



DIN 376



DIN 371



DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

	105/4		131/3										
L	l	l ₁	l	l ₁	d ₁	a	d	p		Art.	Art.	Art.	Art.
45	8		8		2.8	2.1	M2	0.4	1.6	C893564 ○		C825690 ○	
50	9		9		2.8	2.1	M2.5	0.45	2.05	C893556 ○		C825828 ○	
56	11	7	6	11	3.5	2.7	M3	0.5	2.5	C893572 ○		C825925 ○	
63	13	8	7.5	13	4.5	3.4	M4	0.7	3.3	C893580 ○		C826034 ○	
70	16	9	9	16	6	4.9	M5	0.8	4.2	C893599 ○		C826085 ○	
80	19	11	11	18	6	4.9	M6	1	5	C893602 ○		C826123 ○	
90	22	13	13	21	8	6.2	M8	1.25	6.8	C893610 ○		C826212 ○	
100	24	15	16	22	10	8	M10	1.5	8.5	C893629 ○		C826247 ○	
110	29		18		9	7	M12	1.75	10.2		C893637 ○		C826298 ○
110	30		20		11	9	M14	2	12		C893645 ○		C854852 ○
110	32		20		12	9	M16	2	14		C893653 ○		C854860 ○
125	34		22		14	11	M18	2.5	15.5		C893661 ○		C854879 ○
140	34		25		16	12	M20	2.5	17.5		C893688 ○		C854887 ○
140	34		25		18	14.5	M22	2.5	19.5		C893696 ○		C854895 ○
160	38		28		18	14.5	M24	3	21		C893718 ○		C854909 ○

105/4,131/3 BLUE RING

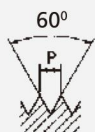
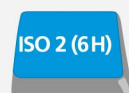
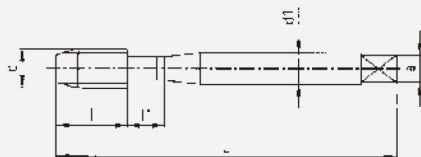
G12 Cr-Ni stainless steels austenitic, G11 Cr stainless steels ferritic and martensitic, G07 nitriding steels, G09 heat resisting steels, G31 alloy of nickel, G10 Cr stainless steels sulphured, G01, G02 structural steels, G03, G04 case hardening steels G06 heat treatable steels from 900N/mm²

105/4,131/3 BLUE RING

G12 Cr-Ni 不锈钢, G11 马氏体不锈钢, G07 氮化钢, G09 耐热钢, G31 镍合金, G10 Cr 不锈钢, G01, G02 结构钢, G03, G04 表面硬化钢, G06 热处理钢 >900N/mm²



DIN 371/376



105/4
DOUBLE

105/4
DOUBLE

131/3
DOUBLE

131/3
DOUBLE



• For stock / 有库存

Norm / 标准

Class of tolerance / 公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		d1	a	d			Art.	Art.	Art.	Art.
	l	l1	l	l1									
45	8		8		2.8	2.1	M2	0.4	1.6	C843283 ○		C843297 ○	
50	9		9		2.8	2.1	M2.5	0.45	2.05	C843284 ○		C843851 ○	
56	11	7	3.6	11	3.5	2.7	M3	0.5	2.5	C843285 ○		C843299 ○	
63	13	8	4	13	4.5	3.4	M4	0.7	3.3	C843286 ○		C843300 ○	
70	16	9	5.7	16	6	4.9	M5	0.8	4.2	C843287 ○		C843301 ○	
80	19	11	7.5	18	6	4.9	M6	1	5	C843289 ○		C843302 ○	
90	22	13	13	21	8	6.2	M8	1.25	6.8	C843290 ○		C843304 ○	
100	24	15	16	22	10	8	M10	1.5	8.5	C843291 ○		C843305 ○	
110	29		18		9	7	M12	1.75	10.2		C843292 ○		C843306 ○
110	30		20		11	9	M14	2	12		C843293 ○		C843307 ○
110	32		20		12	9	M16	2	14		C843294 ○		C843308 ○
125	34		22		14	11	M18	2.5	15.5		C843295 ○		C843309 ○
140	34		25		16	12	M20	2.5	17.5		C843296 ○		C843310 ○
140	34		25		18	14.5	M22	2.5	19.5		C843298 ○		C843312 ○
160	38		28		18	14.5	M24	3	21		C843821 ○		C843852 ○

105/4,131/3 DOUBLE BLUE RING

G12 Cr-Ni stainless steels austenitic, G11 Cr stainless steels ferritic and martensitic, G07 nitriding steels, G09 heat resisting steels, G31 alloy of nickel, G10 Cr stainless steels sulphured, G01, G02 structural steels, G03, G04 case hardening steels, G06 heat treatable steels from 900N/mm²

105/4,131/3 DOUBLE BLUE RING

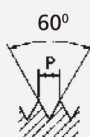
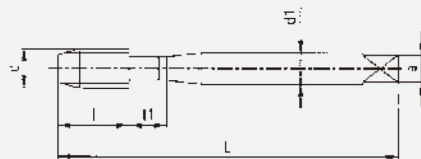
G12 Cr-Ni stainless steel, G11马氏体不锈钢, G07氮化钢, G09 耐热钢, G31镍合金, G10 Cr不锈钢, G01, G02结构钢, G03, G04表面硬化钢, G06热处理钢 >900N/mm²

M

DIN 371/376

HSSE

ISO 2 (6H)



105/4

105/4

131/3

131/3



• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371

DIN 376

DIN 371

DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3		d ₁	a	d	P		Art.	Art.	Art.	Art.
45	8		8		2.8	2.1	M2	0.4	1.6	C875000 ○		C876007 ○	
50	9		9		2.8	2.1	M2.5	0.45	2.05	C875027 ○		C876023 ○	
56	11	7	6	11	3.5	2.7	M3	0.5	2.5	C875035 ○		C876031 ○	
63	13	8	7.5	13	4.5	3.4	M4	0.7	3.3	C875043 ○		C876058 ○	
70	16	9	9	16	6	4.9	M5	0.8	4.2	C875051 ○		C876066 ○	
80	19	11	11	18	6	4.9	M6	1	5	C875078 ○		C876074 ○	
90	22	13	13	21	8	6.2	M8	1.25	6.8	C875086 ○		C876082 ○	
100	24	15	16	22	10	8	M10	1.5	8.5	C875094 ○		C876090 ○	
110	29		18		9	7	M12	1.75	10.2		C875108 ○		C876104 ○
110	30		20		11	9	M14	2	12		C875116 ○		C876112 ○
110	32		20		12	9	M16	2	14		C875124 ○		C876120 ○
125	34		22		14	11	M18	2.5	15.5		C875132 ○		C876139 ○
140	34		25		16	12	M20	2.5	17.5		C875140 ○		C876147 ○
140	34		25		18	14.5	M22	2.5	19.5		C883895 ○		C884190 ○
160	38		28		18	14.5	M24	3	21		C883909 ○		C884204 ○

105/4 RED RING
131/3 RED RING

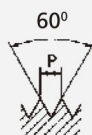
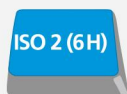
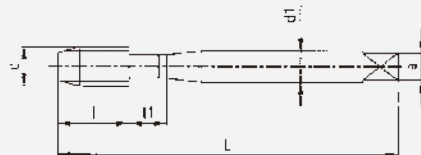
G01, G02 Structural steels, G03, G04 case hardening steels, G05, G06 heat treatable steels, G15 cast steels from 900 N/mm², G08 carbon tool steels, G34 thermoplastic compounds/synthetics

105/4 RED RING
131/3 RED RING

G01, G02结构钢, G03, G04表面硬化钢, G06热处理钢 >900N/mm², G15铸钢>900N/mm², G08碳素工具钢, G34热塑性复合材料



DIN 371/376



105/4
DOUBLE



105/4
DOUBLE



131/3
DOUBLE



131/3
DOUBLE



DIN M

• For stock /有库存

Norm /标准

Class of tolerance /公差



DIN 371



DIN 376



DIN 371



DIN 376

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2,5

C/2,5

L	105/4		131/3								Art.	Art.	Art.	Art.	
	l	l ₁	l	l ₁	d ₁	a	d	P							
45	8		8		2.8	2.1	M2	0.4	1.6						
50	9		9		2.8	2.1	M2.5	0.45	2.05						
56	11	7	3.6	11	3.5	2.7	M3	0.5	2.5	C843314	○		C843327	○	
63	13	8	4	13	4.5	3.4	M4	0.7	3.3	C843315	○		C843328	○	
70	16	9	5.7	16	6	4.9	M5	0.8	4.2	C843316	○		C843329	○	
80	19	11	7.5	18	6	4.9	M6	1	5	C843317	○		C843330	○	
90	22	13	13	21	8	6.2	M8	1.25	6.8	C843318	○		C843331	○	
100	24	15	16	22	10	8	M10	1.5	8.5	C843319	○		C843332	○	
110	29		18		9	7	M12	1.75	10.2		C843320	○		C843333	○
110	30		20		11	9	M14	2	12		C843321	○		C843334	○
110	32		20		12	9	M16	2	14		C843322	○		C843335	○
125	34		22		14	11	M18	2.5	15.5		C843323	○		C843336	○
140	34		25		16	12	M20	2.5	17.5		C843324	○		C843337	○
140	34		25		18	14.5	M22	2.5	19.5		C843325	○		C843338	○
160	38		28		18	14.5	M24	3	21		C843326	○		C843339	○

**105/4 DOUBLE RED RING
131/3 DOUBLE RED RING**

G01, G02 Structural steels, G03, G04 case hardening steels, G06 heat treatable steels, G15 cast steels from 900N/mm², G08 carbon tool steels

**105/4 DOUBLE RED RING
131/3 DOUBLE RED RING**

G01, G02结构钢, G03, G04表面硬化钢, G06热处理钢 >900N/mm², G15铸钢>900N/mm², G08碳素工具钢



一支丝锥,能够加工多种材料!

这就是Grewin&Cowee新系列丝锥产品

U⁺ 系列丝锥

One tap to machine a multitude of materials
This is the new tap series of Grewin&Cowee
U⁺ -Tap

优势：

- 高效率加工
- 适用于多种材料加工
- 降低客户采购成本，方便客户刀具管理

Advantages:

- High efficiency machining
- Suitable for use in a multitude of materials
- Reduces storage costs and facilitates tool management

产品特点:

- 改良的螺旋角，实现更好的排屑
- Grewin&Cowee特殊涂层，具有更高的耐磨性和隔热性

Features:

- Larger spiral angle for better chip flow.
- Grewin&Cowee coating with higher wear and heat resistance

规格 standard	PM				标准	
	精度 Class of tolerance	$\mathcal{U}^+$ -JP-POT	精度 Class of tolerance	$\mathcal{U}^+$ -JP-SFT		
M2x0.4	CH1.5	JC43215 •	CH1.5	JC43262 •	JIS	
M2.5x0.45	CH2	JC43216 •	CH2	JC43263 •	JIS	
M3x0.5	CH3	JC43217 •	CH2	JC43239 •	JIS	
M4x0.7	CH3	JC43218 •	CH3	JC43240 •	JIS	
M5x0.8	CH3	JC43219 •	CH3	JC43241 •	JIS	
M6x1	CH3	JC43220 •	CH3	JC43242 •	JIS	
M8x1.25	CH3	JC43229 •	CH3	JC43237 •	JIS	
M10x1.5	CH4	JC43230 •	CH3	JC43238 •	JIS	
M12x1.75	CH4	JC43232 •	CH4	JC43245 •	JIS	
M14x2	CH4	JC43233 •	CH4	JC43246 •	JIS	
M16x2	CH4	JC43234 •	CH4	JC43247 •	JIS	

● 标准库存品 ● Standard stock item

○ 非标准库存品,直径<12mm,最小起订量200支;直径≥12mm,最小起订量100支

○ Non-standard stock item,Diameter<12 mm minimum order quantity is 200 pcs ;Diameter≥12 minimum order quantity is 100 pcs

Chart for taps with hard material coating / 涂层丝锥参数

	Material / 材料	Vc mm	Number of revolutions per minute for metrical ISO threads / 每分钟转数 (公制ISO螺纹)										
			1	1.1	1.2	1.4	1.6	1.8	2	2.2	2.5	3	3.5
G01	Structural steels <1000N/mm ² 结构钢<1000 N/mm ²	22	7003	6366	5836	5002	4377	3890	3501	3183	2801	2334	2001
G02	Structural steels >900N/mm ² 结构钢>900N/mm ²	12	3820	3472	3183	2728	2387	2122	1910	1736	1528	1273	1091
G03	Case hardening steels <1000 N/mm ² 表面硬化钢 < 1000 N/mm ²	20	6366	5787	5305	4547	3979	3537	3183	2894	2546	2122	1819
G04	Case hardening steels > 900 N/mm ² 表面硬化钢>900 N/mm ²	10	3183	2894	2653	2274	1989	1768	1592	1447	1273	1061	909
G05	Heat treatable steels <1000 N/mm ² 热处理钢<1000 N/mm ²	14	4456	4051	3714	3183	2785	2476	2228	2026	1783	1485	1273
G06	Heat treatable steels >900 N/mm ² 热处理钢>900 N/mm ²	8	2546	2315	2122	1819	1592	1415	1273	1157	1019	849	728
G07	Nitriding steels 氮化钢	8	2546	2315	2122	1819	1592	1415	1273	1157	1019	849	728
G08	Carbon tool steels 碳素工具钢	9	2865	2604	2387	2046	1790	1592	1432	1302	1146	955	819
G09	Heat resisting steels 耐热钢	7	2228	2026	1857	1592	1393	1238	1114	1013	891	743	637
G10	Cr stainless steels, sulphured Cr不锈钢	10	3183	2894	2653	2274	1989	1768	1592	1447	1273	1061	909
G11	Cr stainless steels, ferritic and martensitic 马氏体不锈钢	10	3183	2894	2653	2274	1989	1768	1592	1447	1273	1061	909
G12	Cr-Ni stainless steels, austenitic Cr-Ni不锈钢	8	2546	2315	2122	1819	1592	1415	1273	1157	1019	849	728
G13	Free-cutting steels 易切钢	24	7639	6945	6366	5457	4775	4244	3820	3472	3056	2546	2183
G14	Cast steels <1000 N/mm ² 铸钢<1000 N/mm ²	16	5093	4630	4244	3638	3183	2829	2546	2315	2037	1698	1455
G15	Cast steels >900 N/mm ² 铸钢>900 N/mm ²	8	2546	2315	2122	1819	1592	1415	1273	1157	1019	849	728
G16	Malleable cast iron 可锻铸铁 iron	16	5093	4630	4244	3638	3183	2829	2546	2315	2037	1698	1455
G17	Nodular graphite cast iron 结节性石墨铸铁 (球墨铸铁)	16	5093	4630	4244	3638	3183	2829	2546	2315	2037	1698	1455
G18	Lamellar graphite cast iron (grey cast iron) 片状石墨铸铁 (灰铸铁)	14	4456	4051	3714	3183	2785	2476	2228	2026	1783	1485	1273





	4	4.5	5	6	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48
	1751	1556	1401	1167	875	700	584	500	438	389	350	318	292	259	233	212	195	180	167	156	146
	955	849	764	637	477	382	318	273	239	212	191	174	159	141	127	116	106	98	91	85	80
	1592	1415	1273	1061	796	637	531	455	398	354	318	289	265	236	212	193	177	163	152	141	133
	796	707	637	531	398	318	265	227	199	177	159	145	133	118	106	96	88	82	76	71	66
	1114	990	891	743	557	446	371	318	279	248	223	203	186	165	149	135	124	114	106	99	93
	637	566	509	424	318	255	212	182	159	141	127	116	106	94	85	77	71	65	61	57	53
	637	566	509	424	318	255	212	182	159	141	127	116	106	94	85	77	71	65	61	57	53
	716	637	573	477	358	286	239	205	179	159	143	130	119	106	95	87	80	73	68	64	60
	557	495	446	371	279	223	186	159	139	124	111	101	93	83	74	68	62	57	53	50	46
	796	707	637	531	398	318	265	227	199	177	159	145	133	118	106	96	88	82	76	71	66
	796	707	637	531	398	318	265	227	199	177	159	145	133	118	106	96	88	82	76	71	66
	637	566	509	424	318	255	212	182	159	141	127	116	106	94	85	77	71	65	61	57	53
	1910	1698	1528	1273	955	764	637	546	477	424	382	347	318	283	255	231	212	196	182	170	159
	1273	1132	1019	849	637	509	424	364	318	283	255	231	212	189	170	154	141	131	121	113	106
	637	566	509	424	318	255	212	182	159	141	127	116	106	94	85	77	71	65	61	57	53
	1273	1132	1019	849	637	509	424	364	318	283	255	231	212	189	170	154	141	131	121	113	106
	1273	1132	1019	849	637	509	424	364	318	283	255	231	212	189	170	154	141	131	121	113	106
	1114	990	891	743	557	446	371	318	279	248	223	203	186	165	149	135	124	114	106	99	93



Chart for taps with hard material coating / 涂层丝锥参数

	Material /材料	Vc mm	Number of revolutions per minute for metrical ISO threads /每分钟转数 (公制ISO螺纹)										
			1	1.1	1.2	1.4	1.6	1.8	2	2.2	2.5	3	3.5
G19	Vermicular graphite cast iron 蠕墨铸铁	16	5093	4630	4244	3638	3183	2829	2546	2315	2037	1698	1455
G20	Copper 铜	16	5093	4630	4244	3638	3183	2829	2546	2315	2037	1698	1455
G21	Hard brass (Ms 58, short chipping) 硬黄铜 (Ms58 短切屑)	35	11141	10128	9284	7958	6963	6189	5570	5064	4456	3714	3183
G22	Soft brass (MS 63, long chipping) 软黄铜 (Ms63长切屑)	33	10504	9549	8754	7503	6565	5836	5252	4775	4202	3501	3001
G23	Red brass 红铜	18	5730	5209	4775	4093	3581	3183	2865	2604	2292	1910	1637
G24	Phosphor bronze 磷青铜	21	6685	6077	5570	4775	4178	3714	3342	3038	2674	2228	1910
G25	Wrought alloy of aluminium 锻造铝合金	24	7639	6945	6366	5457	4775	4244	3820	3472	3056	2546	2183
G26	Aluminium cast alloy Si 0.5% – 5% 铸造铝合金 Si 0.5 – 5 %	26	8276	7524	6897	5911	5173	4598	4138	3762	3310	2759	2365
G27	Aluminium cast alloy Si 5% – 10% 铸造铝合金 Si 5 – 10 %	26	8276	7524	6897	5911	5173	4598	4138	3762	3310	2759	2365
G28	Aluminium cast alloy Si >10 % 铸造铝合金 Si >10 %	26	8276	7524	6897	5911	5173	4598	4138	3762	3310	2759	2365
G29	Wrought alloy of magnesium 锻造镁合金	24	7639	6945	6366	5457	4775	4244	3820	3472	3056	2546	2183
G30	Cast alloy of magnesium 铸造镁合金	26	8276	7524	6897	5911	5173	4598	4138	3762	3310	2759	2365
G31	Alloy of nickel 镍合金	6	1910	1736	1592	1364	1194	1061	955	868	764	637	546
G32	Titanium and alloy of titanium 钛、钛合金	6	1910	1736	1592	1364	1194	1061	955	868	764	637	546
G33	Ferro-Tic 钢结硬质合金	6	1910	1736	1592	1364	1194	1061	955	868	764	637	546
G34	Thermoplastic compounds/synthetics 热塑性复合材料 / 合成纤维	20	6366	5787	5305	4547	3979	3537	3183	2894	2546	2122	1819
G35	High strength structural steels fine grained 高强度细晶粒结构钢	10	3183	2894	2653	2274	1989	1768	1592	1447	1273	1061	909





4	4,5	5	6	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48
1273	1132	1019	849	637	509	424	364	318	283	255	231	212	189	170	154	141	131	121	113	106
1273	1132	1019	849	637	509	424	364	318	283	255	231	212	189	170	154	141	131	121	113	106
2785	2476	2228	1857	1393	1114	928	796	696	619	557	506	464	413	371	338	309	286	265	248	232
2626	2334	2101	1751	1313	1050	875	750	657	584	525	477	438	389	350	318	292	269	250	233	219
1432	1273	1146	955	716	573	477	409	358	318	286	260	239	212	191	174	159	147	136	127	119
1671	1485	1337	1114	836	668	557	477	418	371	334	304	279	248	223	203	186	171	159	149	139
1910	1698	1528	1273	955	764	637	546	477	424	382	347	318	283	255	231	212	196	182	170	159
2069	1839	1655	1379	1035	828	690	591	517	460	414	376	345	307	276	251	230	212	197	184	172
2069	1839	1655	1379	1035	828	690	591	517	460	414	376	345	307	276	251	230	212	197	184	172
2069	1839	1655	1379	1035	828	690	591	517	460	414	376	345	307	276	251	230	212	197	184	172
1910	1698	1528	1273	955	764	637	546	477	424	382	347	318	283	255	231	212	196	182	170	159
2069	1839	1655	1379	1035	828	690	591	517	460	414	376	345	307	276	251	230	212	197	184	172
477	424	382	318	239	191	159	136	119	106	95	87	80	71	64	58	53	49	45	42	40
477	424	382	318	239	191	159	136	119	106	95	87	80	71	64	58	53	49	45	42	40
477	424	382	318	239	191	159	136	119	106	95	87	80	71	64	58	53	49	45	42	40
1592	1415	1273	1061	796	637	531	455	398	354	318	289	265	236	212	193	177	163	152	141	133
796	707	637	531	398	318	265	227	199	177	159	145	133	118	106	96	88	82	76	71	66



Centuries of
Legendary
百年品质

Global Leverage
全球实践

Heritage And
More
传承如一



To Be Your Trustworthy Supplier

Zhuzhou Grewin Tungsten Carbide Tools Co.,Ltd

Address: No. 102, 202, Plant 14, Zhongnan highTech Zhuzhou Zhichuang Plaza, No. 1, Jinma Road,
Songshan Road Street, Tianyuan District, Zhuzhou City, Hunan Province, china.

Mobile phone/Whatsapp/Wechat : +86-18673327292

email: info@gwcarbide.com lydia@gwcarbide.com

website: www.gwcarbide.com www.coweecarbide.com

