


















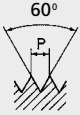
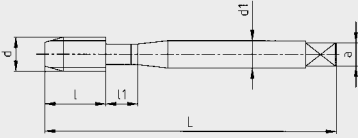
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MF



# DIN 374



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



105/4



DIN 374

ISO 2 (6H)

B/4

131/3



DIN 374

ISO 2 (6H)

C/2.5

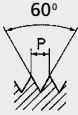
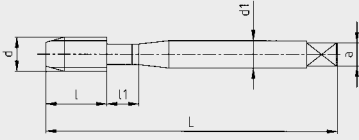
L	105/4 l	131/3 l	d <sub>1</sub>	a	d	P	
63	10	7.5	2.8	2.1	<b>MF 4</b>	<b>0.5</b>	3.5
70	12	7.5	3.5	2.7	<b>MF 5</b>	<b>0.5</b>	4.5
80	14	8	4.5	3.4	<b>MF 6</b>	<b>0.5</b>	5.5
80	14	8	4.5	3.4	<b>MF 6</b>	<b>0.75</b>	5.25
80	17	10	6	4.9	<b>MF 8</b>	<b>0.5</b>	7.5
80	18	10	6	4.9	<b>MF 8</b>	<b>0.75</b>	7.25
90	22	10	6	4.9	<b>MF 8</b>	<b>1</b>	7
90	17	12	7	5.5	<b>MF 10</b>	<b>0.5</b>	9.5
90	20	12	7	5.5	<b>MF 10</b>	<b>0.75</b>	9.25
90	20	12	7	5.5	<b>MF 10</b>	<b>1</b>	9
100	24	14	7	5.5	<b>MF 10</b>	<b>1.25</b>	8.8
100	22	14	9	7	<b>MF 12</b>	<b>1</b>	11
100	22	14	9	7	<b>MF 12</b>	<b>1.25</b>	10.8
100	22	14	9	7	<b>MF 12</b>	<b>1.5</b>	10.5
100	22	16	11	9	<b>MF 14</b>	<b>1</b>	13
100	22	20	11	9	<b>MF 14</b>	<b>1.5</b>	12.5
100	22	16	12	9	<b>MF 16</b>	<b>1</b>	15
100	22	20	12	9	<b>MF 16</b>	<b>1.5</b>	14.5
110	25	18	14	11	<b>MF 18</b>	<b>1</b>	17
110	25	25	14	11	<b>MF 18</b>	<b>1.5</b>	16.5
125	34	25	14	11	<b>MF 18</b>	<b>2</b>	16
125	25	25	16	12	<b>MF 20</b>	<b>1.5</b>	18.5
125	25	17	18	14.5	<b>MF 22</b>	<b>1.5</b>	20.5
140	25	20	18	14.5	<b>MF 24</b>	<b>1.5</b>	22.5
140	28	20	18	14.5	<b>MF 24</b>	<b>2</b>	22
140	28	20	18	14.5	<b>MF 25</b>	<b>1.5</b>	23.5
140	28	20	18	14.5	<b>MF 26</b>	<b>1.5</b>	24.5
140	28	22	20	16	<b>MF 27</b>	<b>1.5</b>	25.5
140	28	22	20	16	<b>MF 27</b>	<b>2</b>	25

Art.	Stock	Art.	Stock
64170	●	65600	●
64171	●	65601	●
64173	●	65603	●
64174	●	65604	●
64175	●	65605	●
64176	●	65606	●
64177	●	65607	●
64178	○	65608	○
64179	●	65609	●
64180	●	65610	●
64181	●	65611	●
64183	●	65613	●
64184	●	65614	●
64185	●	65615	●
64186	○	65616	○
64187	●	65617	●
64188	●	65618	●
64190	●	65620	●
64191	●	65621	●
64192	●	65622	●
64193	○	65623	○
64195	●	65625	●
64198	●	65627	●
64200	●	65628	●
64201	●	65629	●
64202	●	65630	●
64204	●	65631	●
64205	●	65632	●
64206	○	65633	○





# DIN 374



105/4



DIN 374  
ISO 2 (6H)  
B/4

131/3



DIN 374  
ISO 2 (6H)  
C/2.5

Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



L	105/4 l	131/3 l	d1	a	d	P	
150	28	22	22	18	<b>MF 30</b>	<b>1.5</b>	28.5
150	28	22	22	18	<b>MF 30</b>	<b>2</b>	28
150	28	22	22	18	<b>MF 32</b>	<b>1.5</b>	30.5
150	28	22	22	18	<b>MF 32</b>	<b>2</b>	30
160	30	22	25	20	<b>MF 33</b>	<b>2</b>	31
170	30	25	28	22	<b>MF 35</b>	<b>1.5</b>	33.5
170	30	25	28	22	<b>MF 36</b>	<b>1.5</b>	34.5

Art.	Stock	Art.	Stock
64209	○	65635	○
64210	○	65636	○
64211	○	65637	○
64212	△		
64214	△	65638	△
64216	△	65639	△
64217	○	65640	○

**D**

**105/4 Gelbring**  
**131/3 Gelbring**

**Speziell geeignet für G20** Kupfer, **G21** Hartmessing (Ms 58, kurzspanend), **G22** Weichmessing (Ms 63, langspanend), **G23** Rotguss, **G24** Guss-Zinnbronze, **G25** Aluminium-Knetlegierungen, **G29** Magnesium-Knetlegierungen, **G34** Thermoplaste Kunststoffe

**F**

**105/4 Anneau jaune**  
**131/3 Anneau jaune**

**Spécialement conçu pour G20** cuivre, **G21** laiton dur (Ms 58, copeaux courts), **G22** laiton tendre (Ms 63, copeaux longs), **G23** laiton rouge, **G24** bronze au zinc, **G25** alliages corroyés d'aluminium, **G29** alliages corroyés de magnésium, **G34** matières thermoplastiques

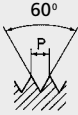
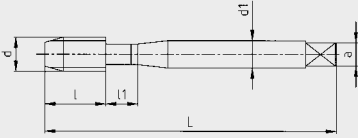
**E**

**105/4 Yellow ring**  
**131/3 Yellow ring**

**Specific suitable for G20** copper, **G21** hard brass (Ms 58, short chipping), **G22** soft brass (Ms 63, long chipping), **G23** red brass, **G24** phosphor bronze, **G25** wrought alloy of aluminium, **G29** wrought alloy of magnesium, **G34** thermoplastic compounds/synthetics



# DIN 374



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



105/4



DIN 374

ISO 2 (6H)

B/4

131/3



DIN 374

ISO 2 (6H)

C/2.5

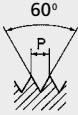
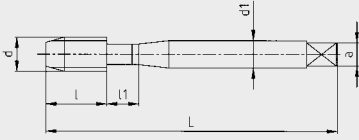
L	105/4 l	131/3 l	d <sub>1</sub>	a	d	P	
63	10	7.5	2.8	2.1	<b>MF 4</b>	<b>0.5</b>	3.5
70	12	7.5	3.5	2.7	<b>MF 5</b>	<b>0.5</b>	4.5
80	14	8	4.5	3.4	<b>MF 6</b>	<b>0.5</b>	5.5
80	14	8	4.5	3.4	<b>MF 6</b>	<b>0.75</b>	5.25
80	17	10	6	4.9	<b>MF 8</b>	<b>0.5</b>	7.5
80	18	10	6	4.9	<b>MF 8</b>	<b>0.75</b>	7.25
90	22	10	6	4.9	<b>MF 8</b>	<b>1</b>	7
90	17	12	7	5.5	<b>MF 10</b>	<b>0.5</b>	9.5
90	20	12	7	5.5	<b>MF 10</b>	<b>0.75</b>	9.25
90	20	12	7	5.5	<b>MF 10</b>	<b>1</b>	9
90	24	14	7	5.5	<b>MF 10</b>	<b>1.25</b>	8.8
100	22	14	9	7	<b>MF 12</b>	<b>1</b>	11
100	22	14	9	7	<b>MF 12</b>	<b>1.25</b>	10.8
100	22	14	9	7	<b>MF 12</b>	<b>1.5</b>	10.5
100	22	16	11	9	<b>MF 14</b>	<b>1</b>	13
100	22	20	11	9	<b>MF 14</b>	<b>1.5</b>	12.5
100	22	16	12	9	<b>MF 16</b>	<b>1</b>	15
100	22	20	12	9	<b>MF 16</b>	<b>1.5</b>	14.5
110	25	18	14	11	<b>MF 18</b>	<b>1</b>	17
110	25	25	14	11	<b>MF 18</b>	<b>1.5</b>	16.5
110	34	25	14	11	<b>MF 18</b>	<b>2</b>	16
125	25	25	16	12	<b>MF 20</b>	<b>1.5</b>	18.5
125	25	17	18	14.5	<b>MF 22</b>	<b>1.5</b>	20.5
140	25	20	18	14.5	<b>MF 24</b>	<b>1.5</b>	22.5
140	28	20	18	14.5	<b>MF 24</b>	<b>2</b>	22
140	28	20	18	14.5	<b>MF 25</b>	<b>1.5</b>	23.5
140	28	18	18	14.5	<b>MF 26</b>	<b>1.5</b>	24.5

Art.	Stock	Art.	Stock
66300	●	66600	●
66301	●	66601	●
66302	●	66603	●
66303	●	66604	●
66304	●	66605	●
66305	●	66606	●
66306	●	66607	●
66307	○	66608	○
66308	●	66609	●
66309	●	66610	●
66310	●	66611	●
66311	●	66613	●
66312	●	66614	●
66313	●	66615	●
66314	○	66616	○
66315	●	66617	●
66316	●	66618	●
66318	●	66620	●
66319	●	66621	●
66320	●	66622	●
66321	○	66623	○
66323	●	66625	●
66324	●	66626	●
66325	●	66627	●
66326	●	66628	●
66327	●	66629	●
66328	●		





# DIN 374



105/4



DIN 374

ISO 2 (6H)

B/4

Art.	Stock
66329	○
66330	○
66331	○

131/3



DIN 374

ISO 2 (6H)

C/2.5

Art.	Stock
66630	○
66631	○
66632	○

Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



L	105/4 l	131/3 l	d1	a	d	P	
150	28	22	22	18	<b>MF 30</b>	<b>1.5</b>	28.5
150	28	22	22	18	<b>MF 30</b>	<b>2</b>	28
150	28	22	22	18	<b>MF 32</b>	<b>1.5</b>	30.5



### D

#### 105/4 Schwarzring

#### 131/3 Schwarzring

Speziell geeignet für **G01** Baustähle < 1000 N/mm<sup>2</sup>, **G03** Einsatzstähle < 1000 N/mm<sup>2</sup>, **G08** Werkzeugstähle, **G10** Rostfreie Cr-Stähle, geschwefelt, **G13** Automatenstähle, **G14** Stahlguss < 1000 N/mm<sup>2</sup>

### F

#### 105/4 Anneau noir

#### 131/3 Anneau noir

Spécialement conçu pour **G01** aciers de construction < 1000 N/mm<sup>2</sup>, **G03** aciers de cémentation < 1000 N/mm<sup>2</sup>, **G08** aciers à outils, **G10** aciers inoxydables Cr, sulfuré, **G13** aciers de décolletage, **G14** aciers moulés < 1000 N/mm<sup>2</sup>

### E

#### 105/4 Black ring

#### 131/3 Black ring

Specific suitable for **G01** structural steels < 1000 N/mm<sup>2</sup>, **G03** case hardening steels < 1000 N/mm<sup>2</sup>, **G08** carbon tool steels, **G10** Cr stainless steels, sulphured, **G13** free-cutting steels, **G14** cast steels < 1000 N/mm<sup>2</sup>



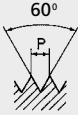
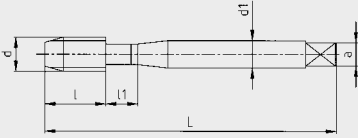
# FLOYD

GET IN TOUCH 01462 491919

verkauf@manigley.ch · www.manigley.ch



# DIN 371/374



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



L	105/4		131/3		d <sub>1</sub>	a	d	P	⊘
	l	l <sub>1</sub>	l	l <sub>1</sub>					
63	10	8	7.5	13	4.5	3.4	<b>MF 4</b>	<b>0.50</b>	3.5
70	12	11	7.5	16	6	4.9	<b>MF 5</b>	<b>0.50</b>	4.5
80	14	11	8	18	6	4.9	<b>MF 6</b>	<b>0.75</b>	5.25
80	18	13	10	21	8	6.2	<b>MF 8</b>	<b>0.75</b>	7.25
90	22	13	10	21	8	6.2	<b>MF 8</b>	<b>1.00</b>	7
90	20	15	12	22	10	8	<b>MF 10</b>	<b>0.75</b>	9.25
90	20	15	12	22	10	8	<b>MF 10</b>	<b>1.00</b>	9
100	24	15	14		10	8	<b>MF 10</b>	<b>1.25</b>	8.8
100	22		14		9	7	<b>MF 12</b>	<b>1.00</b>	11
100	22		14		9	7	<b>MF 12</b>	<b>1.25</b>	10.8
100	22		14		9	7	<b>MF 12</b>	<b>1.50</b>	10.5
100	22		16		11	9	<b>MF 14</b>	<b>1.00</b>	13
100	22		20		11	9	<b>MF 14</b>	<b>1.50</b>	12.5
100	22		16		12	9	<b>MF 16</b>	<b>1.00</b>	15
100	22		20		12	9	<b>MF 16</b>	<b>1.50</b>	14.5
110	22		18		14	11	<b>MF 18</b>	<b>1.00</b>	17
110	25		25		14	11	<b>MF 18</b>	<b>1.50</b>	16.5
125	25		18		16	12	<b>MF 20</b>	<b>1.00</b>	19
125	25		25		16	12	<b>MF 20</b>	<b>1.50</b>	18.5
125			17		18	14.5	<b>MF 22</b>	<b>1.50</b>	20.5
140			20		18	14.5	<b>MF 24</b>	<b>1.50</b>	22.5

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105/4

131/3

131/3



DIN 371

DIN 374

DIN 371

DIN 374

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

B/4

B/4

C/2.5

C/2.5

Art.	Stock	Art.	Stock	Art.	Stock	Art.	Stock
11871	●			84883	●		
11872	●			84891	●		
11873	●			84905	●		
11874	●			84913	●		
11875	●			84921	●		
11876	●			84948	●		
12350	●			12352	●		
		11877	●			84956	●
		11879	●			84964	●
		11880	●			84972	●
		11881	○			84980	○
		11882	●			84999	●
		11883	●			85006	●
		11884	●			85014	●
		11885	△			85022	△
		11887	●			85030	●
		11888	△			84778	△
		11889	●			84786	●
						84787	△
						84788	●

**D**

**105/4 Blauring**

**131/3 Blauring**

**Speziell geeignet für G07** Nitrierstähle, **G09** Hitzebeständige Stähle, **G11** Rostfreie Cr-Stähle, ferritisch und martensitisch, **G12** Rostfreie Cr-Ni Stähle, austenitisch, **G31** Nickellegierungen, **G32** Titan und Titanlegierungen

**F**

**105/4 Anneau bleu**

**131/3 Anneau bleu**

**Spécialement conçu pour G07** aciers pour nitruration, **G09** aciers réfractaires, **G11** aciers inoxydables Cr, ferritique et martensitique, **G12** aciers inoxydables Cr-Ni, austénitique, **G31** alliages de nickel, **G32** titane et alliages de titane

**E**

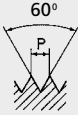
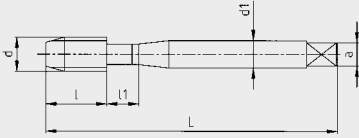
**105/4 Blue ring**

**131/3 Blue ring**

**Specific suitable for G07** nitriding steels, **G09** heat resisting steels, **G11** Cr stainless steels, ferritic and martensitic, **G12** Cr-Ni stainless steels, austenitic, **G31** alloy of nickel, **G32** titanium and alloy of titanium



# DIN 371/374



Norm / Norme / Norm  
Toleranzklasse / Classe de tolérance / Class of tolerance



L	105/4		131/3		d <sub>1</sub>	a	d	P	
	l	l <sub>1</sub>	l	l <sub>1</sub>					
63	10	8	7.5	13	4.5	3.4	<b>MF 4</b>	<b>0.50</b>	3.5
70	12	11	7.5	16	6	4.9	<b>MF 5</b>	<b>0.50</b>	4.5
80	14	11	8	18	6	4.9	<b>MF 6</b>	<b>0.75</b>	5.25
80	18	13	10	21	8	6.2	<b>MF 8</b>	<b>0.75</b>	7.25
90	22	13	10	21	8	6.2	<b>MF 8</b>	<b>1.00</b>	7
90	20	15	12	22	10	8	<b>MF 10</b>	<b>0.75</b>	9.25
90	20	15	12	22	10	8	<b>MF 10</b>	<b>1.00</b>	9
100	22		14		9	7	<b>MF 12</b>	<b>1.00</b>	11
100	22		14		9	7	<b>MF 12</b>	<b>1.25</b>	10.8
100	22		14		9	7	<b>MF 12</b>	<b>1.50</b>	10.5
100	22		16		11	9	<b>MF 14</b>	<b>1.00</b>	13
100	22		20		11	9	<b>MF 14</b>	<b>1.50</b>	12.5
100	22		16		12	9	<b>MF 16</b>	<b>1.00</b>	15
100	22		20		12	9	<b>MF 16</b>	<b>1.50</b>	14.5
110	22		18		14	11	<b>MF 18</b>	<b>1.00</b>	17
110	25		25		14	11	<b>MF 18</b>	<b>1.50</b>	16.5
125	25		18		16	12	<b>MF 20</b>	<b>1.00</b>	19
125	25		25		16	12	<b>MF 20</b>	<b>1.50</b>	18.5

105/4		105/4		131/3		131/3	
DIN 371 ISO 2 (6H)		DIN 374 ISO 2 (6H)		DIN 371 ISO 2 (6H)		DIN 374 ISO 2 (6H)	
B/4		B/4		C/2.5		C/2.5	
Art.	Stock	Art.	Stock	Art.	Stock	Art.	Stock
85065	●			87610	●		
85073	●			87629	●		
85081	●			87637	●		
85103	●			87645	●		
85111	●			87653	●		
85138	●			87661	●		
85146	●			87688	●		
		85154	○			87696	○
		85162	○			87718	○
		85170	●			87726	●
		85189	△			87734	△
		85197	●			87742	●
		85200	△			87750	△
		85219	●			87769	●
		85227	△			87777	△
		85235	●			87785	●
		85243	△			87793	△
		85251	●			87807	●



### D

#### 105/4 Rotring 131/3 Rotring

Speziell geeignet für G02 Baustähle > 900 N/mm<sup>2</sup>, G04 Einsatzstähle > 900 N/mm<sup>2</sup>, G05 Vergütungsstähle < 1000 N/mm<sup>2</sup>, G06 Vergütungsstähle > 900 N/mm<sup>2</sup>, G15 Stahlguss > 900 N/mm<sup>2</sup>, G35 HoStockeste Feinkornbaustähle

### F

#### 105/4 Anneau rouge 131/3 Anneau rouge

Spécialement conçu pour G02 aciers de construction > 900 N/mm<sup>2</sup>, G04 aciers de cimentation > 900 N/mm<sup>2</sup>, G05 aciers d'amélioration < 1000 N/mm<sup>2</sup>, G06 aciers d'amélioration > 900 N/mm<sup>2</sup>, G15 aciers moulés > 900 N/mm<sup>2</sup>, G35 Aciers de construction à haute résistance et à grains fins

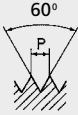
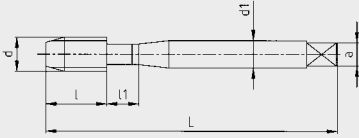
### E

#### 105/4 Red ring 131/3 Red ring

Specific suitable for G02 structural steels > 900 N/mm<sup>2</sup>, G04 case hardening steels > 900 N/mm<sup>2</sup>, G05 heat treatable steels < 1000 N/mm<sup>2</sup>, G06 heat treatable steels > 900 N/mm<sup>2</sup>, G15 cast steels > 900 N/mm<sup>2</sup>, G35 High strength structural steels fine grained



# DIN 374



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



L	l	d <sub>1</sub>	a	d	P	
63	10	2.8	2.1	<b>MF 4</b>	<b>0.5</b>	3.5
70	12	3.5	2.7	<b>MF 5</b>	<b>0.5</b>	4.5
80	14	4.5	3.4	<b>MF 6</b>	<b>0.75</b>	5.25
80	18	6	4.9	<b>MF 8</b>	<b>0.75</b>	7.25
90	22	6	4.9	<b>MF 8</b>	<b>1</b>	7
90	20	7	5.5	<b>MF 10</b>	<b>1</b>	9
100	22	9	7	<b>MF 12</b>	<b>1</b>	11
100	22	9	7	<b>MF 12</b>	<b>1.5</b>	10.5
100	22	11	9	<b>MF 14</b>	<b>1.5</b>	12.5
100	22	12	9	<b>MF 16</b>	<b>1.5</b>	14.5
110	25	14	11	<b>MF 18</b>	<b>1.5</b>	16.5
125	25	16	12	<b>MF 20</b>	<b>1.5</b>	18.5

105/3



DIN 374

ISO 2 (6H)

C/2.5

Art.	Stock
66700	●
66701	●
66702	●
66703	○
66704	●
66705	●
66706	○
66707	●
66708	●
66709	●
66710	○
66711	●

## D

### 105/3 Grünring

**Speziell geeignet für G16** Temperguss,  
**G17** Gusseisen mit Kugelgraphit (Sphäroguss),  
**G18** Gusseisen mit Lamellengraphit (Grauguss),  
**G19** Gusseisen mit Vermikulargraphit,  
**G26** Aluminium-Gusslegierungen Si 0.5%–5%,  
**G27** Aluminium-Gusslegierungen Si 5%–10%,  
**G28** Aluminium-Gusslegierungen Si > 10%,  
**G30** Magnesium-Gusslegierungen, **G33** Ferro-Tic

## F

### 105/3 Anneau vert

**Spécialement conçu pour G16** fonte malléable,  
**G17** fonte à graphite sphéroïdal, **G18** fonte à graphite lamellaire (fonte grise), **G19** fonte à graphite vermiculaire, **G26** alliages de fonte d'aluminium Si 0.5%–5%, **G27** alliages de fonte d'aluminium Si 5%–10%, **G28** alliages de fonte d'aluminium Si > 10%, **G30** alliages de fonte de magnésium, **G33** ferro-Tic

## E

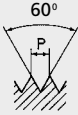
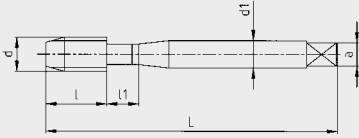
### 105/3 Green ring

**Specific suitable for G16** malleable cast iron, **G17** nodular graphite cast iron, **G18** lamellar graphite cast iron (grey cast iron), **G19** vermicular graphite cast iron, **G26** aluminium cast alloy Si 0.5%–5%, **G27** aluminium cast alloy Si 5%–10%, **G28** aluminium cast alloy Si > 10%, **G30** cast alloy of magnesium, **G33** ferro-Tic





# DIN 2181



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



101/1 Ultra  
HSS-E

101/3 Ultra  
HSS-E

101/S Ultra HSS-E  
Satz / jeu / set



DIN 13  
ISO 2 (6H)

DIN 13  
ISO 2 (6H)

DIN 13  
ISO 2 (6H)

A/5

C/2

Stück/pce/piece

Satz/jeu/set

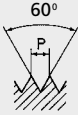
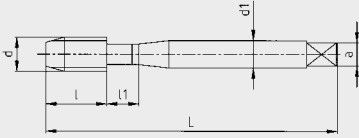
L	l	li	d1	a	d	P	
40	9		2.8	2.10	<b>MF 2.5</b>	<b>0.35</b>	2.15
40	8	10	3.5	2.70	<b>MF 3</b>	<b>0.35</b>	2.65
45	9	13	4.5	3.4	<b>MF 4</b>	<b>0.5</b>	3.5
50	11	14	6	4.9	<b>MF 5</b>	<b>0.5</b>	4.5
56	12	15	6	4.9	<b>MF 6</b>	<b>0.5</b>	5.5
56	12	15	6	4.9	<b>MF 6</b>	<b>0.75</b>	5.25
56	14		6	4.9	<b>MF 8</b>	<b>0.5</b>	7.5
56	17		6	4.9	<b>MF 8</b>	<b>0.75</b>	7.25
63	17		6	4.9	<b>MF 8</b>	<b>1</b>	7
63	18		7	5.5	<b>MF 10</b>	<b>0.75</b>	9
63	18		7	5.5	<b>MF 10</b>	<b>1</b>	8.8
70	22		7	5.5	<b>MF 10</b>	<b>1.25</b>	11
70	18		9	7	<b>MF 12</b>	<b>1</b>	10.8
70	20		9	7	<b>MF 12</b>	<b>1.25</b>	10.5
70	20		9	7	<b>MF 12</b>	<b>1.5</b>	13
70	18		11	9	<b>MF 14</b>	<b>1</b>	12.8
70	20		11	9	<b>MF 14</b>	<b>1.25</b>	12.5
70	20		11	9	<b>MF 14</b>	<b>1.5</b>	12.5

Art.	Art.	Stock	Art.	Stock
86600	86601	○	86602	○
86627	86604	●	86605	●
86832	86607	●	86608	●
86609	86610	●	86611	●
86612	86613	●	86628	●
86615	86616	●	86617	●
86618	86619	●	86620	●
86621	86629	●	86623	●
86624	86625	●	86626	●
86636	86637	●	86638	●
86639	86640	●	86641	●
86642	86643	●	86644	●
86654	86655	●	86656	●
86645	86658	●	86659	●
86660	86661	●	86662	●
86663	86664	○	86646	○
86666	86667	●	86668	●
86669	86670	●	86671	●





# DIN 2181



101/1 Ultra  
HSS-E

101/3 Ultra  
HSS-E

101/S Ultra HSS-E  
Satz / jeu / set



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



DIN 13

DIN 13

DIN 13

ISO 2 (6H)

ISO 2 (6H)

ISO 2 (6H)

A/5

C/2

Stück/pce/piece

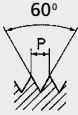
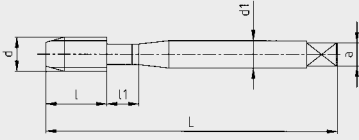
Satz/jeu/set

L	l	l <sub>1</sub>	d <sub>1</sub>	a	d	P		Stück/pce/piece			Satz/jeu/set	
								Art.	Art.	Stock	Art.	Stock
70	18		12	9	<b>MF 16</b>	<b>1</b>	15	86678	86679	○	86680	●
70	20		12	9	<b>MF 16</b>	<b>1.5</b>	14.5	86684	86682	●	86683	●
80	18		14	11	<b>MF 18</b>	<b>1.5</b>	16.5	86687	86688	●	86689	●
80	18		16	12	<b>MF 20</b>	<b>1</b>	19	86693	86694	●	86695	●
80	22		16	12	<b>MF 20</b>	<b>1.5</b>	18.5	86696	86697	●	86698	●
80	22		16	12	<b>MF 20</b>	<b>2</b>	18	86699	86700	●	86701	●
80	18		18	14.5	<b>MF 22</b>	<b>1.5</b>	20.5	86705	86706	●	86707	●
90	18		18	14.5	<b>MF 24</b>	<b>1</b>	23	86712	86713	△	86714	●
90	22		18	14.5	<b>MF 24</b>	<b>1.5</b>	22.5	86715	86716	●	86717	●
90	22		18	14.5	<b>MF 24</b>	<b>2</b>	22	86718	86719	●	86720	●
90	22		18	14.5	<b>MF 25</b>	<b>1.5</b>	23.5	86724	86725	○	86726	●
90	22		18	14.5	<b>MF 26</b>	<b>1.5</b>	24.5	86730	86731	○	86732	●
90	22		20	16	<b>MF 27</b>	<b>1.5</b>	25.5	86741	86742	○	86743	●
90	22		20	16	<b>MF 27</b>	<b>2</b>	25	86744	86745	○	86747	●
90	22		20	16	<b>MF 28</b>	<b>1.5</b>	26.5	86751	86752	○	86753	●
90	22		22	18	<b>MF 30</b>	<b>1.5</b>	28.5	86763	86764	○	86765	●





# DIN 2181



101/1 Ultra HSS-E

101/3 Ultra HSS-E

101/S Ultra HSS-E Satz / jeu / set



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



DIN 13  
ISO 2 (6H)

DIN 13  
ISO 2 (6H)

DIN 13  
ISO 2 (6H)

A/5

C/2

Stück/pce/piece

Satz/jeu/set

L	l	l <sub>1</sub>	d <sub>1</sub>	a	d	P		Art.	Art.	Stock	Art.	Stock
90	22		22	18	<b>MF 30</b>	<b>2</b>		86766	86767	○	86768	○
90	22		22	18	<b>MF 32</b>	<b>1.5</b>		86832	86833	○	86834	○
100	25		25	20	<b>MF 33</b>	<b>1.5</b>		86773	86774	△	86775	○
100	25		25	20	<b>MF 33</b>	<b>2</b>		86776	86777	○	86778	○
100	25		28	22	<b>MF 35</b>	<b>1.5</b>		86779	86780	△	86781	○
125	30		28	22	<b>MF 36</b>	<b>2</b>		86790	86791	△	86792	○
100	25		28	22	<b>MF 38</b>	<b>1.5</b>		86793	86794	△	86795	○
110	25		32	24	<b>MF 40</b>	<b>1.5</b>		86801	86802	○	86803	○
110	25		32	24	<b>MF 42</b>	<b>1.5</b>		86807	86808	○	86809	○
110	25		36	29	<b>MF 45</b>	<b>1.5</b>		86813	86814	△	86815	○
125	30		36	29	<b>MF 45</b>	<b>2</b>		86816	86817	△	86818	○
140	25		36	29	<b>MF 48</b>	<b>1.5</b>		86820	86821	△	86822	○
140	30		36	29	<b>MF 48</b>	<b>2</b>		86823	86824	△	86825	○
140	25		36	29	<b>MF 50</b>	<b>1.5</b>		86826	86827	○	86828	○
140	30		36	29	<b>MF 50</b>	<b>2</b>		86829	86830	△	86831	○

**D**

## 101/S Ultra

**Speziell geeignet für G01** Baustähle <1000 N/mm<sup>2</sup>, **G03** Einsatzstähle <1000 N/mm<sup>2</sup>, **G05** Vergütungsstähle <1000 N/mm<sup>2</sup>, **G13** Automatenstähle, **G14** Stahlguss <1000 N/mm<sup>2</sup>, **G20** Kupfer, **G22** Weichmessing (Ms 63, langspannend), **G23** Rotguss, **G24** Guss-Zinnbronze

**F**

## 101/S Ultra

**Spécialement conçu pour G01** aciers de construction <1000 N/mm<sup>2</sup>, **G03** aciers de cémentation <1000 N/mm<sup>2</sup>, **G05** aciers d'amélioration <1000 N/mm<sup>2</sup>, **G13** aciers de décolletage, **G14** aciers moulés <1000 N/mm<sup>2</sup>, **G20** cuivre, **G22** laiton tendre (Ms 63, copeaux longs), **G23** laiton rouge, **G24** bronze au zinc

**E**

## 101/S Ultra

**Specific suitable for G01** structural steels <1000 N/mm<sup>2</sup>, **G03** case hardening steels <1000 N/mm<sup>2</sup>, **G05** heat treatable steels <1000 N/mm<sup>2</sup>, **G13** free-cutting steels, **G14** cast steels <1000 N/mm<sup>2</sup>, **G20** copper, **G22** soft brass (MS 63, long chipping), **G23** red brass, **G24** phosphor bronze

MF



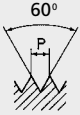
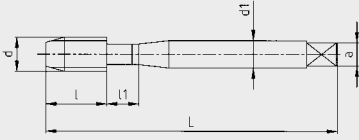
**FLOYD**

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verkauf@manigley.ch · www.manigley.ch



## DIN 374



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



105/4 Ultra  
LH HSS-E

131/3 Ultra  
LH HSS-E

105/4 Ultra  
Vap LH HSS-E

131/3 Ultra  
Vap LH HSS-E



DIN 374		DIN 374		DIN 374		DIN 374	
ISO 2 (6H)		ISO 2 (6H)		ISO 2 (6H)		ISO 2 (6H)	
B/4		B/4		C/2.5		C/2.5	
Art.	Stock	Art.	Stock	Art.	Stock	Art.	Stock
11895	●	11905	●	11918	●	11928	●
11896	●	11906	●	11919	●	11929	●
		11907	○			11930	○
11899	●	11909	●	11922	●	11931	●
11900	●	11910	●	11923	●	11933	●
11901	●	11911	●	11925	○	11934	○
		11912	○			11935	○
		11913	●			11936	○

L	105/4 l	131/3 l	d1	a	d	P	
90	22	10	6	4.9	<b>MF 8</b>	<b>1</b>	7
90	20	12	7	5.5	<b>MF 10</b>	<b>1</b>	9
100	22	14	9	7	<b>MF 12</b>	<b>1</b>	11
100	22	14	9	7	<b>MF 12</b>	<b>1.5</b>	10.5
100	22	20	11	9	<b>MF 14</b>	<b>1.5</b>	12.5
100	22	20	12	9	<b>MF 16</b>	<b>1.5</b>	14.5
110	25	22	14	11	<b>MF 18</b>	<b>1.5</b>	16.5
125	25	22	16	12	<b>MF 20</b>	<b>1.5</b>	18.5

### D

**105/4 Ultra LH**  
**131/3 Ultra LH**

**Speziell geeignet für G21** Hartmessing (Ms58, kurzspanend), **G22** Weichmessing (Ms63, langspanend), **G25** Aluminium-Knetlegierungen, **G29** Magnesium-Knetlegierungen, **G34** Thermoplaste Kunststoffe

**Geht auch für G01** Baustähle <1000 N/mm<sup>2</sup>, **G03** Einsatzstähle <1000 N/mm<sup>2</sup>, **G05** Vergütungsstähle <1000 N/mm<sup>2</sup>

**105/4 Ultra Vap LH**  
**131/3 Ultra Vap LH**

**Speziell geeignet für G01** Baustähle <1000 N/mm<sup>2</sup>, **G03** Einsatzstähle <1000 N/mm<sup>2</sup>, **G05** Vergütungsstähle <1000 N/mm<sup>2</sup>, **G08** Werkzeugstähle, **G13** Automatenstähle, **G14** Stahlguss <1000 N/mm<sup>2</sup>

### F

**105/4 Ultra LH**  
**131/3 Ultra LH**

**Spécialement conçu pour G21** laiton dur (Ms58, copeaux courts), **G22** laiton tendre (Ms63, copeaux longs), **G25** alliages corroyés d'aluminium, **G29** alliages corroyés de magnésium, **G34** matières thermoplastiques

**Conçu aussi pour G01** aciers de construction <1000 N/mm<sup>2</sup>, **G03** aciers de cémentation <1000 N/mm<sup>2</sup>, **G05** aciers d'amélioration <1000 N/mm<sup>2</sup>

**105/4 Ultra Vap LH**  
**131/3 Ultra Vap LH**

**Spécialement conçu pour G01** aciers de construction <1000 N/mm<sup>2</sup>, **G03** aciers de cémentation <1000 N/mm<sup>2</sup>, **G05** aciers d'amélioration <1000 N/mm<sup>2</sup>, **G08** aciers à outils, **G13** aciers de décolletage, **G14** aciers moulés <1000 N/mm<sup>2</sup>

### E

**105/4 Ultra LH**  
**131/3 Ultra LH**

**Specific suitable for G21** hard brass (Ms58, short chipping), **G22** soft brass (Ms63, long chipping), **G25** wrought alloy of aluminium, **G29** wrought alloy of magnesium, **G34** thermo-plastic compounds/synthetics

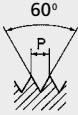
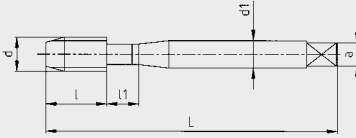
**Goes also for G01** structural steels <1000 N/mm<sup>2</sup>, **G03** case hardening steels <1000 N/mm<sup>2</sup>, **G05** heat treatable steels <1000 N/mm<sup>2</sup>

**105/4 Ultra Vap LH**  
**131/3 Ultra Vap LH**

**Specific suitable for G01** structural steels <1000 N/mm<sup>2</sup>, **G03** case hardening steels <1000 N/mm<sup>2</sup>, **G05** heat treatable steels <1000 N/mm<sup>2</sup>, **G08** carbon tool steels, **G13** free-cutting steels, **G14** cast steels <1000 N/mm<sup>2</sup>



# DIN EN 60423



Norm / Norme / Norm

Toleranzklasse / Classe de tolérance / Class of tolerance



L	l	d1	a	d	P	
90	20	6	4.9	<b>MF 8</b>	<b>1.00</b>	7
90	20	7	5.5	<b>MF 10</b>	<b>1.00</b>	9
100	22	9	7	<b>MF 12</b>	<b>1.50</b>	10.5
100	22	12	9	<b>MF 16</b>	<b>1.50</b>	14.5
125	25	16	12	<b>MF 20</b>	<b>1.50</b>	18.5
140	28	18	14.5	<b>MF 25</b>	<b>1.50</b>	23.5
150	28	22	18	<b>MF 32</b>	<b>1.50</b>	30.5
170	30	32	24	<b>MF 40</b>	<b>1.50</b>	38.5
190	32	36	29	<b>MF 50</b>	<b>1.50</b>	48.5
275	38	50	39	<b>MF 63</b>	<b>1.50</b>	61.5

## 105/3 Ultra Sub Pg HSS-E



DIN 374

ISO 3 (7H)

C/2.5

Art. Stock

84718	△
84720	△
84701	△
84702	△
84703	△
84704	△
84705	△
84706	△
84707	△
84708	△

## 105/4 Ultra Sub Pg HSS-E



DIN 374

ISO 3 (7H)

B/4

Art. Stock

84722	●
84723	●
84709	●
84710	●
84711	●
84712	●
84713	●
84714	●
84715	○
84716	○

### Richtwert / Valeur indicative / Standard value

Pg 7 = MF 12 x 1.5

Pg 16 = MF 20 x 1.5 (\*25 X 1.5)

Pg 42 = MF 50 x 1.5 (\*63 X 1.5)

\*bei maximalem Kabeldurchmesser

Pg 8 = MF 12 x 1.5 (\*16 x 1.5)

Pg 21 = MF 25 x 1.5 (\*32 X 1.5)

Pg 48 = MF 63 x 1.5

avec un diamètre de câble maximal

Pg 11 = MF 16 x 1.5

Pg 29 = MF 32 x 1.5 (\*40 X 1.5)

with the maximum diameter of cable

Pg 13.5 = MF 20 x 1.5

Pg 36 = MF 40 x 1.5 (\*50 X 1.5)

**D**

### 105/3 Ultra Sub Pg

Für langspanend max 1 x D

**Speziell geeignet für G01** Baustähle <1000 N/mm<sup>2</sup>, **G14** Stahlguss <1000 N/mm<sup>2</sup>, **G19** Gusseisen mit Vermikulargraphit, **G21** Hartmessing (Ms 58 kurzspanend),

**Geht auch für G03, G05, G13, G16, G17, G18, G25, G26, G27 und G28**

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### 105/4 Ultra Sub Pg

**Speziell geeignet für G21** Hartmessing (Ms 58, kurzspanend), **G22** Weichmessing (Ms 63, langspanend), **G25** Aluminium-Knetlegierungen, **G29** Magnesium-Knetlegierungen, **G34** Thermoplaste Kunststoffe

**Geht auch für G01** Baustähle <1000 N/mm<sup>2</sup>, **G03** Einsatzstähle <1000 N/mm<sup>2</sup>, **G05** Vergütungsstähle <1000 N/mm<sup>2</sup>

**F**

### 105/3 Ultra Sub Pg

Pour copeaux longs max 1 x D

**Spécialement conçu pour G01** aciers de construction <1000 N/mm<sup>2</sup>, **G14** aciers moulés <1000 N/mm<sup>2</sup>, **G19** fonte à graphite vermiculaire, **G21** laiton dur (Ms 58, copeaux courts)

**Conçu aussi pour G03, G05, G13, G16, G17, G18, G25, G26, G27 et G28**

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### 105/4 Ultra Sub Pg

**Spécialement conçu pour G21** laiton dur (Ms 58, copeaux courts), **G22** laiton tendre (Ms 63, copeaux longs), **G25** alliages corroyés d'aluminium, **G29** alliages corroyés de magnésium, **G34** matières thermoplastiques

**Conçu aussi pour G01** aciers de construction <1000 N/mm<sup>2</sup>, **G03** aciers de cémentation <1000 N/mm<sup>2</sup>, **G05** aciers d'amélioration <1000 N/mm<sup>2</sup>

**E**

### 105/3 Ultra Sub Pg

For long chips max 1 x D

**Specific suitable for G01** structural steels <1000 N/mm<sup>2</sup>, **G14** cast steels <1000 N/mm<sup>2</sup>, **G19** vermicular graphite cast iron, **G21** hard brass (Ms 58, short chipping)

**Goes also for G03, G05, G13, G16, G17, G18, G25, G26, G27 and G28**

See page 9

### 105/4 Ultra Sub Pg

**Specific suitable for G21** hard brass (Ms 58, short chipping), **G22** soft brass (Ms 63, long chipping), **G25** wrought alloy of aluminium, **G29** wrought alloy of magnesium, **G34** thermo-plastic compounds/synthetics

**Goes also for G01** structural steels <1000 N/mm<sup>2</sup>, **G03** case hardening steels <1000 N/mm<sup>2</sup>, **G05** heat treatable steels <1000 N/mm<sup>2</sup>



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