



FAMAG[®]
...für Besserbohrer[®]



Bormax 2.0

We produce quality tools for
a better drilling since 1865!

FAMAG®
für Besserbohrer®



With a smiling face!

We recognized that we have to know both traditional wood types as well as new materials of the market. This is the only way to know which products are needed by the market and the user. And exactly this is what it's all about: The user. This includes the craftsmen who want high quality as well as everybody with high expectations regarding a perfect drill result! People who use our tools every day and push these beyond limits, develop almost a friendship with their FAMAG tools. And we want to say 'thank you' for that.



We produce quality tools since more than 150 years in the heart of the 'Bergisches Land', in Remscheid. We produce 'Made in Germany' daily in serial - as well as in custom-made production! We want to develop traditional products the way that these fit the work expectation today. With the knowledge of 152 years we manufactured many tools which are unique. And thanks to that we're proud to say 'FAMAG for a better drilling'

With joy we're able to present the new Bormax 2.0 today.



This is a new generation of the cylindrical head drill geometry. All tools of the Bormax 2.0 family have a new centre drill with a cutting effect thanks to a twisted tip geometry. In the product lines Bormax prima the centre drills are changeable and can be changed into a pilot drill bit or pilot bit.

The new Bormax generation has new circumference cutters with fins which work like cooling fins.

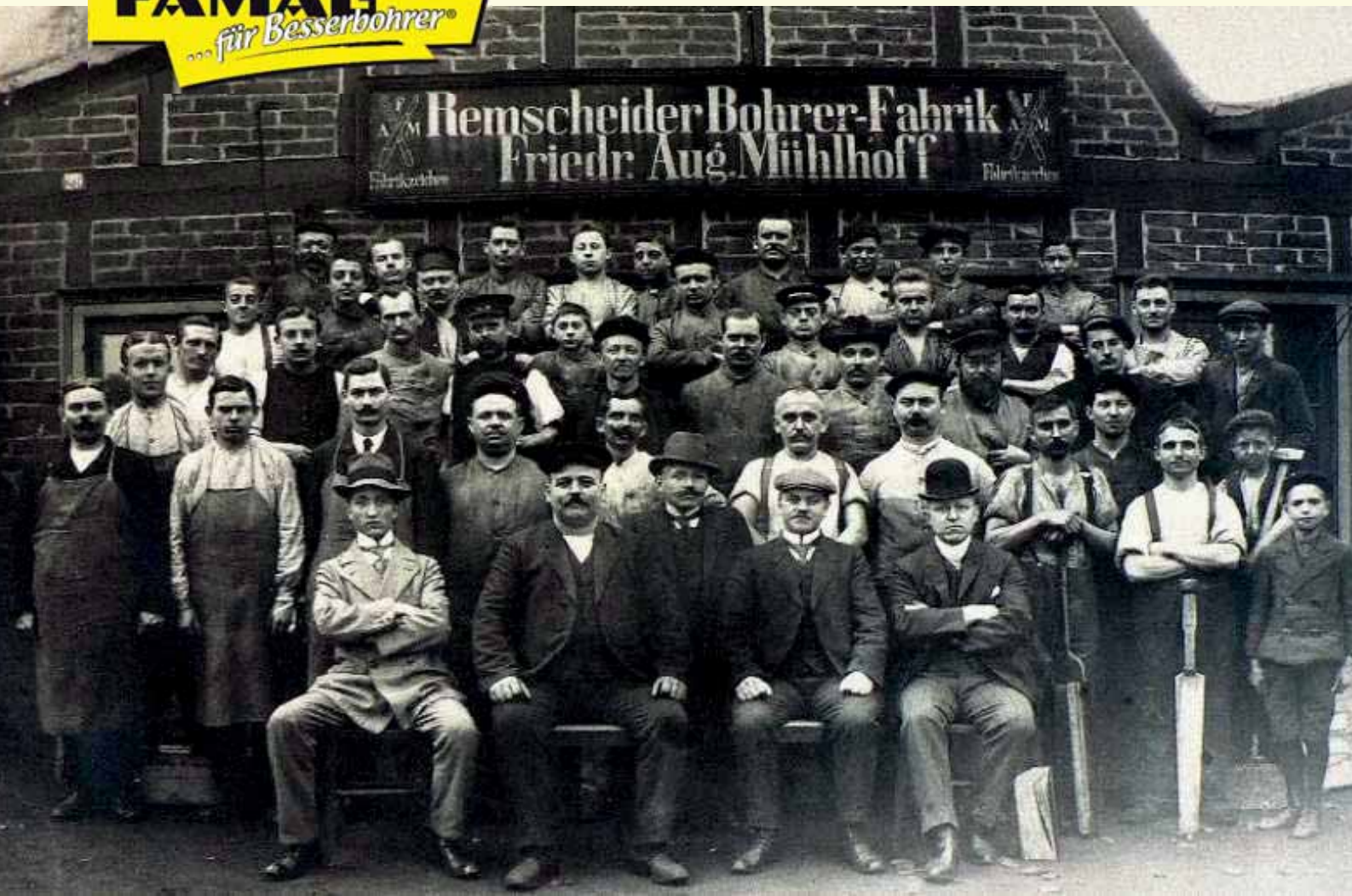


But probably the biggest novelty are the chip breaking grooves on the main cutters. The combination of these novelties provide an even easier and faster drilling with even less heat development than before! The drilling into wood becomes a drill experience! Have we set new standards with the new Bormax 2.0 again? You're deciding – now you're able to drill an 80 mm boring into hard wood with a powerful cordless screwdriver. This is new and it's more than possible that you finish your work with a smiling face...

You don't know exactly which drill to use on the various wood types? Not a problem at all. Just call us, we're glad to answer your call and assist you. Either by our sales colleagues or in difficult applications by our technical department.

Of course we're also able to confirm whether a particular tool is in stock and when your parcel is going to be delivered.

You're not a retailer? No problem. Together we'll find a great retailer close to you and provide you with all details. Of course you can also send us an Email – with answer guarantee! On our homepage you're able to use our product finder which will guide you competent to your right tool. In case you want to get our news and offers regularly, subscribe our newsletter. You can do that easily on our homepage or call us, because we want that you finish your work with a smiling...



The combination of know-how, product innovation and availability and the service of the FAMAG team are parts of our standards for ourselves.



With consciousness we want to differ ourselves from our competitors. Being a little bit better, make the difference, build a delta; being a DELTA F! F like FAMAG.

In the catalogue we marked all products which have a delta to our competitors with the new DELTA F logo. We hope you enjoy the following pages and the search for the DELTA F.

Kind regards,

Thomas Pomp & Ralf Hunke

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NEW

Bormax[®] 2.0!



Info-Blocks

Abbreviations

OØ	outer diameter
IØ	inner diameter
SØ	shank diameter
L	length of shank
OAL	overall length
MC	main cutters
EL	effective length
SL	spiral length
W	weight
T	teeth
R	radius
∠	degrees
Cutting l.	cutting length
max rpm.	Max. r.p.m.
L1	length of the 1. step
L2	length of the 2. step
D1	core diameter
lead/1"	no. Of threads
PU	packing unit



subtle distinction



The description of the tool design



Tool material



Recommended r.p.m. and specific example for the most common diameters



Description of application



Practical advice and specialty of the tool



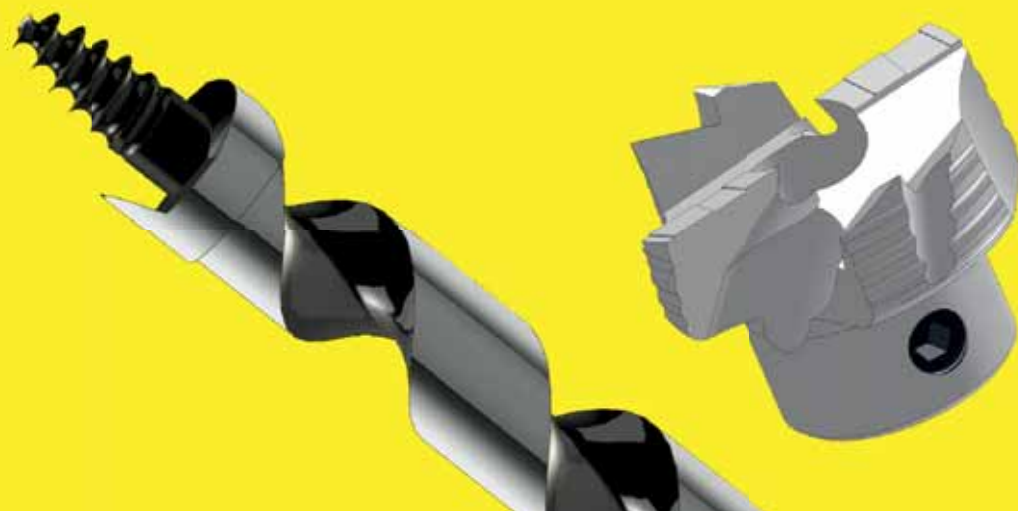
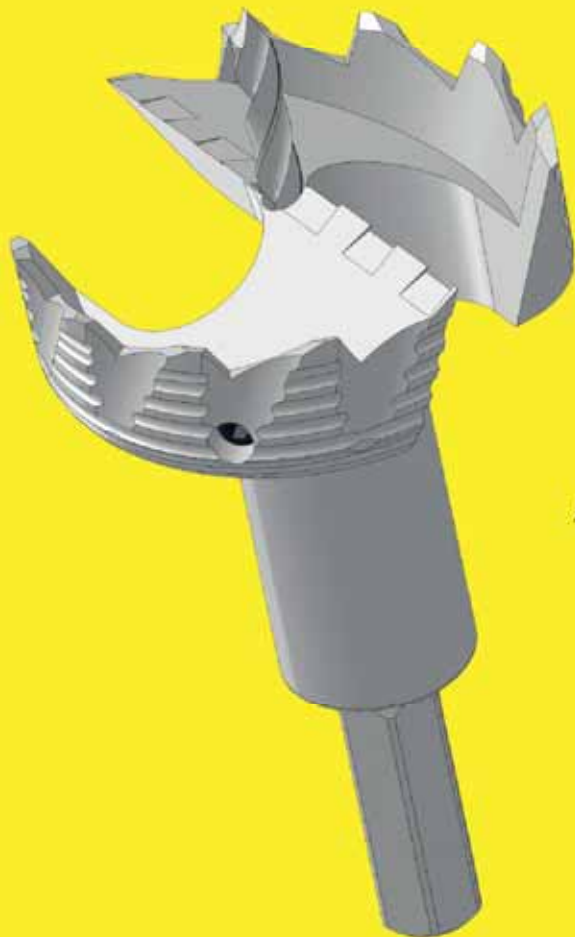
Packaging unit and information on individual packaging

Quality-classification

- **quality level hobby**
reasonable quality tools for the amateur segment
- **quality level classic**
for the quality-conscious user
- **quality level profi**
professional tools for the craftsman with high demanding requirements concerning tool and application
- **quality level premium**
wear-resistant tools of the highest quality level, even for extreme conditions of use

Drills and countersinks for wood

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1622

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Profi

Bormax®, Forstner bit

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Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1622.008	8	6,5	8	90	57	21,10
1622.009	9	7,5	8	90	57	21,10
1622.010	10	8	8	90	57	21,10
1622.011	11	8	8	90	57	21,10
1622.012	12	8	8	90	57	21,10
1622.013	13	8	8	90	57	21,10
1622.014	14	8	8	90	57	21,75
1622.015	15	8	8	90	57	21,30
1622.016	16	8	8	90	57	21,30
1622.017	17	8	8	90	57	23,15
1622.018	18	8	8	90	57	23,15
1622.019	19	8	8	90	57	27,80
1622.020	20	8	8	90	57	23,15
1622.021	21	8	8	90	57	27,80
1622.022	22	10	10	90	57	25,05
1622.023	23	10	10	90	57	25,85
1622.024	24	10	10	90	57	25,85
1622.025	25	10	10	90	57	26,75
1622.026	26	10	10	90	57	26,75
1622.027	27	10	10	90	57	34,50
1622.028	28	12	10	90	57	30,95
1622.029	29	12	10	90	57	37,55
1622.030	30	12	10	90	57	30,95
1622.032	32	12	10	90	57	30,95
1622.033	33	12	10	90	57	37,55
1622.034	34	12	10	90	57	37,55
1622.035	35	12	10	90	57	37,55
1622.036	36	14	10	90	57	43,65
1622.038	38	14	10	90	57	43,65
1622.040	40	14	10	90	57	43,65
1622.042	42	16	10	90	57	57,15
1622.043	43	16	10	90	57	57,15
1622.044	44	16	10	90	57	57,15
1622.045	45	16	10	90	57	57,15
1622.046	46	16	10	90	57	63,40
1622.048	48	16	10	90	57	63,40
1622.049	49	18	10	90	57	92,95
1622.050	50	18	10	90	57	63,40
1622.054	54	18	10	90	57	102,20
1622.055	55	20	13	90	57	92,95
1622.058	58	20	13	90	57	95,35
1622.060	60	20	13	90	57	96,00

Order No.	Description	€
1622.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	125,65
1622.606	6 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35 and 40 mm	164,90
1622.570	7 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40 and 50 mm	221,95
1622.508	8 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40, 45 and 50 mm	273,35
1622.515	15 pcs. Set in wooden case. Ø 10, 12, 15, 16, 18, 20, 22, 25, 26, 28, 30, 35, 40, 45 and 50 mm	425,65
1622.504	4 pcs. Set in wooden case: Ø 35, 40, 45, 50 mm	181,55






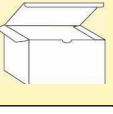
	Forstner bit with wave-form cutting teeth, two main cutting edges and brad point. Hexagonal shank. Even after regrinding still a Bormax		Rapid drilling in softwood, European hardwood, chipboard, MDF etc. Rapid material removal of solid wood and chipping boards. Clearly less effort is needed and boring is more rapid than with the usual forstner bit
	Alloyed tool steel		Top for freehand drilling and stationary use. Low heat development and therefore unbelievable endurance. In combination with extension shanks perfect fit for drilling deep holes
	900 - 3200 min-1. e.g. Ø 35 mm 1500 min-1 in construction wood. Also find details at the speed-diagrams		Packing unit = 1, Blister. EAN



Order No.	O-Ø [mm]	AØ [Inch]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1622.215	9,53	3/8	8	8	90	57	23,45
1622.217	12,7	1/2	8	8	90	57	23,45
1622.219	15,88	5/8	8	8	90	57	23,45
1622.220	17,46	11/16	8	8	90	57	25,45
1622.221	19,05	3/4	8	8	90	57	25,45
1622.222	20,64	13/16	8	8	90	57	30,60
1622.223	22,23	7/8	10	10	90	57	27,60
1622.224	23,81	15/16	10	10	90	57	28,35
1622.225	25,4	1	10	10	90	57	29,50
1622.226	26,99	1 1/16	10	10	90	57	34,50
1622.227	28,58	1 1/8	12	10	90	57	41,25
1622.228	30,16	1 3/16	12	10	90	57	34,05
1622.229	31,75	1 1/4	12	10	90	57	34,05
1622.230	33,34	1 5/16	12	10	90	57	41,25
1622.231	34,93	1 3/8	12	10	90	57	37,55
1622.233	38,1	1 1/2	14	10	90	57	48,05
1622.235	41,28	1 5/8	14	10	90	57	62,90
1622.237	44,45	1 3/4	16	10	90	57	62,90
1622.239	47,63	1 7/8	16	10	90	57	69,75
1622.241	50,8	2	18	10	90	57	69,75
1622.243	53,98	2 1/8	18	10	90	57	102,20
1622.245	57,15	2 1/4	20	13	90	57	105,60

Sets

Order No.	Description	€
1622.605	5 pcs. Set in wooden case. Ø 5/8, 3/4, 1, 1 1/8, 1 3/8 INCH	156,05
1622.607	7 pcs. Set in wooden case. Ø 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 INCH	156,05
1622.616	16 pcs. Set in wooden case. Ø 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8, 1 7/8, 2, 2 1/8 INCH	647,80

	Forstner bit with wave-form cutting teeth, two main cutting edges and brad point. Even after regrinding still a Bormax		Rapid drilling in softwood, European hardwood, chipboard, MDF etc. Rapid material removal of solid wood and chipping boards. Clearly less effort is needed and boring is more rapid than with the usual forstner bit
	Alloyed tool steel		Top for freehand drilling and stationary use. Low heat development and therefore unbelievably endurant
	900 - 3200 min-1. e.g. Ø 1 inch 2200 min-1 in construction wood. Also find details at the speed-diagrams		Packing unit = 1, Blister. EAN

1623

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Profi

Bormax®, Forstner bit, long version

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Order No.	O-Ø [mm]	AØ [Inch]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1623.010	10		8	13	120	70	28,75
1623.012	12		8	13	120	70	28,75
1623.013	13		8	13	125	75	28,75
1623.014	14		8	13	125	75	28,75
1623.015	15		8	13	125	75	26,75
1623.016	16		8	13	125	75	29,20
1623.018	18		8	13	130	80	31,25
1623.019	19		8	13	130	80	33,00
1623.020	20		8	13	130	80	31,25
1623.021	21		8	13	130	80	33,00
1623.022	22		13	13	130	80	31,70
1623.024	24		13	13	135	85	32,70
1623.025	25		13	13	135	85	33,00
1623.225	25,40	1"	13	13	135	85	37,58
1623.026	26		13	13	135	85	36,15
1623.027	27		13	13	135	85	40,95
1623.028	28		13	13	135	85	37,60
1623.030	30		13	13	140	90	38,35
1623.229	31,75	1 1/4"	14	13	140	90	43,68
1623.032	32		14	13	140	90	40,95
1623.034	34		14	13	140	90	49,20
1623.035	35		14	13	145	95	44,35
1623.036	36		14	13	145	95	48,50
1623.037	37		14	13	145	95	52,95
1623.038	38		16	13	145	95	52,95
1623.233	38,10	1 1/2"	16	13	145	95	60,26
1623.040	40		16	13	145	95	52,95

	<p>Long Forstner bit with wave-form cutting teeth, two main cutting edges and brad point. Hexagonal shank. Even after regrinding still a Bormax</p>		<p>Rapid drilling in softwood, European hardwood, chipboard, MDF etc. Rapid material removal of solid wood and chipping boards. Clearly less effort is needed and boring is faster than with the usual forstner bit</p>
	<p>Alloyed tool steel</p>		<p>Top for freehand drilling and stationary use. Low heat development and therefore unbelievable endurance. In combination with extension shanks perfect fit for drilling deep holes. For bigger diameters we recommend line 1614 Bormax® 2.0 tool steel prima long</p>
	<p>900 - 3200 min-1. e.g. Ø 30 mm 1750 min-1 in softwood. Also find details at the speed diagrams</p>		<p>Packing unit = 1. Yellow cardboard tube. EAN</p>



Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	HS	€
1624.015	15	10	10	90	57	1	29,95
1624.016	16	10	10	90	57	1	29,95
1624.162	16,2	10	10	90	57	1	31,95
1624.018	18	10	10	90	57	1	31,95
1624.020	20	10	10	90	57	1	31,95
1624.022	22	10	10	90	57	2	33,95
1624.025	25	10	10	90	57	2	35,55
1624.030	30	12	10	90	57	2	39,75
1624.035	35	12	10	90	57	2	46,35
1624.040	40	14	10	90	57	2	52,50
1624.045	45	16	10	90	57	2	66,95
1624.050	50	18	10	90	57	2	72,25

Accessory

Order No.	Description	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
1624.004	pre-drill bit	4	4	45	30	1	3,60
1624.104	pre-drill bit (PU 4)	4	4	45	30	4	12,95

Sets

Order No.	Description	€
1624.505	5 pcs. Set in wooden case: Ø 15, 20, 25, 30 and 35 mm	165,20
1624.506	6 pcs. Set in wooden case: Ø 15, 20, 25, 30, 35 mm and extension shank 1639.001	185,30
1624.507	7 pcs. Set in wooden case: Ø 16, 18, 20, 22 and 25 mm	147,05
1624.606	6 pcs. Set in wooden case: Ø 15, 20, 25, 30, 35 and 40 mm	212,45
1624.570	7 pcs. Set in wooden case: Ø 15, 20, 25, 30, 35, 40 and 50 mm	277,50
1624.508	8 pcs. Set in wooden case: Ø 15, 20, 25, 30, 35, 40, 45 and 50 mm	337,75
1624.504	4 pcs. Set in wooden case: Ø 35, 40, 45 and 50 mm	214,25



Bormax with exchangeable brad point, also a pre-drill bit. Included in the delivery: Bormax with exchangeable brad point/pr-drill bit, center point, pre-drill Ø 4 mm and one MEX Key. Hexagonal shank



The pilot-drill bit is ideal for drilling at an angle which is not 90° in workpieces surface, which occurs for example in the construction of staircase. Can be used with the centre point as traditional Bormax.



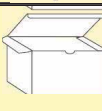
Alloyed tool steel, pre-drill bit HSS-G



Clean drilling at many angles in all softwoods, European hardwood, and MDF panels. Very good alternative to the expensive machine drill for stairs building article 1575. In combination with extension shanks perfect fit for drilling deep holes.



1500 - 3000 min-1. e.g. Ø 20 mm 2400 min-1 in softwood. Also find details at the speed-diagrams



Packing unit = 1. PE tube. EAN

1614

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Profi

Bormax® 2.0 WS prima_long (Special Counterbore)

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Order No.	O-Ø [mm]	AØ [Inch]	Stem Ø [mm]	S-Ø [mm]	I-Ø [mm]	OAL [mm]	NL [mm]	€
1614.020	20		13	13	8	140	90	75,55
1614.025	25		13	13	8	140	90	78,60
1614.030	30		14	13	8	140	90	87,00
1614.032	32		14	13	8	140	90	90,90
1614.035	35		16	13	8	145	95	90,90
1614.040	40		20	13	8	145	95	99,00
1614.237	44,45	1 3/4"	20	13	10	150	100	105,00
1614.045	45		20	13	10	150	100	105,00
1614.050	50		20	13	10	150	100	110,15
1614.241	50,80	2"	20	13	10	150	100	110,15
1614.243	53,98	2 1/8"	20	13	10	150	100	119,95
1614.055	55		20	13	10	150	100	110,15
1614.245	57,15	2 1/4"	20	13	10	150	100	119,95
1614.058	58		20	13	10	150	100	119,95
1614.060	60		20	13	10	150	100	119,95
1614.247	60,33	2 3/8"	20	13	10	155	105	139,95
1614.249	63,50	2 1/2"	20	13	10	155	105	149,95
1614.065	65		20	13	10	155	105	139,95
1614.251	66,68	2 5/8"	20	13	10	155	105	149,95
1614.068	68		20	13	10	155	105	149,95
1614.253	69,85	2 3/4"	20	13	10	155	105	149,95
1614.070	70		20	13	10	155	105	149,95
1614.255	73,03	2 7/8"	20	13	10	155	105	179,95
1614.075	75		20	13	10	155	105	179,95
1614.257	76,20	3"	20	13	10	155	105	179,95
1614.080	80		20	13	10	155	105	179,95
1614.085	85		20	13	10	160	110	224,95
1614.261	88,90	3 1/2"	20	16	10	160	110	224,95
1614.090	90		20	16	10	160	110	224,95
1614.095	95		24	16	10	160	110	279,95
1614.100	100		24	16	10	160	110	279,95
1614.265	101,60	4"	24	16	10	160	110	279,95
1614.110	110		25	16	10	160	110	324,95
1614.120	120		25	16	10	160	110	324,95

Accessory

Order No.	Description	€
1619.208	HSS centre drill Ø 3,8 mm shank 8 mm	16,85
1619.210	HSS centre drill Ø 4,0 mm shank 10 mm	16,85
1614.208	HSS pre drill Ø 8 mm for Ø 20 - 40 mm	16,85
1614.210	HSS pre drill Ø 10 mm for Ø 44,45 - 120 mm	16,85

Sets

Order No.	Description	€
1614.509	Bormax® 2.0 WS prima Set with depth stop, 1614: 50, 60, 70 mm. 1619: 14, 18, 22 mm and MK2 fix adapter	438,30
1614.510	Bormax® 2.0 WS prima & auger drill set : 1614: 40, 50, 60 mm, 1410.3 and 1619: 12, 14, 18 mm	404,55
1614.511	Bormax® 2.0 WS prima & auger drill set : 1614: 40, 50, 60 mm, 1410.3 and 1619: 12, 16, 20 mm	411,80

	<p>Bormax® 2.0 WS prima with exchangeable predrill or guiding pin. Much less feed forces needed as well as minimized friction and therefore less heat generation. Reasons: The two main cutting edges are grooved shifted, as well as the toothed linear grooved pre-cutters. A matching center drill and a hex wrench are included in the delivery. Hexagonal shank for a better power transmission.</p>		<p>Perfect fit for slanting drills with our pre-drill or guiding pins 1471/1619. Clean drills in all soft woods, european hard wood, chipboard and MDF.</p>
	<p>Alloyed tool steel</p>		<p>We recommend our Bormax® 2.0 WS prima (pilot guided) with matching extension for smaller diameter (1624 & 1639)</p>
	<p>300 - 800 min-1, for example Ø 60 mm 500 min-1 in laminated timber. Please see also "info´s"</p>		<p>packing unit = 1. Yellow cardboard tube (Ø 100 mm max.) > 100 mm in cardboard.</p>



Pilot bit for Bormax prima long Ø 20 - 40 mm

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	NL [mm]	€
1619.008	8	8	75	50	16,85
1619.110	10	8	75	50	16,85
1619.112	12	8	75	50	18,35
1619.113	13	8	75	50	18,50
1619.114	14	8	75	50	18,50
1619.116	16	8	75	50	19,65
1619.118	18	8	75	50	20,55
1619.120	20	8	75	50	21,45
1619.122	22	8	75	50	25,10



Pilot bit for Bormax prima long from Ø 44,45 mm

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	NL [mm]	€
1619.010	10	10	75	50	16,85
1619.012	12	10	75	50	18,35
1619.013	13	10	75	50	18,50
1619.014	14	10	75	50	18,50
1619.016	16	10	75	50	19,65
1619.017	17	10	75	50	20,50
1619.018	18	10	75	50	20,55
1619.020	20	10	75	50	21,45
1619.022	22	10	75	50	25,10
1619.026	26	10	75	50	26,30
1619.032	32	10	75	50	28,45



centre bit for Bormax primal long

Order No.	Description	€
1619.208	HSS centre drill Ø 3,8 mm shank 8 mm	16,85
1619.210	HSS centre drill Ø 4,0 mm shank 10 mm	16,85



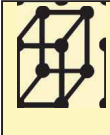


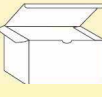


pre drill for Bormax primal long

Order No.	Description	€
1614.208	HSS pre drill Ø 8 mm for Ø 20 - 40 mm	16,85
1614.210	HSS pre drill Ø 10 mm for Ø 44,45 - 120 mm	16,85

Order No.	Description	€
1619.100	depth stop for drill Ø 40 - 90 mm	115,10



	Stepped dowel pin with shank of 8 or 10 mm x 25 mm		For the use of counterbore 1614 or 1618. Ensures the good guidance of the counterbore tools
	Tool steel		Ground slightly undersized so that easy working is ensured.
	please see drill range 1614 and 1619		Packing unit = 1. Rose-tube. EAN

1663



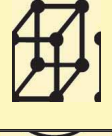


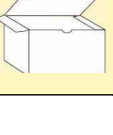

 Premium
TCT-Bormax³ Forstner bit carbide-tipped

 FAMAG[®]
...für Besserbohrer[®]


Order No.	O-Ø [mm]	AØ [Inch]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	HS	€
1663.015	15		8	8	90	57	1	57,60
1663.219	15,88	5/8	8	8	90	57	1	59,50
1663.016	16		8	8	90	57	1	59,15
1663.018	18		8	8	90	57	1	59,15
1663.019	19		8	8	90	57	1	59,15
1663.221	19,05	3/4	8	8	90	57	1	59,15
1663.020	20		8	8	90	57	1	59,15
1663.022	22		10	10	90	57	1	60,75
1663.223	22,23	7/8	10	10	90	57	1	60,75
1663.023	23		10	10	90	57	1	60,75
1663.024	24		10	10	90	57	1	60,75
1663.025	25		10	10	90	57	2	60,75
1663.225	25,4	1	10	10	90	57	2	62,35
1663.026	26		10	10	90	57	2	60,75
1663.028	28		12	10	90	57	2	62,35
1663.227	28,58	1 1/8	12	10	90	57	2	65,25
1663.030	30		12	10	90	57	2	62,35
1663.229	31,75	1 1/4	12	10	90	57	2	62,35
1663.032	32		12	10	90	57	2	62,35
1663.231	34,93	1 3/8	12	10	90	57	2	65,20
1663.035	35		12	10	90	57	2	65,25
1663.038	38		14	10	90	57	2	77,45
1663.233	38,10	1 1/2	14	10	90	57	2	77,45
1663.040	40		14	10	90	57	2	77,45
1663.044	44		16	10	90	57	2	106,45
1663.237	44,45	1 3/4	16	10	90	57	2	114,55
1663.045	45		16	10	90	57	2	99,95
1663.050	50		18	10	90	57	2	114,55
1663.241	50,80	2	18	10	90	57	2	126,00
1663.243	53,98	2 1/8	18	10	90	57	2	150,05
1663.054	54		18	10	90	57	2	150,05
1663.060	60		20	13	90	57	2	159,95

Sets

Order No.	Description	€
1663.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	274,50
1663.606	6 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35 and 40 mm	344,20
1663.570	7 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40 and 50 mm	447,25
1663.508	8 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40, 45 and 50 mm	536,90
1663.504	4 pcs. Set in wooden case: Ø 35, 40, 45, 50 mm	321,30



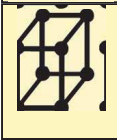
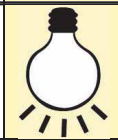

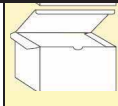
	The first carbide tipped Forstner bit with brad point, carbide-tipped main cutting edge and carbide-tipped wave-form cutting teeth. Hexagonal shank		Freehand drilling to all types of wood: soft and hard wood, European and exotic (also bongossi), MDF, panel materials, also laminated materials and many plastics
	High quality carbide tipping of the main cutting edge and roughing tap		Truely the first universal carbide tipped drill for freehand drilling and of course also for stationary use. In combination with extension shanks perfect fit for drilling deep holes
	1800 - 5000 min-1. e.g. Ø 35 mm 3000 min-1 in euro hardwood. Also find details at the speed-diagrams		Packing unit = 1, Blister. EAN



Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1662.008	8	7	10	90	57	49,60
1662.010	10	8	10	90	57	49,60
1662.011	11	8	10	90	57	52,80
1662.012	12	8	10	90	57	52,80
1662.013	13	8	10	90	57	59,50
1662.014	14	10	10	90	57	59,50
1662.015	15	10	10	90	57	59,50
1662.016	16	10	10	90	57	61,10
1662.017	17	10	10	90	57	61,10
1662.018	18	10	10	90	57	61,10
1662.019	19	10	10	90	57	61,10
1662.020	20	10	10	90	57	61,10
1662.021	21	10	10	90	57	62,75
1662.022	22	10	10	90	57	62,75
1662.023	23	10	10	90	57	62,75
1662.024	24	10	10	90	57	62,75
1662.025	25	12	10	90	57	62,75
1662.026	26	12	10	90	57	62,75
1662.027	27	13	10	90	57	80,65
1662.028	28	13	10	90	57	64,40
1662.029	29	13	10	90	57	80,65
1662.030	30	13	10	90	57	64,40
1662.031	31	13	10	90	57	84,50
1662.032	32	14	10	90	57	67,40
1662.033	33	14	10	90	57	92,90
1662.034	34	14	10	90	57	67,40
1662.035	35	14	10	90	57	67,40
1662.036	36	14	10	90	57	67,40
1662.037	37	14	10	90	57	99,75
1662.038	38	14	10	90	57	80,00
1662.039	39	16	10	90	57	99,75
1662.040	40	16	10	90	57	80,00
1662.042	42	18	10	90	57	100,30
1662.043	43	18	10	90	57	109,95
1662.044	44	18	10	90	57	109,95
1662.045	45	18	10	90	57	103,20
1662.046	46	18	10	90	57	119,80
1662.048	48	18	10	90	57	124,30
1662.050	50	18	10	90	57	118,30
1662.055	55	18	13	90	57	140,40
1662.058	58	18	13	90	57	159,65
1662.060	60	18	13	90	57	165,20

Sets

Order No.	Description	€
1662.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	283,45
1662.606	6 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35 and 40 mm	355,40
1662.508	8 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40, 45 and 50 mm	554,65
1662.510	10 pcs. Set in wooden case. Ø 10, 15, 18, 20, 22, 25, 26, 30, 35 and 40	622,65
1662.515	15 pcs. Set in wooden case. Ø 10, 12, 15, 16, 18, 20, 22, 25, 26, 30, 35, 40, 45 and 50 mm	927,30

	<p>Carbide tipped with brad point, 2 main edges, 2 roughing taps. Precisely ground by diamond wheel on CNC machines. High quality carbide tipping and special waved grinding (> Ø 23 mm) on the main edges.</p>		<p>Tear free accurate holes in all types of hardwood, plastic coated chipboards and plastics. Very good material removal due to the waved ground main edges. For stationary use</p>
	<p>High quality carbide tipping</p>		<p>Boring with nearly no effort, also unbelievable endurance when used for hardwood and hard plastics. For freehand drilling we recommend the TCT-Bormax³ (product line 1663)</p>
	<p>1500 - 8000 min-1. e.g. Ø 35 mm 3000 min-1 in euro. hardwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube (up to Ø 55 mm) . EAN</p>

1661

○○○○
Premium

SUPER-Cylinder Boring bit, carbide-tipped, long version, Precision



Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1661.010	10	8	13	140	90	75,30
1661.012	12	8	13	140	90	75,30
1661.014	14	8	13	140	110	76,40
1661.015	15	8	13	140	110	76,40
1661.016	16	8	13	140	110	78,40
1661.018	18	8	13	140	110	79,25
1661.020	20	8	13	140	110	82,45
1661.022	22	10	13	140	110	84,55
1661.024	24	10	13	140	110	88,55
1661.025	25	10	13	140	110	90,60
1661.026	26	10	13	140	110	91,55
1661.028	28	13	13	140	110	96,70
1661.030	30	13	13	140	110	98,75
1661.032	32	13	13	140	110	104,10
1661.035	35	16	13	140	110	117,50
1661.036	36	16	13	140	110	124,55
1661.038	38	16	13	140	110	126,10
1661.040	40	16	13	140	110	131,90
1661.042	42	16	16	140	110	144,70
1661.045	45	16	16	140	110	149,25
1661.050	50	18	16	140	110	168,00
1661.055	55	18	16	140	110	194,45
1661.058	58	18	16	140	110	206,70
1661.060	60	18	16	140	120	214,00
1661.065	65	18	16	140	120	229,00
1661.068	68	20	16	140	120	303,05
1661.070	70	20	16	140	120	303,05
1661.075	75	20	16	160	120	354,50
1661.080	80	20	16	160	120	391,95
1661.085	85	20	16	160	120	459,25
1661.090	90	25	20	160	120	501,30
1661.095	95	25	20	160	120	549,45
1661.100	100	25	20	160	120	581,85
1661.120	120	25	20	160	120	949,95






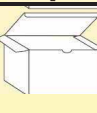
	<p>Long version, carbide tipped with brad point, 2 main edges, 2 roughing taps. Precisely ground by diamond wheel in CNC machines. High quality carbide tipping and special waved grinding (> Ø 23 mm) on the main edges</p>		<p>Tear free accurate holes in all types of hardwood, plastic coated chipboards and plastics. Only for stationary use</p>
	<p>High quality carbide tipping</p>		<p>For freehand drilling of European hardwood we recommend the long version of Bormax® of our product line 1623</p>
	<p>600 - 6000 min-1. e.g. Ø 68 mm 1300 min-1 in euro. hardwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Yellow cardboard tube (up to Ø 100 mm). EAN</p>



Order No.	O-Ø [mm]	AØ [Inch]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1630.213	6,35	1/4"	4,5	8	90	57	17,05
1630.214	7,94	5/16"	8	8	90	57	17,05
1630.215	9,53	3/8"	8	8	90	57	17,05
1630.010	10		8	8	90	57	15,05
1630.012	12		8	8	90	57	15,50
1630.217	12,70	1/2"	8	8	90	57	17,90
1630.014	14		8	8	90	57	16,20
1630.015	15		8	8	90	57	16,80
1630.219	15,88	5/8"	8	8	90	57	18,50
1630.016	16		8	8	90	57	16,85
1630.018	18		8	8	90	57	17,95
1630.221	19,05	3/4"	8	8	90	57	20,80
1630.020	20		8	8	90	57	18,80
1630.022	22		10	10	90	57	20,25
1630.223	22,23	7/8"	10	10	90	57	22,35
1630.024	24		10	10	90	57	21,45
1630.025	25		10	10	90	57	22,75
1630.225	25,40	1"	10	10	90	57	25,10
1630.026	26		10	10	90	57	23,75
1630.028	28		12	10	90	57	26,30
1630.227	28,58	1 1/8"	12	10	90	57	29,00
1630.030	30		12	10	90	57	26,85
1630.229	31,75	1 1/4"	12	10	90	57	32,90
1630.032	32		12	10	90	57	29,95
1630.034	34		12	10	90	57	31,30
1630.231	34,93	1 3/8"	12	10	90	57	32,50
1630.035	35		12	10	90	57	32,50
1630.038	38		14	10	90	57	35,60
1630.233	38,10	1 1/2"	14	10	90	57	35,55
1630.040	40		14	10	90	57	38,95
1630.235	41,28	1 5/8"	14	10	90	57	52,25
1630.237	44,45	1 3/4"	16	10	90	57	52,25
1630.045	45		16	10	90	57	47,50
1630.239	47,63	1 7/8"	16	10	90	57	52,25
1630.050	50		18	10	90	57	51,40
1630.241	50,80	2"	18	10	90	57	56,50
1630.243	53,98	2 1/8"	18	10	90	57	82,90
1630.245	57,15	2 1/4"	20	10	90	57	85,55

Sets

Order No.	Description	€
1630.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	105,80
1630.508	8 pcs. Set in wooden case. Ø 15, 20, 25, 30, 35, 40, 45 and 50 mm	229,75
1630.510	10 pcs. Set in wooden case. Ø 10, 15, 18, 20, 22, 25, 26, 30, 35 and 40	233,65
1630.515	15 pcs. Set in wooden case. Ø 10, 12, 15, 16, 18, 20, 22, 25, 26, 28, 30, 35, 40, 45 and 50 mm	351,55
1630.607	7 pcs. Set in wooden case. Ø 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1"	124,60
1630.616	16 pcs. Set in wooden case. Ø 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 7/8, 2, 2 1/8"	513,80

	Traditional forstner bit with brad point, two main cutting edges and circumference cutter. Low friction due to the reduced peripheral cutting edge.		Tear free accurate holes in softwood, glued laminated timber etc. Specially suitable for freehand boring with a drilling machine
	Alloyed tool steel		This bit obtained the first position in an important test of Forstner bits in the E.E.U.U. published in "Fine Woodworking 04.2008". For hardwood we recommend the rapid forstner bit Bormax® of our product line 1622 or the TCT-Bormax ³ of our product line 1663
	700 - 2800 min-1. e.g. Ø 35 mm 1000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1633

 Classic

SUPER-Cylinder Boring bit



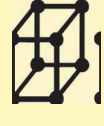


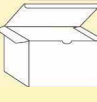
FAMAG
...für Besserbohrer®



Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1633.010	10	8	8	90	57	15,05
1633.012	12	8	8	90	57	15,50
1633.014	14	8	8	90	57	16,20
1633.015	15	8	8	90	57	16,80
1633.016	16	8	8	90	57	16,85
1633.018	18	8	8	90	57	17,95
1633.020	20	8	8	90	57	18,80
1633.022	22	10	10	90	57	20,25
1633.023	23	10	10	90	57	21,45
1633.024	24	10	10	90	57	21,45
1633.025	25	10	10	90	57	22,75
1633.026	26	10	10	90	57	23,75
1633.028	28	12	10	90	57	26,30
1633.030	30	12	10	90	57	26,85
1633.032	32	12	10	90	57	29,95
1633.034	34	12	10	90	57	31,30
1633.035	35	12	10	90	57	32,50
1633.040	40	14	10	90	57	38,95
1633.045	45	16	10	90	57	47,50
1633.050	50	18	10	90	57	51,40

Sets

Order No.	Description	€
1633.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	105,80
1633.510	10 pcs. Set in wooden case. Ø 10, 15, 18, 20, 22, 25, 26, 30, 35 and 40 mm	210,00
1633.515	15 pcs. Set in wooden case. Ø 10, 12, 15, 16, 18, 20, 22, 25, 26, 28, 30, 35, 40, 45 and 50 mm	351,55

	Traditional SUPER-Cylinder Boring bit with brad point, 2 main edges and 2 cutting lips. Exact grinding, right-hand cut, grey		Tear free accurate holes in softwood, can also be used for European hardwood and veneered boards. Especially easy to sharpen due to the straight cutting lips. Stationary deep-hole drilling is possible with our extension shank 1639.
	Alloyed tool steel		Cylinder Boring bits are only suitable for stationary operation. For freehand drilling we recommend our rapid forstner bit Bormax 1622 or the TCT-Bormax ³ 1663.
	700 - 3000 min-1. e.g. Ø 15 mm 2300 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN





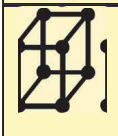
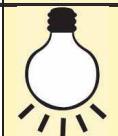

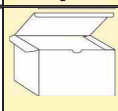
Order No.	Description	€
1621.108	Depth Stop for 1622, 1630, 1663, Drills-Ø 10 - 21 mm	40,25
1621.110	Depth Stop for 1622, 1630, 1663, Drills-Ø 28 - 35 mm	40,25
1621.112	Depth Stop for 1622, 1630, 1663, Drills-Ø 28 - 35 mm	40,25
1621.114	Depth Stop for 1622, 1630, 1663, Drills-Ø 36 - 40 mm	40,25
1621.116	Depth Stop for 1622, 1630, 1663, Drills-Ø 42 - 48 mm	40,25

Sets

Order No.	Description	€
1621.200	Depth Stop Set for 1622,1630,1633, for drills-Ø 10 - 48 mm, incl a nipper	103,20

Accessory

Order No.	Description	€
1621.100	Depth Stop single for 1622, 1630, 1663	26,85
1621.001	Nipper for locking ring	17,55
1621.008	Guide bush I-Ø 8 mm for 1621.100	13,45
1621.010	Guide bush I-Ø 10 mm for 1621.100	13,45
1621.012	Guide bush I-Ø 12 mm for 1621.100	13,45
1621.014	Guide bush I-Ø 14 mm for 1621.100	13,45
1621.016	Guide bush I-Ø 16 mm for 1621.100	13,45

	Depth Stop supported by ball bearing for FAMAG-Forstner bits with exchangeable guide bushings		The depth stop is mounted on the stalk and the drilling depth is adjusted, so it is possible to drill holes always exactly at the same depth. The bushings are rotatably supported by ball-bearings and thus produce no disturbing marks on the workpiece surface.
	Depth Stop made of resistant ABS plastic, guide bushing made of steel		For larger depths, it is possible to mount the guide bushing in reverse form, so you can reach a larger adjustment of the depth stop.
	see speed of Forstner bit		Packing unit = 1 piece in Rose-box

1010

 Classic

Self-Feed bit

FAMAG
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Order No.	O-Ø [mm]	AØ [Inch]	S-Ø [mm]	I-Ø [mm]	lØ [Inch]	OAL [mm]	Cutting l. [mm]	€
1010.025	25,4	1	12,7	4,8	3/16	150	120	67,10
1010.029	28,6	1 1/8	12,7	4,8	3/16	150	120	67,10
1010.032	31,8	1 1/4	12,7	4,8	3/16	150	120	67,10
1010.035	35,0	1 3/8	12,7	4,8	3/16	150	120	67,10
1010.038	38,1	1 1/2	12,7	4,8	3/16	150	120	67,10
1010.041	41,3	1 5/8	12,7	4,8	3/16	150	120	76,80
1010.044	44,5	1 3/4	12,7	6,3	1/4	150	120	76,80
1010.051	50,8	2	12,7	6,3	1/4	150	120	76,80
1010.054	54,0	2 1/8	12,7	6,3	1/4	150	120	83,50
1010.057	57,2	2 1/4	12,7	6,3	1/4	150	120	83,50
1010.065	65,1	2 9/16	12,7	6,3	1/4	150	120	96,25
1010.068	68,0	-	12,7	6,3	1/4	150	120	99,85
1010.074	74,0	-	12,7	6,3	1/4	150	120	115,55

Extensions

Order No.	O-Ø [mm]	S-Ø [mm]	I-Ø [mm]	lØ [Inch]	OAL [mm]	Cutting l. [mm]	€
1639.005	22	13	12,7	1/2	125	100	26,60
1639.006	22	13	12,7	1/2	250	220	30,15
1639.008	22	13	12,7	1/2	400	360	43,50

crest of thread



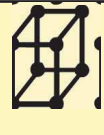


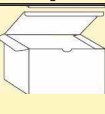
Order No.	O-Ø [mm]	AØ [Inch]	S-Ø [mm]	€
1010.803	4,8	3/16	4,8	10,30
1010.903	6,3	1/4	6,3	10,30

dowel pin with shank dia 4.8mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1010.810	10	4,8	68	25	29,90
1010.811	11	4,8	68	25	29,90
1010.812	12	4,8	68	25	29,90
1010.813	13	4,8	68	25	29,90
1010.814	14	4,8	68	25	29,90
1010.815	15	4,8	68	25	29,90
1010.816	16	4,8	68	25	29,90
1010.818	18	4,8	68	25	29,90
1010.820	20	4,8	68	25	29,90
1010.822	22	4,8	68	25	29,90

dowel pin with shank dia 6.3mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1010.910	10	6,3	68	25	29,90
1010.911	11	6,3	68	25	29,90
1010.912	12	6,3	68	25	29,90
1010.913	13	6,3	68	25	29,90
1010.914	14	6,3	68	25	29,90
1010.915	15	6,3	68	25	29,90
1010.916	16	6,3	68	25	29,90
1010.918	18	6,3	68	25	29,90
1010.920	20	6,3	68	25	29,90
1010.922	22	6,3	68	25	29,90



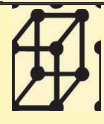


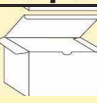
	Drill bit with 1 main edge, roughly toothed circumference cutter and changeable dowel pin and brad point. Shank with three clamping surfaces. One rough and one fine screw threading centre point included.		For roughly boring into wooden floor boards, the ceilings of old buildings, gypsum plaster boards etc. in freehand drilling. Using the dowel pin it is also possible to countersink plugs
	Tool steel		The speed of the machine gives the speed of the feed. No feed force required, this is great for overhead work.
	500 - 1100 min-1. e.g. Ø 68 mm 500 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Yellow cardboard tube. EAN



Order No.	I-Ø [mm]	S-Ø [mm]	O-Ø [mm]	AZ	OAL [mm]	Cutting l. [mm]	€
1616.006	6	13	16	4	140	70	72,25
1616.008	8	13	18	4	140	70	72,25
1616.009	9	13	19	4	140	70	85,10
1616.010	10	13	20	4	140	70	59,10
1616.011	11	13	21	4	140	70	85,10
1616.012	12	13	22	4	140	70	64,00
1616.013	13	13	23	4	140	70	85,10
1616.014	14	13	24	4	140	70	64,00
1616.015	15	13	25	4	140	70	64,00
1616.016	16	13	26	4	140	70	68,70
1616.018	18	13	28	4	140	70	68,70
1616.020	20	13	30	4	140	70	68,70
1616.022	22	13	32	4	140	70	76,40
1616.024	24	13	36	5	140	70	100,70
1616.025	25	13	37	5	140	70	76,60
1616.026	26	13	38	5	140	70	111,50
1616.028	28	13	40	5	140	70	111,50
1616.030	30	13	42	5	140	70	83,60
1616.032	32	13	44	5	140	70	128,00
1616.034	34	13	48	6	140	70	128,00
1616.035	35	13	49	6	140	70	92,90
1616.036	36	16	50	6	140	70	138,35
1616.040	40	16	54	6	140	70	106,30
1616.045	45	16	59	6	140	70	118,25
1616.050	50	16	64	6	140	70	134,20
1616.055	55	16	69	6	140	70	202,90
1616.060	60	16	74	6	140	70	202,90
1616.065	65	16	79	6	140	70	305,15
1616.070	70	16	84	8	140	70	305,15
1616.080	80	16	94	9	140	70	394,25

Sets

Order No.	Description	€
1616.505	5 pcs. Set in wooden case. Ø 15, 20, 25, 30 and 35 mm	348,30
1628.306	6 pcs. Set in wooden case with Plug Cutters and Bormax Bits. Ø 15, 20 and 25 mm	152,35
1629.308	8 pcs. Set in wooden case with Plug Cutters and HSS-G Bits. Ø 6, 8, 10 and 12 mm	279,90

	Twofold by robots relief ground main edges and circumference cutters. Effective length of the plug max. 75 mm, if lateral ejection is required the effective length of the plug is max. 40 mm		For the plug production for filling knot holes or fixing partial wood damage in combination with Bormax®. For precise fitting use FAMAG borers
	Alloyed tool steel		Place 1616 at the edge of the workpiece in a way that the annulus is opened sideways and good removal of the chips is possible
	400 - 1500 min-1. e.g. Ø 15 mm 1000 min-1 in softwood		Packing unit = 1. Rose-box. EAN



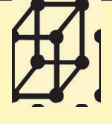


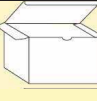
1616.2


 Profi

Disc + Plug Cutter

FAMAG®
...für Besserbohrer®


Order No.	I-Ø [mm]	IØ [Inch]	O-Ø [mm]	AZ	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1616.215	9,53	3/8	19,53	4	13	140	70	91,45
1616.217	12,70	1/2	22,70	4	13	140	70	91,45
1616.219	15,88	5/8	25,88	4	13	140	70	91,45
1616.221	19,05	3/4	29,05	4	13	140	70	91,45
1616.223	22,23	7/8	32,23	4	13	140	70	96,55
1616.225	25,40	1	37,40	5	13	140	70	96,55
1616.231	34,93	1 3/8	48,93	6	13	140	70	117,75

	Twofold by robots relief ground main edges and circumference cutters. Effective plug length is max. 2 inch, if lateral ejection is required the effective plug length is max. 1.5 inch		For the plug production for filling knot holes or fixing partial wood damage in combination with Bormax®. For precise fitting use FAMAG borers
	Alloyed tool steel		Place 1616 at the workpiece's edge in a way that the annulus is opened sidewise and good removal of the chips is possible
	400 - 1000 min-1. e.g. Ø 1/2 inch 1200 min-1 in softwood		Packing unit = 1. Rose-box. EAN



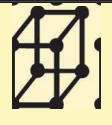


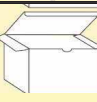
1616.1


 Premium

Disc + Plug Cutter, Carbide-tipped

FAMAG®
...für Besserbohrer®


Order No.	I-Ø [mm]	S-Ø [mm]	O-Ø [mm]	AZ	OAL [mm]	Cutting l. [mm]	€
1616.115	15	13	25	4	140	70	172,95
1616.120	20	13	30	4	140	70	179,30
1616.125	25	13	37	5	140	70	185,10
1616.130	30	13	42	5	140	70	190,90
1616.135	35	13	49	6	140	70	195,55
1616.140	40	16	54	6	140	70	214,00
1616.150	50	16	64	6	140	70	277,60



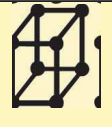



	Twofold by robots relief ground main edges and circumference cutter. Total length 140 mm. Effective length of the plug max. 75 mm, if lateral ejection is required the effective length of the plug is max. 40 mm. Precisely ground by diamond wheel on CNC		For the plug production of European and exotic hardwood. Also applicable for some plastics. Long endurance
	High quality carbide tipping		Place 1616 at the edge of the work piece in a way that the outside of the cutter is overlapping the edge, allowing fast chip ejection
	1500 - 2000 min-1. e.g. Ø 15 mm 1800 min-1 in euro hardwood		Packing unit = 1. Rose-box. EAN



Order No.	I-Ø [mm]	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1639.011	8	16	10	80	50	21,50
1639.003	8	16	10	125	100	24,05
1639.004	8	16	10	250	220	26,60
1639.010	10	16	10	80	50	21,50
1639.001	10	16	10	125	100	24,05
1639.002	10	16	10	250	220	26,60
1639.009	10	22	13	400	360	45,30
1639.007	12	22	13	400	360	43,50
1639.005	13	22	13	125	100	26,60
1639.006	13	22	13	250	220	30,15
1639.008	13	22	13	400	360	43,50

Sets

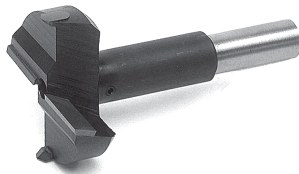
Order No.	Description	€
1639.583	3 pcs. Set in wooden case: IØ 10mm, GL 80, 125, 250	64,90
1639.503	3 pcs. Set in wooden case: IØ 8mm, GL 80, 125, 250	64,90

	Ø of the shank 10 mm, or 13 x 30 mm. With 4 attachment screws for fixing. Solid quality. The shank of Ø 13 mm has 3 clamping surfaces		For the extension of all cylinder boring bits or all tools with Ø of shank 8, 10, 12, 13 mm
	Tool steel		Perfect for drilling deep holes, also for turning. Only limited fit for drilling end grain (especially hardwood) because there is considerable strain on the drill chuck
	in combination with extentions please use less speed		Packing unit = 1. Rose-tube. EAN

1618

○○○○
Premium

Special Counterbore Carbide-tipped



Order No.	O-Ø [mm]	Stem Ø [mm]	S-Ø [mm]	I-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1618.020	20	13	13	8	140	110	204,45
1618.025	25	13	13	8	140	110	221,35
1618.030	30	16	13	8	140	110	238,00
1618.035	35	16	13	8	140	110	255,10
1618.040	40	16	13	8	140	110	305,60
1618.045	45	20	13	10	140	110	339,25
1618.050	50	20	13	10	140	110	356,35
1618.055	55	20	13	10	140	110	373,20
1618.060	60	20	13	10	140	110	406,95

	<p>Carbide tipped cylinder boring bit with center hole for exchangeable dowel pins or pilot drills. 2 main edges and 2 roughing taps, ground by diamond wheels on CNC-machines for long endurance</p>		<p>For countersinking on a right-angled surface for taking in screws and plugs in wooden constructions. Guidance of the counterbore is reached by the dowel pin or a pilot drill. Please order separately</p>
	<p>High quality carbide tipping</p>		<p>Please order dowel pin or pilot drill separately. Boring and counterboring in one workstep. Intermediate sizes on demand, delivery time approx. 4 weeks. Pre drill / guiding pin is NOT included in delivery</p>
	<p>1500 - 3000 min-1. e.g. Ø 35 mm 2800 min-1 in euro. hardwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Yellow cardboard tube (up to Ø 100 mm). EAN</p>

1405.210



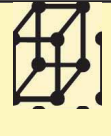





Premium

Depth Guide

FAMAG®
... für Besserbohrer®


Order No.	for drill length	Drilling depth	Foot measure	Foot measure	OAL	€
	[mm]	[mm]	outside	inside		
D 1405.210	240	210	150	90	~330	172,95

	Depth guide with two guide rods, retainer for drill machine Ø 43 mm with handle and guide ring (inner Ø 90 mm)		Tool independent bit stop which is suitable for boring countersinks for washers. Continuously adjustable depth of sinking by adjusting ring on guide rods
	Tool holder of cast aluminium		Very easy to handle and precisely applicable. The second handle allows good guidance
	Power drill		Packing unit = 1. EAN

3582



Hobby



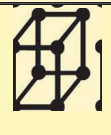



Self-centering hinge boring bit

FAMAG®
... für Besserbohrer®


Order No.	Ø	S	OAL	Cutting l.	€
	[mm]	[Ø]	[mm]	[mm]	
3582.020	2,0	E 6,3	84	14	17,05
3582.030	2,75	E 6,3	86	14	17,40
3582.035	3,5	E 6,3	95	15	18,65

Accessory

Order No.	Description	O-Ø	€
		[mm]	
3582.120	core drill HSS for 3582.020	2,0	1,25
3582.130	core drill HSS for 3582.030	2,75	1,60
3582.135	core drill HSS for 3582.035	3,5	1,80

	Self-centring hinge boring bit for power drill. Equipped with a guide bush containing a spring and core drill HSS with roof tip		The guide bush will be inserted in the screw hole of a fitting or a hinge. The guide bush will centre itself in the fitting / hinge screw.
	Drill HSS		You can precisely locate the hinge screw using this countersink hole in this hinge
	500 - 1000 min-1. e.g. Ø 2,0 mm 1000 min-1 in MDF		Packing unit = 1. Rose-tube. EAN

3514/

 Classic

Hinge Boring bit

FAMAG
... für Besserbohrer®



with Bormax head

Order No.	0-Ø [mm]	S-Ø [mm]	OAL [mm]	NL [mm]	€
3514.026	26	10	60	40	16,45
3514.035	35	10	60	40	16,45

in tool-steel

Order No.	0-Ø [mm]	S-Ø [mm]	OAL [mm]	UL [mm]	€
3515.026	26	8	60	40	10,80
3515.030	30	8	60	40	11,20
3515.035	35	8	60	40	11,30

tct version

Order No.	0-Ø [mm]	S-Ø [mm]	OAL [mm]	UL [mm]	€
3516.015	15	8	60	40	20,50
3516.020	20	8	60	40	20,50
3516.025	25	8	60	40	19,75
3516.026	26	8	60	40	19,75
3516.030	30	8	60	40	20,50
3516.035	35	8	60	40	19,75

	Little brad point, roughing tap and two main edges. Improved edge geometry		Tear free accurate hinge borings. The tool steel version for uncoated softwood. Bormax®-geometry for coated boards and limited for plastic coated chipboards or MDF. Carbide tipped version can be used without problems for plastic coated materials
	Tool steel or carbide tipped		Only the BORMAX - Geometry tools are suitable for freehand drilling. When using Bormax® on coated boards let the power drill run very slowly so that the teeth can tear the coating open and the drill won't be damaged by too much heat
	1000 min-1 for Tool steel-types. 2500 min-1 for TCT-types. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN



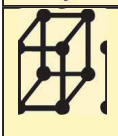
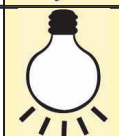

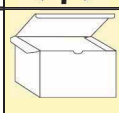


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1607.106	6	13	120	40	24,10
1607.108	8	13	130	40	25,00
1607.110	10	13	140	45	27,30
1607.112	12	13	150	50	28,30
1607.114	14	13	160	55	29,70
1607.116	16	13	170	65	33,00

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1607.206	6	16	120	40	24,10
1607.208	8	16	130	40	25,00
1607.210	10	16	140	45	27,30
1607.212	12	16	150	50	28,30
1607.214	14	16	160	55	29,70
1607.216	16	16	170	65	33,00

Sets

Order No.	Description	€
1607.606	6 pcs. Set in wooden case RH version. Ø 6, 8, 10, 12, 14 and 16 mm	150,40

	<p>Two spiraled main edges with stepped parallel shank Ø 13 or 16 mm</p>		<p>Milling of slots in softwood and limited in European hardwood with a slot boring machine. Higher cutting rate and ideal removal of chips due to the convoluted geometry of the main edges</p>
	<p>Alloyed tool steel</p>		<p>Thanks to the wound spiral this drill runs particularly smoothly and without incommodious chattering</p>
	<p>2500 - 5000 min-1. e.g. Ø 16 mm 2500 min-1 in softwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube. EAN</p>

1601/03


 Classic

Slot Mortise bit

FAMAG
 ...für Besserbohrer®


version RH with shank dia 13mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1601.105	5	13	115	35	19,70
1601.106	6	13	120	35	18,10
1601.107	7	13	125	35	17,95
1601.108	8	13	130	40	17,95
1601.109	9	13	135	40	17,95
1601.110	10	13	140	45	17,10
1601.111	11	13	145	48	17,45
1601.112	12	13	150	50	16,70
1601.113	13	13	155	53	17,60
1601.114	14	13	160	55	17,95
1601.115	15	13	165	58	19,20
1601.116	16	13	170	60	20,40
1601.118	18	13	180	68	23,90
1601.120	20	13	185	70	30,30
1601.122	22	13	190	75	43,65
1601.124	24	13	195	77	49,55

version LH with shank dia 13mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1601.405	5	13	115	35	19,70
1601.406	6	13	120	35	18,10
1601.407	7	13	125	35	17,95
1601.408	8	13	130	40	17,95
1601.409	9	13	135	40	17,95
1601.410	10	13	140	45	17,10
1601.411	11	13	145	48	17,45
1601.412	12	13	150	50	16,70
1601.413	13	13	155	53	17,60
1601.414	14	13	160	55	17,95
1601.415	15	13	165	58	19,20
1601.416	16	13	170	60	20,40
1601.418	18	13	180	68	23,90
1601.420	20	13	185	70	30,30
1601.422	22	13	190	75	43,65
1601.424	24	13	195	77	49,55

version RH with shank dia 16mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1601.205	5	16	115	35	19,70
1601.206	6	16	120	35	18,10
1601.207	7	16	125	35	17,95
1601.208	8	16	130	40	17,95
1601.209	9	16	135	40	17,95
1601.210	10	16	140	45	17,10
1601.211	11	16	145	48	17,45
1601.212	12	16	150	50	16,70
1601.213	13	16	155	53	17,60
1601.214	14	16	160	55	17,95
1601.215	15	16	165	58	19,20
1601.216	16	16	170	60	20,40
1601.218	18	16	180	68	23,90
1601.220	20	16	185	70	30,30
1601.222	22	16	190	75	43,65
1601.224	24	16	195	77	49,55

version LH with shank dia 16mm







Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1601.505	5	16	112	35	19,70
1601.506	6	16	120	35	18,10
1601.507	7	16	125	35	17,95
1601.508	8	16	130	40	17,95
1601.509	9	16	135	40	17,95
1601.510	10	16	140	45	17,10
1601.511	11	16	145	48	17,45
1601.512	12	16	150	50	16,70
1601.513	13	16	155	53	17,60
1601.514	14	16	160	55	17,95
1601.515	15	16	165	58	19,20
1601.516	16	16	170	60	20,40
1601.518	18	16	180	68	23,90
1601.520	20	16	185	70	30,30
1601.522	22	16	190	75	43,65
1601.524	24	16	195	77	49,55

slot mortise bit RH with long cutters

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1603.216	16	16	200	130	67,55

Sets

Order No.	Description	€
1601.606	6 pcs. Set in wooden case RH version. Ø 6, 8, 10, 12, 14 and 16 mm	97,10

	Two straight main edges with chip breaking flutes. With stepped shank Ø 13 or 16 mm		Milling of slots in softwood with a slot boring machine. Due to the special geometry of the head piercing use is possible
	Alloyed tool steel		Not appropriate for hardwood. Limited fit for hardwood is our product line 1607
	2200 - 4000 min-1. e.g. Ø 16 mm 2200 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1410


 Profi

Auger bit, Lewis pattern


 FAMAG®
...für Besserbohrer®


OAL 235mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.205	5	4,5	235	160	12,00
1410.206	6	5,5	235	160	12,00
1410.207	7	6,5	235	160	12,00
1410.208	8	7,8	235	160	12,00
1410.209	9	8	235	160	12,00
1410.210	10	9,8	235	160	12,00
1410.211	11	9,8	235	160	12,50
1410.212	12	11,8	235	160	12,50
1410.213	13	12,8	235	160	13,70
1410.214	14	13	235	160	13,70
1410.215	15	13	235	160	14,60
1410.216	16	13	235	160	14,60
1410.217	17	13	235	160	16,05
1410.218	18	13	235	160	16,05
1410.219	19	13	235	160	17,75
1410.220	20	13	235	160	17,75
1410.222	22	13	235	160	21,15
1410.224	24	13	235	160	22,90
1410.225	25	13	235	160	26,35
1410.226	26	13	235	160	26,35
1410.228	28	13	235	160	29,45
1410.230	30	13	235	160	32,35
1410.232	32	13	235	160	41,80
1410.234	34	13	235	160	60,90
1410.235	35	13	235	160	68,10
1410.236	36	13	235	160	66,60
1410.238	38	13	235	160	80,95
1410.240	40	13	235	160	90,65
1410.245	45	13	235	160	122,00
1410.250	50	13	235	160	160,80

OAL 320mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.305	5	4,5	320	255	15,45
1410.306	6	5,5	320	255	15,45
1410.307	7	6,5	320	255	15,45
1410.308	8	7,8	320	255	15,45
1410.309	9	8	320	255	15,45
1410.310	10	9,8	320	255	15,45
1410.311	11	9,8	320	255	16,95
1410.312	12	11,8	320	255	16,95
1410.313	13	12,8	320	255	18,25
1410.314	14	13	320	255	18,25
1410.315	15	13	320	255	20,75
1410.316	16	13	320	255	20,75
1410.317	17	13	320	255	21,85
1410.318	18	13	320	255	21,85
1410.319	19	13	320	255	25,40
1410.320	20	13	320	255	25,40
1410.322	22	13	320	255	30,50
1410.324	24	13	320	255	31,30
1410.325	25	13	320	255	35,30
1410.326	26	13	320	255	35,30
1410.328	28	13	320	255	39,25
1410.330	30	13	320	255	42,30
1410.332	32	13	320	255	58,45
1410.334	34	13	300	220	82,90
1410.335	35	13	300	220	92,40
1410.336	36	13	300	220	92,40
1410.338	38	13	300	220	122,00
1410.340	40	13	300	220	139,05
1410.345	45	13	300	220	182,55
1410.350	50	13	300	220	235,70

OAL 460mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.405	5	4,5	460	380	20,45
1410.406	6	5,5	460	380	20,45
1410.407	7	6,5	460	380	20,45
1410.408	8	7,8	460	380	20,45
1410.409	9	8	460	380	20,45
1410.410	10	9,8	460	380	20,45
1410.411	11	9,8	460	380	21,00
1410.412	12	11,8	460	380	21,00
1410.413	13	12,8	460	380	24,75
1410.414	14	13	460	380	24,75
1410.415	15	13	460	380	27,85
1410.416	16	13	460	380	27,85
1410.417	17	13	460	380	29,60
1410.418	18	13	460	380	29,60
1410.419	19	13	460	380	32,35
1410.420	20	13	460	380	32,35
1410.421	21	13	460	380	40,40
1410.422	22	13	460	380	40,40
1410.423	23	13	460	380	43,10
1410.424	24	13	460	380	43,95
1410.425	25	13	460	380	49,80
1410.426	26	13	460	380	49,80
1410.427	27	13	460	380	55,30
1410.428	28	13	460	380	55,30
1410.430	30	13	460	380	56,60
1410.432	32	13	460	380	73,35
1410.434	34	13	450	380	112,15
1410.435	35	13	450	380	116,95
1410.436	36	13	450	380	114,90
1410.438	38	13	450	380	158,25
1410.440	40	13	450	380	182,55
1410.445	45	13	450	380	240,40
1410.450	50	13	450	380	310,40

OAL 650mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.608	8	7,8	650	535	27,95
1410.609	9	8	650	535	27,95
1410.610	10	9,8	650	535	27,95
1410.611	11	9,8	650	535	28,85
1410.612	12	11,8	650	535	28,85
1410.613	13	12,8	650	535	35,00
1410.614	14	13	650	535	35,00
1410.615	15	13	650	535	39,20
1410.616	16	13	650	535	39,20
1410.617	17	13	650	535	41,90
1410.618	18	13	650	535	41,90
1410.619	19	13	650	535	47,80
1410.620	20	13	650	535	47,80
1410.621	21	13	650	535	56,40
1410.622	22	13	650	535	56,40
1410.624	24	13	650	535	59,80
1410.625	25	13	650	535	67,35
1410.626	26	13	650	535	67,35
1410.628	28	13	650	535	74,85
1410.630	30	13	650	535	82,95
1410.632	32	13	650	535	102,65
1410.634	34	13	650	535	144,15
1410.635	35	13	650	535	151,35
1410.636	36	13	650	535	148,70
1410.638	38	13	650	535	204,15
1410.640	40	13	650	535	235,70
1410.645	45	13	650	535	310,40
1410.650	50	13	650	535	399,80

OAL 1080 mm, Spiral length 1010 mm:

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	Spiral l. [mm]	€
1410.014	14	13	1080	1010	113,10
1410.016	16	13	1080	1010	123,80
1410.018	18	13	1080	1010	136,20
1410.020	20	13	1080	1010	144,85
1410.022	22	13	1080	1010	163,70
1410.024	24	13	1080	1010	179,25
1410.026	26	13	1080	1010	198,10
1410.028	28	13	1080	1010	212,60
1410.030	30	13	1080	1010	239,55
1410.032	32	13	1080	1010	256,25

OAL 1.000mm



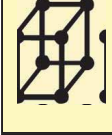



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.112	12	12	1000	380	86,95
1410.114	14	13	1000	380	86,95
1410.115	15	13	1000	380	89,85

OAL 1.000mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.116	16	13	1000	380	89,85
1410.118	18	13	1000	380	91,40
1410.120	20	13	1000	380	94,15
1410.122	22	13	1000	380	100,40
1410.124	24	13	1000	380	103,60
1410.125	25	13	1000	380	113,15
1410.126	26	13	1000	380	113,00
1410.128	28	13	1000	380	119,55
1410.130	30	13	1000	380	119,55
1410.132	32	13	1000	380	133,90
1410.134	34	13	1000	535	159,30
1410.135	35	13	1000	535	166,50
1410.136	36	13	1000	535	166,50
1410.138	38	13	1000	535	227,95
1410.140	40	13	1000	535	264,10
1410.145	45	13	1000	535	347,35
1410.150	50	13	1000	535	452,10

Sets

Order No.	Description	€
1410.200	8 pcs. Set in wooden case with OAL 235 mm. Ø 6, 8, 10, 12, 14, 16, 18 and 20 mm	99,25
1410.201	6 pcs. Set in wooden case with OAL 235 mm. Ø 10, 12, 14, 16, 18 and 20 mm	77,70
1410.300	6 pcs. Set in wooden case with OAL 320 mm. Ø 10, 12, 14, 16, 18 and 20 mm	106,65
1410.400	6 pcs. Set in wooden case with OAL 460 mm. Ø 10, 12, 14, 16, 18 and 20 mm	140,20
1410.600	6 pcs. Set in wooden case with OAL 650 mm. Ø 10, 12, 14, 16, 18 and 20 mm	198,65
1410.303	8 pcs. Set in wooden case with OAL 320 mm. Ø 10, 12, 14, 16, 18, 20, 22 und 24 mm	161,80
1410.403	8 pcs. Set in wooden case with OAL 460 mm. Ø 10, 12, 14, 16, 18, 20, 22 and 24 mm	216,10

	"Lewis" pattern, milled version relief ground by robots, screw threading centre point, main edge and cutting lips of premium quality. HEX shank from Ø 8mm		For boring deep holes in softwood and European hardwood with power drill and joinery machine. < Ø 24 mm can also be used with cordless screw driver
	Alloyed tool steel		Due to the precise production of the auger bits they can also be used for boring exact holes for stud bolts. For hardwood we recommend our profi product line 1493
	500 - 2800 min-1. e.g. Ø 12 mm 2000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube up to Ø 36 mm and whole length 650 mm. EAN



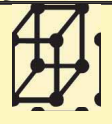


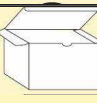
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 Profi

Auger bit, Lewis pattern


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Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1410.461	11,5	11,5	460	400	26,40
1410.463	13,5	12	460	400	33,85
1410.465	15,5	12	460	400	36,50
1410.467	17,5	12	460	400	42,10
1410.469	19,5	12	460	400	47,05
1410.471	21,5	12	460	400	55,75
1410.473	23,5	12	460	400	64,35

	"Lewis" pattern, milled version relief ground by robots, screw threading centre point, main edge and cutting lips of premium quality. Shank with 3 clamping surfaces		For boring perfectly fitting holes which are slightly smaller than the nominal diameter. Thus tight fit of the stud bolt in wood is guaranteed
	Alloyed tool steel		When an especially tight fit is required
	1500 - 2500 min-1. e.g. Ø 13,5 mm 2000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1411



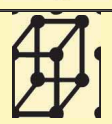


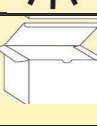

 Profi

Countersink for Auger bits 180°


FAMAG
 ...für Besserbohrer®


Order No.	O-Ø [mm]	lØ [Inch]	OAL [mm]	NL	€
1411.040	40	13	30	30	67,50
1411.050	50	13	30	30	78,60
1411.060	60	13	30	30	100,50
1411.070	70	13	30	30	131,70

Order No.	Description	€
1411.200	Combination Set augerbit/ countersink, OAL 235mm, Augerbits 14-16-18 mm and countersinks Ø 40-50-60 mm	260,50
1411.300	Combination Set augerbit/ countersink, OAL 320mm, Augerbits 14-16-18 mm and countersinks Ø 40-50-60 mm	275,65
1411.400	Combination Set augerbit/ countersink, OAL 460mm, Augerbits 14-16-18 mm and countersinks Ø 40-50-60 mm	294,30

	Versions with 2 roughing taps and 2 main edges and center hole Ø 13 mm. With lateral attachment screw for fixing on the shanks of FAMAG auger bits		To fit on FAMAG auger bits with shank Ø 13 mm. Boring and counterboring in a single operation. Recommended for softwood
	Alloyed tool steel		Can be used universally on all FAMAG auger bits with shank Ø 13 mm
	500 - 800 min-1. e.g. Ø 40 mm 800 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-box. EAN

1420

Profi

Special auger bit for joinery machines



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1420.412	12	12	460	400	30,55
1420.413	13	13	460	400	36,20
1420.414	14	13	460	400	36,20
1420.415	15	13	460	400	40,10
1420.416	16	13	460	400	40,10
1420.417	17	13	460	400	41,95
1420.418	18	13	460	400	41,95
1420.419	19	13	460	400	45,80
1420.420	20	13	460	400	45,80
1420.421	21	13	460	400	58,10
1420.422	22	13	460	400	58,10
1420.424	24	13	460	400	61,85
1420.425	25	13	460	400	70,40
1420.426	26	13	460	400	70,40
1420.428	28	13	460	400	76,15
1420.430	30	13	460	400	78,10
1420.432	32	13	460	400	99,05

Sets

Order No.	Description	€
1420.400	6 pcs. set in wooden case. Ø 12 ,14 ,16 ,18, 20 and 22 mm	227,15

	<p>Premium one edged auger bit with special ground bevelled tip and very dimensionally stable spirals. Premium coating to ensure minimal friction</p>		<p>For boring into all softwoods at joinery machines. Due to the spiral's especially stable geometry it is also possible to bore exactly to thick joists. Tight fit of stud bolts by permissible minimum dimension of the Ø of the auger bit</p>
	<p>Alloyed tool steel</p>		<p>Due to the head's special geometry it is especially applicable for boring in planed or finished glued laminated timber. Entry and exit of the borer are considerably cleaner than with an usual auger bit</p>
	<p>2800 - 3600 min-1. e.g. Ø 18 mm 2800 min-1 in construction wood</p>		<p>Packing unit = 1. Rose-tube. EAN</p>



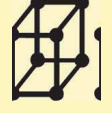





OAL 480 mm

Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Spiral l. [mm]	€
1492.410	10	MK 2	480	380	60,60
1492.412	12	MK 2	480	380	60,60
1492.414	14	MK 2	480	380	67,60
1492.416	16	MK 2	480	380	69,35
1492.418	18	MK 2	480	380	69,35
1492.420	20	MK 2	480	380	69,35
1492.422	22	MK 2	480	380	78,80
1492.424	24	MK 2	480	380	87,50

OAL 680 mm

Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Spiral l. [mm]	€
1492.610	10	MK 2	680	550	88,40
1492.612	12	MK 2	680	550	88,40
1492.614	14	MK 2	680	550	92,35
1492.616	16	MK 2	680	550	101,95
1492.618	18	MK 2	680	550	101,95
1492.620	20	MK 2	680	550	108,65
1492.622	22	MK 2	680	550	113,95
1492.624	24	MK 2	680	550	122,25
1492.626	26	MK 2	680	550	135,45

	"Lewis" pattern with brad point, main edge and roughing tap, morse taper shank no. 2		For boring precisely fitting holes into all European solid woods. For joinery machines taking up MK 2
	Alloyed tool steel		For hard wood and exotic hard wood like Bongossi we recommend the auger bit with knife (type 1493) of our product line. Greater diameters can be combined with our product line 1410/1493 and MK2-fix adapter (type 1488)
	1250 - 2500 min-1. e.g. Ø 22 mm 1500 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1494

○○○○
Premium

Auger bit carbide tipped



Order No.	O-Ø [mm]	SØ [Ø]	OAL [mm]	Spiral l. [mm]	€
1494.414	14	12	460	400	59,00
1494.416	16	12	460	400	66,70
1494.418	18	12	460	400	70,60
1494.419	19	12	460	400	76,95
1494.420	20	12	460	400	76,95
1494.424	24	12	460	400	104,75
1494.425	25	12	460	400	104,75

Spare part: crest of thread or triangular

Order No.	Description	O-Ø [mm]	€
1494.903	crest of thread for Ø 7 - 14 mm	3	6,65
1494.901	crest of thread for Ø 16 - 18 mm	4	6,65
1494.902	crest of thread for Ø 20 - 24 mm	5	6,65
1494.906	Triangular for Ø 7 - 14 mm	3	6,65
1494.905	Triangular for Ø 16 - 18 mm	4	6,65
1494.904	Triangular for Ø 20 - 24 mm	5	6,65



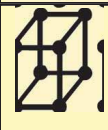


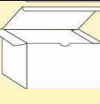
	<p>Specially formed channel for removing chips, teflon-coated, changeable loadscrew HSS, two carbide tipped main edges, protruding cutting edges and parallel shank with 3 clamping surfaces. Ground by diamond wheels on CNC-machines</p>		<p>For boring precisely fitting holes to hardwood. For exotic hardwood like Bongossi we recommend auger bit 1493. Also applicable with a powerful joinery machine for boring cross-grained hardwood</p>
	<p>High quality carbide tipping, changeable crest of thread HSS</p>		<p>Unbelievably endurant to hardwood. For boring in cross-grained hardwood (Ø 20 mm) the machine should have a turning moment of 50 NM</p>
	<p>1750 - 3000 min-1. e.g. Ø 18 mm 2250 min-1 in Europe hardwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube. EAN</p>



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
1493.408	8	8	460	380	32,65
1493.410	10	10	460	380	32,65
1493.412	12	12	460	380	33,60
1493.414	14	13	460	380	39,55
1493.416	16	13	460	380	44,70
1493.418	18	13	460	380	47,35
1493.420	20	13	460	380	51,75
1493.422	22	13	460	380	64,45
1493.424	24	13	460	380	70,35
1493.426	26	13	460	380	79,70
1493.428	28	13	460	380	88,40
1493.430	30	13	460	380	90,45

Order No.	Description	€
1493.400	6 pcs. in wooden case. Ø 10, 12, 14, 16, 18 and 20 mm	224,40



	"Lewis" pattern with rough brad point, main edge and bottom blade		For boring deep holes into all hardwoods and also into Bongossi
	Alloyed tool steel		Low heat development and therefore long endurance due to the special knife. For boring into softwood we recommend version 1410
	700 - 2250 min-1. e.g. Ø 12 mm 1500 min-1 in Europe hardwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1488/89

Profi

Special Adapter



Kombifix version

Order No.	I-Ø [mm]	Shank type [mm]	OAL [mm]	UL [mm]	€
1489.001	MK 1	10	110	90	55,85
1489.002	MK 2	13	130	100	59,00

ZB-fix version

Order No.	I-Ø [mm]	Shank type [mm]	OAL [mm]	UL [mm]	€
1489.613	13	ZB	120	60	60,80

MK 2-fix version



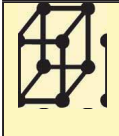


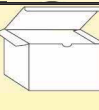
Order No.	I-Ø [mm]	Shank type [mm]	OAL [mm]	UL [mm]	€
1488.210	10	MK 2	120	40	42,80
1488.213	13	MK 2	120	40	42,80



	Adapter, external MK2 or Mafell-ZB (inside cylindrical) with two attachment screws. Kombi-Fix inside MK, external cylindrical hexagon
	For joinery machines taking up MK2/Mafell-ZB so that cylindrical borers can be held. For all FAMAG cylinder boring bits and auger bits, etc.
	Alloyed tool steel
	With this adapter it is possible to use low-price borers with parallel shank for machines using MK2/Mafell-ZB
	find recommended r.p.m. at the corresponding tools
	Packing unit = 1. Rose-tube. EAN



Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1014.608	8	600	550	21,50
1014.610	10	600	550	21,50
1014.612	12	600	550	23,15
1014.614	14	600	550	24,35
1014.616	16	600	550	26,40
1014.618	18	600	550	29,30
1014.620	20	600	550	32,25
1014.622	22	600	550	35,40
1014.624	24	600	550	38,95
1014.626	26	600	550	42,75
1014.628	28	600	550	46,70
1014.630	30	600	550	51,50
1014.632	32	600	550	56,35
1014.634	34	600	550	71,25
1014.636	36	600	550	80,45
1014.638	38	600	550	92,00
1014.640	40	600	550	103,20

	"Lewis" pattern, with threaded point, one main edge and one roughing tap. With lug for wooden handle		For boring deep holes in softwood (depending on the diameter) and also limited to European hardwood
	Alloyed tool steel		Use beech handles.
	show what you can		Packing unit = 1. Yellow cardboard tube. EAN

1403/

Premium

Drill Rig for Auger bits



rigidly coupled version

Order No.	Fixture	Drill bushing plate	for drill length [mm]	Drilling depth [mm]	max. clamping		Foot measure outside [mm]	Foot measure inside [mm]	OAL [mm]	€
					width [mm]	width [mm]				
D 1403.320	-	inkl.	320	190	-	-	200 x 150	155 x 100	~490	288,00
D 1403.322	inkl.	inkl.	320	190	0 - 90	-	200 x 150	155 x 100	~490	361,05
D 1403.460	-	inkl.	460	310	-	-	200 x 150	155 x 100	~630	288,00
D 1403.462	inkl.	inkl.	460	310	0 - 90	-	200 x 150	155 x 100	~630	361,05
D 1403.650	-	inkl.	650	460	-	-	200 x 150	155 x 100	~810	288,00
D 1403.652	inkl.	inkl.	650	460	0 - 90	-	200 x 150	155 x 100	~810	361,05

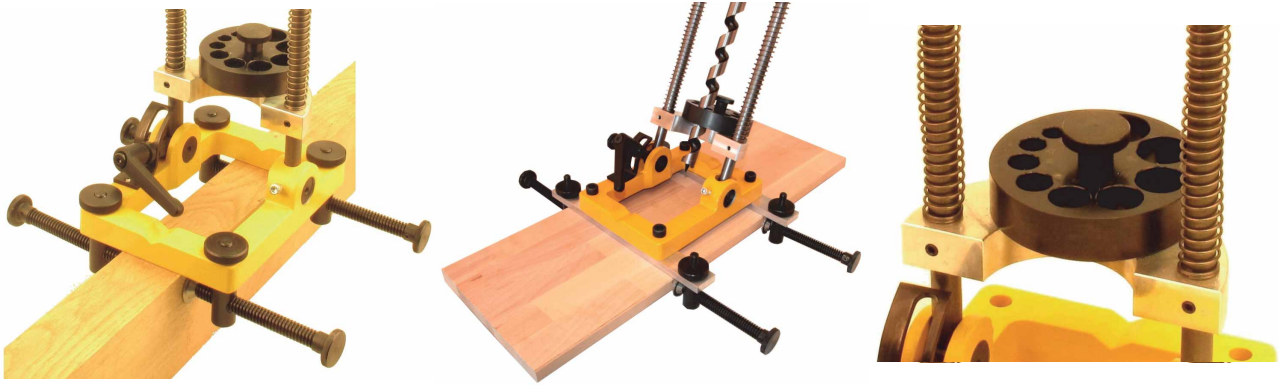
pivoting version

Order No.	Fixture	Drill bushing plate	for drill length [mm]	Drilling depth [mm]	max. clamping		Foot measure outside [mm]	Foot measure inside [mm]	OAL [mm]	€
					width [mm]	width [mm]				
D 1404.320	-	inkl.	320	160	-	-	200 x 150	155 x 100	~490	452,10
D 1404.322	inkl.	inkl.	320	160	0 - 90	-	200 x 150	155 x 100	~490	524,45
D 1404.460	-	inkl.	460	250	-	-	200 x 150	155 x 100	~630	452,10
D 1404.462	inkl.	inkl.	460	250	0 - 90	-	200 x 150	155 x 100	~630	524,45
D 1404.650	-	inkl.	650	430	-	-	200 x 150	155 x 100	~810	452,10
D 1404.652	inkl.	inkl.	650	430	0 - 90	-	200 x 150	155 x 100	~810	524,45

rigidly coupled small version

Order No.	Fixture	Drill bushing plate	for drill length [mm]	Drilling depth [mm]	max. clamping		Foot measure outside [mm]	Foot measure inside [mm]	OAL [mm]	€
					width [mm]	width [mm]				
D 1405.210	-	-	max. 240	210	-	-	Ø 150	Ø 90	~330	172,95
D 1405.320	-	-	max. 350	320	-	-	200 x 150	155 x 100	~490	224,35

	With additional handle, two continuously adjustable bit stops, two spiral springs for drawing back the power drill and with adjustable plate for the drill bush so that precise boring is possible		Precise drilling in set angle 90° (fix model). The pivoted version can pivot through to 45°. Additional guidance by drill bushing plates. Easy drawing back of the power drill by spiral springs
	Tool holder of aluminium cast		For power drills 43 mm. For borers Ø 8, 10, 12, 14, 16, 18, 20, 22, 24, 26 mm. Version with two solid guide rods
			Packing unit = 1. Cardboard. EAN









Accessory

Order No.	Description	max. clamping width [mm]	€
D 1402.000	Fixture	0 - 90	76,15
D 1402.901	Tails for broadening	200	40,00
D 1400.932	Spring set for drill stand 320mm		18,70
D 1400.946	Spring set for drill stand 460mm		18,70
D 1400.965	Spring set for drill stand 650mm		18,70

Bohrbuchsenteller

Order No.	Description	€
D 1400.903	with 10 bores, Ø 8, 10, 12, 14, 16, 18, 20, 22, 24 and 26 mm	42,45
D 1400.904	with 10 bores, Ø 6, 7, 8, 9, 10, 11, 13, 15, 17, 19 mm	42,45

	Fixture (1402.000): composed of 4 clamping devices, browned, stable version. broadening rails (1402.901): aluminium. Drill bushing plate (1400.904): with 10 boreholes for auger bits 6, 7, 8, 9, 10, 11, 13, 15, 17, 19 mm. Drill bushing plate.		1402.000: mountable to all FAMAG drill rigs with square foot. 1402.901: mountable to all FAMAG drill rigs with square foot, with and without fixture. 1400.904: especially for boring holes for rafter nails and intermediate sizes. 1400.903: adjustable drill
	1402.000: steel. 1402.901: aluminium. 1400.904: steel. 1400.903: steel		1402.901: particular beamy workpieces can be gripped as well. 1400.904: Easy mounting alleviates swapping of the plates
			Packing unit = 1. Cardboard. EAN

1406



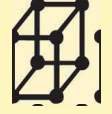





Premium

Drill Rig for stairs building

FAMAG®
... für Besserbohrer®


Order No.	Fixture	for drill length [mm]	Drilling depth [mm]	max. clamping width [mm]	Foot measure outside [mm]	Foot measure inside [mm]	OAL [mm]	€
D 1406.320		max. 350	320		200 x 150	155 x 100	~490	288,00
D 1406.322	inkl.	max. 350	320	0 - 90	200 x 150	155 x 100	~490	361,05

	With additional handle, continuously adjustable bit stop and pivoting range up to 45°. Easy locking by clamping lever		Precise drilling in set angle 90° - 45° especially for the construction of stairs. Accurate holes through stable guidance of the drill
	Tool holder of cast aluminium		By pivoting fixture also for curved cheeks applicable. For staircase > 45° please use a shim.
			Packing unit = 1. Cardboard. EAN

1575






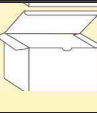


Profi

Machine Drill for construction of stairs

FAMAG®
... für Besserbohrer®


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	CPL [mm]	€
1575.010	10	13×50	160	85	11	58,50
1575.012	12	13×50	170	100	12	58,50
1575.013	13	13×50	180	110	13	61,35
1575.014	14	13×50	180	105	13	61,35
1575.015	15	13×50	190	120	14	67,75
1575.016	16	13×50	190	120	14	67,75
1575.018	18	13×50	200	130	15	74,05
1575.020	20	13×50	210	135	16	83,95
1575.022	22	13×50	220	140	18	115,15
1575.024	24	13×50	240	160	19	143,45
1575.025	25	13×50	240	170	19	161,20
1575.026	26	13×50	240	160	20	178,15
1575.028	28	13×50	250	180	21	190,85
1575.030	30	13×50	250	180	23	209,35

	Drill bit with extra long brad point (ground three-edged), two main edges, two roughing taps, four spiral grooves		For boring paling fences into stringers or handrails of staircases. Only limitedly recommended for hardwood
	Tool steel		Better results with the three-edged than by using the four-edged brad point. For hardwood we recommend the TCT-Bormax ³ 1663 combined with a drill rig
	800 - 2500 min-1. e.g. Ø 16 mm 2000 min-1 in softwood		Packing unit = 1. Rose-tube. EAN



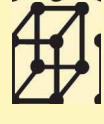


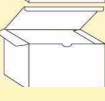


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1594.020	2,0	2,0	49	22	6,95
1594.025	2,5	2,5	57	25	6,95
1594.030	3,0	3,0	60	33	5,55
1594.035	3,5	3,5	70	39	6,00
1594.040	4,0	4,0	75	43	6,00
1594.045	4,5	4,5	80	47	6,30
1594.050	5,0	5,0	85	52	6,30
1594.055	5,5	5,5	92	57	6,60
1594.060	6,0	6,0	92	57	6,60
1594.065	6,5	6,5	100	63	7,75
1594.070	7,0	7,0	108	69	8,10
1594.075	7,5	7,5	108	69	9,25
1594.080	8,0	8,0	115	75	8,95
1594.085	8,5	8,5	115	75	9,95
1594.090	9,0	9,0	125	81	10,85
1594.095	9,5	9,5	125	81	12,15
1594.100	10,0	10,0	130	87	12,35
1594.105	10,5	10,5	130	87	17,55
1594.110	11,0	11,0	140	94	16,05
1594.115	11,5	11,5	140	94	20,60
1594.120	12,0	12,0	150	101	19,15
1594.125	12,5	12,5	150	101	23,25
1594.130	13,0	13,0	150	101	20,60
1594.135	13,5	13,0	160	108	29,90
1594.140	14,0	13,0	160	108	28,35
1594.145	14,5	13,0	168	114	32,90
1594.150	15,0	13,0	168	114	32,20
1594.155	15,5	13,0	176	120	39,90
1594.160	16,0	13,0	176	120	35,45
1594.162	16,2	13,0	200	140	46,45
1594.165	16,5	13,0	180	120	46,45
1594.180	18,0	13,0	190	130	43,60
1594.190	19,0	13,0	192	132	48,05
1594.200	20,0	13,0	200	140	50,80

Sets

Order No.	Description	€
1594.805	5 pcs. in an blister. Ø 3, 4, 5, 6 and 8 mm	30,20
3575.505	6 pcs. Set in wooden case. Drill bits 1594 Ø 3, 4, 5, 6, 8 mm & countersink 2202 (90°)	61,10
1594.507	7 pcs. in wooden case: Ø 3, 4, 5, 6, 8, 10, 12 mm	67,65
1594.510	10 pcs. in wooden case. Ø 3, 4, 5, 6, 8, 10, 12, 13, 14 and 16 mm	144,50
1594.819	19 pcs. in Rose plastic box. Ø 1 - 10 mm, 0,5 mm steps	127,70
1594.825	25-pcs. in Rose plastic-box Ø 1 - 13 mm, 0,5 mm steps	227,15



	Premium version of fully ground quality with two main edges and two cutting lips. Special internally ground spiral for very good chip removal. Ground by robots on CNC-machines		For exact drilling into all wooden materials, hardwood and laminated boards. Shank constructed for drill chuck Ø 13 mm
	HSS-G		Premium quality at a fair price. Specially designed chip flutes guarantee good chip removal
	2400 - 8000 min-1. e.g. Ø 4 mm 5000 min-1 in Europe hardwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1595

○○○○
Premium

Machine Drill with brad point and cutting lips, left direction



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1595.020	2,0	2,0	49	22	12,45
1595.025	2,5	2,5	57	25	12,45
1595.030	3,0	3,0	60	33	10,50
1595.035	3,5	3,5	70	39	11,20
1595.040	4,0	4,0	75	43	11,20
1595.045	4,5	4,5	80	47	11,95
1595.050	5,0	5,0	85	52	11,95
1595.060	6,0	6,0	92	57	12,65
1595.070	7,0	7,0	108	69	14,50
1595.080	8,0	8,0	115	75	15,60
1595.090	9,0	9,0	125	81	19,50
1595.100	10,0	10,0	130	87	21,00

	<p>First class version left hand cut, fully ground quality with two main edges and two cutting lips. Internally ground special spiral for very good chip removal, ground by robots on CNC-machines</p>		<p>For exact drilling into all wooden materials, hardwood and laminated boards. Shank constructed for drill chuck Ø 13 mm. Left hand cut</p>
	<p>HSS-G</p>		<p>Premium quality at a fair price. Specially designed chip flutes guarantee good chip removal</p>
	<p>3000 - 8000 min-1. e.g. Ø 5 mm 4500 min-1 in Europe hardwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube. EAN</p>





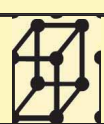



OAL 150 mm					
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1599.103	3	3	150	100	12,00
1599.104	4	4	150	100	12,00
1599.105	5	5	150	100	12,65
1599.106	6	6	150	100	13,45
1599.107	7	7	150	100	17,45
1599.108	8	8	150	100	17,45
1599.109	9	9	150	100	18,50
1599.110	10	10	150	100	20,25
1599.111	11	11	150	100	22,95

OAL 250 mm					
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1599.203	3	3	250	200	17,25
1599.204	4	4	250	200	17,25
1599.205	5	5	250	200	19,70
1599.206	6	6	250	200	22,05
1599.207	7	7	250	200	28,45
1599.208	8	8	250	200	28,45
1599.209	9	9	250	200	31,75
1599.210	10	10	250	200	34,55
1599.211	11	11	250	200	39,85
1599.212	12	12	250	200	43,85
1599.213	13	13	250	200	46,55
1599.214	14	13	250	200	50,40
1599.215	15	13	250	200	57,85
1599.216	16	13	250	200	63,75

OAL 315 mm					
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1599.303	3	3	315	250	22,50
1599.304	4	4	315	250	22,50
1599.305	5	5	315	250	25,65
1599.306	6	6	315	250	28,70
1599.307	7	7	315	250	37,00
1599.308	8	8	315	250	37,00
1599.309	9	9	315	250	41,25
1599.310	10	10	315	250	44,95
1599.311	11	11	315	250	51,70
1599.312	12	12	315	250	57,05
1599.313	13	13	315	250	60,50
1599.314	14	13	315	250	66,60
1599.315	15	13	315	250	77,50
1599.316	16	13	315	250	90,30

OAL 400 mm					
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1599.403	3	3	400	300	29,25
1599.404	4	4	400	300	29,25
1599.405	5	5	400	300	33,30
1599.406	6	6	400	300	37,30
1599.407	7	7	400	300	48,05
1599.408	8	8	400	300	48,05
1599.409	9	9	400	300	53,65
1599.410	10	10	400	300	58,40
1599.411	11	11	400	300	67,15
1599.412	12	12	400	300	74,15
1599.413	13	13	400	300	78,65
1599.414	14	13	400	300	86,55
1599.415	15	13	400	300	100,75
1599.416	16	13	400	300	117,30

Sets		
Order No.	Description	€
1599.507	7 pcs. Set in wooden case: GL 250 mm, NL 200 mm. Ø 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 mm	162,25
1599.510	10 pcs. Set in wooden case: GL 150 mm, NL 100 mm. Ø 3, 4, 5, 6, 8, 10, 12 mm	145,15

	First class version extra long, fully ground quality with two main edges and two cutting lips. Internally ground special spiral for very good chip removal, ground by robots on CNC-machines
	For exact drilling in all wooden materials, hardwood and laminated boards. Special designed chip flutes guarantee good chip removal.
	HSS-G
	Premium quality at a fair price. Due to the specially designed chip flutes it is ideal for drilling deep holes
	2500 - 4000 min-1. e.g. Ø 5 mm 4000 min-1 in Europe hardwood. small Ø with long OAL use with less speed
	Packing unit = 1. Rose-tube. EAN

2470

○○○○
Premium

Special drill for wood and metal, HSS-G

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Order No.	Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2470.308	8	8	300	240	89,35
2470.310	10	10	300	240	95,05
2470.312	12	12	300	240	125,80
2470.316	16	13	340	280	153,70
2470.320	20	13	340	280	195,60

	Spiral drill for wood and metal, fully ground and with special brad point. Special ground spiral for very good chip removal and high rigidity. Ground by CNC-machines.		For extremely dimensionally accurate holes in metal-wood connections. Thanks to the specially designed spiral it is possible to receive a good chip removal and the best results in deep holes.
	HSS-G		For very good results, use the recommended speed. Please do not work at low speeds because the spiral form can cause a forward spin, which can easily reach the breaking point.
	1000 - 1500 min-1, e.g. Ø 8 mm, 2000 min-1		Packing unit = 1. PE tube. EAN

1591

○○
Classic

Mashine Drill with brad point, HSS

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...für Besserbohrer®



Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	NL [mm]	€
1591.030	3	3	61	33	4,40
1591.040	4	4	75	43	4,50
1591.050	5	5	86	52	4,75
1591.060	6	6	93	57	4,95
1591.070	7	7	109	69	5,55
1591.080	8	8	117	75	5,80
1591.090	9	9	125	80	6,45
1591.100	10	10	133	87	6,80
1591.110	11	10	142	89	8,50
1591.120	12	10	151	96	10,30
1591.130	13	10	151	96	11,90
1591.140	14	10	151	96	14,50
1591.150	15	10	160	100	16,80
1591.160	16	10	160	100	19,35
1591.180	18	10	180	130	27,85
1591.200	20	10	200	140	32,65

Order No.	Description	€
1591.805	5 pcs. In an blister: Ø 3, 4, 5, 6, 8 mm	21,90
1591.507	7 pcs. In wooden case: Ø 3, 4, 5, 6, 8, 10, 12 mm	39,95
1591.511	11 pcs. In wooden case: Ø 3, 4, 5, 6, 8, 10, 12, 13, 14, 15, 16 mm	99,95

	With center point, 2 main cutters and 2 roughing taps. Cylindrical shank up to Ø 10 mm, ≥ Ø 10 mm with Shank-Ø 10 mm.		For accurate borings in soft wood, European hard woods, chipboards as well as MDF panels. Ideal use in cordless screwdriver in softwood
	HSS		The cost-effective wood spiral drill with roughing taps. For higher standards we recommend our line 1594 in HSS-G with roughing taps.
	2400-8000 min-1 e.g. Ø 4 mm 5000 min-1 in European hardwood. Please see speed diagrams in "information".		VE = 1 SB in rose tube. EAN

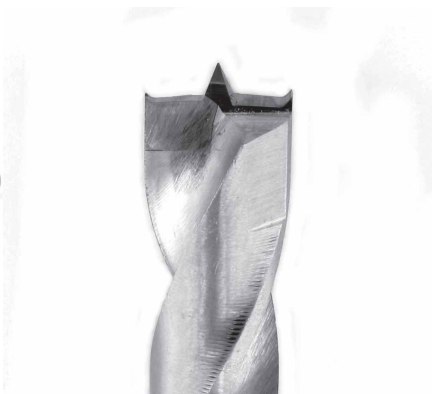
1593



Profi

Machine Drill with brad point and cutting lips carbide tipped



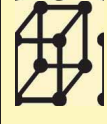


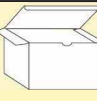


...für Besserbohrer®


Order No.	O-Ø [mm]	SØ [Ø]	OAL [mm]	NL [mm]	€
1593.030	3	3	58	30	17,40
1593.040	4	4	72	40	17,40
1593.050	5	5	83	49	18,10
1593.060	6	6	90	54	19,45
1593.070	7	7	106	66	21,30
1593.080	8	8	114	72	21,30
1593.090	9	9	122	78	26,80
1593.100	10	10	130	84	26,80
1593.110	11	11	139	91	30,15
1593.120	12	12	148	98	30,15

Sets

Order No.	Description	€
1593.805	5 pcs. Set in an blister: Ø 3, 4, 5, 6, 8 mm	84,25
3575.507	7 pcs. Set in wooden case 1593 Ø 3, 4, 5, 6, 8 mm + 2202 VARIO countersink 90°	115,25
1593.507	7 pcs. Set in wooden case: Ø 3, 4, 5, 6, 8, 10, 12 mm	135,45
1593.510	10 pcs. Set in wooden case: Ø 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 mm	205,85

	Cylindrical carbide tipped machine drill with brad point, two main edges, two cutting lips		For exact drilling into hardwood (European and exotic), laminated chipboards and plastics
	High quality carbide tipping		Professional tool at a fair price with an unbelievably endurance. Top for freehand drilling and also stationary use. Boring and countersinking can be used in combination with countersink VARIO 2202.
	4.000 - 10.000 min-1. e.g. Ø 5 mm 8.000 min-1 in europ. hardwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

3500

 Hobby

Machine Drill with brad point



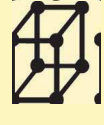


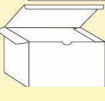
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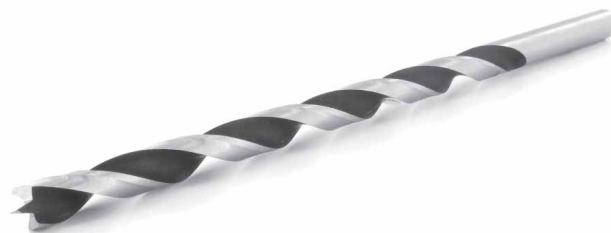


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
3500.030	3	3	61	33	2,40
3500.040	4	4	75	43	2,70
3500.050	5	5	86	52	2,95
3500.060	6	6	93	57	3,05
3500.070	7	7	109	69	3,15
3500.080	8	8	117	75	3,50
3500.090	9	9	120	80	4,05
3500.100	10	10	129	87	4,20
3500.110	11	10	142	89	5,30
3500.120	12	10	151	96	5,65
3500.130	13	10	151	96	6,65
3500.140	14	10	151	96	7,05
3500.150	15	10	160	100	7,75
3500.160	16	10	160	100	8,25
3500.180	18	10	180	130	14,60
3500.200	20	10	200	140	19,40
3500.220	22	13	210	140	21,30
3500.240	24	13	215	140	23,45
3500.250	25	13	215	140	25,65
3500.260	26	13	215	145	25,65
3500.280	28	13	220	145	27,45
3500.300	30	13	220	145	29,90



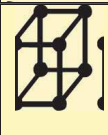


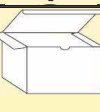
Sets

Order No.	Description	€
3501.505	5 pcs. Set in plastic box. Ø 4, 5, 6, 8 and 10 mm	11,35
3501.508	8 pcs. Set in plastic box. Ø 3, 4, 5, 6, 7, 8, 9 and 10 mm	16,50
3500.515	15 pcs. Set in wooden case. Ø 3, 4, 5, 6, 8, 10 mm with a depth adjusting collar+ 16 mm HSS machine countersink	51,65

	With brad point, two main edges and protruding cutting edges		For exact drilling into softwood and some European hardwood
	Chrome vanadium steel		The low-cost machine drill . For higher demands we recommend our product line 1594 HSS-G
	1000 - 5000 min-1. e.g. Ø 5 mm 5000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. PE bag. EAN



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
3491.006	6	6	250	190	8,25
3491.008	8	8	250	190	8,80
3491.010	10	10	250	190	10,60
3491.012	12	10	250	190	12,55
3491.014	14	10	250	190	15,20
3491.016	16	10	250	190	18,10
3491.018	18	10	250	190	20,60
3491.020	20	10	250	190	22,20

	With brad point, two main edges and protruding cutting edges		For exact drilling into softwood and some European hardwood
	Chrome vanadium steel		The low-cost long machine drill . For high demands we recommend our product line 1594 HSS-G
	1500 - 4000 min-1. e.g. Ø 5 mm 4000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

1596



 Profi






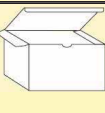
Machine Drill with brad point, cutting lips and bit shank

FAMAG®
 ...für Besserbohrer®


Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Cutting l. [mm]	€
1596.030	3	C 6,3	38	16	6,85
1596.035	3,5	C 6,3	40	18	6,85
1596.040	4	C 6,3	44	20	6,85
1596.045	4,5	C 6,3	46	24	7,05
1596.050	5	C 6,3	50	26	7,05
1596.055	5,5	C 6,3	50	26	7,55
1596.060	6	C 6,3	50	26	7,55
1596.065	6,5	C 6,3	50	30	7,55
1596.070	7	C 6,3	50	30	7,55
1596.075	7,5	C 6,3	51	32	9,45
1596.080	8	C 6,3	51	32	9,45
1596.085	8,5	C 6,3	53	33	10,25
1596.090	9	C 6,3	53	33	11,60
1596.100	10	C 6,3	54	38	11,60

Sets

Order No.	Description	€
1596.508	9 pcs. set in wooden case. Ø 3, 4, 5, 6, 7, 8, 9 and 10 mm and bitholder	64,70
1596.805	5 pcs. packed in blister. Ø 3, 4, 5, 6 and 8 mm	33,80



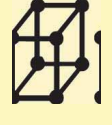


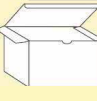
	One-pieced twist drill-bit (C6,3) with brad point, two main edges, two cutting lips and hex shank for bit holder (1/4"; C 6,3)		For predrilling, boring in all wooden materials and many plastics
	HSS-G		Good handling with cordless screwdriver. The specially smooth chip flutes result in good chip removing. Also deliverable as twist drill version 2596
	Maximum rotational speed of the cordless screwdriver: recommended 3000 min-1		Packing unit = 1. Rose-tube. EAN



Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Cutting l. [mm]	€
1597.030	3	C 6,3	70	45	8,10
1597.035	3,5	C 6,3	70	45	8,10
1597.040	4	C 6,3	75	50	7,90
1597.045	4,5	C 6,3	80	55	7,90
1597.050	5	C 6,3	86	61	7,80
1597.055	5,5	C 6,3	93	68	7,60
1597.060	6	C 6,3	93	68	7,60
1597.065	6,5	C 6,3	101	76	7,55
1597.070	7	C 6,3	109	84	8,15
1597.075	7,5	C 6,3	109	84	9,45
1597.080	8	C 6,3	117	92	9,45
1597.085	8,5	C 6,3	117	92	10,25
1597.090	9	C 6,3	125	100	11,60
1597.100	10	C 6,3	133	108	11,60
1597.110	11	C 6,3	142	117	14,65
1597.120	12	C 6,3	151	126	16,05
1597.130	13	C 6,3	151	126	17,20

Sets

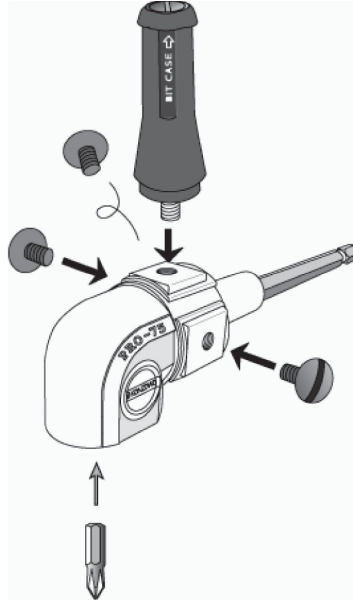
Order No.	Description	€
1597.805	5 pcs. packed in blister. Ø 3, 4, 5, 6 and 8 mm	36,65
1597.507	7 pcs. set in wooden case: Ø 3, 4, 5, 6, 8, 10, 12 mm	56,75
1597.511	11 pcs. set in wooden case: Ø 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm	107,55

	One-pieced twist drill-bit (E 6,3) with brad point, two main edges, two cutting lips and hex shank for bit holder (1/4"; E 6,3)		For fast predrilling and countersinking of screw connections with flat head. Boring and countersinking in all wooden materials and many plastics
	HSS-G		Good handling with cordless screwdriver. Also available as twist drill version 2596
	Maximum rotational speed for the cordless screwdriver: recommended 3000 min-1		Packing unit = 1. Rose-tube. EAN



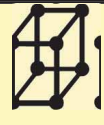


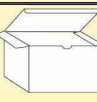
1597.750

Profi

L-Shaped Driver PR075



Order No.	Bit [mm]	Angle	Height [mm]	€
1597.750	6,3	90°	40	92,00
Sets				
Order No.	Description			€
1597.757	Pro75 set in wooden case in version wood working. 1596 Ø 3, 4, 5, 6 mm, countersink, chuck and bits			117,40
1597.758	Pro75 set in wooden case in version metal working. 2596 Ø 3, 4, 5, 6 mm, countersink, chuck and bits			117,40
1597.612	13 pcs. set in bag. Type 1596 Ø 3, 4, 5, 6, 8, 10 mm, 3532 and chuck			141,90
1597.613	13 pcs. set in bag. Type 1597 Ø 3, 4, 5, 6, 8, 10 mm, 3532 and chuck			145,00



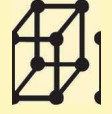



	Stable L-shaped driver with casing made of aluminium and bevel toothed metal gear wheels (ideal transmission). Take up for all 1/4" bits and boring tools (e.g. 1596) with hex shank. Angle of screwing 90°, exchangeable plastic handle		Professional screwing and drilling also in deep angles with cordless screwdriver
	Aluminium casing		It's ideal for making screwed connections with a cordless screwdriver even when there is little space. Works well with 1596/2596
	Rotational speed of cordless screwdriver max 2000 min-1		Packing unit = 1, Blister. EAN



Order No.	I-Ø [mm]	PU [pcs]	O-Ø [mm]	€
2108.003	3	10	7	15,30
2108.004	4	10	8	15,30
2108.005	5	10	10	14,55
2108.006	6	10	12	14,55
2108.007	7	10	12	14,55
2108.008	8	10	16	15,30
2108.009	9	10	18	16,85
2108.010	10	10	20	17,45
2108.011	11	10	20	18,95
2108.012	12	10	22	19,75

Sets

Order No.	Description	€
2108.505	5 pcs. Set in plastic tube. Ø 4, 5, 6, 8 and 10 mm	7,00
2108.507	7 pcs. Set in plastic tube. Ø 3, 4, 5, 6, 8, 10 and 12 mm	10,10
Depth adjuster single for countersinks with Ø 16mm outside		
Order No.	Description	€
2108.216	depth adjuster for countersinks type 2100 Ø 3 - 7 mm	5,35

	Clamp ring to put on twist drills with lateral attachment screw		For fixing on drill bits to adjust the drilling depth
	Tool steel		If you don't need 10 pcs. in one size we recommend 2108.2
	Ø 3 and 4 mm bits with depth ring mounted; it should be used with lower rpm than the recommended speed for the single bits		Packing unit = 10. Rose-tube. EAN

1886

○○○
Profi

Stepped machine Drill

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Order No.	Description	Ø1 [mm]	L 1 [mm]	Ø2 [mm]	L 2 [mm]	Ø3 [mm]	L 3 [mm]	S-Ø [mm]	Shank length [mm]	€
1886.050	with depth stop	5	36	7	20	10	20	8	25	49,35
1886.150	without depth stop	5	36	7	20	10	20	8	25	47,60

	Three-stepped machine drill with brad point and protruding cutting edges		For pre-drilling and countersinking holes in a single operation
	HSS		Of course the clamp ring can be used with this drill
	Ø 5 mm 5000 min-1 in chipboard. Less speed at laminated plates		Packing unit = 1. Rose-tube. EAN

1887



 Profi

Stepped machine Drill, custom made

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... für Besserbohrer®


Description

€

d

L1

D

L2

a

S

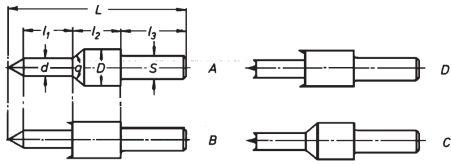
L3






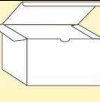
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Version

HSS/ WS

Quantity



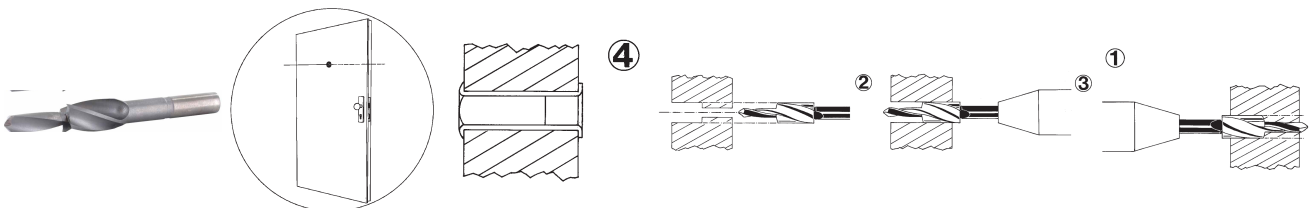
	Two or more-stepped spiral drill with a fix countersink. Version A and B with ground surface of a cone, Version C and D with centering point and protruding cutting edges		Boring and countersinking (90° or 180°) in a single operation. Production according to drawing or information of the desired sizes and design
	HSS		Depending on the quantity you have to reckon with a delivery time of 4 - 6 weeks. Please use the parameters shown above for your inquiry
	1500 - 4000 min-1. e.g. sink-Ø 25 mm 2000 min-1 in Europe hardwood. Also find details at the speed diagrams		Packing unit = 1. Rose-tube. EAN

1880



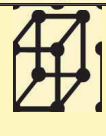


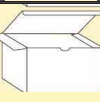


 Profi

Drill for door viewer

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Order No.	~D	Ø1 [mm]	L 1 [mm]	Ø2 [mm]	L 2 [mm]	Stem Ø [mm]	S-Ø [mm]	€
1880.001	12 mm	8	25	13	25	10	10 x 30	50,60
1880.002	14 mm	8	25	15	25	10	10 x 30	53,60

	Two-stepped machine drill. First bit with point angle, core drill with two cutting lips		For boring tear free and exact holes for inserting a door viewer. For details please see drawing
	Alloyed tool steel		If the door leaf has an aluminium core, best results are achieved with the stepped machine drills HSS 3692
	free hand application: max speed from cordless screwdriver. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN

Technical changes or mistakes reserved! All prices are recommended retail prices additionally value added tax.

1001



Classic

Boarding and Plumbing Auger

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OAL 400 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1001.408	8	6	400	370	10,10
1001.410	10	8	400	370	11,80
1001.412	12	8	400	370	14,75
1001.414	14	8	400	370	16,90
1001.416	16	10	400	370	19,40
1001.418	18	10	400	370	23,30
1001.420	20	10	400	370	30,90
1001.422	22	12	400	370	40,50
1001.424	24	12	400	370	47,20
1001.425	25	12	400	370	50,40
1001.426	26	12	400	370	51,85
1001.428	28	12	400	370	56,40
1001.430	30	12	400	370	59,65
1001.432	32	12	400	370	61,90
1001.435	35	12	400	370	68,20
1001.439	39	12	400	370	89,40

OAL 600 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1001.608	8	6	600	570	10,70
1001.610	10	8	600	570	12,40
1001.612	12	8	600	570	15,45
1001.614	14	8	600	570	17,60
1001.616	16	10	600	570	20,40
1001.618	18	10	600	570	24,50
1001.620	20	10	600	570	31,95
1001.622	22	12	600	570	43,00
1001.624	24	12	600	570	49,65
1001.625	25	12	600	570	53,50
1001.626	26	12	600	570	54,35
1001.628	28	12	600	570	59,00
1001.630	30	12	600	570	62,40
1001.632	32	12	600	570	64,15
1001.635	35	12	600	570	70,15
1001.639	39	12	600	570	93,50

OAL 800 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1001.808	8	6	800	770	12,85
1001.810	10	8	800	770	14,60
1001.812	12	8	800	770	17,65
1001.814	14	8	800	770	20,60
1001.816	16	10	800	770	24,05
1001.818	18	10	800	770	28,55
1001.820	20	10	800	770	36,10
1001.822	22	10	800	770	47,10

OAL 1.000 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1001.108	8	6	1000	970	13,55
1001.110	10	8	1000	970	15,15
1001.112	12	8	1000	970	18,25
1001.114	14	8	1000	970	21,40
1001.116	16	10	1000	970	24,75
1001.118	18	10	1000	970	30,35
1001.120	20	10	1000	970	37,85
1001.122	22	12	1000	970	49,00
1001.124	24	12	1000	970	53,70
1001.126	26	12	1000	970	57,95
1001.128	28	12	1000	970	62,45
1001.130	30	12	1000	970	65,30



Twist drill with long shank and specially ground roof-like tip which can easily be reground. Construction according to DIN 7490 and the applicable safety



For boring external and internal form boards in a single operation and boring in wooden ceilings and floors of old buildings



Chrome vanadium steel



For boring into metal we recommend our version 1002 HSS



800 - 2500 min-1. e.g. Ø 10 mm
2500 min-1 in formwork panel



Packing unit = 1. PE bag. EAN
OAL 1000mm in tube



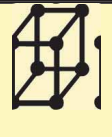


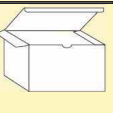


OAL 400 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1002.406	6	5	400	370	11,65
1002.408	8	6	400	370	10,90
1002.410	10	8	400	370	12,95
1002.412	12	8	400	370	16,20
1002.414	14	8	400	370	19,75
1002.416	16	10	400	370	24,45
1002.418	18	10	400	370	28,85
1002.420	20	10	400	370	32,75
1002.422	22	10	400	370	47,80

OAL 600 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1002.608	8	8	600	570	11,95
1002.610	10	8	600	570	13,85
1002.612	12	8	600	570	17,20
1002.614	14	8	600	570	20,75
1002.616	16	10	600	570	26,00
1002.618	18	10	600	570	30,55
1002.620	20	10	600	570	34,35

	Twist drill with long shank and specially ground roof-like tip which can easily be reground. Construction according to DIN 7490 and the applicable safety regulations		For boring external and internal form boards in a single operation and boring in wooden ceilings and floors of old buildings
	HSS		For the hardest application or for boring into metal
	1600 - 3000 min-1. e.g. Ø 14 mm 2200 min-1 in formwork panel		Packing unit = 1. PE bag. EAN

1005

 Classic

Boarding and Plumbing Auger, SDS-plus shank



OAL 400mm

Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Cutting l. [mm]	€
1005.410	10	SDS	400	370	22,30
1005.412	12	SDS	400	370	25,00
1005.414	14	SDS	400	370	26,85
1005.416	16	SDS	400	370	30,55
1005.418	18	SDS	400	370	40,90
1005.420	20	SDS	400	370	44,60
1005.422	22	SDS	400	370	55,05
1005.424	24	SDS	400	370	62,70
1005.425	25	SDS	400	370	74,35

OAL 600mm

Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Cutting l. [mm]	€
1005.610	10	SDS	600	570	23,20
1005.612	12	SDS	600	570	26,10
1005.614	14	SDS	600	570	28,80
1005.616	16	SDS	600	570	31,95
1005.618	18	SDS	600	570	42,30
1005.620	20	SDS	600	570	45,85
1005.622	22	SDS	600	570	56,90
1005.624	24	SDS	600	570	66,60
1005.625	25	SDS	600	570	79,85
1005.626	26	SDS	600	570	84,35
1005.628	28	SDS	600	570	89,20
1005.630	30	SDS	600	570	96,75

	Twist drill with long shank (SDS-plus) and specially ground roof-like tip which can easily be reground. Construction according to DIN 7490 and the applicable safety regulations		For boring external and internal form boards in a single operation and boring in wooden ceilings and floors of old buildings
	Chrome vanadium steel		These drills are not allowed to be used with a hammer or impact drill
	1200 - 2500 min-1. e.g. Ø 22 mm 1200 min-1 in formwork panel		Packing unit = 1. PE clip. EAN



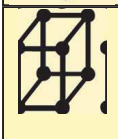


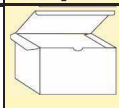


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
1775.010	10	8	90	60	15,05
1775.013	13	8	90	60	16,20
1775.016	16	8	90	60	16,85
1775.020	20	8	90	60	18,80
1775.025	25	8	90	60	22,75
1775.030	30	8	90	60	26,85

Sets

Order No.	Description	€
1775.505	5 pcs. Set in wooden case. Ø 10, 13, 16, 20 and 25 mm	80,55



	<p>Countersink with 7 edges and acute angle 90°, irregular pitch and parallel shank. Now with fully ground tool head</p>		<p>Countersinking into all sorts of wood, for veneered, laminated panels and many plastics</p>
	<p>Alloyed tool steel</p>		<p>Due to the specially designed pitch it is possible to countersink without chattering in softwood. For all non-ferrous metals, hard plastics etc. we recommend the carbide tipped adjustable countersink VARIO 2202 or the countersinks version 3540</p>
	<p>1000 - 2500 min-1. e.g. Ø 16 mm 1800 min-1 in softwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube. EAN</p>

2115

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Profi

Machine Countersink with bored hole 90°

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Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2115.013	13	8	80	50	19,70
2115.016	16	8	90	60	22,60
2115.020	20	8	90	60	26,45

	Machine countersink with bored hole with one edge and countersinking angle of 90°		Countersinking into all sorts of wood, for veneered, laminated panels (for plastic laminated panels we recommend VARIO 2202)
	Alloyed tool steel		Thanks to the tool head's geometry good guidance and countersinking without chattering is possible.
	600 - 1000 min-1. e.g. Ø 16 mm 800 min-1 in softwood		Packing unit = 1. Rose-tube. EAN

3532

○
Hobby

Countersink

FAMAG
... für Besserbohrer®



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3532.010	10	E 6,3	50	4,00
3532.012	12	E 6,3	50	4,20
3532.014	14	E 6,3	50	4,30
3532.016	16	E 6,3	50	4,35
3532.020	20	E 6,3	50	4,85



	Countersink with 5 edges and point angle 90° and bit shank E 6,3		Countersinking into softwood and veneered panels (for plastic laminated panels we recommend VARIO 2202). The low-price countersink for do-it-yourself people
	Alloyed tool steel		For hard plastics etc. we recommend the carbide tipped VARIO 2202 or the version 3540
	500 - 2500 min-1. e.g. Ø 12 mm 2000 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. Rose-tube. EAN



Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	€
2100.030	3,0	16	25	12,60
2100.035	3,5	16	25	12,60
2100.040	4,0	16	25	12,60
2100.045	4,5	16	25	12,60
2100.050	5,0	16	25	12,60
2100.055	5,5	16	25	12,60
2100.060	6,0	16	25	12,60
2100.065	6,5	16	25	15,70
2100.070	7,0	16	25	15,70
2100.080	8,0	20	25	15,70
2100.100	10,0	20	25	15,70

Accessory

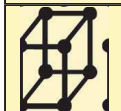
Order No.	Description	€
2108.216	depth adjusting collar for countersinks 3 - 7 mm	5,35



Shell drill countersink with 5 edges and point angle 90° to clip on machine drills incl. fixed spanner without drill



Boring and countersinking in a single operation. For clipping on machine drills with the appropriate Ø. Very good for softwood, veneered panels but limited for European hardwood



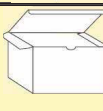
Tool steel



Countersinking screw heads and boring in a single operation to softwood. We recommend drills of version 3500 or 1591. For higher demands we recommend 1594 (HSS-G) with VARIO 2202



1500 - 2200 min-1. e.g. all countersinks with A-Ø 16 mm
1500 min-1 in softwood



Packing unit = 1. Rose-tube. EAN

3537

 Hobby

Shell Drill-Countersink Hobby_Economy

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Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	€
3537.003	3	12	20	6,60
3537.004	4	12	20	6,60
3537.005	5	12	20	6,60
3537.006	6	12	20	6,60

	<p>Shell drill countersink with 5 edges and point angle 90° to clip on machine drills. For do-it-yourself people. Without fixed spanner</p>		<p>Boring and countersinking in a single operation. For fitting machine drills with the appropriate Ø. Very good for softwood</p>
	<p>Tool steel</p>		<p>Countersinking screw heads and boring in a single operation into softwood. We recommend drills of version 3500 or 1590. For higher demands we recommend 2100 with VARIO 2202</p>
	<p>2000 - 2200 min-1. e.g. all counter sinks with A-Ø 12 mm 2000 min-1 in softwood. Also find details at the speed-diagrams</p>		<p>Packing unit = 1. Rose-tube. EAN</p>

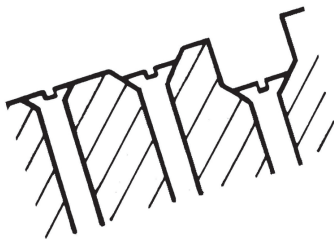
2202



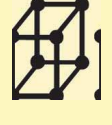




 Premium

Adjustable Countersink carbide tipping


 FAMAG®
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Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	> [°]	€
2202.000	3 - 8	10,5 - 14,5	34	90	34,50
2204.000	3 - 8	10,5 - 14,5	35	180	34,50
Sets					
Order No.	Description				€
3575.505	6 pcs. Set in wooden case. Drill bits 1594 Ø 3, 4, 5, 6, 8 mm & countersink 2202 (90°)				61,10
3575.504	6 pcs. In wooden case. Type 1594 Ø 3, 4, 5, 6, 8 mm and VARIO Countersink 2204 (180°)				61,10
3575.507	7 pcs. Set in wooden case 1593 Ø 3, 4, 5, 6, 8 mm + 2202 VARIO countersink 90°				115,25



	Professional carbide tipped adjustable countersink, countersinking angle 90° or 180°, two-part version. Can be clipped on all machine drills Ø 3-8 mm		Boring and countersinking in a single operation by fitting machine drills (also intermediate sizes e.g. 5.5 mm). Fits all sorts of wood, laminated panels and many plastics
	High quality carbide tipping		For simultaneously boring and countersinking screw heads. You get the following dimensions by using: (Ødrill/ countersink size): 3/10,5, 4/11,5, 5/12,5, 6/13,5, 8/14,5
	3000 - 5000 min-1. e.g. Drill-Ø 4 mm 4000 min-1 in euro. hardwood, also possible with less speed in cordless screwdrivers		Packing unit = 1. Rose-tube. EAN

Technical changes or mistakes reserved! All prices are recommended retail prices additionally value added tax.

3577



Drill-Countersink-Set with rotating depth stop



Order No.	Description	€
3577.040	Drill-Countersink-Set 4 mm with depth stop	30,95
3577.050	Drill-Countersink-Set 5 mm with depth stop	30,95
3577.060	Drill-Countersink-Set 6 mm with depth stop	30,95

Sets

Order No.	Description	€
3577.504	Drill-Countersink-Set of 4 pcs. Ø 4, 5 and 6 mm + Depth Stop in wooden case	73,00

Accessory

Order No.	Description	€
3577.104	Countersink single Ø 4 mm	15,25
3577.105	Countersink single Ø 5 mm	15,25
3577.106	Countersink single Ø 6 mm	15,25
3577.140	Pre-drill Ø 4 mm	4,35
3577.150	Pre-drill Ø 5 mm	4,75
3577.160	Pre-drill Ø 6 mm	5,60
3577.212	Depth stop single, rotationally supported	17,40

	High quality drill-countersink-set with brass rotating depth stop. Depth adjustable pre-drill. Countersink angle 60°		This set is particularly well suited for screwing holes in the terraces boards which we have to drill, sink clean and accurate. The depth stop is rotatably mounted and stops when it touches the workpiece, this prevents that the depth stop leaves imprints on the terrace boards.
	Countersink/Pre-drill: alloyed tool steel. Depth Stop: brass		Adjust the depth so that floor board is just transpierce (Board thickness). Thus, the self-tapping terrace screw is a perfect fit.
	1500 - 2200 min-1 e.g. recommended value approx. 1800 min-1 in hardwood		Packing unit = 1 Rose-tube. EAN





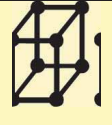


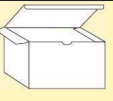
Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
3573.030	3	16	60	15	13,50
3573.040	4	16	75	30	13,50
3573.050	5	16	85	40	13,50
3573.060	6	16	95	50	13,50
3573.080	8	20	115	70	14,60
3573.100	10	20	130	85	15,20

Accessory

Order No.	Description	€
2108.216	depth adjusting collar for countersinks 3 - 7 mm	5,35

Sets

Order No.	Description	€
3574.504	5 pcs. Set in wooden case. Drill bits type 3500 Ø 3, 4, 5, 6 mm with countersinks type 2100 + depth adjusting collar	51,60

	Machine drills version 3500 (CV) with clipped on countersinks 2100 (tool steel) and hexagon socket wrench		Boring and countersinking in a single operation. Very good for soft wood and limited fit for European hardwood.
	Tool steel		Just for softwood. For hardwood we recommend machine drills 1594 (HSS-G) and adjustable countersink 2202 Put the depth adjusting collar 2108.216 directly on the countersink and set lowering depth
	1500 - 2200 min-1. e.g. standard value ca. 1800 min-1 in softwood		Packing unit = 1. Rose-tube. EAN

3572

 Classic

Drill-Countersink-Set with bit shank



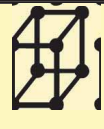


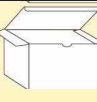
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Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Cutting l. [mm]	€
3572.030	3	C 6,3	75	25	14,55
3572.040	4	C 6,3	75	25	14,70
3572.050	5	C 6,3	86	36	15,35
3572.060	6	C 6,3	93	43	15,85
3572.080	8	C 6,4	117	67	21,05
3572.100	10	C 6,5	133	83	23,35

Accessory		
Order No.	Description	€
2108.216	depth adjusting collar for countersinks 3 - 7 mm	5,35

Sets		
Order No.	Description	€
3572.503	5 pcs. Set in wooden case. Drill bits type 3500 Ø 3, 4, 6 mm with countersinks type 2100 and bitholder	59,90
3572.504	5 pcs. Set in wooden case. Drill bits type 3500 Ø 3, 4, 5, 6 mm with countersinks type 2100 with	78,25

	Bit (E 6,3) with brad point, two main edges, two cutting lips and hex shank for bit holder (1/4"; E 6,3). With clipped on countersink 2100 (tool steel)		Fast tool change in the bit holders. Boring into all wooden materials and many plastics
	HSS		Boring and countersinking in a single operation. For predrilling without countersinking we recommend version 1596 (HSS-G)
	1500 - 2200 min-1. e.g. standard value ca. 1800 min-1 in softwood		Packing unit = 1. Rose-tube. EAN

2101





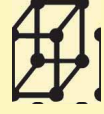



Profi

Shell Drill-Countersink HSS 90°



... für Besserbohrer®


Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	€
2101.030	3,0	16	16	40,30
2101.035	3,5	16	16	40,30
2101.040	4,0	16	16	40,30
2101.045	4,5	16	16	40,30
2101.050	5,0	16	16	40,30
2101.060	6,0	16	16	40,30
2101.070	7,0	16	16	40,30
2101.080	8,0	18	16	43,40
2101.100	10,0	20	16	44,30

	Shell drill countersink with 2 edges and point angle 90° to clip on machine drills		Boring and countersinking in a single operation. For fitting on machine drills. Very good for softwood, European hardwood, veneered panels and plastics
	HSS		Countersinking screw heads and boring in a single operation. Long endurance due to HSS. We recommend the drills 1594 and 1599 HSS-G of our product range. Unsuitable for depth adjusting collar 2106.216
	2000 - 3500 min-1. e.g. standard value ca. 3000 min-1 in euro. hardwood, also possible with less speed in cordless screwdrivers		Packing unit = 1. Rose-tube. EAN

2106





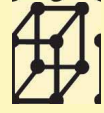


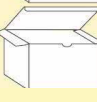
Profi

Shell Drill-Countersink rectangular 180°



... für Besserbohrer®


Order No.	I-Ø [mm]	O-Ø [mm]	OAL [mm]	€
2106.050	5	15	23	40,80
2106.060	6	16	23	42,05
2106.061	6	15	25	42,50
2106.180	8	20	25	48,70
2106.280	8	25	25	51,20
2106.290	9	25	25	53,35
2106.110	10	20	25	46,85
2106.210	10	25	25	51,15
2106.211	11	25	25	67,95
2106.310	10	30	25	77,90
2106.212	12	25	25	65,20
2106.312	12	30	25	77,90

	Shell drill countersink for right-angled countersinks with two main edges and two roughing taps to clip on machine drills		Boring and countersinking in a single operation. For fitting on machine drills. Very good for softwood, European hardwood, veneered panels and plastics
	HSS		For countersinking washers/screw nuts and boring in a single operation. We recommend machine drill 1594 and 1599 HSS-G
	1700 - 3000 min-1. e.g. Ø 12 mm 2000 min-1 in euro. hardwood, also possible with less speed in cordless screwdrivers		Packing unit = 1. Rose-tube. EAN

Technical changes or mistakes reserved! All prices are recommended retail prices additionally value added tax.

1540

 Classic

Expansive bit for machine



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
1540.001	15 - 45	12	150	46,30
1540.002	22 - 76	13	150	57,85
1540.003	22 - 100	13	150	126,15

spare blades

Order No.	O-Ø [mm]	€
1540.101	15 - 25	13,40
1540.102	25 - 45	13,90
1540.201	22 - 40	13,90
1540.202	40 - 76	17,35
1540.203	70 - 100	63,75

	Version with brad point, one fixed main edge and adjustable knife with roughing tap. Expansive bit with stable hexagonal shank 13 x 50 mm		For boring into softwood, universal for all diameters and intermediate sizes
	Tool steel		Only for stationary use. This tool is a compromise, for professional use we recommend our cylinder boring bits
	300 - 1500 min-1. e.g. for Ø 50 mm 600 min-1 in softwood stationary		Packing unit = 1. Rose-tube. EAN



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
3510.008	8	E 6,3	150	120	3,35
3510.010	10	E 6,3	150	120	3,35
3510.011	11	E 6,3	150	120	3,40
3510.012	12	E 6,3	150	120	3,40
3510.013	13	E 6,3	150	120	3,60
3510.014	14	E 6,3	150	120	3,60
3510.015	15	E 6,3	150	120	3,65
3510.016	16	E 6,3	150	120	3,65
3510.017	17	E 6,3	150	120	4,00
3510.018	18	E 6,3	150	120	4,00
3510.019	19	E 6,3	150	120	4,10
3510.020	20	E 6,3	150	120	4,10
3510.021	21	E 6,3	150	120	4,15
3510.022	22	E 6,3	150	120	4,15
3510.025	25	E 6,3	150	120	4,40
3510.028	28	E 6,3	150	120	4,60
3510.032	32	E 6,3	150	120	5,45
3510.034	34	E 6,3	150	120	6,15
3510.036	36	E 6,3	150	120	7,15
3510.038	38	E 6,3	150	120	7,25
3510.040	40	E 6,3	150	120	7,90

Extension

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
3511.000	14	E 6,3	330	300	9,90
3511.305	16	E 6,3	305	280	12,40

Sets

Order No.	Description	€
3510.506	6 pcs. Set in plastic box. Ø 12, 16, 18, 20, 22, 25 mm	21,10

	Classical centre bit with brad point. Polished face with two roughing taps and bit shank E 6,3. The extension shank 3511.305 has a chuck which permits fast exchange		For boring into softwood without precision and quality. Due to the roughing taps results are clearly better than the usual versions
	Tool steel		In our opinion flat centre bits are principally no tools for professional use and are not a good fit for hardwood. It is better to use FAMAG cylinder boring bits, especially Bormax®
	800 - 3000 min-1. e.g. Ø 18 mm 1600 min-1 in softwood. Also find details at the speed-diagrams		Packing unit = 1. On Rose-card. EAN



Hole saws

69

PAROLI all-round 50, TCT-hole saw	70
PAROLI all-round 165, TCT-hole saw	72
PAROLI 100 insulation-hole saw	73
PAROLI Bi-Metal-hole saw HSS-Co	74
Hole saw, Carbide-tipped	75
Bi-Metal Hole saw HSS rollershutter	76
Hole saw for carpentry	77

FAMAG®

Paroli



NEW



Order No.	O-Ø [mm]	AØ [Inch]	Cutting l. [mm]	€
2166.035	35	1 3/8	50	16,75
2166.040	40	1 9/16	50	16,75
2166.045	45	-	50	17,35
2166.050	50	-	50	21,75
2166.051	51	2	50	21,75
2166.054	54	2 1/8	50	22,20
2166.057	57	2 1/4	50	22,45
2166.060	60	2 3/8	50	23,75
2166.064	64	2 1/2	50	27,30
2166.065	65	2 9/16	50	27,30
2166.068	68	2 11/16	50	28,85
2166.070	70	2 3/4	50	29,30
2166.073	73	2 7/8	50	29,30
2166.074	74	-	50	29,30
2166.076	76	3	50	31,00
2166.080	80	-	50	30,40
2166.082	82	-	50	30,40
2166.086	86	3 3/8	50	31,90
2166.092	92	3 5/8	50	31,90
2166.102	102	4	50	40,55
2166.105	105	4 1/8	50	40,55
2166.111	111	4 3/8	50	43,85
2166.114	114	4 1/2	50	45,50
2166.121	121	4 3/4	50	59,00
2166.125	125	-	50	62,90
2166.133	133	5 1/2	50	70,00
2166.140	140	5 1/2	50	70,00
2166.152	152	6	50	79,70
2166.160	160	6 5/16	50	91,20
2166.165	165	-	50	95,45
2166.177	177	7	50	104,35
2166.185	185	-	50	114,35
2166.210	210	8 1/4	50	124,15

Ejector-shank system



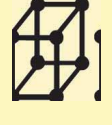



Order No.	Description	€
2166.309	Ejector-shank incl. HSS centre drill for PAROLI 50	25,80
2166.313	Ejector-shank incl. HM centre drill for PAROLI 50	28,35
2166.319	single HSS centre drill for PAROLI 50	4,10
2166.323	single HM centre drill for PAROLI 50	6,85

Edge countersink cap

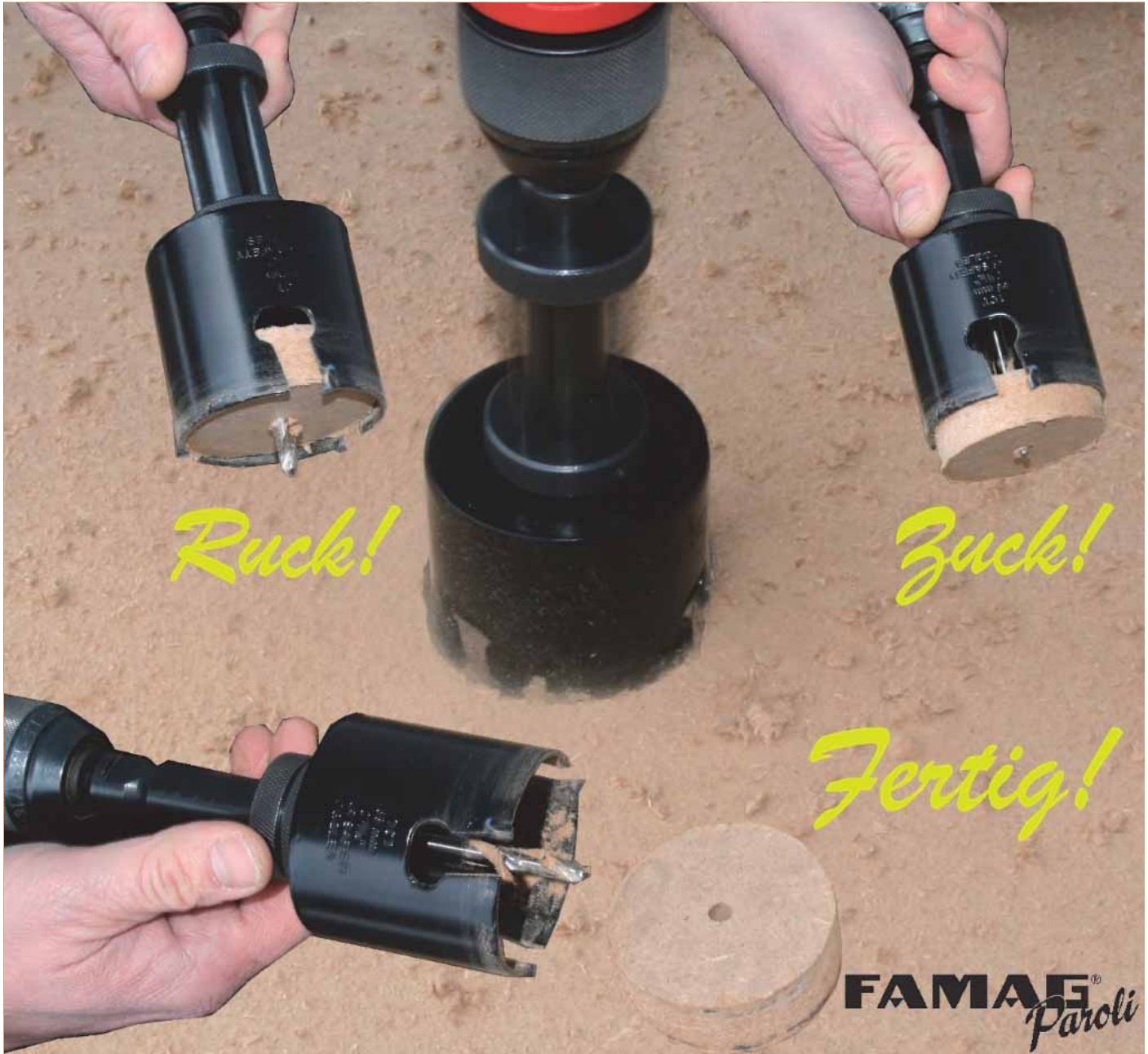
Order No.	Description	€
2166.468	Edge countersink cap Ø 68mm for PAROLI 50	26,90

Sets

Order No.	Description	€
2166.805	7 pcs. Set: Ø 35, 45, 50, 60, 68, 80 mm + Ejector-shank and HSS centre drill for PAROLI 50	148,20
2166.807	8 pcs. Set: Ø 35, 50, 57, 60, 68, 80 + Edge countersink cap for Ø 68 mm + Ejector-shank incl. HSS centre drill for PAROLI 50	177,10

	Carbide tipped hole saw, the saw body is made of steel, cutting depth 50 mm		Drilling in all kinds of woods and boards, MDF, aerated concrete, plaster board, plastics and tile
	Carbide tipped		By using the utmost clever ejector-shank system, you can easily remove the core and save a lot of time and trouble. Perfect concentricity thanks to massive ground and one-piece saw body
	A great torque is required at big diameters. Speed according to the diagram		packing unit: 1 at Rose Clip. EAN

NEU



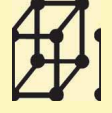


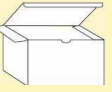




Order No.	0-Ø [mm]	Cutting l. [mm]	€
2169.051	51	165	67,80
2169.060	60	165	76,20
2169.070	70	165	89,90
2169.080	80	165	101,15
2169.102	102	165	114,10
2169.111	111	165	127,60
2169.121	121	165	148,35
2169.130	130	165	171,75
2169.152	152	165	196,95
2169.160	160	165	250,30

Ejector shank system

Order No.	Description	€
2169.309	Ejector-shank for PAROLI 165	26,25
2169.310	Ejector-shank incl. guiding spike for PAROLI 165	34,00
2169.320	single guiding spike for PAROLI 165	7,85






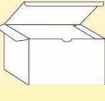
	Carbide tipped hole saw, the saw body is made of steel, cutting depth 165 mm		Drilling in all kinds of woods and boards (also solid wood), MDF, aerated concrete, plaster board and plastics. The large length is ideal for drilling holes in solid wood for ventilation, drainage and flue pipes
	Carbide tipped		By using the utmost clever ejector-shank system, you can easily remove the core and save a lot of time and trouble
	A great torque is required at big diameters. Speed according to the diagram		packing unit: 1 at Rose Clip. EAN



Order No.	Description	O-Ø [mm]	Cutting l. [mm]	€
2155.035	Wall lamp junction boxes	35	105	61,90
2155.065	Facade dowels	65	105	86,05
2155.068	hollow wall box, junction box	68	105	96,85
2155.074	hollow wall box, junction box	74	105	107,60
2155.106	blow-in opening insulation	106,5	105	160,35
2155.121	fire protection - halogen lamp - casing	121	105	172,20

Ejector shank system

Order No.	Description	€
2155.311	Ejector-shank for 2155	21,50

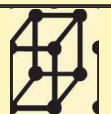
	First hole saw with serrated edge for actually all insulation materials such as: Wood insulation boards, polystyrene, mineral wool, PU-foam etc. Very clean cuts		Fast, very clean and circular cuts in mineral wool, polyurethane foam, polystyrene foam, deather, rubber, paper, carpet and especially in wood fiber insulation boards
	Alloyed tool steel		The drill core is removed by the ejector in a heartbeat. Due to the thin-walled cutting, the core can be used again f.e. to close the blow-in opening
	According to corresponding diagrams		packing unit = 1. in Yellow cardboard tube. Ø 106 + 121 in Carton. EAN



Yellow painted bimetal hole saw with HSS teeth, variable pitch; weld on a cylindrical tool head of steel. Cutting depth 38 mm



For boring in steel and nonferrous metal as copper, bronze and aluminium, plasterboards such wooden and laminated materials with column drilling machine or power drill. Due to the high quality of cobalt alloy and the special polished section you obtain a better cutting performance and a longer life



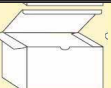
Bimetal HSS M42, 8% Co



It is recommended to cool the hole saw with oil when cutting metal.



According to corresponding diagrams



packing unit = 1. Folded box EAN

Order No.	O-Ø [mm]	AØ [Inch]	Cutting l. [mm]	€
2173.014	14	9/16	35	16,65
2173.016	16	5/8	35	16,65
2173.017	17	11/16	35	16,65
2173.019	19	3/4	35	16,65
2173.020	20	-	35	16,65
2173.021	21	13/16	35	16,65
2173.022	22	7/8	35	16,65
2173.024	24	15/16	35	17,15
2173.025	25	-	35	17,20
2173.029	29	-	35	17,20
2173.030	30	1 3/16	35	17,20
2173.032	32	1 1/4	35	17,70
2173.033	33	1 5/16	35	17,70
2173.035	35	1 3/8	35	18,50
2173.037	37	1 7/16	35	18,50
2173.038	38	1 1/2	35	18,50
2173.040	40	1 9/16	35	19,55
2173.041	41	1 5/8	35	19,55
2173.043	43	1 11/16	35	21,15
2173.044	44	1 3/4	35	21,65
2173.046	46	1 13/16	35	21,65
2173.048	48	1 7/8	35	21,65
2173.051	51	-	35	21,65
2173.052	52	2 1/16	35	22,80
2173.054	54	2 1/8	35	22,80
2173.057	57	2 1/4	35	24,05
2173.059	59	2 5/16	35	25,00
2173.060	60	2 3/8	35	25,00
2173.064	64	2 1/2	35	26,20
2173.065	65	2 9/16	35	26,20
2173.067	67	2 5/8	35	26,60
2173.068	68	2 11/16	35	26,60
2173.070	70	2 3/4	35	27,35
2173.073	73	2 7/8	35	27,35
2173.076	76	-	35	28,55
2173.083	83	3 1/4	35	29,10
2173.086	86	3 3/8	35	29,10
2173.089	89	3 1/2	35	29,10
2173.092	92	3 5/8	35	33,00
2173.095	95	3 3/4	35	34,60
2173.098	98	3 7/8	35	36,20
2173.102	102	-	35	37,20
2173.105	105	4 1/8	35	41,05
2173.108	108	4 1/4	35	46,40
2173.111	111	4 3/8	35	49,40
2173.114	114	4 1/2	35	54,85
2173.121	121	4 3/4	35	57,65
2173.127	127	-	35	59,45
2173.133	133	5 1/2	35	63,25
2173.140	140	5 1/2	35	67,65
2173.146	146	-	35	69,75
2173.152	152	-	35	75,00
2173.160	160	6 5/16	35	106,90
2173.168	168	6 5/8	35	110,90
2173.177	177	-	35	115,15
2173.200	200	-	35	129,05
2173.210	210	8 1/4	35	135,45

Adapter PAROLI

Order No.	Description	€
2173.901	Adaptor 14 - 30 mm SW 9,5 mm	9,90
2173.905	Adaptor 32-210 mm SW 11,0 mm	15,55
2173.907	Adaptor 14 - 30 mm mit SDS-shank	18,45
2173.908	Adaptor 32-210 mm mit SDS-shank	18,45
2166.309	Ejector-shank incl. HSS centre drill for PAROLI 50	25,80
2166.319	single HSS centre drill for PAROLI 50	4,10



Order No.	O-Ø [mm]	AZ	Cutting l. [mm]	€
2160.030	30	3	60	45,55
2160.040	40	3	60	55,40
2160.050	50	3	60	65,35
2160.055	55	3	60	66,40
2160.060	60	5	60	67,35
2160.065	65	5	60	75,35
2160.068	68	5	60	74,15
2160.080	80	5	60	113,95
2160.090	90	5	60	124,60
2160.105	105	6	60	155,25

Edge countersink



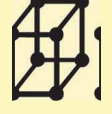



Order No.	O-Ø [mm]	AZ	€
2160.468	68	3	47,45

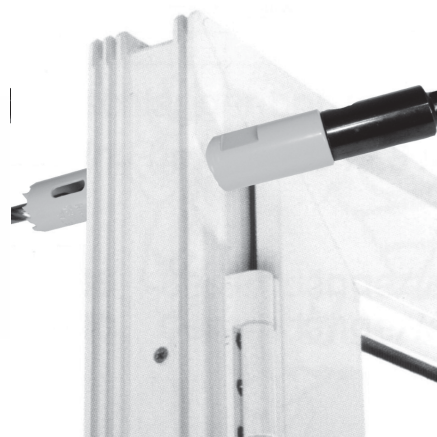
Shanks

Order No.	O-Ø [mm]	I-Ø [mm]	OAL [mm]	S-Ø [mm]	€
2160.201	M16	8	70	13	25,80
2160.203	M16	8	70	SDS	30,95

Centre drill

Order No.	O-Ø [mm]	Mat.	OAL [mm]	S-Ø [mm]	€
2160.307	10	HM	133	8	9,20
2160.308	8	HSS	120	8	9,70

	Carbide tipped hole saw; the saw body is made of tempered steel; internal thread M16 to hold the shank. Max. cutting depth 60 mm		Drilling into plaster boards, aerated concrete, plastics, chipboards and plywood. Please order shanks and centre drills seperately
	Carbide tipped		With the edge countersink and hole saw 2160.068 you are able to countersink a flush box.
	A great torque is required at great diameters. Also find details at the speed diameters		packing unit = 1. Plastic sleeve. EAN



Holesaw incl. shank and pre-drill:



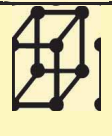


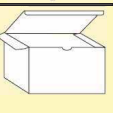
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2174.017	17	12	220	100	64,45
2174.022	22	12	220	100	64,45
2174.025	25	12	220	100	64,45

Holesaw without shank and pre-drill:

Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2174.117	17	140	100	43,05
2174.122	22	140	100	43,05
2174.125	25	140	100	43,05

Accessory

Order No.	Description	€
2174.301	Hex shank complete with pre-drill Ø 7 mm	21,50
2174.307	Pre-drill Ø 7 mm for holesaw ref. 2174	5,95

	Special hole saw to install roller blinds on window frames. Incl. Hex shank and pre-drill bit to place the hole saw in position		During the installation of the roller blinds you have to drill holes in the window frames for the cords. This was always an issue, but now it is finally solved.
	HSS Bi-metal		Remove the pre-drill bit from the hole saw after the first cut. This reduces the cutting forces and it can work much easier
	500 - 750 min-1		packing unit = 1. PE tube. EAN



Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	Cutting l. [mm]	€
2170.086	86	SW12	420	300	219,45
2170.111	111	SW12	420	300	275,70
2170.130	130	SW12	420	300	325,90
2170.152	152	SW12	420	300	407,30
2170.170	170	SW12	420	300	451,20
2170.200	200	SW12	420	300	532,60

Guiding spike and drill head.

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	Cutting l. [mm]	€
2170.030	19,5	12	460	410	75,25

Guiding spike single

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	Cutting l. [mm]	€
2170.010	19,5	12	430	380	53,90

Drill head single

Order No.	O-Ø [mm]	SØ [mm]	OAL [mm]	Cutting l. [mm]	€
3690.002	8 - 20	8	70	44	28,45

Hex shank:

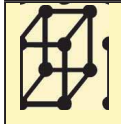
Order No.	Description	€
2170.005	Hexagonal shank for carpentry keyhole saw SW12	30,25



Special hole saw bi-metal with variable pitch of teeth. The teeth HSS are welded on the cylindrical carrier which has a usable length of 300 mm. Incl. exchangeable hexagon shank (SW 12). Please order guiding spike and drill head separately.



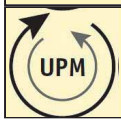
For drilling holes with great diameters in one work step e.g. the lead through of exhaust gases and air pipes in roof construction. The high quality hole saw cuts all sorts of insulating materials (fibreglass, rockwool, styrofoam etc.) wood and chipboards and gypsum plaster boards



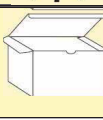
Bimetal HSS M42, 8% Co



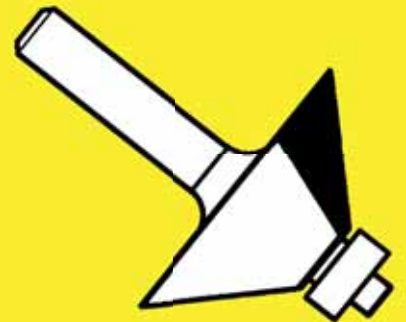
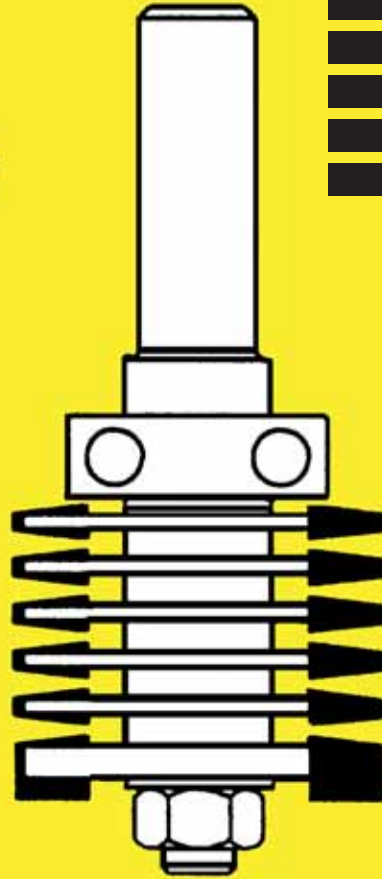
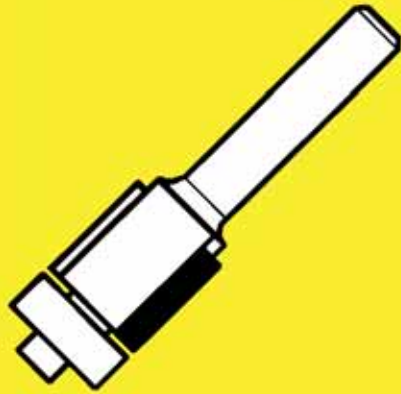
Cutting of solid wood thicker than 30 mm, stone and metal is not possible. The hole saw for carpentry can be used freehand with a strong power drill



great diameters ca. 500 min-1



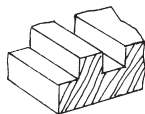
packing unit = 1. Yellow cardboard tube. EAN



Router bits

79

Carbide-tipped Straight bit with TC Center Tip	80
Classical bit	87
Bevel bit	91
Torus bit	93
Core bit	94
Straight And Plunge bit One Blade	99
Ball Bearings	102



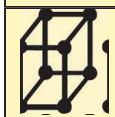
Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3167.808	8	19	57				8	26.000	37,40
3167.810	10	19	51				8	24.000	38,45
3167.812	12	19	51				8	22.000	40,35
3167.842	12	32	63				8	22.000	48,70
3167.814	14	19	51				8	22.000	42,10
3167.844	14	25	57				8	22.000	44,95
3167.816	16	19	51				8	21.000	43,95
3167.846	16	25	57				8	21.000	46,80
3167.818	18	19	51				8	21.000	46,50
3167.820	20	19	51				8	20.000	48,85
3167.908	8	19	63				12	26.000	39,65
3167.910	10	19	63				12	24.000	40,65
3167.912	12	19	61				12	22.000	42,45
3167.942	12	32	73				12	22.000	48,70
3167.944	14	25	67				12	22.000	47,40
3167.916	16	25	67				12	21.000	49,35
3167.946	16	32	73				12	21.000	51,25
3167.848	18	25	57				12	21.000	49,15
3167.918	18	25	67				12	21.000	52,05
3167.920	20	25	67				12	20.000	55,00
3167.922	22	32	73				12	20.000	62,20



Two carbide tipped edges, side cutting and plunging. With ground carbide tipped center tip



For grooving, producing finger joints, tongue and groove joints. Can be plunged without restrictions due to the carbide tipped center tip. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed



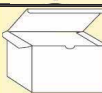
High quality carbide tipping



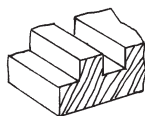
Due to the carbide tipped centre tip it is ideal for boring slots and continuous countersinkings up to a depth of 32 mm. Also very good for cutting the cut-outs of worktops in kitchens (e.g. hob and sink)









Individual for every router bit, see parameters of product



packing unit = 1. Self service. EAN



Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3107.603	3	11	51				6	26.000	24,35
3107.604	4	11	51				6	25.000	24,50
3107.605	5	11	51				6	24.000	24,70
3107.606	6	19	51				6	23.000	25,00
3107.608	8	20	51				6	22.000	30,30
3107.610	10	20	51				6	22.000	31,05
3107.651	10	32	63				6	22.000	36,35
3107.612	12	20	51				6	20.000	32,70
3107.661	12	32	63				6	20.000	37,75
3107.614	14	20	51				6	20.000	33,55
3107.616	16	20	51				6	19.000	35,55
3107.618	18	20	51				6	19.000	37,75
3107.620	20	20	51				6	18.000	40,30
3107.803	3	11	51				8	26.000	24,35
3107.804	4	11	51				8	25.000	24,50
3107.805	5	11	51				8	24.000	24,70
3107.806	6	19	51				8	23.000	25,00
3107.808	8	20	51				8	22.000	30,30
3107.810	10	20	51				8	22.000	31,05
3107.851	10	32	63				8	22.000	36,35
3107.812	12	20	51				8	20.000	32,70
3107.861	12	32	63				8	20.000	37,75
3107.814	14	20	51				8	20.000	33,55
3107.816	16	20	51				8	19.000	35,55
3107.818	18	20	51				8	19.000	37,75
3107.820	20	20	51				8	18.000	40,30
3107.822	22	20	51				8	18.000	41,00
3107.825	25	20	51				8	17.000	43,90
3107.908	8	25	70				12	26.000	36,95
3107.910	10	32	76				12	24.000	39,40
3107.912	12	32	73				12	22.000	40,35
3107.962	12	50	108				12	22.000	58,65
3107.914	14	25	73				12	22.000	40,95
3107.916	16	32	73				12	21.000	41,70
3107.918	18	32	73				12	21.000	45,50
3107.920	20	32	73				12	20.000	47,90
3107.922	22	25	67				12	20.000	48,40
3107.925	25	32	73				12	19.000	58,10
3107.930	30	25	67				12	18.000	74,10
3107.935	35	25	67				12	18.000	79,90
3107.940	40	32	73				12	17.000	111,60
3107.950	51	32	73				12	17.000	133,65

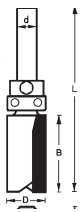
	Two carbide tipped edges parallel to the axis, side cutting and plunging. With ground (non carbide tipped) center tip		For grooving, producing finger joints, tongue and groove joints. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		For professional plunging we recommend our product line 3167 with carbide tipped centre tip
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3157






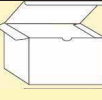


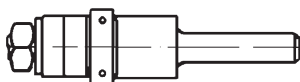
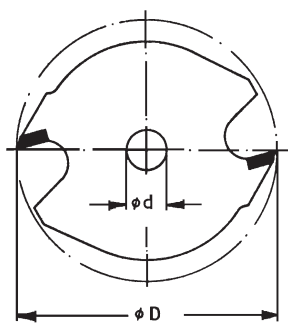
Premium

Straight bit - Template Profile

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3157.625	15,9	25,4	63				6	19.000	46,00

	<p>Two carbide tipped edges parallel to the axis, circumferential cutting construction. With ball bearing guide (Ø 15.9 mm) at the shank</p>		<p>For grooving any profile with a template. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed</p>
	<p>High quality carbide tipping</p>		<p>After producing a template you can groove the same profile in any workpiece with the straight bit.</p>
	<p>Individual for every router bit, see parameters of product</p>		<p>packing unit = 1. Self service. EAN</p>









Order No.	D [mm]	Cutting l. [mm]	d.	\angle [°]	R1 [mm]	R2 [mm]	S- \emptyset [mm]	n max. [RPM]	€
3108.015	40	1,5	6,35					16.000	23,35
3108.020	40	2,0	6,35					16.000	23,35
3108.025	40	2,5	6,35					16.000	24,10
3108.030	40	3,0	6,35					16.000	25,75
3108.035	40	3,5	6,35					16.000	26,20
3108.040	40	4,0	6,35					16.000	26,20
3108.050	40	5,0	6,35					16.000	26,20
3108.060	40	6,0	6,35					16.000	26,20

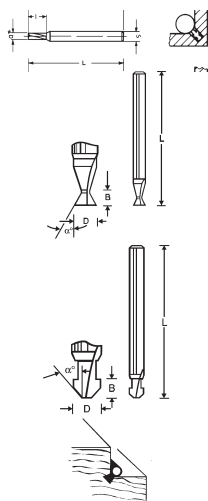
shank with ball bearing

Order No.	D [mm]	Cutting l. [mm]	L [mm]	S- \emptyset [mm]	R1 [mm]	n max. [RPM]	R2 [mm]	n max. [RPM]	€
3108.690	15,9	58		6		16.000			23,10
3108.890	15,9	58		8		16.000			23,10

shank without ball bearing

Order No.	D [mm]	Cutting l. [mm]	L [mm]	S- \emptyset [mm]	R1 [mm]	n max. [RPM]	R2 [mm]	n max. [RPM]	€
3108.691	13	58	6,35	6		16.000			12,60
3108.891	13	58	6,35	8		16.000			12,60

	Two carbide tipped straight edges, circumferential cutting construction		For cutting grooves and slots. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		Specially for tongue and groove joints, production of plugs, cutting slots in general and special slots for the application of Lamello joints (B = 4,0 mm). When slots need to have of constant depth we recommend the version with ball bearing guide
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN



One-sided

Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3107.663	3	11	60				6	30.000	30,30
3107.763	3	11	60				6,35	30.000	30,30

Double-sided







Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3107.673	3	8	70				6	30.000	50,10
3107.773	3	8	65				6,35	30.000	50,10

Dovetailed profile

Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3104.665	5,1	8	60	18			6	30.000	53,35
3104.765	5,1	8	60	18			6,35	30.000	53,35

Studded anchor profile

Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3104.685	5,1	8	60	38			6	30.000	62,55
3104.785	5,5	8	65	38			6,35	30.000	62,55

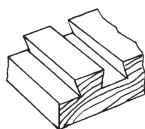
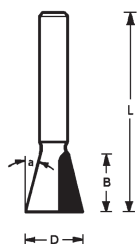
	Two-edged, fully ground, side cutting and plunging		For milling straight or molded lining grooves at windows or doors. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	Solid carbide, 3104 with head of solid carbide		By using fine grained carbide the straight bits of FAMAG have a very high endurance. With appropriate feed it is possible to make the lining groove in a single operation
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3104






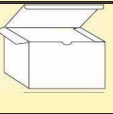


Premium

Dovetail bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3104.612	12,7	12,7	44,5	14			6	21.000	30,75
3104.812	12,7	12,7	44,5	14			8	21.000	30,75

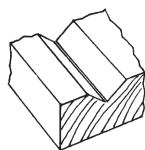
	Two carbide tipped edges, side cutting and plunging		For milling groove joints, e.g. teeth for corner joints or edges and grooves for longitudinal joints. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		To elongate tool life we recommend beginning with a straight bit (e.g. 3107), for producing tear free corner joints we recommend clamping a piece of wood under the workpiece. Before unclamping your workpiece make sure that all teeth are exactly milled out
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3105









Premium

V Groove bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3105.660	12,7	16	44,5	60			6	21.000	30,75
3105.690	12,7	12,7	51	90			6	21.000	30,75
3105.860	12,7	16	44,5	60			8	21.000	30,75
3105.890	12,7	12,7	51	90			8	21.000	30,75

	Two carbide tipped edges, side cutting and plunging. Edges with an angle of 60° or 90° available		For milling v-shaped grooves, ornamental grooves or for chamfering edges. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		The perfect router bit for exact and sharp ornamental grooves at doors and fronts of drawers
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3155






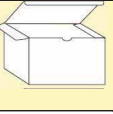


Premium

(Head VHM) V Groove bit - For Engraving Wood

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3155.660	14	22	57	60			6	21.000	76,60
3155.860	14	22	57	60			8	23.000	76,60

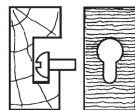
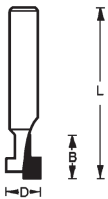
	Head with three edges of solid carbide. Angle of edges 60°, plunging version		For engraving letters of different width and milling of v-shaped grooves at an angle of 60°
	Head of solid carbide		Cutting depth up to 13 mm max and groove width up to 14 mm
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3154



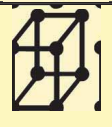


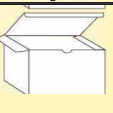


Premium

Keyhole Slot Cutter - Single Fluted

FAMAG[®]
... für Besserbohrer[®]


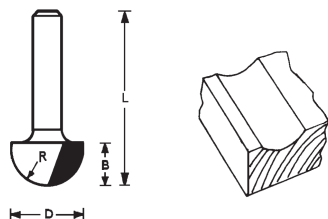
Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3154.609	9,8	9,8	38				6	22.000	24,00
3154.809	9,8	9,8	38				8	24.000	24,00

	One carbide tipped edge parallel to the axis, side cutting and plunging		For cutting slots for hanging pictures, mirrors, shelves, etc. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		If you only want to fix an object at one point, cut the slot vertically so that you can exactly balance the object
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN







3106


 Premium

Core Box bit

FAMAG
 ...für Besserbohrer®


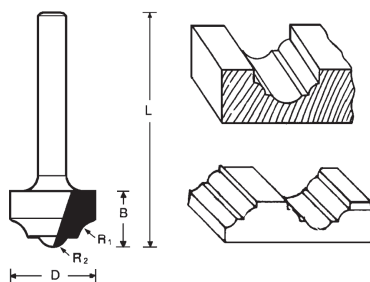
Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3106.609	9,5	6,4	38		4,8		6	22.000	36,35
3106.612	12,7	9,5	38		6,4		6	21.000	39,05
3106.615	15,9	9,5	40		7,9		6	19.000	41,10
3106.809	9,5	6,4	38		4,8		8	22.000	36,35
3106.812	12,7	9,5	38		6,4		8	21.000	39,05
3106.815	15,9	9,5	40		7,9		8	19.000	41,10
3106.819	19,1	12,7	40		9,5		8	18.000	47,60
3106.825	25,4	16	46,5		12,7		8	17.000	51,85

	Two carbide tipped edges, side cutting and plunging		For milling chamfers, ornamental grooves and inner radii at the front of drawers and other surfaces. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		For exact and tear free chamfers we recommend a first run and a second run to finish the chamfer tear free
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN



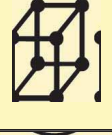


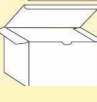
3131


 Premium

Classical bit

FAMAG
 ...für Besserbohrer®


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3131.612	12,7	10,5	51		2,5	3,5	6	20.000	66,95
3131.812	12,7	10,5	51		2,5	3,5	8	20.000	66,95

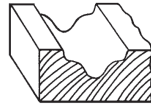
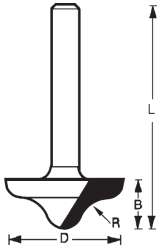
	Two carbide tipped edges, with inner radius. Side cutting and plunging		For milling moulded grooves and edges. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Perfect for ornamenting the fronts of wardrobes and drawers. Due to the bit's detailed configuration a specially delicate moulding is possible
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3137









Premium

Plunge For Round & Ogee bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3137.827	27	11,2	51		6		8	17.000	71,05

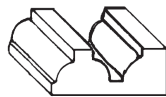
	Two carbide tipped edges. Side cutting and plunging		For milling moulded grooves. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Very fine for ornamenting the fronts of wardrobes and drawers. Due to the two radii without edges it is possible to cut specially pleasant curves without grooves
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3127



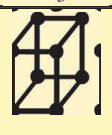


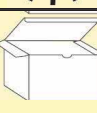


Premium

Beading bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3127.609	9,5	7	51		2,5		6	24.000	42,60
3127.809	9,5	7	51		2,5		8	24.000	42,60

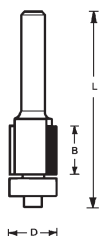
	Two carbide tipped edges, with inner radius. Side cutting and plunging		For milling moulded grooves. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Perfect for ornamenting the fronts of wardrobes and drawers. Due to the small inner radius special filigree curves can be milled
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3101




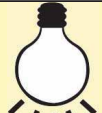




Premium

Flush Trimmer bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S- \emptyset [mm]	n max. [RPM]	€
3101.612	12,7	12,7	60				6	21.000	25,75
3101.625	12,7	25,4	70				6	21.000	32,00
3101.812	12,7	12,7	60				8	21.000	25,75
3101.825	12,7	25,4	70				8	21.000	32,00

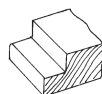
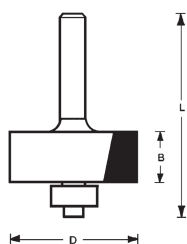
	Two carbide tipped edges parallel to the axis, only side cutting. With ball bearing (\emptyset 12.7 mm) guide at the head		For flush trimming and coatings of workpiece edges. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Optimal for cutting continuous holes in thicker boards. Mill the desired outline with a plunging router bit underneath the board. Bore through the board (min \emptyset 14 mm) and trim the outline at the upper surface flush
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3114



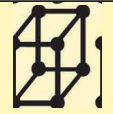


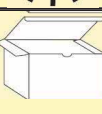


Premium

Rabbeting bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S- \emptyset [mm]	n max. [RPM]	€
3114.631	31,7	12,7	51				6	16.000	57,85
3114.831	31,7	12,7	51				8	18.000	57,85

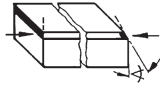
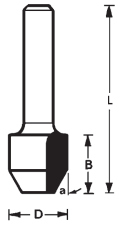
	Two side cutting carbide tipped edges. Changeable ball bearing guide (\emptyset 12.7 mm). Depth of rabbets 9.5 mm		For producing rabbetted joints of frames, fitting of frames and drawers and rabbetting old wooden windows for embedding insulated glass. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Due to the ground front side of the edge very good surfaces of the rabbets are achieved. A rabbet depth of 11.1 mm can be achieved by mounting the ball bearing guide 3119.004 (please order separately)
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3110



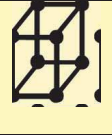


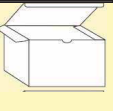


Premium

Combi Trimmer bit - Flush & Bevel

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3110.612	12,7	12,7	41	30			6	20.000	28,95
3110.812	12,7	12,7	41	30			8	22.000	28,95

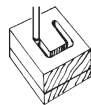
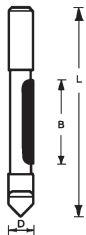
	Two carbide tipped side cutting edges. Angle of chamfering 30°		For separating, trimming flush and chamfering with a router bit: separating and trimming flush with the edge which is parallel to the shank and then chamfering in an angle of 30° by adjusting the milling depth. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		By combining several worksteps you can save time
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3115



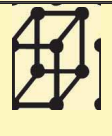


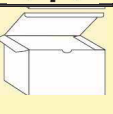


Premium

Panel Pilot bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3115.606	6,4	19	63,5				6	28.000	27,75
3115.806	6,4	19	63,5				8	30.000	27,75

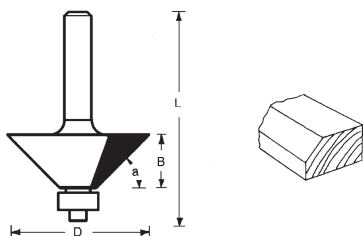
	With a carbide tipped circumferential edge and a non carbide tipped drilling edge		For trimming flush veneers and edges lamination of a workpiece. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide tipping		With a simple template you can easily produce openings for e.g. wall sockets, switches and lamps in wooden ceilings and panels
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3118



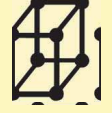





Premium

Bevel bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3118.645	31,8	12,7	53	45			6	15.000	44,95
3118.845	31,8	12,7	53	45			8	16.000	44,95

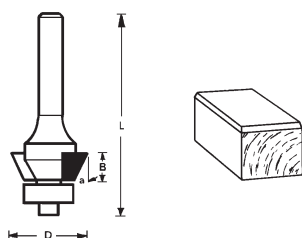
	Two axially carbide tipped side cutting in circumferention execution. Angle of cutting 45°. Changeable ball bearing guide (Ø 9.5 mm) at the head		For chamfering and milling edges in different strenghts. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		For cutting bevels of an angle of 15° we recommend bevel bit 3102
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3102



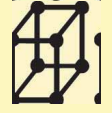


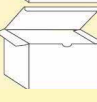


Premium

Bevel bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3102.615	15,9	6,4	52,4	15			6	19.000	26,40
3102.815	15,9	6,4	52,4	15			8	19.000	26,40

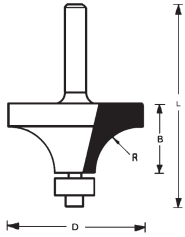
	Two axially carbide tipped side cutting edges only circumferential execution. Changeable ball bearing guide (Ø 12.7 mm) at the head		For professional chamfering and milling edges. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Provides edges for furniture which abrades easily (e.g. table and chair legs) with an exact and inured bevel
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3109



Premium

Rounding-Over bit

FAMAG[®]
...für Besserbohrer[®]


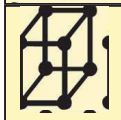
Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3109.618	18,7	9,5	49		3		6	19.000	55,65
3109.625	25,4	12,7	51		6,4		6	17.000	57,60
3109.628	28,6	12,7	51		8		6	17.000	59,05
3109.631	31,8	15,9	55,5		9,5		6	16.000	64,35
3109.818	18,7	9,5	49		3		8	19.000	55,65
3109.819	20,7	9,5	49		4		8	18.000	55,65
3109.825	25,4	12,7	51		6,4		8	17.000	57,60
3109.828	28,6	12,7	51		8		8	17.000	59,05
3109.831	31,8	15,9	55,5		9,5		8	16.000	64,35
3109.838	38,1	19,1	57		12,7		8	16.000	68,95



Two carbide tipped circumferential execution cutting edges. Changeable ball bearing guide (Ø 12.7 mm) at the head



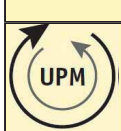
For milling outer radii at edges of workpieces. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed



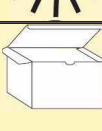
High quality carbide tipping



To mill covings we recommend our product line 3119



Individual for every router bit, see parameters of product



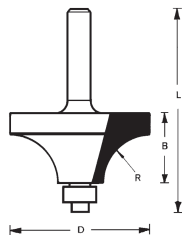
packing unit = 1. Self service. EAN

3119



Premium

Ovolo bit

FAMAG[®]
...für Besserbohrer[®]


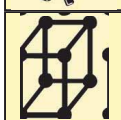
Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3119.625	25,4	12,7	51		6,4		6	17.000	57,60
3119.628	28,6	12,7	51		7,9		6	16.000	59,05
3119.631	31,8	15,9	55,5		9,5		6	16.000	64,35
3119.819	19,1	9,5	47,5		4		8	18.000	55,65
3119.825	25,4	12,7	51		6,4		8	17.000	57,60
3119.828	28,6	12,7	51		7,9		8	16.000	59,05
3119.831	31,8	15,9	55,5		9,5		8	16.000	64,35
3119.838	38,1	19,1	57		12,7		8	15.000	68,95



Two carbide tipped side cutting edges with inner radius in circumferential execution. Changeable ball bearing guide (Ø 9.5 mm) at the head



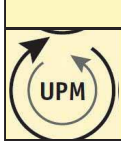
For milling covings or profiles with a small rabbet. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed



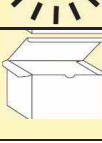
High quality carbide tipping



If you want to mill a coving without rabbet we recommend the router bit 3109. Furthermore you can change the ball bearing guide from Ø 9.5 mm to 12.7 mm



Individual for every router bit, see parameters of product



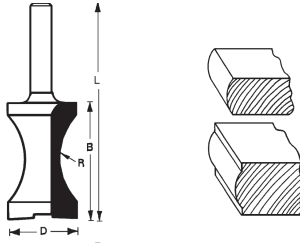
packing unit = 1. Self service. EAN

3125



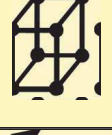





Premium

Flat Bull Nose bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3125.820	20,2	32	62,6		18		8	18.000	98,65

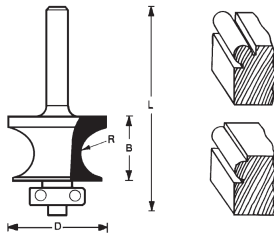
	Two axially carbide tipped side cutting edges in circumferential execution		For milling flat curves at mouldings, edges and front of boards. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Boards thinner than 20 mm will have curves without rabbets. If the boards are thicker than 20 mm (max. 30 mm) a rabbet is formed at the bottom and at the top. All boards under 20mm will have a curve without rabbets.
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3123



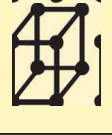





Premium

Torus bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3123.828	28,2	16	57		4,8		8	17.000	68,30

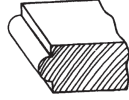
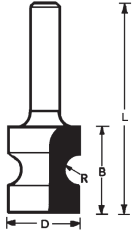
	Two carbide tipped side cutting edges with an inner radius of 4,8 mm in circumferential execution. Changeable ball bearing guide (Ø 16 mm) at the head		For milling corners and edges. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		In two worksteps you can produce a whole handle strip
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3124



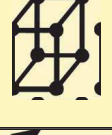





Premium

Bull Nose bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3124.822	22,2	19,1	47,6		5,2		8	18.000	84,60

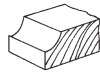
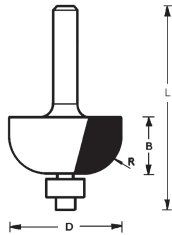
	Two carbide tipped side cutting edges parallel to the shank with an inner radius of 5.2 mm in circumferential execution		For milling rounded edges at sills, frames and stairrails. Suitable for all kinds of solid wood, wooden and laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Beads should be at least 10.4 mm thick. If you want to mill an edge with two rabbets you should use ledges up to 19 mm thick
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3112



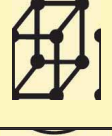





Premium

Core bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3112.625	25,4	14,3	55		7,9		6	17.000	59,05
3112.822	22,2	14,3	55		6,4		8	18.000	57,60
3112.825	25,5	14,4	55		8		8	17.000	59,05
3112.834	34,9	16	54		12,7		8	16.000	68,90

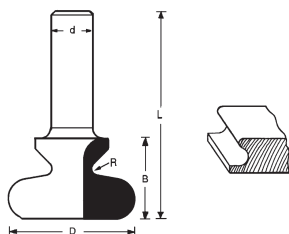
	Two axially carbide tipped side cutting edges in circumferential executions. Changeable ball bearing guide (Ø 9.5 mm) at the head		For milling end strips, fronts of drawers, cabinet doors and all ornamental strips with an inner radius. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Can be combined with rounding over bit 3109 with respective radii 6, 4, 8 and 12.7 mm
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3148






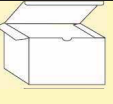


Premium

Finger Grip bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3148.819	19,1	19	55,6		4,8		8	19.000	86,85

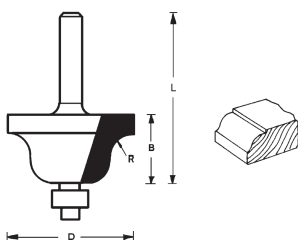
	Two carbide tipped side cutting edges in circumferential execution		For milling profiles, grooves and handle strips
	High quality carbide tipping		For all standard routers with chuck. Manual feed is allowed
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3113



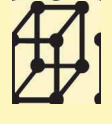





Premium

Roman Ogee bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3113.625	25,4	16	54		4		6	17.000	61,00
3113.634	34,9	20	57		6,4		6	16.000	67,50
3113.825	25,4	16	54		4		8	17.000	61,00
3113.834	34,9	20	57		6,4		8	16.000	67,45

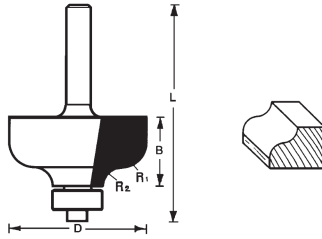
	Two carbide tipped side cutting edges in circumferential execution. Changeable ball bearing guide (Ø 9.5 mm) at the head		For milling ornamental strips at picture frames, table edges, fronts of wardrobes, drawers, baseboards etc. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		To get good results we recommend milling in repeated worksteps
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3138



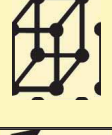





Premium

Ogee Fillet bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3138.834	34,9	17,5	55,6		6	5	8	16.000	87,65

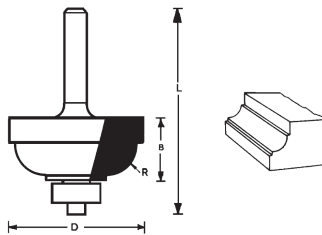
	Two carbide tipped side cutting edges in circumferential execution. Changeable ball bearing guide (Ø 12.7 mm) at the head		For milling ornamental strips at picture frames, table edges, fronts of wardrobes, drawers, baseboards etc. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		Specially for ornamenting the fronts of wardrobes and drawers. Due to the two ground radii without edges it is possible to produce curves without rabbets
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3139



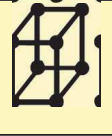





Premium

Classic Cove bit

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3139.628	28,6	12,7	51		4,8		6	16.000	75,50
3139.828	28,6	12,7	51		4,8		8	16.000	75,50

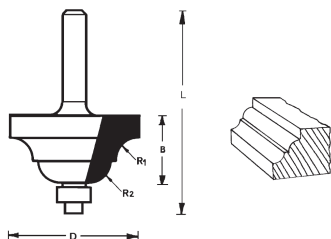
	Two carbide tipped side cutting edges in circumferential execution. Changeable ball bearing guide (Ø 12.7 mm) at the head		For milling ornamental strips at picture frames, table edges, fronts of wardrobes, drawers, baseboards etc. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		If you want to cut a chamfer without rabbets we recommend the core bit 3112
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3134



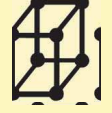





Premium

Classical bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3134.625	25,4	16	54		4		6	17.000	67,55
3134.634	34,9	20	57		6,35		6	16.000	68,95
3134.825	25,4	16	54		4		8	17.000	67,55
3134.834	34,9	20	57		6,35		8	16.000	68,95

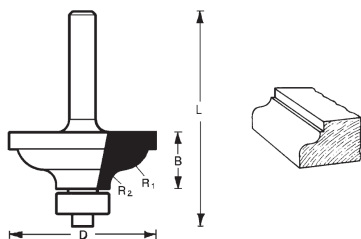
	Two carbide tipped side cutting edges in circumferential execution. Changeable ball bearing guide (Ø 9.5 mm) at the head		For milling ornamental strips at picture frames, table edges, fronts of wardrobes, drawers, baseboards etc. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		To get good results we recommend milling in repeated worksteps
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3121



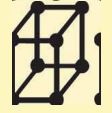


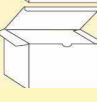


Premium

Ogee Fillet bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	< [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3121.634	34,9	13,5	52,4		4	4	6	16.000	98,75
3121.834	34,9	13,5	52,4		4	4	8	17.000	98,75

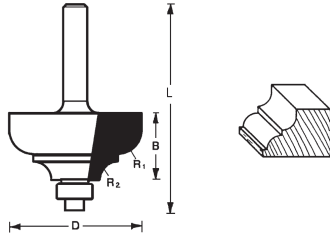
	Two carbide tipped side cutting edges with two radii and circumferential execution Changeable ball bearing guide (Ø 12.7 mm) at the head		For milling decorative profiles at ornaments, fronts of furniture and drawers and tabletops. Suitable for all kinds of solid wood laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		To get smooth surfaces we recommend milling in repeated worksteps
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3135



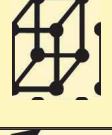





Premium

Ogee Fillet bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3135.834	34,9	17,5	56		6,4	5	8	16.000	98,90

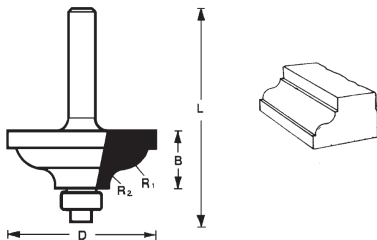
	Two carbide tipped side cutting edges in circumferential execution. Changeable ball bearing guide (Ø 9.5 mm) at the head		For milling ornamental strips at picture frames, table edges, fronts of wardrobes, drawers, baseboards etc. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide tipping		To get good results we recommend milling in repeated worksteps
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3122



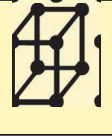





Premium

Ogee Fillet bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3122.634	34,9	13,5	52,4		4	4	6	16.000	98,75
3122.834	34,9	13,5	52,4		4	4	8	17.000	98,75

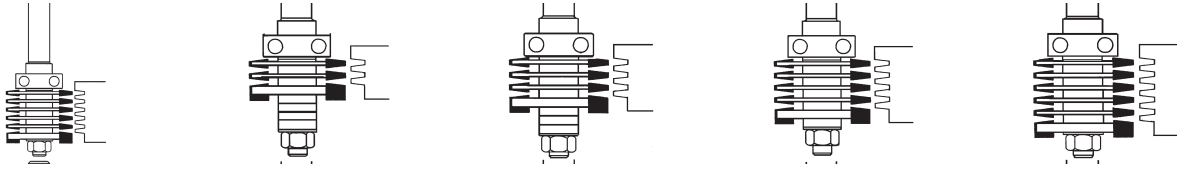
	Two carbide tipped side cutting edges with two radii in circumferential execution Changeable ball bearing guide (Ø 9.5 mm) at the head		For milling decorative profiles with rabbets at ornaments, fronts of furniture and drawers and tabletops. Manual feed is allowed
	High quality carbide tipping		To get smooth surfaces we recommend milling in repeated worksteps.If you want to cut a profile without rabbet we recommend the ogee fillet bit 3121 with ball bearing guide Ø 12.7 mm
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3158



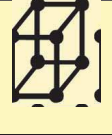





Premium

Finger Jointer Set

FAMAG[®]
...für Besserbohrer[®]


Order No.	Kurz-Nr. [Ø]	D [mm]	Cutting l. [mm]	L [mm]	α [°]	R1 [mm]	R2 [mm]	S-Ø [mm]	n max. [RPM]	€
3158.939	64/12	39,7						12	15.000	163,85

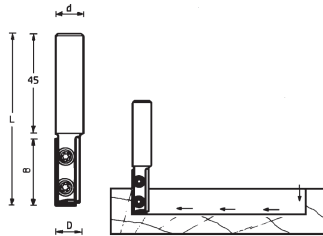
	Composed of shank with ball bearing guide (Ø 28 mm), spacers, washer, mounting nut and 6 slotting cutters, carbide tipped for plunging		Produce a geometry of slots with this router bit at the front surface of the connecting workpiece. The milled matching part can be glued firmly. Manual feed is allowed.
	High quality carbide tipping		The produced connections are especially stable and nearly invisible due to the greater glue line.
	Individual for every router bit, see product parameters		packing unit = 1. Self service. EAN

3217



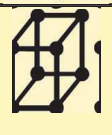


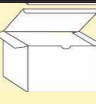


Premium

Straight And Plunge bit One Blade

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	S-Ø [mm]	TCT blade [Order no.]	n max. [RPM]	€
3217.932	12	30	77	12	3290.930	22.000	93,10
3217.934	14	30	77	12	3290.930	20.000	112,70
3217.936	16	30	88	12	3290.130	18.000	93,55
3217.956	16	50	107	12	3290.050	18.000	111,50
3217.938	18	30	88	12	3290.130	18.000	94,85
3217.958	18	50	107	12	3290.050	18.000	112,10
3217.940	20	30	88	12	3290.130	16.000	97,65
3217.960	20	50	107	12	3290.050	16.000	118,25
3217.942	22	30	88	12	3290.130	16.000	100,90

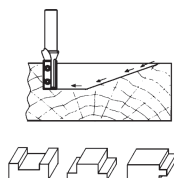
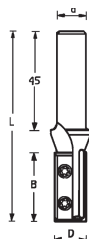
	A carbide tipped changeable blade parallel to the shank, side and end cutting. The blade can be used as cutting bit		For grooving, cutting finger joints and matched joints. Due to the carbide tipped head of the blade plunging is possible without restrictions. Suitable for all kinds of solid wood, laminated materials and some plastics.
	High quality carbide reversing blade		Long endurance and little downtime, because the blades are changed quickly and regrinding is not necessary. If you don't want to use the bit for plunging we recommend version 3227
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3227



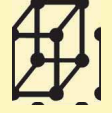





Premium

Staggered Straight bit Two Blade

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	S-Ø [mm]	TCT blade [Order no.]	n max. [RPM]	€
3227.934	14	30	86	12	3290.930	20.000	112,70
3227.936	16	30	88	12	3290.930	20.000	114,65
3227.956	16	50	107	12	3290.050	18.000	134,90
3227.938	18	30	88	12	3290.130	18.000	116,90
3227.958	18	50	107	12	3290.050	18.000	138,30
3227.960	20	50	107	12	3290.050	16.000	143,45
3227.942	22	30	88	12	3290.130	16.000	123,30

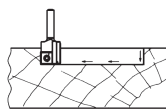
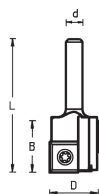
	Two carbide tipped, changeable side cutting blades parallel to the shank		For grooving, cutting finger joints and matched joints. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide reversing blade		Long endurance and little downtime, because the blades are changed quickly and regrinding is not necessary. If you want to use the bit for plunging we recommend version 3217
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3207








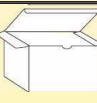
Premium

Staggered Straight And Plunge bit Two Blade

FAMAG[®]
... für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	S-Ø [mm]	TCT blade [Order no.]	n max. [RPM]	€
3207.618	18	20	52	6	3290.012	22.000	99,65
3207.620	20	20	52	6	3290.012	22.000	105,40
3207.622	22	20	52	6	3290.012	20.000	108,20
3207.818	18	20	52	8	3290.012	24.000	99,65
3207.820	20	20	52	8	3290.012	22.000	105,40
3207.822	22	20	52	8	3290.012	22.000	108,20



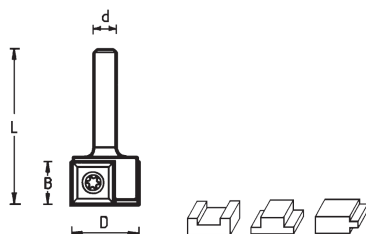
	Two carbide tipped, changeable side and end cutting blades parallel to the shank. The blades are constructed in an 90° angle and one blade can be used as cutting bit		For grooving, cutting finger joints and matched joints. Due to the carbide tipped blade head plunging is possible without restrictions. Suitable for all kinds of solid wood, laminated materials and some plastics.
	High quality carbide reversing blade		Long endurance and little downtime, because the blades can be changed quickly and regrinding is not necessary. If you don't want to use the bit for plunging we recommend version 3203
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3203



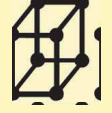





Premium

Flush Trimming bit - No Plunge Two Blade

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	S-Ø [mm]	TCT blade [Order no.]	n max. [RPM]	€
3203.620	20	12	44	6	3290.012	22.000	86,70
3203.622	22	12	44	6	3290.012	20.000	91,55
3203.818	18	12	44	8	3290.012	24.000	84,35
3203.820	20	12	44	8	3290.012	24.000	86,70

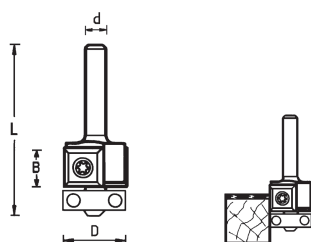
	Two axially carbide tipped, changeable side cutting blades parallel to the shank, circumferential execution		For grooving, cutting finger joints and matched joints. Suitable for all kinds of solid wood, laminated materials and some plastics. Manual and mechanical feed is allowed
	High quality carbide reversing blade		Long endurance and little downtime, because the blades are changed quickly and regrinding is not necessary. If you want to use the bit for plunging we recommend version 3207
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3201



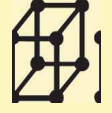


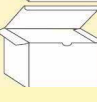


Premium

Flush Trimming bit

FAMAG[®]
...für Besserbohrer[®]


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	S-Ø [mm]	TCT blade [Order no.]	n max. [RPM]	€
3201.612	19	12	52	6	3290.012	22.000	91,55
3201.630	19	30	70	6	3290.030	22.000	108,20
3201.812	19	12	54	8	3290.012	24.000	91,55
3201.830	19	30	72	8	3290.030	24.000	108,20

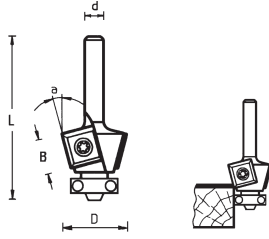
	Two axially carbide tipped, changeable side cutting blades parallel to the shank in circumferential execution. Changeable ball bearing guide (Ø 19 mm) at the head		For chamfering and milling edges at all kinds of solid wood, laminated materials and some plastics. Manual feed is allowed
	High quality carbide reversing blade		Long endurance and little downtime, because the blades are quickly changed and regrinding is not necessary
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3202



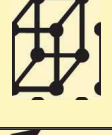





Premium

Bevel Trimming bit

FAMAG®
... für Besserbohrer®


Order No.	D [mm]	Cutting l. [mm]	OAL [mm]	< [°]	S-Ø [mm]	TCT blade		€
						[Order no.]	n max. [RPM]	
3202.615	20	12	55	15	6	3290.012	22.000	101,00
3202.630	26	12	54	30	6	3290.012	18.000	113,05
3202.645	27	12	57	45	6	3290.012	16.000	114,70
3202.815	20	12	55	15	8	3290.012	24.000	101,00
3202.845	27	12	57	45	8	3290.012	18.000	114,70

	Two carbide tipped, changeable side cutting blades parallel to the shank only circumferential execution. Changeable ball bearing guide (Ø 15.9 mm) at the head		For milling profiles, grooves and chamfers at nearly all kinds of solid wood, laminated materials and plastics also CORIAN etc.
	High quality carbide reversing blade		Long endurance and little downtime, because the blades can be changed quickly and regrinding is not necessary
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3191









Premium

Ball Bearings

FAMAG®
... für Besserbohrer®

Order No.	Description	O-Ø [mm]	AØ [Inch]	I-Ø [mm]	IØ [Inch]	Height [mm]	€
3191.001	For item: 3112, 3113, 3118, 3134	9,5	3/8	3,2	1/8	4,0	12,10
3191.004	For item: 3119, 3122, 3135	9,5	3/8	4,8	3/16	3,0	13,40
3191.005	For item: 3157, 3202.615/630/815/830	15,9	5/8	6,4	1/4	5,0	13,40
3191.007	For item: 3101, 3102, 3109, 3114, 3121, 3138, 3139	12,7	1/2	4,8	3/16	5,0	13,40
3191.010	For item: 3123	16,0		5,0		5,0	13,40
3191.114	For item: 3202.645/845	12,7	1/2	6,4	1/4	5,8	15,55
3191.113	For item: 3201	19		6		6	14,00

	Premium ball bearing with attachment screw and spacer (not for bevel trimming bits)		Applicable to all FAMAG router bits and bevel trimming bits with ball bearing guide. Please pay attention whether you order the bearing for using it with a router / bevel trimming bit
			Only use FAMAG ball bearings for the FAMAG router bits
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN

3195



Premium

(suitable to 3191) Wrenches and Bolts for 3191

FAMAG®
... für Besserbohrer®

Hexagon key serie 3195 for router bits



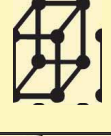


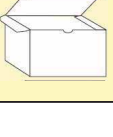
Order No.	Description	SW [Inch]	Wrench size [mm]	€
3195.064	appropriate for item number: 3191.001	5/64"	1,98	4,60
3195.332	appropriate for item number: 3191.004, 3191.007	3/32"	2,38	5,45

Torx key for Flush trimming bits

Order No.	Description	Wrench size [mm]	€
3295.015	appropriate for al mentioned item numbers	T15	7,30

Torx screw for Flush trimming bits

Order No.	Wrench size [mm]	€
3291.035	M 3,5	3,80
3291.040	M 4	2,85

	Wrenches		Applicable to all FAMAG ball bearings 3191
	Chrome vanadium steel		Only the wrench 3195.332 fits the hexagon socket (5/64")
	Dependig on the skills		packing unit = 1. Self service. EAN

3290






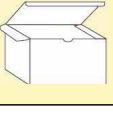


Premium

Reversing blade carbide

FAMAG®
... für Besserbohrer®

Order No.	Description	Cutting l. [mm]	Height [mm]	thickness [mm]	Torx-Schr.	€
3290.012	four-toothed	12	12	1,5	3291.040	5,45
3290.030	two-toothed	12	30	1,5	3291.040	7,05
3290.050	four-toothed	12	50	1,5	3291.035	13,50
3290.130	four-toothed	12	30	1,5	3291.035	13,25
3290.930	four-toothed	9	30	1,5	3291.035	6,95

	High quality reversing blades of carbide for the exchange of FAMAG insert cutters		Use only the original inserts for the FAMAG-insert cutters, that'll save time and trouble.
	High quality reversing blades of carbide		These reversing blades are specifically designed for the FAMAG cutters with indexable inserts and are simply the best fit
	Individual for every router bit, see parameters of product		packing unit = 1. Self service. EAN



Twist drills and countersinks for metal 105



Twist Drill short version with 1/4" Hexagon Drive (bit)	106
L-Shaped Driver PRO75	108
Twist Drills DIN 338, fully ground	109
Twist Drills, Co 5%, DIN 338, fully ground with split point	111
Twist Drills HSS-TIN DIN 338, fully ground titanium coated	113
Twist Drills double end, fully ground	114
Twist Drills, Co 5%, DIN 340, fully ground with split point	115
Twist Drills, Co 5%, DIN 1669, fully ground, packaged	116
Twist Drill long version HSS-G	117
Drill and milling cutter HSS	118
Countersink for machine	118
Hole enlarger	119
Step drill HSS	120



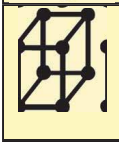
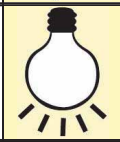

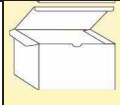




Order No.	O-Ø [mm]	Shank type [mm]	OAL [mm]	Spiral l. [mm]	€
2596.030	3	C 6,3	38	16	6,85
2596.033	3,3	C 6,3	40	18	6,85
2596.035	3,5	C 6,3	40	18	6,85
2596.040	4	C 6,3	44	20	6,85
2596.042	4,2	C 6,3	46	24	7,05
2596.045	4,5	C 6,3	46	24	7,05
2596.050	5	C 6,3	50	26	7,05
2596.055	5,5	C 6,3	50	26	7,55
2596.060	6	C 6,3	50	26	7,55
2596.065	6,5	C 6,3	50	30	7,55
2596.068	6,8	C 6,3	50	30	7,55
2596.070	7	C 6,3	50	30	7,55
2596.075	7,5	C 6,3	51	32	9,45
2596.080	8	C 6,3	51	32	9,45
2596.085	8,5	C 6,3	53	33	10,25
2596.090	9	C 6,3	53	33	11,60
2596.100	10	C 6,3	54	38	11,60

Sets

Order No.	Description	€
2596.805	Set of 5 pieces in plastic box. Ø 3, 4, 5, 6, 8 mm	33,80
2596.508	Set of 9 pieces in wooden case. Ø 3, 4, 5, 6, 7, 8, 9, 10 mm and bitholder	64,70






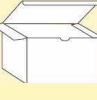
	<p>One-piece twist drill ground from the solid, short version with hexagon drive (1/4"; E 6,3), polished section of the envelope of cone 118°, bright</p>		<p>For boring in alloyed and non-alloyed steel and cast steel up to 900 N/mm², grey and malleable iron, etc. with a cordless screwdriver. The ground chip flutes guarantee good chip removal</p>
	<p>HSS-G</p>		<p>It is recommended to use a lockable bit holder to avoid the drill bit getting jammed in the drill hole</p>
	<p>Corresponding diagrams or cordless screwdriver</p>		<p>packing unit = 1. PE tube. EAN</p>



Order No.	O-Ø [mm]	SØ [Ø]	OAL [mm]	Spiral l. [mm]	€
2597.030	3	E 6,3	70	35	6,85
2597.033	3,3	E 6,3	70	35	6,85
2597.035	3,5	E 6,3	70	35	6,85
2597.040	4	E 6,3	75	40	6,85
2597.042	4,2	E 6,3	80	45	7,05
2597.045	4,5	E 6,3	80	45	7,05
2597.050	5	E 6,3	86	51	7,05
2597.055	5,5	E 6,3	93	57	7,55
2597.060	6	E 6,3	93	57	7,55
2597.065	6,5	E 6,3	101	63	7,55
2597.068	6,8	E 6,3	101	63	7,55
2597.070	7	E 6,3	109	69	7,55
2597.075	7,5	E 6,3	109	69	9,45
2597.080	8	E 6,3	117	75	9,45
2597.085	8,5	E 6,3	117	75	10,25
2597.090	9	E 6,3	125	81	11,60
2597.100	10	E 6,3	133	87	11,60
2597.110	11	E 6,3	142	94	14,65
2597.120	12	E 6,3	151	101	16,05
2597.130	13	E 6,3	151	101	17,20

Sets

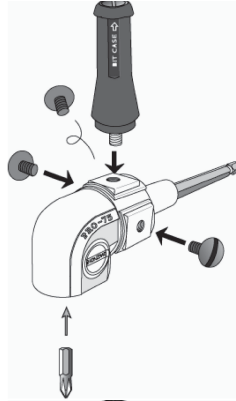
Order No.	Description	€
2597.805	Set of 5 pieces in plastic box. Ø 3, 4, 5, 6, 8 mm	33,80

	One-piece twist drill ground from the solid, long version with hexagon drive (1/4"; E 6,3), polished section of the envelope of cone 118°		For boring in alloyed and non-alloyed steel and cast steel up to 900 N/mm ² , grey and malleable iron, etc. with a cordless screwdriver
	HSS-G		It is recommended to use a lockable bit holder to avoid the drill bit getting jammed in the drill hole
	Corresponding diagrams or cordless screwdriver		packing unit = 1. PE tube. EAN



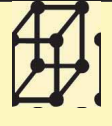


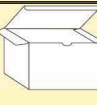
1597.750

Profi

L-Shaped Driver PR075



Order No.	Bit [mm]	Angle	Height [mm]	€
1597.750	6,3	90°	40	92,00
Sets				
Order No.	Description			€
1597.757	Pro75 set in wooden case in version wood working. 1596 Ø 3, 4, 5, 6 mm, countersink, chuck and bits			117,40
1597.758	Pro75 set in wooden case in version metal working. 2596 Ø 3, 4, 5, 6 mm, countersink, cuck and bits			117,40
2597.612	Set 13 pcs. in bag. Type 1596 Ø 3, 4, 5, 6, 8, 10 mm, coutersink and cuck			141,90
2597.613	Set 13 pcs. in bag. Type 1597 Ø 3, 4, 5, 6, 8, 10 mm, coutersink and cuck			145,00

	Stable L-shaped driver with casing made of aluminium and aslant toothed metal gear wheels (ideal transmission). Take up for all 1/4" bits and boring tools (e.g. 1596) with hex shank. Angle of screwing 90°, exchangeable plastic handle		Professional screwing and drilling also in deep angles with cordless screwdriver
	Casing made of aluminium		It's ideal for making screwed connections with a cordless screwdriver even when there is little space. Great in combination with 1596/2596
	Rotational speed of cordless screwdriver max 2000 min-1		Packing unit = 1, Blister. EAN









Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2410.010	1,0	34	12	10	1,20
2410.011	1,1	36	14	10	1,20
2410.012	1,2	38	16	10	1,20
2410.013	1,3	38	16	10	1,20
2410.014	1,4	40	18	10	1,20
2410.015	1,5	40	18	10	1,20
2410.016	1,6	43	20	10	1,20
2410.017	1,7	43	20	10	1,20
2410.018	1,8	46	22	10	1,20
2410.019	1,9	46	22	10	1,20
2410.020	2,0	49	24	10	1,20
2410.021	2,1	49	24	10	1,20
2410.022	2,2	53	27	10	1,20
2410.023	2,3	53	27	10	1,20
2410.024	2,4	57	30	10	1,20
2410.025	2,5	57	30	10	1,20
2410.026	2,6	57	30	10	1,25
2410.027	2,7	61	33	10	1,25
2410.028	2,8	61	33	10	1,25
2410.029	2,9	61	33	10	1,25
2410.030	3,0	61	33	10	1,25
2410.031	3,1	65	36	10	1,25
2410.032	3,2	65	36	10	1,25
2410.033	3,3	65	36	10	1,25
2410.034	3,4	70	39	10	1,25
2410.035	3,5	70	39	10	1,25
2410.036	3,6	70	39	10	1,35
2410.037	3,7	70	39	10	1,40
2410.038	3,8	75	43	10	1,45
2410.039	3,9	75	43	10	1,45
2410.040	4,0	75	43	10	1,45
2410.041	4,1	75	43	10	1,55
2410.042	4,2	75	43	10	1,55
2410.043	4,3	80	47	10	1,55
2410.044	4,4	80	47	10	1,55
2410.045	4,5	80	47	10	1,65
2410.046	4,6	80	47	10	1,65
2410.047	4,7	80	47	10	1,65
2410.048	4,8	86	52	10	1,65
2410.049	4,9	86	52	10	1,70
2410.050	5,0	86	52	10	1,70
2410.051	5,1	86	52	10	1,75
2410.052	5,2	86	52	10	1,75
2410.053	5,3	86	52	10	2,05
2410.054	5,4	93	57	10	2,05
2410.055	5,5	93	57	10	2,05
2410.056	5,6	93	57	10	2,05
2410.057	5,7	93	57	10	2,05
2410.058	5,8	93	57	10	2,15
2410.059	5,9	93	57	10	2,15
2410.060	6,0	93	57	10	2,05
2410.061	6,1	101	63	10	2,30
2410.062	6,2	101	63	10	2,30
2410.063	6,3	101	63	10	2,35
2410.064	6,4	101	63	10	2,35
2410.065	6,5	101	63	10	2,35
2410.066	6,6	101	63	10	2,70
2410.067	6,7	101	63	10	2,70
2410.068	6,8	109	69	10	2,65
2410.069	6,9	109	69	10	3,00
2410.070	7,0	109	69	10	2,80
2410.071	7,1	109	69	10	3,15
2410.072	7,2	109	69	10	3,15
2410.073	7,3	109	69	10	3,15
2410.074	7,4	109	69	10	3,15
2410.075	7,5	109	69	10	3,05

Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2410.076	7,6	117	75	10	3,50
2410.077	7,7	117	75	10	3,50
2410.078	7,8	117	75	10	3,50
2410.079	7,9	117	75	10	3,50
2410.080	8,0	117	75	10	3,50
2410.081	8,1	117	75	10	3,75
2410.082	8,2	117	75	10	3,75
2410.083	8,3	117	75	10	4,10
2410.084	8,4	117	75	10	4,10
2410.085	8,5	117	75	5	3,95
2410.086	8,6	125	81	5	4,50
2410.087	8,7	125	81	5	4,50
2410.088	8,8	125	81	5	4,50
2410.089	8,9	125	81	5	4,50
2410.090	9,0	125	81	5	4,30
2410.091	9,1	125	81	5	4,75
2410.092	9,2	125	81	5	4,75
2410.093	9,3	125	81	5	4,75
2410.094	9,4	125	81	5	4,75
2410.095	9,5	125	81	5	4,90
2410.096	9,6	133	87	5	5,50
2410.097	9,7	133	87	5	5,50
2410.098	9,8	133	87	5	5,50
2410.099	9,9	133	87	5	5,50
2410.100	10,0	133	87	5	5,30
2410.102	10,2	133	87	5	6,70
2410.105	10,5	133	87	5	6,70
2410.110	11,0	142	94	5	7,50
2410.115	11,5	142	94	5	8,25
2410.120	12,0	151	101	5	9,20
2410.125	12,5	151	101	5	10,30
2410.130	13,0	151	101	5	11,35

Sets

Order No.	Description	€
2410.805	Set of 5 pieces, HSS-G. Ø 3, 4, 5, 6, 8 mm DIN 338	11,20
2410.519	HSS-G drill box 19 pieces, 1-10mm 0,5 mm upwards DIN 338	52,65
2410.525	HSS-G drill box 25 pieces, 1-13mm 0,5 mm upwards DIN 338	78,80

	Twist drill HSS-G DIN 338, ground from the solid, short, cylindrical, right-hand cutting, spiral type N, tolerance of diameter h 8. Polished section of the envelope of cone 118°, bright		Suitable for highest quality demands of industry and craft. For boring in alloyed and non alloyed steel and cast steel up to 900 N/mm ² , grey, ductile, sintered and malleable iron, nickel silver and graphite, etc.
	HSS-G		Professional quality for high quality demands. For highest quality demands e.g. high-grade steel V2A we recommend our version 2420 of cobalt alloyed HSS, with a special spiral and crosswise grinding
	Corresponding diagrams		packing unit = 10 pcs in PE box., from Ø 8,5 mm packing unit = 5. EAN. Price for each drill in a packing unit



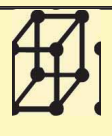





Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2420.015	1,5	40	18	10	2,10
2420.016	1,6	43	20	10	2,15
2420.017	1,7	43	20	10	2,15
2420.018	1,8	46	22	10	2,15
2420.019	1,9	46	22	10	2,15
2420.020	2,0	49	24	10	2,20
2420.021	2,1	49	24	10	2,20
2420.022	2,2	53	27	10	2,20
2420.023	2,3	53	27	10	2,20
2420.024	2,4	57	30	10	2,20
2420.025	2,5	57	30	10	2,20
2420.026	2,6	57	30	10	2,35
2420.027	2,7	61	33	10	2,35
2420.028	2,8	61	33	10	2,35
2420.029	2,9	61	33	10	2,35
2420.030	3,0	61	33	10	2,35
2420.031	3,1	65	36	10	2,65
2420.032	3,2	65	36	10	2,65
2420.033	3,3	65	36	10	2,65
2420.034	3,4	70	39	10	2,65
2420.035	3,5	70	39	10	2,80
2420.036	3,6	70	39	10	2,80
2420.037	3,7	70	39	10	2,80
2420.038	3,8	75	43	10	2,80
2420.039	3,9	75	43	10	2,80
2420.040	4,0	75	43	10	3,10
2420.041	4,1	75	43	10	3,10
2420.042	4,2	75	43	10	3,10
2420.043	4,3	80	47	10	3,10
2420.044	4,4	80	47	10	3,10
2420.045	4,5	80	47	10	3,50
2420.046	4,6	80	47	10	3,60
2420.047	4,7	80	47	10	3,60
2420.048	4,8	86	52	10	3,60
2420.049	4,9	86	52	10	3,60
2420.050	5,0	86	52	10	3,80
2420.051	5,1	86	52	10	4,05
2420.052	5,2	86	52	10	4,05
2420.053	5,3	86	52	10	4,05
2420.054	5,4	93	57	10	4,05
2420.055	5,5	93	57	10	4,10
2420.056	5,6	93	57	10	4,60
2420.057	5,7	93	57	10	4,60
2420.058	5,8	93	57	10	4,60
2420.059	5,9	93	57	10	4,60
2420.060	6,0	93	57	10	4,75
2420.061	6,1	101	63	10	5,05
2420.062	6,2	101	63	10	5,05
2420.063	6,3	101	63	10	5,05
2420.064	6,4	101	63	10	5,05
2420.065	6,5	101	63	10	5,05
2420.066	6,6	101	63	10	6,00
2420.067	6,7	101	63	10	6,00
2420.068	6,8	109	69	10	6,00
2420.069	6,9	109	69	10	6,00
2420.070	7,0	109	69	10	6,00
2420.071	7,1	109	69	10	6,30
2420.072	7,2	109	69	10	6,30
2420.073	7,3	109	69	10	6,30
2420.074	7,4	109	69	10	6,30
2420.075	7,5	109	69	10	6,30
2420.076	7,6	117	75	10	7,15
2420.077	7,7	117	75	10	7,15
2420.078	7,8	117	75	10	7,15
2420.079	7,9	117	75	10	7,15
2420.080	8,0	117	75	10	7,35

Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2420.081	8,1	117	75	10	8,15
2420.082	8,2	117	75	10	8,15
2420.083	8,3	117	75	10	8,15
2420.084	8,4	117	75	10	8,15
2420.085	8,5	117	75	5	8,15
2420.086	8,6	125	81	5	8,80
2420.087	8,7	125	81	5	8,80
2420.088	8,8	125	81	5	8,80
2420.089	8,9	125	81	5	8,80
2420.090	9,0	125	81	5	8,80
2420.091	9,1	125	81	5	9,90
2420.092	9,2	125	81	5	9,90
2420.093	9,3	125	81	5	9,90
2420.094	9,4	125	81	5	9,90
2420.095	9,5	125	81	5	9,90
2420.096	9,6	133	87	5	10,85
2420.097	9,7	133	87	5	10,85
2420.098	9,8	133	87	5	10,85
2420.099	9,9	133	87	5	10,85
2420.100	10,0	133	87	5	10,85
2420.102	10,2	133	87	5	17,05
2420.105	10,5	133	87	5	17,05
2420.110	11,0	142	94	5	17,05
2420.115	11,5	142	94	5	20,15
2420.120	12,0	151	101	5	20,15
2420.125	12,5	151	101	5	23,75
2420.130	13,0	151	101	5	23,75



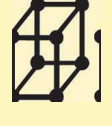



Sets

Order No.	Description	€
2420.805	Set of 5 pieces, HSS-G. Ø 3, 4, 5, 6, 8 mm DIN 338	24,25
2420.519	HSS-G drill box 19 pieces, 1-10mm 0,5 mm upwards DIN 338	95,55
2420.525	HSS-G drill box 25 pieces, 1-13mm 0,5 mm upwards DIN 338	179,00

	Twist drill of cobalt alloyed HSS-G DIN 338, ground from the solid, short, cylindrical, special spiral for good chip removal and for greasy materials. Crosswise grinding DIN 1412C, point angle 135°, tolerance of diameter h8. Polished section of point angle 118°, surface: bronze		For extraordinary demands of industry, craft and household. Very good for boring stainless steel V2A; V4A and steel with higher alloy content and/or strength over 1300 N/mm ² . Furthermore suitable for heat resistant, non-corroding and acid resisting steel, special alloy, malleable and cast iron, bronze, weld seams, chromium-nickel steel, aluminium, brass and all sorts of plastics
	HSS-G Co		Very good for hardest demands. We also offer a long version 2450 (DIN 340). For sheet metal working we recommend version 2440 with spiral type N
	Corresponding diagrams		packing unit = 10 pcs in PE box., from Ø 8,5 mm packing unit = 5. EAN. Price for each drill in a packing unit



Order No.	0-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2430.010	1,0	34	12	1	3,80
2430.015	1,5	40	18	1	3,80
2430.020	2,0	49	24	1	3,80
2430.025	2,5	57	30	1	3,65
2430.030	3,0	61	33	1	3,95
2430.031	3,1	65	36	1	4,35
2430.032	3,2	65	36	1	4,35
2430.033	3,3	65	36	1	4,35
2430.035	3,5	70	39	1	4,30
2430.040	4,0	75	43	1	4,85
2430.041	4,1	75	43	1	5,70
2430.042	4,2	75	43	1	5,70
2430.045	4,5	80	47	1	5,70
2430.048	4,8	86	52	1	5,75
2430.050	5,0	86	52	1	6,00
2430.051	5,1	86	52	1	6,15
2430.052	5,2	86	52	1	6,15
2430.055	5,5	93	57	1	7,05
2430.060	6,0	93	57	1	7,50
2430.065	6,5	101	63	1	8,25
2430.068	6,8	109	69	1	8,55
2430.070	7,0	109	69	1	9,25
2430.075	7,5	109	69	1	10,25
2430.080	8,0	117	75	1	10,75
2430.085	8,5	117	75	1	12,40
2430.090	9,0	125	81	1	13,25
2430.095	9,5	125	81	1	14,55
2430.100	10,0	133	87	1	15,50
2430.105	10,5	133	87	1	16,45
2430.110	11,0	142	94	1	18,00
2430.115	11,5	142	94	1	18,70
2430.120	12,0	151	101	1	19,80
2430.125	12,5	151	101	1	21,75
2430.130	13,0	151	101	1	22,40

	Titanium nitride twist drill with parallel shank, short, righthand cutting, with spiral type N. Crosswise grinding DIN 1412C (from 3,0 mm) 118° for good centering and fast drilling, tolerance of diameter h8. Professional hard-wearing coating which guarantees long endurance		Suitable for highest quality demands of industry and craft. For boring in alloyed and non alloyed steel and cast steel up to 1000 N/mm ² , grey, ductile, sintered and malleable iron, aluminium, copper, bronze
	HSS-G titanium nitrided		Unbelievable endurance due to high quality coating-at a fair price. Also regrinding doesn't affect the endurance of the tool
	Corresponding diagrams		packing unit = 1. PE tube. EAN



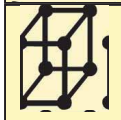
Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2440.025	2,5	43	10	1	2,80
2440.030	3,0	46	12	1	2,95
2440.031	3,1	49	12	1	3,15
2440.032	3,2	49	12	1	3,10
2440.033	3,3	49	12	1	3,25
2440.035	3,5	52	12	1	3,25
2440.040	4,0	55	12	1	3,60
2440.041	4,1	55	12	1	3,40
2440.042	4,2	55	12	1	3,60
2440.045	4,5	58	12	1	3,45
2440.048	4,8	62	14	1	3,65
2440.050	5,0	62	14	1	4,00
2440.051	5,1	62	14	1	4,00
2440.052	5,2	62	14	1	4,10
2440.055	5,5	66	16	1	3,80
2440.060	6,0	66	19	1	4,20



Special twist drill HSS-G corresponding to work standard, ground from the solid, extra short, cylindrical, right-hand cutting, spiral type N, tolerance of diameter h8. Polished section of point angle 118°, bright



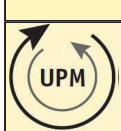
Double ended twist drill for boring into thin sheet. Solid construction for power drill. For drilling into thin work pieces like sheet steel, sheet brass, sheet zinc, copper sheet, aluminium sheet and plastic sheet



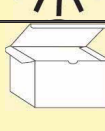
HSS-G



Specially suited for roofers and their sheet metal forming



ca. 2500 min-1, power drill



packing unit = 1. PE tube. EAN






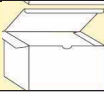


Standard

Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2450.020	2,0	85	56	10	3,35
2450.025	2,5	95	62	10	3,70
2450.030	3,0	100	66	10	3,90
2450.031	3,1	106	69	10	4,50
2450.032	3,2	106	69	10	4,50
2450.033	3,3	112	73	10	4,50
2450.035	3,5	112	73	10	4,50
2450.040	4,0	119	78	10	4,85
2450.041	4,1	119	78	10	6,20
2450.042	4,2	119	78	10	6,20
2450.045	4,5	126	82	10	6,20
2450.048	4,8	132	87	10	7,30
2450.050	5,0	132	87	10	7,30
2450.051	5,1	132	87	10	7,30
2450.052	5,2	132	87	10	8,40
2450.053	5,3	132	87	10	8,40
2450.055	5,5	139	91	10	8,40
2450.057	5,7	139	91	10	9,45
2450.058	5,8	139	91	10	9,45
2450.060	6,0	139	91	10	9,45
2450.065	6,5	148	97	10	11,65
2450.068	6,8	156	102	10	13,50
2450.070	7,0	156	102	10	13,50
2450.075	7,5	156	102	10	14,85
2450.080	8,0	165	109	10	14,85
2450.085	8,5	165	109	5	17,55
2450.090	9,0	175	115	5	18,30
2450.095	9,5	175	115	5	19,45
2450.100	10,0	184	121	5	22,05
2450.102	10,2	184	121	5	29,70
2450.105	10,5	184	121	5	29,70
2450.110	11,0	195	128	5	29,70
2450.115	11,5	195	128	5	34,80
2450.120	12,0	205	134	5	34,80
2450.125	12,5	205	134	5	42,70
2450.130	13,0	205	134	5	42,70






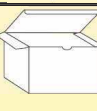
Twist Drills, Co 5%, DIN 340, fully ground with split point, packaged

Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2451.020	2,0	85	56	1	3,60
2451.025	2,5	95	62	1	4,10
2451.030	3,0	100	66	1	4,20
2451.031	3,1	106	69	1	4,75
2451.032	3,2	106	69	1	4,75
2451.033	3,3	112	73	1	4,85
2451.035	3,5	112	73	1	4,85
2451.040	4,0	119	78	1	5,20
2451.041	4,1	119	78	1	6,55
2451.042	4,2	119	78	1	6,55
2451.045	4,5	126	82	1	6,55
2451.048	4,8	132	87	1	11,35
2451.050	5,0	132	87	1	7,75
2451.051	5,1	132	87	1	7,75
2451.052	5,2	132	87	1	8,60
2451.053	5,3	132	87	1	8,60
2451.055	5,5	139	91	1	8,60
2451.057	5,7	139	91	1	9,70
2451.058	5,8	139	91	1	9,70
2451.060	6,0	139	91	1	9,70
2451.065	6,5	148	97	1	11,75
2451.068	6,8	156	102	1	13,55
2451.070	7,0	156	102	1	13,55
2451.075	7,5	156	102	1	14,85
2451.080	8,0	165	109	1	16,60
2451.085	8,5	165	109	1	17,70
2451.090	9,0	175	115	1	18,60
2451.095	9,5	175	115	1	19,90
2451.100	10,0	184	121	1	22,40
2451.102	10,2	184	121	1	30,15
2451.105	10,5	184	121	1	30,15
2451.110	11,0	195	128	1	30,15
2451.115	11,5	195	128	1	35,30
2451.120	12,0	205	134	1	35,30
2451.125	12,5	205	134	1	43,25
2451.130	13,0	205	134	1	43,25

	Twist drill of cobalt alloyed HSS-G DIN 340, ground from the solid, long, cylindrical, special spiral for good chip removal and for greasy materials. Crosswise grinding DIN 1412C, point angle 135°, tolerance of diameter h8. Polished section of point angle 118°, surface: bronze
	For extraordinary demands of industry, craft and household. Very good for boring in stainless steel V2A; V4A and steel with higher alloy content and/or strength over 1300 N/mm². Furthermore suitable for heat resistant, non-corroding and acid resisting steel, special alloy, malleable and cast iron, bronze, weld seams, chromium-nickel steel, aluminium, brass and all sorts of plastics
	HSS-G Co
	Very good for hardest demands. Here the convenient long version
	Corresponding diagrams
	packing unit = 1. PE box., from Ø 8,5 mm packing unit = 5. EAN. Price for each drill in a packing unit



Order No.	O-Ø [mm]	OAL [mm]	Cutting l. [mm]	PU [pcs]	€
2461.020	2,0	125	85	1	11,55
2461.025	2,5	140	95	1	11,55
2461.030	3,0	150	100	1	14,15
2461.035	3,5	165	115	1	15,65
2461.040	4,0	175	120	1	15,95
2461.045	4,5	185	125	1	18,50
2461.050	5,0	195	135	1	20,90
2461.055	5,5	205	140	1	21,80
2461.060	6,0	205	140	1	24,95
2461.065	6,5	215	150	1	29,55
2461.070	7,0	225	155	1	30,80
2461.075	7,5	225	155	1	33,80
2461.080	8,0	240	165	1	37,35
2461.085	8,5	240	165	1	42,15
2461.090	9,0	250	175	1	45,25
2461.095	9,5	250	175	1	47,85
2461.100	10,0	265	185	1	51,90
2461.105	10,5	265	185	1	53,10
2461.110	11,0	280	195	1	57,90
2461.115	11,5	280	195	1	64,85
2461.120	12,0	295	205	1	71,05
2461.125	12,5	295	205	1	75,05
2461.130	13,0	295	205	1	78,60

	Special twist drill HSS-G DIN 1869, extra long, cylinder shank, right-hand cutting. Plunge and crosswise grinding 135°		Solid special drill for boring extremely deep holes under difficult conditions, e.g. bad chip removal. Suitable for drilling cast iron and steel up to 1300 N/mm²
	HSS-G		Very good for hardest quality demands. This is the convenient long version. For an even longer version see also series 2599
	Corresponding diagrams		packing unit = 1. PE tube. EAN



OAL 150 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	NL [mm]	PU [pcs]	€
2599.103	3	3	150	100	1	10,85
2599.104	4	4	150	100	1	12,00
2599.105	5	5	150	100	1	12,65
2599.106	6	6	150	100	1	13,45
2599.107	7	7	150	100	1	17,45
2599.108	8	8	150	100	1	17,45
2599.109	9	9	150	100	1	18,50
2599.110	10	10	150	100	1	20,25
2599.111	11	11	150	100	1	22,95

OAL 250 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	NL [mm]	PU [pcs]	€
2599.203	3	3	250	200	1	14,65
2599.204	4	4	250	200	1	17,25
2599.205	5	5	250	200	1	19,70
2599.206	6	6	250	200	1	22,05
2599.207	7	7	250	200	1	28,45
2599.208	8	8	250	200	1	28,45
2599.209	9	9	250	200	1	31,75
2599.210	10	10	250	200	1	34,55
2599.211	11	11	250	200	1	39,85
2599.212	12	12	250	200	1	43,85
2599.213	13	13	250	200	1	46,55
2599.214	14	13	250	200	1	50,40
2599.215	15	13	250	200	1	57,85
2599.216	16	13	250	200	1	63,75

OAL 315 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	NL [mm]	PU [pcs]	€
2599.303	3	3	315	250	1	19,05
2599.304	4	4	315	250	1	22,50
2599.305	5	5	315	250	1	25,65
2599.306	6	6	315	250	1	28,70
2599.307	7	7	315	250	1	37,00
2599.308	8	8	315	250	1	37,00
2599.309	9	9	315	250	1	41,25
2599.310	10	10	315	250	1	44,95
2599.311	11	11	315	250	1	51,70
2599.312	12	12	315	250	1	57,05
2599.313	13	13	315	250	1	60,50
2599.314	14	13	315	250	1	66,60
2599.315	15	13	315	250	1	77,50
2599.316	16	13	315	250	1	90,30

OAL 400 mm

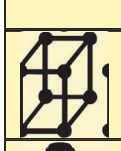
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	NL [mm]	PU [pcs]	€
2599.403	3	3	400	300	1	24,75
2599.404	4	4	400	300	1	29,25
2599.405	5	5	400	300	1	33,30
2599.406	6	6	400	300	1	37,30
2599.407	7	7	400	300	1	48,05
2599.408	8	8	400	300	1	48,05
2599.409	9	9	400	300	1	53,65
2599.410	10	10	400	300	1	58,40
2599.411	11	11	400	300	1	67,15
2599.412	12	12	400	300	1	74,15
2599.413	13	13	400	300	1	78,65
2599.414	14	13	400	300	1	86,55
2599.415	15	13	400	300	1	100,75
2599.416	16	13	400	300	1	117,30



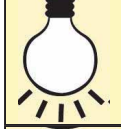
Twist drill HSS-G, ground from the solid, long, cylindrical, special spiral for good chip removal and for greasy materials. Crosswise grinding DIN 1412C, point angle 135°, tolerance of diameter h8. Polished section of the envelope of cone 118°, surface: bronze



Suitable for highest quality demands of industry and craft. For boring in alloyed and non alloyed steel and cast steel up to 900 N/mm², grey, ductile, sintered and malleable iron, nickel silver and graphite, etc.



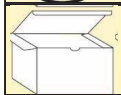
HSS-G, long



Very good for highest quality demands. Here in different length at a fair price.



Corresponding diagrams



packing unit = 1. PE tube. EAN



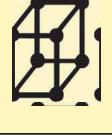



3535

 Hobby

Drill and milling cutter HSS



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3535.006	6	6	90	13,50
3535.008	8	8	90	19,70

	Milling cutter with twist drill head (ground point angle 118°) and chip flutes with rough teeth		For drilling and milling outlines with one tool. Suitable for wood, plasterboard, plastics and (limited) for nonferrous metals
	HSS		Especially great for using with a hand drill, unsuitable for boring in steel
	ca. 2500 min-1, wood		packing unit = 1. PE tube. EAN



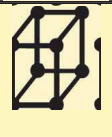



3540

 Classic

Countersink for machine



Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3540.012	12	8	46	13,45
3540.016	16	8	47	16,90
3540.020	20	8	47	24,95

	Countersink three edged, countersinking angle of 90°		Countersinking and deburring in all metals
	HSS		Can easily be reground
	ca. 500 min-1		packing unit = 1. PE tube. EAN

3541



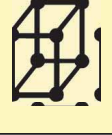





Classic

Special Countersink

FAMAG[®]
... für Besserbohrer[®]


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3541.001	2-5	6	45	16,05
3541.002	5-10	8	48	18,65
3541.003	10-15	10	65	32,75
3541.004	15-20	12	85	57,35

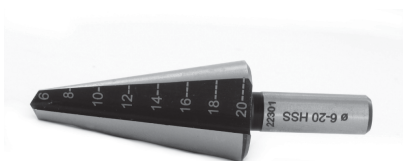
	Countersink with bored hole with one edge and countersinking angle of 90°		Countersinking in all metals, specially good results with nonferrous metals and hardwood
	HSS		Easy handling due to great contact surface
	ca. 500 min-1		packing unit = 1. PE tube. EAN

3690



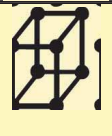





Classic

Hole enlarger

FAMAG[®]
... für Besserbohrer[®]


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3690.001	3 - 14	6	62	24,95
3690.002	6 - 20	8	70	28,45
3690.003	16 - 30	10	75	51,60

	Two edged hole cutter		Continous drilling of big holes and boring up holes of thin-walled materials
	HSS		Suitable for sheet steel 0,1 - 2 mm, V2A sheet 0,1 - 1 mm, non-ferrous metals 0,1 - 5 mm, plastics up to 10 mm
	ca. 1000 min-1, non-ferrous metal		packing unit = 1. PE tube. EAN

3692



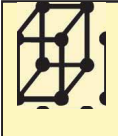





Classic

Step drill HSS

FAMAG[®]
... für Besserbohrer[®]


Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	€
3692.012	4 - 12	6	69	43,60
3692.020	6 - 20	8	73	56,75
3692.030	6 - 30	10	95	83,15

	Two edged hole cutter, cylindrical gradation and scale of diameter		The hole cutter drills and simultaneously deburrs with the following step
	HSS		Continous drilling to thinnest sheets without pre-drilling
	ca. 1000 min ⁻¹ , non-ferrous metal		packing unit = 1. PE tube. EAN

Hammer drills and Soil auger



Hammer Drills carbide-tipped, SDS-plus shank

121

122

Soil Auger (discontinued items)

123





OAL 110 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.104	4	SDS plus	110	50	7,05
2188.105	5	SDS plus	110	50	5,60
2188.106	6	SDS plus	110	50	5,60
2188.108	8	SDS plus	110	50	6,55
2188.110	10	SDS plus	110	50	7,00

OAL 160 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.405	5	SDS plus	160	100	6,30
2188.406	6	SDS plus	160	100	6,05
2188.408	8	SDS plus	160	100	6,55
2188.410	10	SDS plus	160	100	7,15
2188.412	12	SDS plus	160	100	9,65
2188.414	14	SDS plus	160	100	13,40
2188.415	15	SDS plus	160	100	16,10

OAL 210 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.505	5	SDS plus	210	150	7,00
2188.506	6	SDS plus	210	150	7,20
2188.508	8	SDS plus	210	150	8,60
2188.510	10	SDS plus	210	150	10,15
2188.512	12	SDS plus	210	150	11,20
2188.514	14	SDS plus	210	150	16,20
2188.515	15	SDS plus	210	150	16,75
2188.516	16	SDS plus	210	150	20,15

OAL 260 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.606	6	SDS plus	260	200	12,00
2188.608	8	SDS plus	260	200	12,10
2188.610	10	SDS plus	260	200	10,30
2188.612	12	SDS plus	260	200	13,65
2188.614	14	SDS plus	260	200	17,05
2188.615	15	SDS plus	260	200	18,40

OAL 310 mm

Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.710	10	SDS plus	310	250	12,15
2188.712	12	SDS plus	310	250	17,20
2188.714	14	SDS plus	310	250	17,45
2188.716	16	SDS plus	310	250	27,55

OAL 460 mm

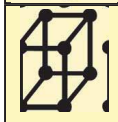
Order No.	O-Ø [mm]	S-Ø [mm]	OAL [mm]	Spiral l. [mm]	€
2188.908	8	SDS plus	460	400	23,05
2188.910	10	SDS plus	450	400	33,20
2188.912	12	SDS plus	460	400	29,80
2188.914	14	SDS plus	460	400	30,25
2188.915	15	SDS plus	450	400	32,35
2188.916	16	SDS plus	450	400	35,25



High quality, robust masonry drill with four grooves, appropriate for hammer drills with SDS chuck. Fast drilling thanks to the lank and chisel formed drill head. High stability is ensured



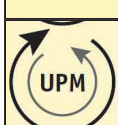
For all hammer drills with SDS-Plus and HILTI chunk. High quality for the expert



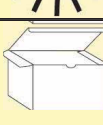
Carbide tipped



Specially suited for drilling dowels holes in fastening technology with SDS-plus hammer



Hammer Drill



packing unit = 1. PE bag. EAN

4191



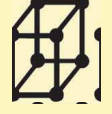





Classic

Soil Auger (discontinued items)

FAMAG[®]
...für Besserbohrer[®]


Order No.	O-Ø [mm]	OAL [mm]	€
4191.070	70	1000	98,25
4191.090	90	1000	100,20
4191.110	110	1000	109,40
4191.130	130	1000	121,30
4191.150	150	1000	123,15
4191.200	200	1000	139,85
4191.250	250	1000	153,65
Extension			
Order No.	Description	OAL [mm]	€
4191.001	fit for reference 4191, Ø 70 - 250mm	1100	26,45

	Soil Auger with forged welded spiral. The drill has a T-handle made of metal and with the aid of a plug extending indefinitely prolongable		For drilling holes for garden fence, plants, frames, telephone poles, tree irrigation, etc.
	steel		Before you start working you should have had a good breakfast and with a pair of gloves the work will be child's play
	As fast as the arms can handle.		packing unit = 1 piece bulk



Hand tools

125

Pricker/Reaming Awl, square/Pricker and Awl, sharpened	126
Countersink with handle	126
Cutting Tool for wood threads + screws	127
Dowel pointer	128
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2000/


 Profi

Pricker/Reaming Awl, square/Pricker and Awl, sharpened

FAMAG
 ...für Besserbohrer®

NEW



Piercer with continuous blade







Order No.	Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2000.100	6	190	90	9,00

Piercer with round blade

Order No.	Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2001.100	6	190	90	10,10

Piercer with sharpened chamfer

Order No.	Ø [mm]	OAL [mm]	Cutting l. [mm]	€
2006.100	6	190	90	10,50

	Piercer with continuous blade, lacquered wooden handle and percussion plate. Piercer with round blade, reamer with a blade of 6 mm, square edged, piercer with sharpened chamfer		For piercing into all European solid wood, all boards laminated and uncoated
	tool steel		The piercers chamfer allows an especially easy pre-piercing and convenient handling.
			packing unit = 1. in quadropack. EAN

3533


 Profi

Countersink with handle



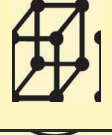



FAMAG
 ...für Besserbohrer®


Countersink with plastic handle

Order No.	Ø [mm]	€
3533.012	12	6,05
3533.016	16	6,25

Countersink with wooden handle

Order No.	Ø [mm]	€
3533.112	12	6,20
3533.116	16	6,55

	Countersink with 5 edges 90° countersink and either with wooden or plastic handle		For fast countersinking by hand.
	tool steel		The wooden handle is especially hand friendly
	By hand		packing unit = 1. Welded on cardboard. EAN







1894


 Profi

Cutting Tool for wood threads + screws

FAMAG
 ...für Besserbohrer®


Order No.	Ø [mm]	Ø [Inch]	Core [mm]	lead/1" [mm]	€
1894.013	13	1/2	11	8	375,90
1894.016	16	5/8	14	7	375,90
1894.019	19	3/4	16	6	392,75
1894.022	22	7/8	18	5,5	429,05

	Quadripartite set with die stock, screw tap, tap wrench and a core hole drill in high quality wood case		For cutting internal and external threads at wooden workpieces like chair legs, nutcrackers etc.
	tool steel		In a stable wooden box with all necessary tools
	By hand		packing unit = 1. Wooden box. EAN



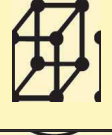


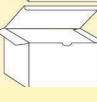
1895


 Profi

Cutting Tool for wood threads + screws

FAMAG
 ...für Besserbohrer®


Order No.	Ø [mm]	Ø [Inch]	Core [mm]	lead/1" [mm]	€
1895.013	13	1/2	11	8	321,05
1895.016	16	5/8	14	7	323,85
1895.019	19	3/4	16	6	337,25
1895.022	22	7/8	18	5,5	375,90
1895.025	25	1	21	5	474,20
1895.028	28	1 1/8	23	4,5	543,60
1895.032	32	1 1/4	26	4	618,75

	Set of two parts with die stock and screw tap		For cutting internal and external threads at wooden workpieces like chair legs, nutcrackers etc.
	Tool steel		Suitable for all kinds of solid wood
	By hand		packing unit = 1. Cardboard. EAN

Technical changes or mistakes reserved! All prices are recommended retail prices additionally value added tax.

2009






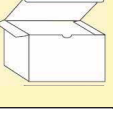


Classic

Dowel pointer

FAMAG[®]
... für Besserbohrer[®]


Order No.	Ø [mm]	OAL [mm]	S-Ø [mm]	€
2009.020	20	80	8	49,20
2009.030	30	100	10	75,45

	Dowel sharpener with one edge and parallel shank. Inner angle ca. 55°		For sharpening all dowels so that they can easily be put into the drill holes
	Tool steel		Dowels must not be lead by hand to the drilling machine
	500 - 1000 min-1, beech wood		packing unit = 1. Welded on cardboard. EAN

Hand tools

128

3685






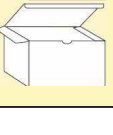


Classic

Dowel markers

FAMAG[®]
... für Besserbohrer[®]


Order No.	Ø [mm]	PU [pcs]	€
3685.006	6	10	6,00
3685.008	8	10	6,10
3685.010	10	10	6,90

	Conventional dowel marker with centre point and exact fitting		For exact marking of blind dowel holes to all kinds of wood and uncoated boards
	Steel		Good dimensioned point guarantees perfect working
			packing unit = 10 pcs. in one PE tube. EAN

Technical changes or mistakes reserved! All prices are recommended retail prices additionally value added tax.

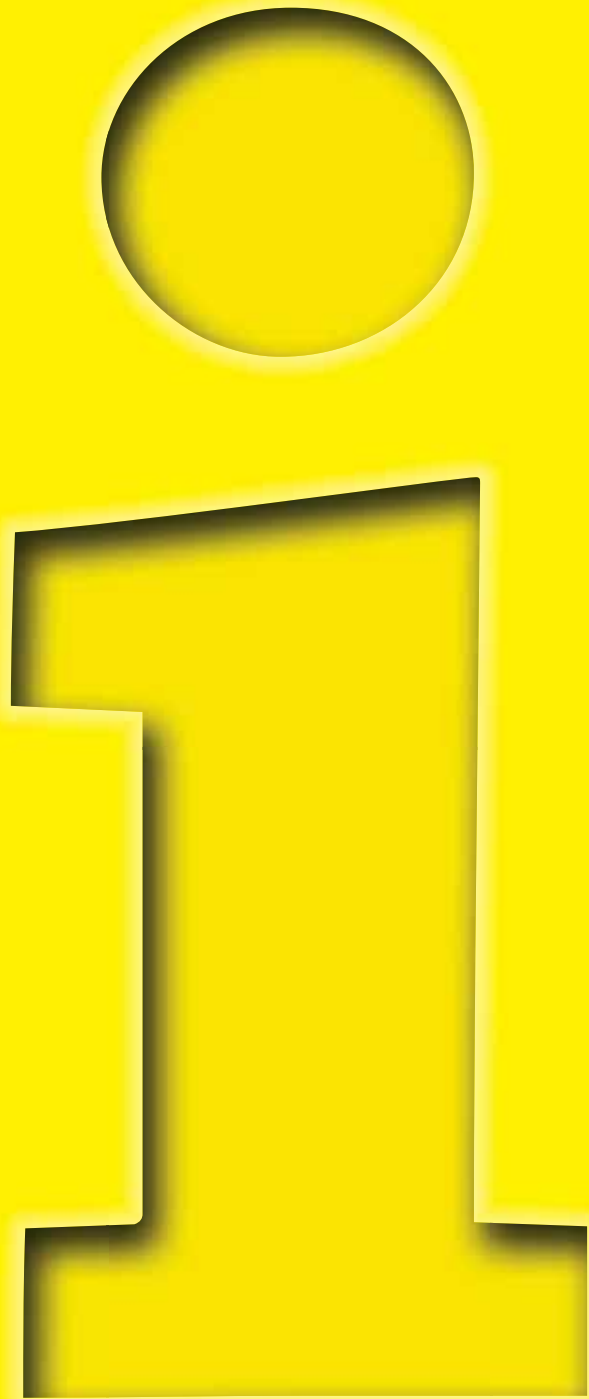


Order No.	Ø [mm]	OAL [mm]	€
2152.002	2	115	3,15
2152.003	3	125	3,15
2152.004	4	140	3,55
2152.005	5	145	4,00
2152.006	6	155	6,10

Sets on card boards

Order No.	Description	€
2152.503	3 pcs. Set on Rose plastic board. Ø 3, 4, 5 mm	9,50
2152.505	5 pcs. Set on Rose plastic board. Ø 2, 3, 4, 5, 6 mm	16,80

	<p>Classical black painted gimlet with lug Classical gimlet in solid design. With cylindrical shank and crest of thread</p>		<p>For manually predrilling holes into all sorts of wood</p>
	<p>Tool steel</p>		<p>For hardwood we recommend piercing with a pricker 2006.100</p>
	<p>show what you can!</p>		<p>Packing unit = 1. On Rose-card. EAN</p>



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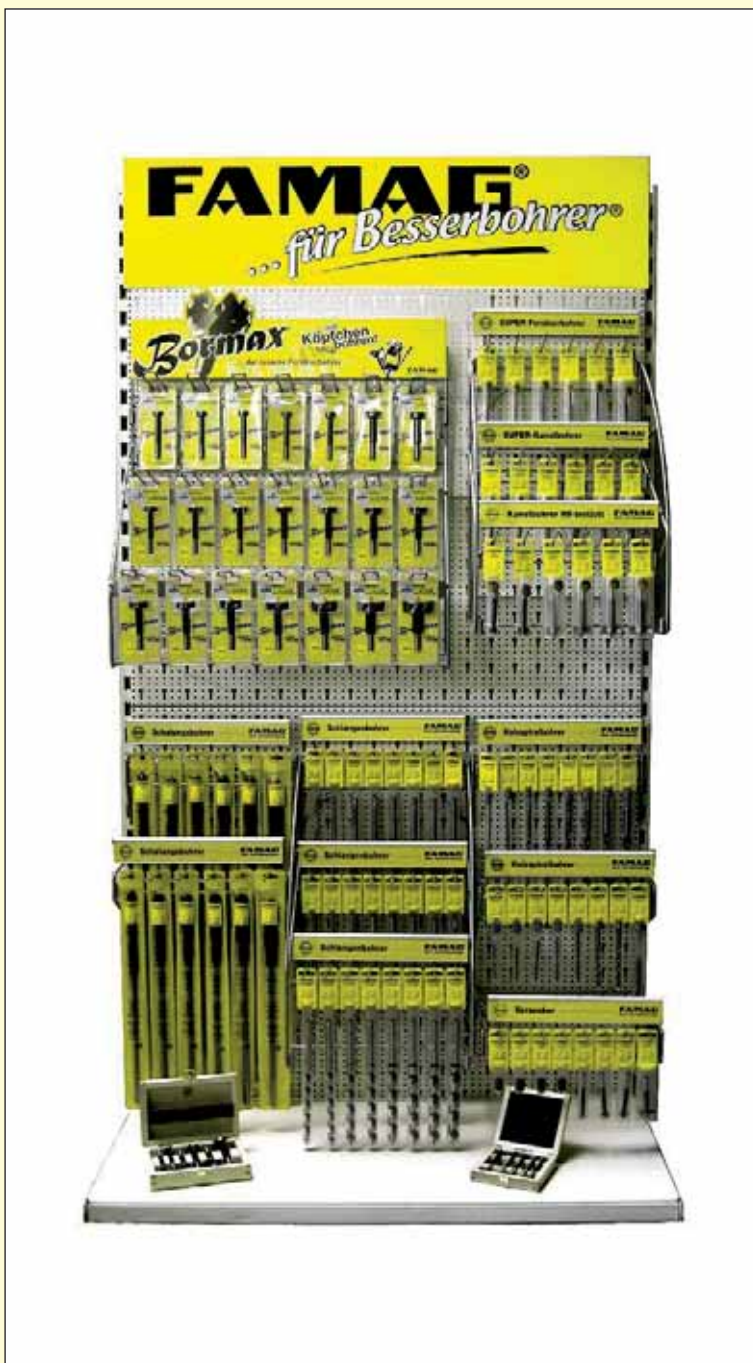
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At FAMAG there are no rigidly specified assortments that do not fit to your business. The existence of different target groups alone forbids standardized systems. Tell us about your wishes and target groups and together we

will find the ideal POS sales presentation according to your needs. At your disposal there are different flexible presentation systems that can be arranged clearly and promotionally effective.

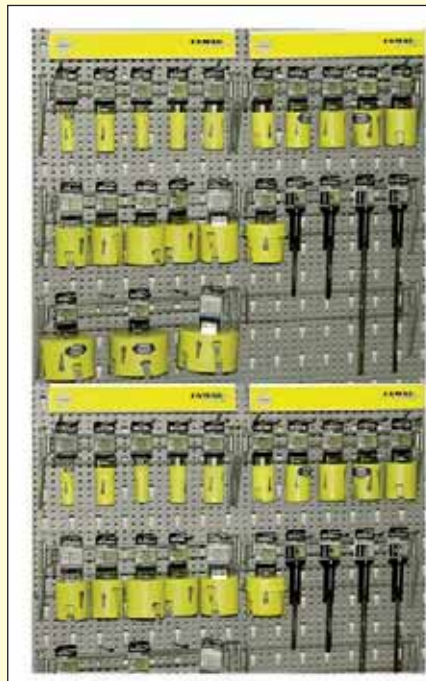


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... and if you find out, that an article doesn't sell – no problem. We will replace it without any ifs or buts!



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As an experienced manufacturer and specialist with a long tradition and a philosophy that is committed to customer needs and high quality demands, we offer you a competent and expert support in all application questions that arise.

So if you do not find the appropriate tool among our product range, please contact us!

Go ahead and describe the exact application – together we will come to a solution. This may be either a combination of standard tools or a special custom-made tool, which will be designed according to your individual requirements.

If it is possible to fulfil your task by one of our standard tools, quick help can be provided because most of our 4,500 quality tools are available on stock. If not, we dedicate ourselves with all our competence to the realization of custom-made products, special requests and extraordinary requirements. In this case the delivery will take a little bit longer depending on the extent and effort. A sketch, a pattern or a drawing always leads to a better understanding and facilitates the production process.

An important parameter that determines the price is the quantity. This also applies to the realization of changes in shaft, special shafts and measurements concerning our standard tools.

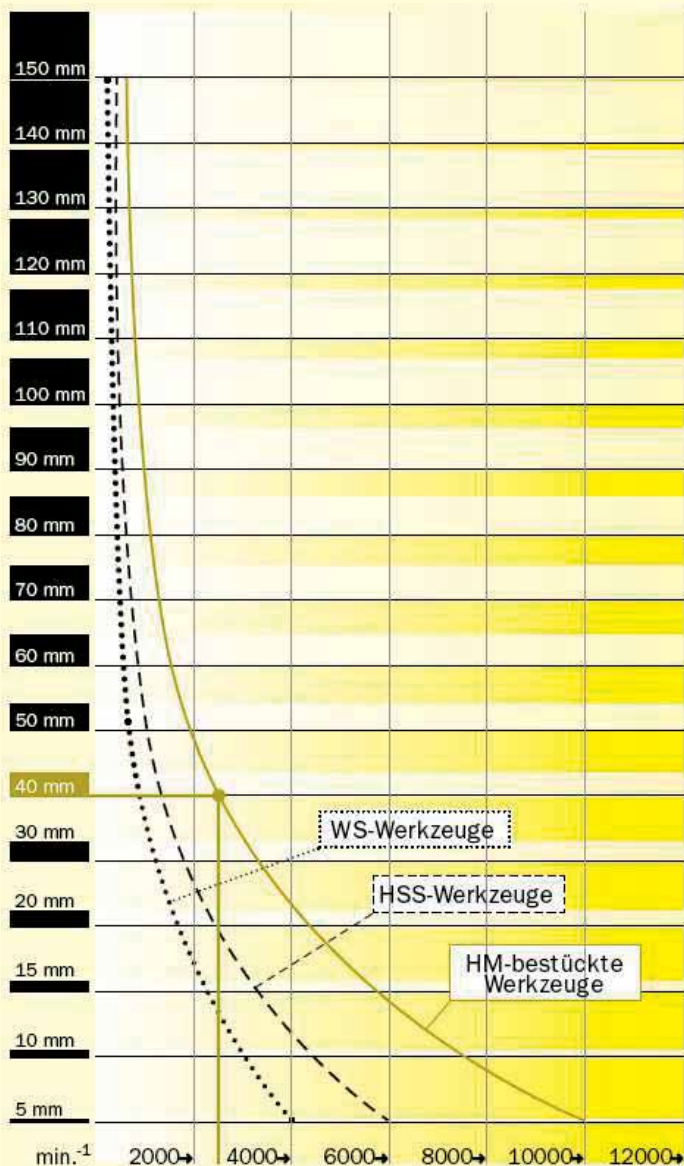
By the way, augers can be produced up to a diameter of 80 mm on our CNC-machines. With our latest machine a spiral length up to 2,500 mm is even possible.

For step drill bits we prepared an enquiry form concerning the series of articles No. 1887 on page 53. Please do not forget to state the desired quantity here as well!

Our specialists support you with regard to all technical questions. Just call us, we will be glad to advise you!

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We recommend selecting the use of the tools according to the material being worked with. Here are some tips:

Drill bits in alloyed tool steel-quality: ●●●●●●●●

Best application in softwoods like spruce, pine and poplar. An exception is the TS-Bormax® drill bit; it can not only be used for softwood but also for European hardwood and board materials. Good results can also be achieved in soft and medium-hard plastics.

Drill bits in high-speed-steel-quality: - - - - -

Good application in all softwoods and many hardwoods as well as MDF.

Drill bits carbide-tipped: _____

Less suitable for softwoods (exception CT-Bormax³) but ideal for hardwoods and exotic hardwoods. Very good results in board materials as well as veneer- and plastic coated panels. Furthermore suitable for drilling in hard plastics. Please choose the tool material from the three characteristics. The intersection of the graph with the corresponding diameter of the drill bit shows the recommended rpm. Please do not exceed the recommended rpm, because this will have a negative impact on the drilling quality and the lifetime of the tools.

Example:

A TCT-cylindric boring bit drill (e.g. Series 1662), Ø 40 mm, equals a recommended rpm of 2.500 min⁻¹.

Different applications require different qualities. In order to make it easier for you, we divide our tools into four main quality categories. An amateur with the task to drill three holes in poplar wood certainly needs a different tool than for example the furniture industry with its mass production, where thousands of holes have to be drilled in beech wood. Our aim is to meet both requirements with our product range. Therefore the amateur should be very satisfied with the result of a 30-mm-drill a Forstner bit of the quality level “classic” achieves in softwood.

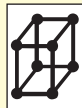
Please be guided by our quality classification or call us: We will be glad to advise you!

- **quality level hobby:**
reasonable quality tools for the amateur segment
- **quality level classic:**
for the quality-conscious user
- **quality level profi:**
professional tools for the craftsman with high demanding requirements concerning tool and application
- **quality level premium:**
wear-resistant tools of the highest quality level, even for extreme conditions of use

Info-blocks



The description of the tool design



Tool material



Recommended r.p.m. and specific example for the most common diameters in the according field of application



Description of application



Practical advice and specialty of the tool



Packaging unit and information on individual packaging

Abbreviations

Ø	outer diameter
IØ	inner diameter
SØ	shank diameter
L	length of shaft/shank length
OAL	overall length
MC/HS	main cutters
EL	effective length
SL	spiral length
W	weight
T	teeth
R	radius
∠	degrees
Cutting l.	cutting length
max.r.p.m.	maximum acceptable r.p.m.
L1	length of first step
L2	length of second step
D1	core diameter
Lead/1“	no. of threads
PU	packing unit

(Head VHM) V Groove bit - For Engraving Wood	86	Ogee Fillet bit	96
(suitable to 3191) Wrenches and Bolts for 3191	103		97
Accessories for Drill Rigs	39		98
Adjustable Countersink carbide tipping	61	Ovolo bit	92
Auger bit carbide tipped	34	Panel Pilot bit	90
Auger bit for hardwood	35	PAROLI 100 insulation-hole saw	73
Auger bit with Morse taper shank No. 2	33	PAROLI all-round 165, TCT-hole saw	72
Auger bit, Lewis pattern	28	PAROLI all-round 50, TCT-hole saw	70
	31	PAROLI Bi-Metal-hole saw HSS-Co	74
	102	Pilot guided Bormax®	9
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Bevel bit	102	Rabbeting bit	89
Bevel Trimming bit	76	Reversing blade carbide	103
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Boarding and Plumbing Auger	55	Rounding-Over bit	92
Boarding and Plumbing Auger HSS	56	Screw Auger, Lewis pattern	37
Boarding and Plumbing Auger, SDS-plus shank	10	Self-centering hinge boring bit	23
Bormax® 2.0 WS prima, long (Special Counterbore)	6	Self-Feed bit	18
Bormax®, Forstner bit	7	Shell Drill Countersink	59
	8	Shell Drill-Countersink Hobby, Economy	60
Bormax®, Forstner bit, long version	94	Shell Drill-Countersink HSS 90°	65
Bull Nose bit	80	Shell Drill-Countersink rectangular 180°	65
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Classic Cove bit	87	Slotting Cutter	83
Classical bit	97	Soil Auger	123
	90	Special Adapter	36
Combi Trimmer bit - Flush & Bevel	94	Special auger bit for joinery machines	32
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Core Box bit	58	Special Countersink	119
Countersink	31	Special drill for wood and metal, HSS-G	44
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Countersink for machine	126	Staggered Straight And Plunge bit Two Blade	100
Countersink with handle	127	Staggered Straight bit Two Blade	100
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Depth Stop supported by ball bearing for FAMAG-Forstner bits 1622, 1630, 1663	19	Straight And Plunge bit One Blade	99
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	20	Straight bit - Template Profile	82
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Dowel pointer	118	SUPER-Forstner bit, Classic	15
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Drill Rig for stairs building	64	Twist Drill long version with 1/4" Hexagon Drive (bit)	107
Drill-Countersink-Set with bit shank	62	Twist Drill short version with 1/4" Hexagon Drive (bit)	106
Drill-Countersink-Set with rotating depth stop	63	Twist Drills DIN 338, fully ground	109
Drill-Countersink-Sets	66	Twist Drills double end, fully ground	114
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Extension shank	95	Twist Drills, Co 5%, DIN 1669, fully ground, packaged	116
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Finger Jointer Set	93	Twist Drills, Co 5%, DIN 340, fully ground with split point	115
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Flush Trimming bit	101		
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Machine Drill with brad point and cutting lips carbide tipped	43		
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Machine Drill with brad point and cutting lips, left direction	48		
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Mashine Drill with brad point, HSS			

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We only make regular deliveries to resellers and/or commercial consumers. The following General Terms and Conditions therefore apply to this group of persons (entrepreneurs) and legal persons under public law or special public assets within the meaning of § 310 (1) of the German Civil Code (BGB). All our offers and purchase and delivery contracts concluded with us are based solely on our General Terms and Conditions. Any deviations from these General Terms and Conditions require our express written approval.

I. Scope of supply

The scope of supply shall be based on our written order confirmation. A deviation from the scope of supply (especially for custom-made articles) shall be permitted as long as there is no major difference from the agreed scope of supply and the deviations are reasonable for the customer. Partial deliveries shall be permitted if they do not lead to any disadvantages regarding use of the goods. During the delivery period, we shall reserve the right to make design and shape changes, which are due to an improvement in the state of the art or to legal requirements, provided the changes in the delivery item are minor and they are reasonable for the customer.

II. Delivery terms/Passing of risk in the case of shipment

(1) When the net value of the goods is less than € 250,- we shall deliver ex works, excluding freight, postage and packing. In the case of small orders with a net goods value less than € 50,- we shall reserve the right to calculate a minimum quantity surcharge. When the net value of the goods exceeds € 250,- we shall deliver from Germany free destination (receiving station) or free German frontier, including freight, postage, packing (excluding carriage and local delivery charges, as well as costs for incidental charges such as couriers, express delivery, cash on delivery, etc., which shall be calculated separately). This shall not include drill rigs, soil augers and accessories, which shall always be delivered ex works, excluding freight, postage and packing. This provision shall also apply to other goods with a heavier weight and larger dimensions, which do not form part of our normal drill and tool product range. When the net value of the goods is more than € 1,500,- we shall deliver FOB German airport or port.

(2) In the case of deliveries from our depots, we shall levy a reasonable surcharge for prior carriage charges and warehouse service (maximum 5% of the net goods value). Packaging shall become the property of the customer and shall be charged by our company. Postage and packing costs shall be invoiced separately.

(3) The dispatch method shall be chosen at our best discretion. When the goods are sent to the customer, but at the latest when they leave the factory/warehouse, risk of accidental loss or accidental deterioration of

the goods shall pass to the customer, irrespective of whether delivery is effected by our company or a third party commissioned by us, and irrespective of who pays the freight costs. Transport insurance shall only be provided at the express request of the customer and in return for payment. Transport damage shall be reported immediately to the carrier.

(4) In the case of direct delivery to third parties (for example to the customer of the customer) we charge a service fee of 7.50 euros per order plus shipping costs.

(5) In the case of an express delivery, the order must be submitted by 12:30 hrs to guarantee the same day delivery.

III. Prices and price changes

(1) All prices shall be shown in Euro per unit (piece, set, etc.) plus statutory VAT.

(2) Price changes after conclusion of the contract shall be permitted if a period of more than three months has elapsed between the date of conclusion of the contract and the agreed delivery date. If wages, material costs, sales costs or market cost prices then rise before completion of the delivery, we shall be entitled to increase the price by a reasonable amount based on the cost increases.

IV. Payment terms

Our invoices shall become due for payment within 10 days less 2% discount or in 30 days after delivery without any deductions. Invoices under € 50,- shall become due for payment immediately without any deductions. If the customer fails to pay on time, default interest amounting to 8% above the basic interest rate shall become due in accordance with § 247 of the German Civil Code (BGB). We shall expressly reserve the right to enforce a claim for further damage. Payments made by cheque or bill of exchange shall only be considered as made when honoured.

V. Reservation of title

(1) We shall reserve title to the supplied goods until all claims from the delivery contract have been paid in full. If the customer infringes the contract, in particular by delays in payment, we shall be entitled to recover the goods after issuing a warning. The customer shall be obliged to return the goods in this case. Assertion of the reservation of title and recovery of the delivery items by us shall not be regarded as withdrawal from the contract.

(2) The customer shall be entitled to resell the delivery items in the ordinary course of business. However, the customer shall now assign to us all claims amounting to the purchase price (including VAT) agreed between our company and the customer, which accrue to the

customer through resale of the goods, i.e. irrespective of whether the delivery items are resold without processing or after processing. The customer shall be empowered to collect this claim after its assignment. Our authority to personally collect the claims shall not be affected as long as the customer duly complies with his payment obligations and is not in default of payment. If this is the case, however, we may request the customer to stipulate the assigned claims and their debtors, provide all the information required for collection, hand over the related documents and inform the debtors (third parties) about assignment.

(3) We shall reserve the right to withdraw from the contract or terminate our obligation to perform if we become aware of a currently existing or future poor financial situation of the customer.

VI. Warranty

(1) Warranty claims by the customer shall presuppose that he has duly complied with his obligation to inspect the goods and notify defects in accordance with § 377 of the German Commercial Code (HGB).

(2) Defect claims by the customer shall become statutebarred in 12 months after acceptance of the delivery item. The above provisions shall not apply if longer periods are legally prescribed in § 438 (1) No. 2, § 479 (1) and § 634a (1) of the German Civil Code (BGB). Our permission shall be obtained before goods are returned at any time.

(3) If, despite all care being taken by our company, the delivered goods contain a defect which already existed at the time that risk was passed, we shall have the choice of either reworking the goods or delivering replacement goods subject to receiving notification of the defect in good time. We shall always be given the opportunity to effect supplementary performance within a reasonable period of time. Recourse claims shall remain unaffected by the above provision without restriction.

(4) If we are unable to rectify a defect covered by our warranty obligation or if additional rework attempts are unreasonable for the customer, the customer may request – irrespective of any compensation claims – withdrawal from the contract or a reduction in the purchase price instead of rework.

(5) Defect claims shall not arise if there is only a slight deviation from the agreed state of the goods or if their usability is only slightly impaired. Defect claims shall also not arise in the case of natural wear or tear and with damage which occurs after passing of risk due to incorrect or negligent handling, excessive force or special external influences which are not covered by the contract.

(6) Claims by the customer in connection with expenses required for the purpose of supplementary performance, especially transport costs, travelling expenses,

labour costs or material costs, shall be excluded if the expenses increase because the goods supplied by our company were brought later to a place other than the customer's branch, unless the movement of the goods corresponds to their intended use.

(7) Recourse claims by the customer against our company shall only arise if the customer has not concluded any agreements over and beyond legally compelling defect claims with his customer. Subparagraph 6 shall apply analogously to the amount of the customer's recourse claim.

(8) Unless the claims relate to death, physical injury or damage to health, our liability shall only extend to cases of intent and gross negligence. This provision shall also apply to compensation claims for damages in tort and to actions by our subcontractors and vicarious agents.

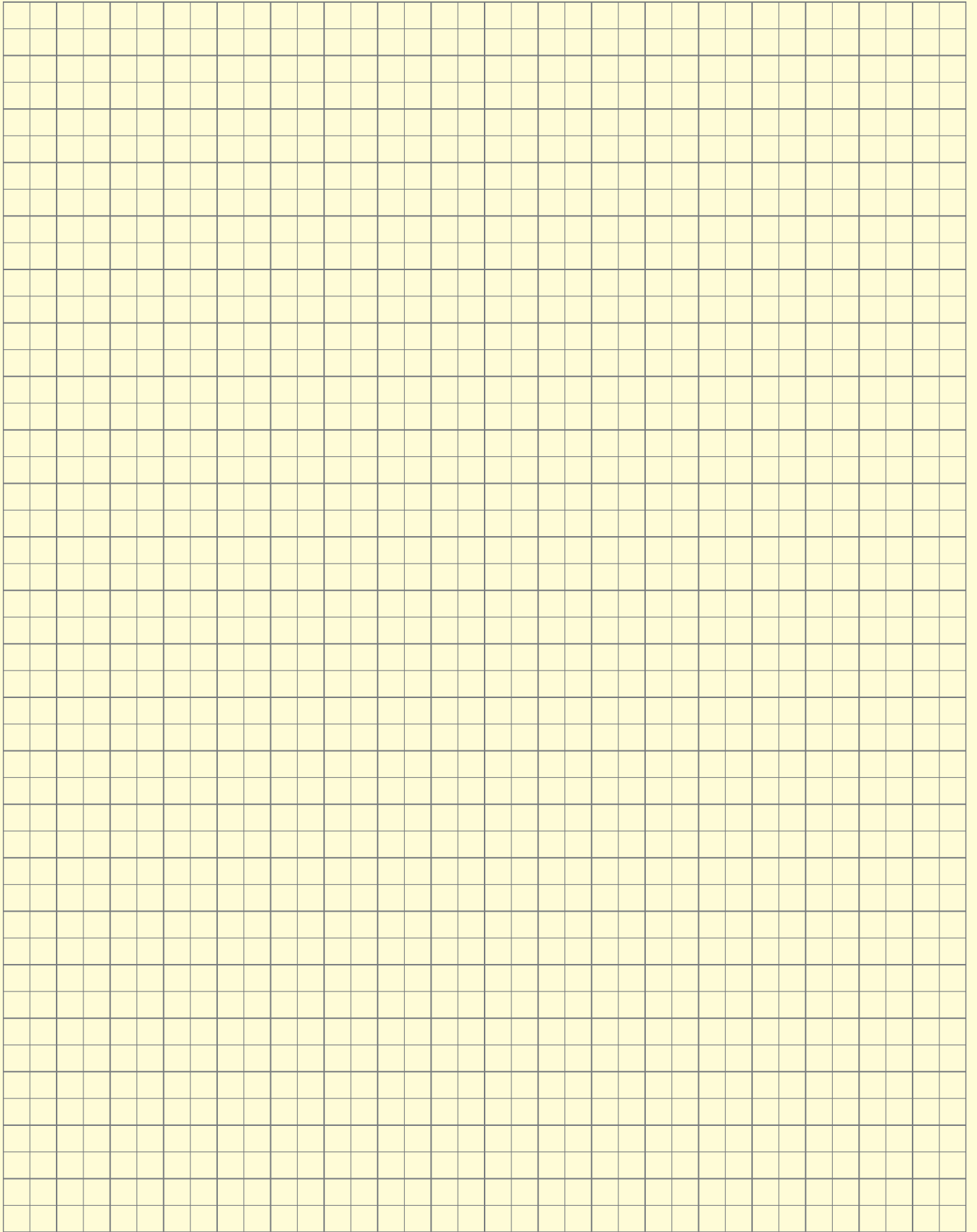
VII. Place of performance and place of jurisdiction

The place of performance and place of jurisdiction for all participating contracting parties shall be Remscheid. German law shall apply to the exclusion of the UN Convention on the International Sale of Goods, even if the customer's head office is outside Germany.

VIII. Miscellaneous

If individual clauses of these General Terms and Conditions are or become invalid, or if they contain a loophole, the validity of the other clauses shall not be affected.







FAMAG works on an international level and today we sale our "Made in Germany" quality in many European countries. Of course our sales staff speaks English, Spanish and German. Call or write us an email:

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