

PFX

for deep hole drilling



PFX



PFX



PFX



DORMER

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Technical Information

INTRODUCTION

PFX drills offer improved efficiency when drilling deep holes in a wide range of materials. The increase in drilling depth is achieved by means of the greater flute space afforded by their parabolic design combined with a thinner web, to allow smooth and efficient chip evacuation.

Single pass drilling without the need for pecking is therefore facilitated, enabling increases in productivity.

RANGE

Available in Stub, Jobber, Long Series and Extra Length.

HOLE DEPTHS

Each range is capable of deep hole drilling and has a recommended drilling depth as follows:-

Stub, DIN 1897	3 x Diameter
Jobber, DIN 338	6 x Diameter
Long Series, DIN 340 (18.01 - 20 mm not to DIN 340)	10 x Diameter
Extra Length, DIN 1869	15 x Diameter

To ensure depth capability, the flute lengths are longer than standard on some of the larger sizes – see product pages, 10 - 23.

GEOMETRY

The geometries of the PFX range have been developed to allow high productivity deep hole drilling to be achieved in a wide range of materials. For all drilling depths up to 10 x diameter, the corresponding drills have a convex cutting edge with special thinning to ensure that the material is chipped efficiently, reducing cutting forces on the drill. The web design allows for increased penetration.

Where hole depths of up to 15 x diameter are required, PFX extra length drills should be used. Their parallel web affords generous flute space combined with adequate strength while the point geometry ensures that the drilling accuracy is maintained throughout the depth of the hole.

HOLE SURFACE FINISH

The surface finish produced is better than that of conventional drills.*

HOLE TOLERANCE

PFX drills produce holes consistently within H10 tolerance.*

*Provided that correct cutting conditions and rigid machine set-up are implemented.





SHANK:

Parallel shank.

MATERIAL:

M35 Cobalt High Speed Steel combines the properties of retained hot hardness and toughness, ideal for working in a wide range of materials.

FLUTE AND OVERALL LENGTHS:

To DIN standards 1897, 338, 340. Flute lengths and overall lengths have been increased on some of the larger sizes to ensure depth capability. Extra length PFX drills are to DIN 1869, series 1, 2 and 3, and Dormer standard.

FLUTE DESIGN:

The parabolic flute design offers greater flute volume and assists in breaking the swarf into small, compact pieces and facilitating its transportation along the flutes and away from the cutting area, allowing greater hole depths to be achieved without the need for pecking.

WEB DESIGN:

The design of the web, with thinned point on the stub, jobber and long series PFX drills reduces the thrust required to penetrate the workpiece. Extra length PFX drills have a parallel web, which affords generous flute space but with no compromise on strength.

POINT DESIGN:

The unique point geometries of all the PFX ranges reduce the torque required, whilst ensuring that the drilling accuracy is maintained throughout the depth of the hole.



PFX high productivity point geometry for drilling holes up to and including 10 x D



PFX point geometry for drilling holes above 10 x D

SURFACE FINISH:

Available in bright or Futura Nano, a TiAlN coating from Balzers, which makes for improvements in wear resistance, cutting edge stability and tool life of the drill. Other coatings are available to support high performance drilling across a wide range of specific materials - see opposite page.

ADDITIONAL SURFACE COATINGS:

PFX drills can be coated on request with the following coatings:-

AICrN

When applied to PFX drills for applications in mild steel and cast iron, cutting speed can be increased, resulting in higher productivity. This can be attributed to the coating's oxidation resistance and hot hardness properties. This high performance coating is titanium-free, making it suitable for aerospace applications.

WC/C

This tungsten carbide coating has a low coefficient of friction, which results in a reduction in adhesive types of wear such as cold-welding. PFX drills coated with WC/C realise significant improvements in tool life on Copper (AMG 6) and Aluminium (AMG 7).

TESTS ON THE A907 JOBBER LENGTH PFX DRILLS COATED WITH AICrN, DRILLING AT 6 X D

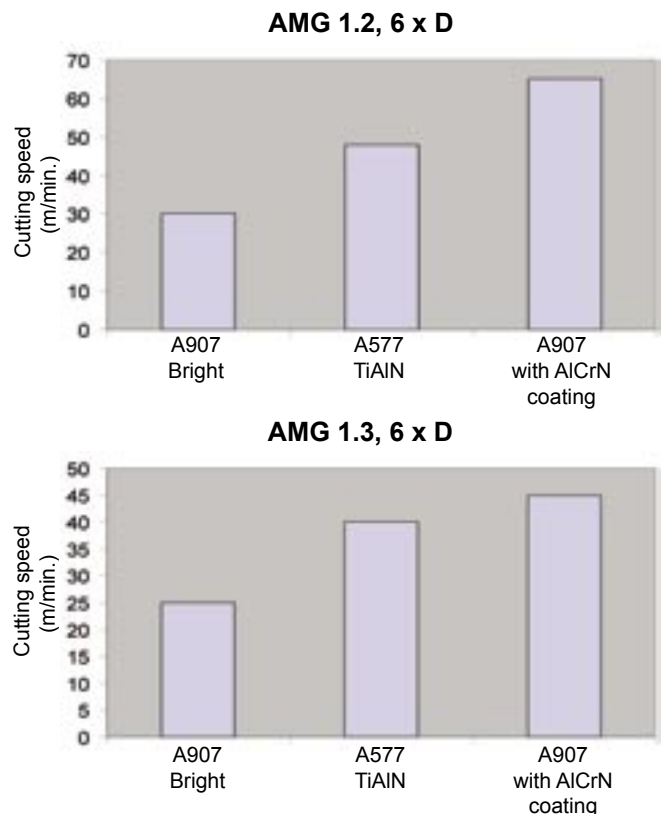
Examples include:

AMG 1.2, Structural Steel/Case Carburising Steel

Cutting speed increases from 48 m/min (the recommended speed for A577 with TiAlN coating, drilling in AMG 1.2) to 65 m/min, which results in a 35% increase in productivity.

AMG 1.3, Plain Carbon Steel

Cutting speed increases from 40 m/min (the recommended speed for A577 with TiAlN coating, drilling in AMG 1.3) to 45 m/min, which results in a 12.5% increase in productivity.



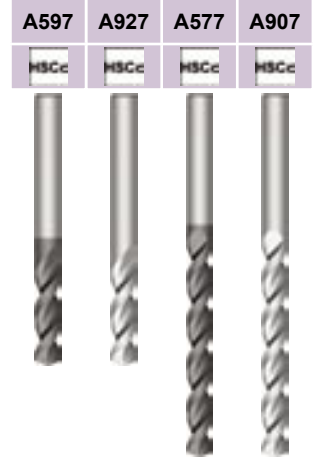
Coating material	Colour	Hardness (HV)	Thickness (µm)	Coating structure	Friction coefficient against steel	Max. application temperature (°C)
AICrN	Blue grey	3200	0.5 - 4	Mono-layer	0.35	1100
WC/C	Dark grey	1500/1000	0.5 - 4	Multi-layer gradient	0.1 - 0.2	300

The above coatings are available as special within a short lead time. Please contact your local sales company.

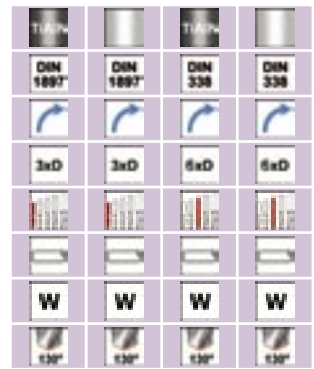
AMG Table // Feed chart



■ Excellent for Application
● Good for Application
Example 56 = Cutting speed in metres/minute mid range +/- 10% M = Feed range - see drill feed chart below







































F _n	Ø mm											
	1	2	3	4	5	6	8	10	12	15	16	20
A	0.012	0.023	0.029	0.032	0.036	0.042	0.054	0.062	0.069	0.082	0.086	0.110
B	0.014	0.028	0.037	0.041	0.046	0.053	0.067	0.080	0.090	0.103	0.108	0.135
C	0.015	0.032	0.044	0.050	0.056	0.064	0.080	0.098	0.110	0.125	0.130	0.160
D	0.016	0.038	0.053	0.060	0.068	0.078	0.098	0.119	0.130	0.149	0.155	0.188
E	0.017	0.043	0.062	0.071	0.080	0.092	0.115	0.140	0.150	0.173	0.180	0.215
F	0.018	0.050	0.073	0.084	0.095	0.109	0.138	0.165	0.178	0.202	0.210	0.248
G	0.019	0.056	0.084	0.096	0.109	0.126	0.160	0.190	0.205	0.231	0.240	0.280
H	0.020	0.066	0.102	0.116	0.130	0.150	0.190	0.228	0.243	0.271	0.280	0.320
I	0.021	0.076	0.119	0.134	0.150	0.173	0.220	0.265	0.280	0.310	0.320	0.360
J	0.024	0.084	0.135	0.152	0.170	0.197	0.250	0.298	0.315	0.349	0.360	0.405
K	0.026	0.092	0.150	0.170	0.190	0.220	0.280	0.330	0.350	0.388	0.400	0.450
L	0.028	0.101	0.165	0.186	0.208	0.240	0.305	0.360	0.385	0.419	0.430	0.485
M	0.030	0.110	0.180	0.202	0.225	0.260	0.330	0.390	0.420	0.450	0.460	0.520
N	0.032	0.119	0.195	0.218	0.242	0.280	0.355	0.420	0.455	0.481	0.490	0.555
	mm/rev +/- 25%											



2.5 - 16.0 1.0 - 20.0 1.5 - 16.0 1.0 - 20.0

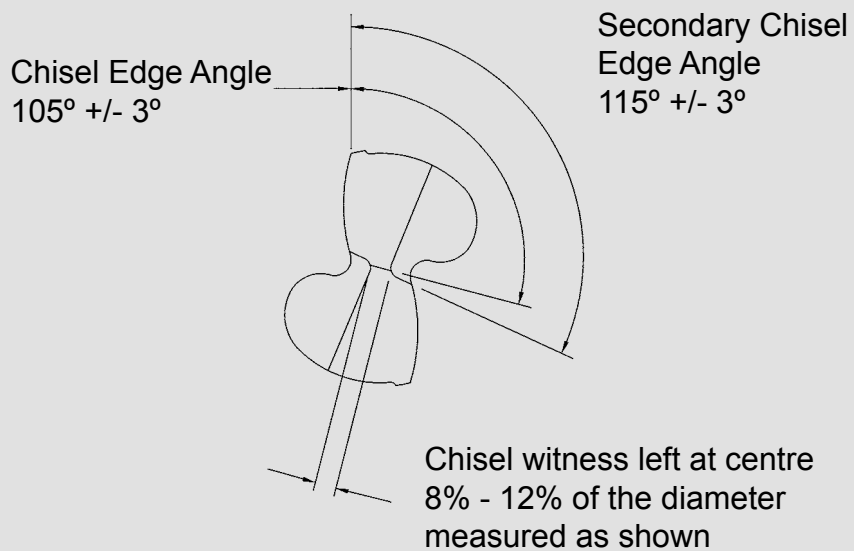
Application Material Groups (AMG)		Hardness HB	Tensile Strength N/mm ²				
1. Steel	1.1 Magnetic soft steel	<120	<400	●56M	●37J	●56J	●35H
	1.2 Structural Steel/ case carburising steel	<200	<700	●48M	●31J	●48J	●30H
	1.3 Plain Carbon steel	<250	<850	■40L	■26I	■40I	■25G
	1.4 Alloy steel	<250	<850	■40L	■25I	■40I	■25G
	1.5 Alloy steel/ Hardened and tempered steel	>250 <350	>850 <1200	■35G	■21E	■30G	■19E
	1.6 Alloy steel/ Hardened and tempered steel	>350	>1200 <1620	■30G	■19E	■26G	■16E
	1.7 Alloy steel Hardened	49-55HRC	>1620				
	1.8 Alloy steel Hardened	55-63HRC	<1960				
2. Stainless Steel	2.1 Free machining Stainless Steel	<250	<850	●17F	●15F	●17E	●15E
	2.2 Austenitic	<250	<850	■9F	■7F	■9E	■7E
	2.3 Ferritic + Austenitic, Martensitic	<300	<1000	■11D	■9D	■11C	■9C
3. Cast Iron	3.1 Lamellar graphite	<150	<500	■56I	●34G	■53I	●33G
	3.2 Lamellar graphite	>150 <300	>500 <1000	■48I	●30G	■43I	●27G
	3.3 Nodular graphite/ Malleable Cast Iron	<200	<700	■35G	●23E	■32G	●20E
	3.4 Nodular graphite/ Malleable Cast Iron	>200 <300	>700 <1000	■27G	●17F	■24G	●15E
4. Titanium	4.1 Titanium, unalloyed	<200	<700	●48I	■30G	●35G	■22E
	4.2 Titanium, alloyed	<270	<900	●29I	■18G	●24G	■15E
	4.3 Titanium, alloyed	>270 <350	>900 <1250	●16E	■10C	●10E	■6C
5. Nickel	5.1 Nickel, unalloyed	<150	<500	●24L	■15I	●22I	■14G
	5.2 Nickel, alloyed	<270	<900	●14I	■9G	●11I	■7G
	5.3 Nickel, alloyed	>270 <350	>900 <1200	●10G	■6E	●10E	■6C
6. Copper	6.1 Copper	<100	<350		●65H		●65G
	6.2 β-Brass, Bronze	<200	<700		●70H		●70G
	6.3 α-Brass	<200	<700	●59I	●35G	●54I	●34G
	6.4 High Strength Bronze	<470	<1500	●50I	●31G	●48I	●30G
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	<100	<350		●70E		●70E
	7.2 Al alloyed, Si<0.5%	<150	<500		■45N		■45N
	7.3 Al alloyed, Si>0.5%<10%	<120	<400		●40N		●40N
	7.4 Al alloyed, Si>10% Whisker reinforced Al-alloys, Mg alloys	<120	<400	■48I	●30G	■48I	●29G
8. Synthetic Materials	8.1 Thermoplastics	---	---		●55J		●55I
	8.2 Thermosetting plastics	---	---		●40H		●40G
	8.3 Reinforced plastic materials	---	---				
9. Hard Materials	9.1 Cermets (Metal-ceramics)	<550	<1700				
10. Graphite	10.1 Standard graphite	---	<100				

A578	A916	A976	A977	A978	A979	
HSCc	HSCc	HSCc	HSCc	HSCc	HSCc	
						
						
						
16XD	16XD	15XD	15XD	15XD	15XD	
						
						
W	W	W	W	W	W	
						
3.0 - 16.0	1.0 - 20.0	1.5 - 14.0	1.5 - 14.0	3.0 - 10.0	5.0 - 6.0	
●49G	●35F	●31C	●31B	●31A		1.1
●42G	●30F	●26C	●26B	●26A		1.2
■35F	■25E	■22C	■22B	■22A	■22A	1.3
■35F	■25E	■22C	■22B	■22A	■22A	1.4
■21D	■15C	■12A	■12A	■12A	■12A	1.5
■17D	■12C	■10A	■10A	■10A	■10A	1.6
						1.7
						1.8
●17C	●15C	●12B	●12B	●12A	●12A	2.1
■9E	■7E	●7C	●7B	●7A	●7A	2.2
●11B	●9B	●8A	●8A	●8A	●8A	2.3
■40G						3.1
■36F	●26E	●23C	●23B	●23A	●23A	3.2
■25F	●18E	●16C	●16B	●16A	●16A	3.3
■18D	●13C	●11A	●11A	●11A	●11A	3.4
●25F	■18E	●15C	●15B	●15A	●15A	4.1
●18D	■13C	●11A	●11A	●11A	●11A	4.2
●8D	■6C	●5A	●5A	●5A	●5A	4.3
						5.1
						5.2
						5.3
	●65F					6.1
	●70F					6.2
●48H	●34G	●30D	●30C	●30B	●30B	6.3
●42H	●30G	●27D	●27C	●27B	●27B	6.4
	●70E					7.1
	■45N					7.2
	●40N					7.3
■42H	●30G	●27D	●27C	●27B	●27B	7.4
	●55H					8.1
	●40F					8.2
						8.3
						9.1
						10.1

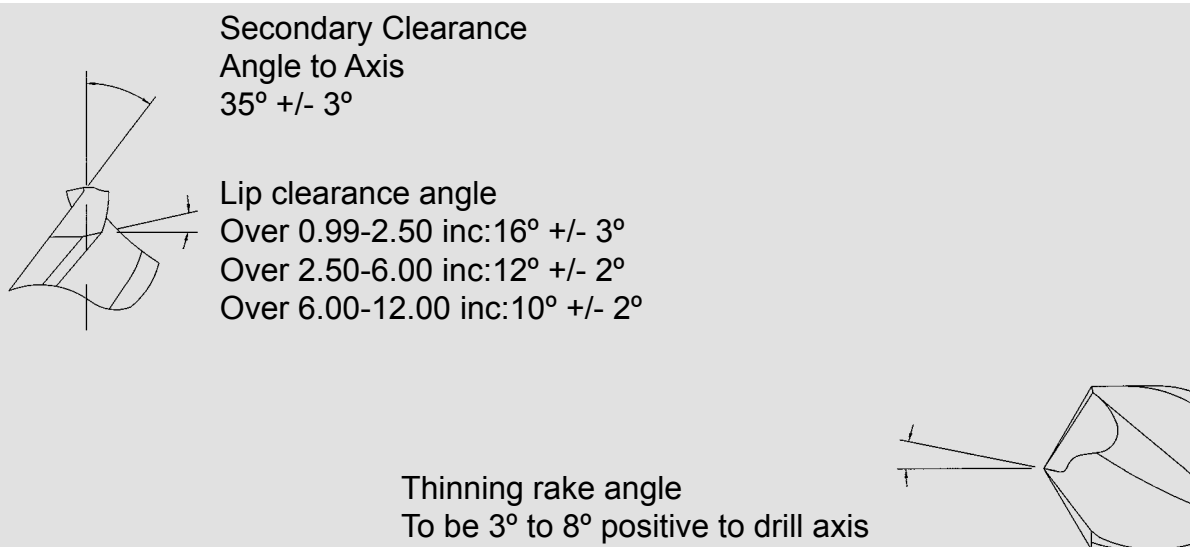
PFX Stub, Jobber and Long Series Drills

A927, A597, A907, A577, A916, A578

POINT REGRINDING DETAILS



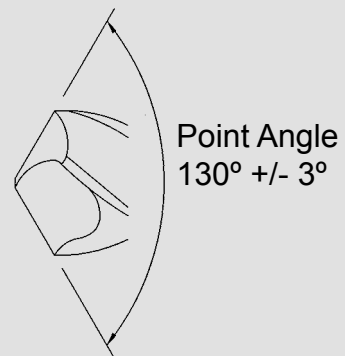
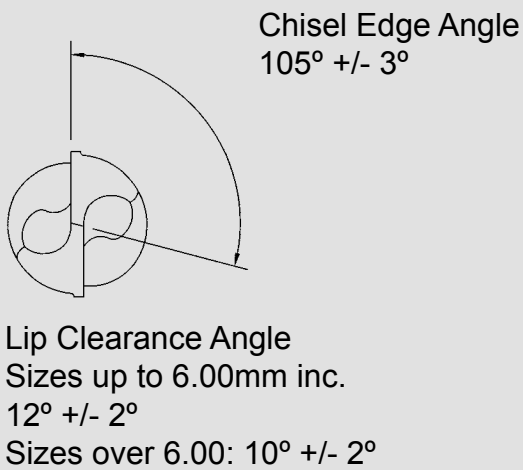
WEB THINNING DETAILS



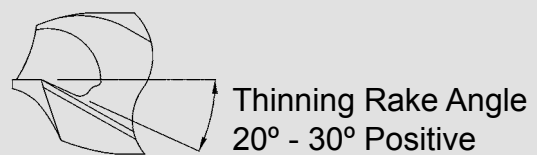
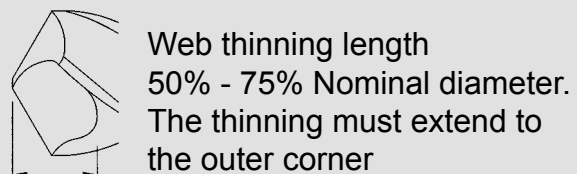
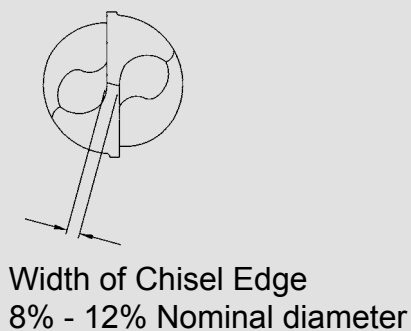
PFX Extra Length Drills

A976, A977, A978, A979

POINT REGRINDING DETAILS



WEB THINNING DETAILS



- PFX Stub Drill
- PFX - Spiralbohrer, kurz
- Extra korte PFX boren
- Foret PFX extra-court
- Broca PFX Extra Corta
- Broca Extra Curta PFX



A927



- 1.3 1.4 1.5 1.6 2.2 4.1 4.2 4.3 5.1 5.2 5.3 7.2
- 1.1 1.2 2.1 2.3 3.1 3.2 3.3 3.4 6.1 6.2 6.3 6.4 7.1 7.3 7.4 8.1 8.2

d ₁ Øh ₈ Inch	d ₁ Øh ₈ mm	l ₂ mm	l ₁ mm	e-Code	d ₁ Øh ₈ Inch	d ₁ Øh ₈ mm	l ₂ mm	l ₁ mm	e-Code
	1.00	6	26	A9271.0		4.10	22	55	A9274.1
	1.10	7	28	A9271.1		4.20	22	55	A9274.2
	1.20	8	30	A9271.2		4.30	24	58	A9274.3
	1.30	8	30	A9271.3	11/64	4.37	24	58	A92711/64
	1.40	9	32	A9271.4		4.40	24	58	A9274.4
	1.50	9	32	A9271.5		4.50	24	58	A9274.5
1/16	1.59	10	34	A9271/16		4.60	24	58	A9274.6
	1.60	10	34	A9271.6		4.70	24	58	A9274.7
	1.70	10	34	A9271.7	3/16	4.76	26	62	A9273/16
	1.80	11	36	A9271.8		4.80	26	62	A9274.8
	1.90	11	36	A9271.9		4.90	26	62	A9274.9
5/64	1.98	12	38	A9275/64		5.00	26	62	A9275.0
	2.00	12	38	A9272.0		5.10	26	62	A9275.1
	2.10	12	38	A9272.1	13/64	5.16	26	62	A92713/64
	2.20	13	40	A9272.2		5.20	26	62	A9275.2
	2.30	13	40	A9272.3		5.30	26	62	A9275.3
3/32	2.38	14	43	A9273/32		5.40	28	66	A9275.4
	2.40	14	43	A9272.4		5.50	28	66	A9275.5
	2.50	14	43	A9272.5	7/32	5.56	28	66	A9277/32
	2.60	14	43	A9272.6		5.60	28	66	A9275.6
	2.70	16	46	A9272.7		5.70	28	66	A9275.7
7/64	2.78	16	46	A9277/64		5.80	28	66	A9275.8
	2.80	16	46	A9272.8		5.90	28	66	A9275.9
	2.90	16	46	A9272.9	15/64	5.95	28	66	A92715/64
	3.00	16	46	A9273.0		6.00	28	66	A9276.0
	3.10	18	49	A9273.1		6.10	31	70	A9276.1
1/8	3.18	18	49	A9271/8		6.20	31	70	A9276.2
	3.20	18	49	A9273.2		6.30	31	70	A9276.3
	3.30	18	49	A9273.3	1/4	6.35	31	70	A9271/4
	3.40	20	52	A9273.4		6.40	31	70	A9276.4
	3.50	20	52	A9273.5		6.50	31	70	A9276.5
9/64	3.57	20	52	A9279/64		6.60	31	70	A9276.6
	3.60	20	52	A9273.6		6.70	31	70	A9276.7
	3.70	20	52	A9273.7	17/64	6.75	34	74	A92717/64
	3.80	22	55	A9273.8		6.80	34	74	A9276.8
	3.90	22	55	A9273.9		6.90	34	74	A9276.9
5/32	3.97	22	55	A9275/32		7.00	34	74	A9277.0
	4.00	22	55	A9274.0		7.10	34	74	A9277.1

d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
9/32	7.14	34	74	A9279/32		10.00	43	89	A92710.0
	7.20	34	74	A9277.2		10.20	43	89	A92710.2
	7.30	34	74	A9277.3		10.30	43	89	A92710.3
	7.40	34	74	A9277.4	13/32	10.32	43	89	A92713/32
	7.50	34	74	A9277.5		10.40	43	89	A92710.4
19/64	7.54	37	79	A92719/64		10.50	43	89	A92710.5
	7.60	37	79	A9277.6	27/64	10.72	50	95	A92727/64 ¹⁾
	7.70	37	79	A9277.7		10.80	50	95	A92710.8 ¹⁾
	7.80	37	79	A9277.8		11.00	50	95	A92711.0 ¹⁾
	7.90	37	79	A9277.9	7/16	11.11	50	95	A9277/16 ¹⁾
5/16	7.94	37	79	A9275/16			11.20	50	95
	8.00	37	79	A9278.0		11.50	50	95	A92711.5 ¹⁾
	8.10	37	79	A9278.1	29/64	11.51	50	95	A92729/64 ¹⁾
	8.20	37	79	A9278.2		11.80	50	95	A92711.8 ¹⁾
	8.30	37	79	A9278.3	15/32	11.91	57	102	A92715/32 ¹⁾
21/64	8.33	37	79	A92721/64			12.00	57	102
	8.40	37	79	A9278.4		12.20	57	102	A92712.2 ¹⁾
	8.50	37	79	A9278.5	31/64	12.30	57	102	A92731/64 ¹⁾
	8.60	40	84	A9278.6		12.50	57	102	A92712.5 ¹⁾
	8.70	40	84	A9278.7	1/2	12.70	57	102	A9271/2 ¹⁾
11/32	8.73	40	84	A92711/32			12.80	57	102
	8.80	40	84	A9278.8		13.00	57	102	A92713.0 ¹⁾
	8.90	40	84	A9278.9		13.50	62	107	A92713.5 ¹⁾
	9.00	40	84	A9279.0		14.00	62	107	A92714.0 ¹⁾
	9.10	40	84	A9279.1		14.50	62	107	A92714.5 ¹⁾
23/64	9.13	40	84	A92723/64		15.00	63	111	A92715.0 ¹⁾
	9.20	40	84	A9279.2		15.50	63	111	A92715.5 ¹⁾
	9.30	40	84	A9279.3		16.00	67	115	A92716.0 ¹⁾
	9.40	40	84	A9279.4		17.00	71	119	A92717.0 ¹⁾
	9.50	40	84	A9279.5		17.50	75	123	A92717.5 ¹⁾
3/8	9.53	43	89	A9273/8		18.00	75	123	A92718.0 ¹⁾
	9.60	43	89	A9279.6		19.00	79	127	A92719.0 ¹⁾
	9.70	43	89	A9279.7		20.00	81	131	A92720.0 ¹⁾
	9.80	43	89	A9279.8					
	9.90	43	89	A9279.9					
25/64	9.92	43	89	A92725/64					

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

- PFX Stub Drill
- PFX - Spiralbohrer, kurz
- Extra korte PFX boren
- Foret PFX extra-court
- Broca PFX Extra Corta
- Broca Extra Curta PFX



A597



- 1.3 1.4 1.5 1.6 2.2 3.1 3.2 3.3 3.4 7.4
- 1.1 1.2 2.1 2.3 4.1 4.2 4.3 5.1 5.2 5.3 6.3 6.4

d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
2.50	14	43	A5972.5	6.80	34	74	A5976.8
2.60	14	43	A5972.6	6.90	34	74	A5976.9
3.00	16	46	A5973.0	7.00	34	74	A5977.0
3.10	18	49	A5973.1	7.10	34	74	A5977.1
3.20	18	49	A5973.2	7.20	34	74	A5977.2
3.30	18	49	A5973.3	7.30	34	74	A5977.3
3.40	20	52	A5973.4	7.40	34	74	A5977.4
3.50	20	52	A5973.5	7.50	34	74	A5977.5
3.60	20	52	A5973.6	7.60	37	79	A5977.6
3.70	20	52	A5973.7	7.70	37	79	A5977.7
3.80	22	55	A5973.8	7.80	37	79	A5977.8
3.90	22	55	A5973.9	7.90	37	79	A5977.9
4.00	22	55	A5974.0	8.00	37	79	A5978.0
4.20	22	55	A5974.2	8.10	37	79	A5978.1
4.30	24	58	A5974.3	8.20	37	79	A5978.2
4.40	24	58	A5974.4	8.30	37	79	A5978.3
4.50	24	58	A5974.5	8.40	37	79	A5978.4
4.60	24	58	A5974.6	8.50	37	79	A5978.5
4.70	24	58	A5974.7	8.60	40	84	A5978.6
4.80	26	62	A5974.8	8.70	40	84	A5978.7
5.00	26	62	A5975.0	8.80	40	84	A5978.8
5.10	26	62	A5975.1	8.90	40	84	A5978.9
5.20	26	62	A5975.2	9.00	40	84	A5979.0
5.30	26	62	A5975.3	9.10	40	84	A5979.1
5.40	28	66	A5975.4	9.20	40	84	A5979.2
5.50	28	66	A5975.5	9.30	40	84	A5979.3
5.60	28	66	A5975.6	9.40	40	84	A5979.4
5.70	28	66	A5975.7	9.50	40	84	A5979.5
5.80	28	66	A5975.8	9.60	43	89	A5979.6
5.90	28	66	A5975.9	9.70	43	89	A5979.7
6.00	28	66	A5976.0	9.80	43	89	A5979.8
6.10	31	70	A5976.1	9.90	43	89	A5979.9
6.20	31	70	A5976.2	10.00	43	89	A59710.0
6.30	31	70	A5976.3	10.20	43	89	A59710.2
6.40	31	70	A5976.4	10.30	43	89	A59710.3
6.50	31	70	A5976.5	10.40	43	89	A59710.4
6.60	31	70	A5976.6	10.50	43	89	A59710.5
6.70	31	70	A5976.7	10.80	47	95	A59710.8

d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
11.00	50	95	A59711.0 ¹⁾	13.00	57	102	A59713.0 ¹⁾
11.20	50	95	A59711.2 ¹⁾	13.50	62	107	A59713.5 ¹⁾
11.50	50	95	A59711.5 ¹⁾	14.00	62	107	A59714.0 ¹⁾
11.80	50	95	A59711.8 ¹⁾	14.50	62	111	A59714.5 ¹⁾
12.00	57	102	A59712.0 ¹⁾	15.00	63	111	A59715.0 ¹⁾
12.20	57	102	A59712.2 ¹⁾	15.50	63	115	A59715.5 ¹⁾
12.50	57	102	A59712.5 ¹⁾	16.00	67	115	A59716.0 ¹⁾
12.80	57	102	A59712.8 ¹⁾				

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

- PFX Jobber Drill
- PFX - Spiralbohrer
- PFX boor
- Foret PFX court
- Broca PFX Serie Corta
- Broca Curta PFX



A907



- 1.3 1.4 1.5 1.6 2.2 4.1 4.2 4.3 5.1 5.2 5.3 7.2
- 1.1 1.2 2.1 2.3 3.1 3.2 3.3 3.4 6.1 6.2 6.3 6.4 7.1 7.3 7.4 8.1 8.2

d_1 $\varnothing h_8$ Inch	d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code	d_1 $\varnothing h_8$ Inch	d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code
	1.00	12	34	A9071.0		4.00	43	75	A9074.0
	1.10	14	36	A9071.1		4.10	43	75	A9074.1
	1.20	16	38	A9071.2		4.20	43	75	A9074.2
	1.30	16	38	A9071.3		4.30	47	80	A9074.3
	1.40	18	40	A9071.4	11/64	4.37	47	80	A90711/64
	1.50	18	40	A9071.5		4.40	47	80	A9074.4
1/16	1.59	20	43	A9071/16		4.50	47	80	A9074.5
	1.60	20	43	A9071.6		4.60	47	80	A9074.6
	1.70	20	43	A9071.7		4.70	47	80	A9074.7
	1.80	22	46	A9071.8	3/16	4.76	52	86	A9073/16
	1.90	22	46	A9071.9		4.80	52	86	A9074.8
5/64	1.98	24	49	A9075/64		4.90	52	86	A9074.9
	2.00	24	49	A9072.0		5.00	52	86	A9075.0
	2.10	24	49	A9072.1		5.10	52	86	A9075.1
	2.20	27	53	A9072.2		5.11	52	86	A907N7
	2.30	27	53	A9072.3	13/64	5.16	52	86	A90713/64
3/32	2.38	30	57	A9073/32		5.20	52	86	A9075.2
	2.40	30	57	A9072.4		5.30	52	86	A9075.3
	2.50	30	57	A9072.5		5.40	57	93	A9075.4
	2.60	30	57	A9072.6		5.50	57	93	A9075.5
	2.70	33	61	A9072.7	7/32	5.56	57	93	A9077/32
7/64	2.78	33	61	A9077/64		5.60	57	93	A9075.6
	2.80	33	61	A9072.8		5.70	57	93	A9075.7
	2.90	33	61	A9072.9		5.80	57	93	A9075.8
	3.00	33	61	A9073.0		5.90	57	93	A9075.9
	3.10	36	65	A9073.1	15/64	5.95	57	93	A90715/64
1/8	3.18	36	65	A9071/8		6.00	57	93	A9076.0
	3.20	36	65	A9073.2		6.10	63	101	A9076.1
	3.30	36	65	A9073.3		6.20	63	101	A9076.2
	3.40	39	70	A9073.4		6.30	63	101	A9076.3
	3.50	39	70	A9073.5	1/4	6.35	63	101	A9071/4
9/64	3.57	39	70	A9079/64		6.40	63	101	A9076.4
	3.60	39	70	A9073.6		6.50	63	101	A9076.5
	3.70	39	70	A9073.7		6.53	63	101	A907F
	3.80	43	75	A9073.8		6.60	63	101	A9076.6
	3.90	43	75	A9073.9		6.70	63	101	A9076.7
5/32	3.97	43	75	A9075/32	17/64	6.75	69	109	A90717/64

d_1 $\varnothing h_8$ Inch	d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code	d_1 $\varnothing h_8$ Inch	d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code
	6.80	69	109	A9076.8		9.60	87	133	A9079.6
	6.90	69	109	A9076.9		9.70	87	133	A9079.7
	6.91	69	109	A907I		9.80	87	133	A9079.8
	7.00	69	109	A9077.0		9.90	87	133	A9079.9
	7.10	69	109	A9077.1	25/64	9.92	87	133	A90725/64
9/32	7.14	69	109	A9079/32		10.00	87	133	A90710.0
	7.20	69	109	A9077.2		10.20	87	133	A90710.2
	7.30	69	109	A9077.3		10.30	87	133	A90710.3
	7.40	69	109	A9077.4	13/32	10.32	87	133	A90713/32
	7.50	69	109	A9077.5		10.40	87	133	A90710.4
19/64	7.54	75	117	A90719/64		10.50	87	133	A90710.5
	7.60	75	117	A9077.6	27/64	10.72	97	142	A90727/64 ¹⁾
	7.70	75	117	A9077.7		10.80	97	142	A90710.8 ¹⁾
	7.80	75	117	A9077.8		11.00	97	142	A90711.0 ¹⁾
	7.90	75	117	A9077.9	7/16	11.11	97	142	A9077/16 ¹⁾
5/16	7.94	75	117	A9075/16		11.20	97	142	A90711.2 ¹⁾
	8.00	75	117	A9078.0		11.50	97	142	A90711.5 ¹⁾
	8.10	75	117	A9078.1	29/64	11.51	97	142	A90729/64 ¹⁾
	8.20	75	117	A9078.2		11.80	97	142	A90711.8 ¹⁾
	8.30	75	117	A9078.3	15/32	11.91	106	151	A90715/32 ¹⁾
21/64	8.33	75	117	A90721/64		12.00	106	151	A90712.0 ¹⁾
	8.40	75	117	A9078.4		12.20	106	151	A90712.2 ¹⁾
	8.43	75	117	A907Q	31/64	12.30	106	151	A90731/64 ¹⁾
	8.50	75	117	A9078.5		12.50	106	151	A90712.5 ¹⁾
	8.60	81	125	A9078.6	1/2	12.70	106	151	A9071/2 ¹⁾
	8.61	75	117	A907R		12.80	106	151	A90712.8 ¹⁾
	8.70	81	125	A9078.7		13.00	106	151	A90713.0 ¹⁾
11/32	8.73	81	125	A90711/32		13.50	115	160	A90713.5 ¹⁾
	8.80	81	125	A9078.8		14.00	115	160	A90714.0 ¹⁾
	8.90	81	125	A9078.9		14.50	121	169	A90714.5 ¹⁾
	9.00	81	125	A9079.0		15.00	121	169	A90715.0 ¹⁾
	9.10	81	125	A9079.1		15.50	130	178	A90715.5 ¹⁾
23/64	9.13	81	125	A90723/64		16.00	130	178	A90716.0 ¹⁾
	9.20	81	125	A9079.2		17.00	125	184	A90717.0 ¹⁾
	9.30	81	125	A9079.3		17.50	130	191	A90717.5 ¹⁾
	9.40	81	125	A9079.4		18.00	130	198	A90718.0 ¹⁾²⁾
	9.50	81	125	A9079.5		19.00	135	205	A90719.0 ¹⁾²⁾
3/8	9.53	87	133	A9073/8		20.00	140	215	A90720.0 ¹⁾²⁾

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

²⁾ Overall Lengths Longer than Standard ²⁾ Gesamtlänge länger als Standard ²⁾ Totale lengte langer dan standaard ²⁾ Longueur totale plus longue que le standard ²⁾ Longitudes totales superiores a la standard ²⁾ Comprimento Total mais que o Standard

- PFX Jobber Drill
- PFX - Spiralbohrer
- PFX boor
- Foret PFX court
- Broca PFX Serie Corta
- Broca Curta PFX



A577



- 1.3 1.4 1.5 1.6 2.2 3.1 3.2 3.3 3.4 7.4
- 1.1 1.2 2.1 2.3 4.1 4.2 4.3 5.1 5.2 5.3 6.3 6.4

d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
1.50	18	40	A5771.5	6.60	63	101	A5776.6
2.00	24	49	A5772.0	6.70	63	101	A5776.7
2.50	30	57	A5772.5	6.80	69	109	A5776.8
2.60	30	57	A5772.6	6.90	69	109	A5776.9
3.00	33	61	A5773.0	7.00	69	109	A5777.0
3.10	36	65	A5773.1	7.10	69	109	A5777.1
3.20	36	65	A5773.2	7.20	69	109	A5777.2
3.30	36	65	A5773.3	7.30	69	109	A5777.3
3.40	39	70	A5773.4	7.40	69	109	A5777.4
3.50	39	70	A5773.5	7.50	69	109	A5777.5
3.60	39	70	A5773.6	7.60	75	117	A5777.6
3.70	39	70	A5773.7	7.70	75	117	A5777.7
3.80	43	75	A5773.8	7.80	75	117	A5777.8
3.90	43	75	A5773.9	7.90	75	117	A5777.9
4.00	43	75	A5774.0	8.00	75	117	A5778.0
4.10	43	75	A5774.1	8.10	75	117	A5778.1
4.20	43	75	A5774.2	8.20	75	117	A5778.2
4.30	47	80	A5774.3	8.40	75	117	A5778.4
4.40	47	80	A5774.4	8.50	75	117	A5778.5
4.50	47	80	A5774.5	8.60	81	125	A5778.6
4.60	47	80	A5774.6	8.70	81	125	A5778.7
4.70	47	80	A5774.7	8.80	81	125	A5778.8
4.80	52	86	A5774.8	8.90	81	125	A5778.9
5.00	52	86	A5775.0	9.00	81	125	A5779.0
5.10	52	86	A5775.1	9.10	81	125	A5779.1
5.20	52	86	A5775.2	9.20	81	125	A5779.2
5.30	52	86	A5775.3	9.30	81	125	A5779.3
5.40	57	93	A5775.4	9.40	81	125	A5779.4
5.50	57	93	A5775.5	9.50	81	125	A5779.5
5.60	57	93	A5775.6	9.60	87	133	A5779.6
5.70	57	93	A5775.7	9.70	87	133	A5779.7
5.80	57	93	A5775.8	9.80	87	133	A5779.8
5.90	57	93	A5775.9	9.90	87	133	A5779.9
6.00	57	93	A5776.0	10.00	87	133	A57710.0
6.10	63	101	A5776.1	10.20	87	133	A57710.2
6.20	63	101	A5776.2	10.30	87	133	A57710.3
6.40	63	101	A5776.4	10.40	87	133	A57710.4
6.50	63	101	A5776.5	10.50	87	133	A57710.5

d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
10.80	94	142	A57710.8	12.80	106	151	A57712.8 ¹⁾
11.00	97	142	A57711.0 ¹⁾	13.00	106	151	A57713.0 ¹⁾
11.20	97	142	A57711.2 ¹⁾	13.50	115	160	A57713.5 ¹⁾
11.50	97	142	A57711.5 ¹⁾	14.00	115	160	A57714.0 ¹⁾
11.80	97	142	A57711.8 ¹⁾	14.50	121	169	A57714.5 ¹⁾
12.00	106	151	A57712.0 ¹⁾	15.00	121	169	A57715.0 ¹⁾
12.20	106	151	A57712.2 ¹⁾	15.50	130	178	A57715.5 ¹⁾
12.50	106	151	A57712.5 ¹⁾	16.00	130	178	A57716.0 ¹⁾

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

- PFX Long Series Drill
- PFX - Spiralbohrer, lang
- Lange PFX boren
- Foret PFX série longue
- Broca PFX Serie Larga
- Broca Longa PFX



A916



- 1.3 1.4 1.5 1.6 2.2 4.1 4.2 4.3 7.2
- 1.1 1.2 2.1 2.3 3.2 3.3 3.4 6.1 6.2 6.3 6.4 7.1 7.3 7.4 8.1 8.2

d_1 Ø _{h8} Inch	d_1 Ø _{h8} mm	l_2 mm	l_1 mm	e-Code	d_1 Ø _{h8} Inch	d_1 Ø _{h8} mm	l_2 mm	l_1 mm	e-Code
	1.00	33	56	A9161.0		4.00	78	119	A9164.0
	1.10	37	60	A9161.1		4.10	78	119	A9164.1
	1.20	41	65	A9161.2		4.20	78	119	A9164.2
	1.30	41	65	A9161.3		4.30	82	126	A9164.3
	1.40	45	70	A9161.4	11/64	4.37	82	126	A91611/64
	1.50	45	70	A9161.5		4.40	82	126	A9164.4
1/16	1.59	50	76	A9161/16		4.50	82	126	A9164.5
	1.60	50	76	A9161.6		4.60	82	126	A9164.6
	1.70	50	76	A9161.7		4.70	82	126	A9164.7
	1.80	53	80	A9161.8	3/16	4.76	87	132	A9163/16
	1.90	53	80	A9161.9		4.80	87	132	A9164.8
5/64	1.98	56	85	A9165/64		4.90	87	132	A9164.9
	2.00	56	85	A9162.0		5.00	87	132	A9165.0
	2.10	56	85	A9162.1		5.10	87	132	A9165.1
	2.20	59	90	A9162.2	13/64	5.16	87	132	A91613/64
	2.30	59	90	A9162.3		5.20	87	132	A9165.2
3/32	2.38	62	95	A9163/32		5.30	87	132	A9165.3
	2.40	62	95	A9162.4		5.40	91	139	A9165.4
	2.50	62	95	A9162.5		5.50	91	139	A9165.5
	2.60	62	95	A9162.6	7/32	5.56	91	139	A9167/32
	2.70	66	100	A9162.7		5.60	91	139	A9165.6
7/64	2.78	66	100	A9167/64		5.70	91	139	A9165.7
	2.80	66	100	A9162.8		5.80	91	139	A9165.8
	2.90	66	100	A9162.9		5.90	91	139	A9165.9
	3.00	66	100	A9163.0	15/64	5.95	91	139	A91615/64
	3.10	69	106	A9163.1		6.00	91	139	A9166.0
1/8	3.18	69	106	A9161/8		6.10	97	148	A9166.1
	3.20	69	106	A9163.2		6.20	97	148	A9166.2
	3.30	69	106	A9163.3		6.30	97	148	A9166.3
	3.40	73	112	A9163.4	1/4	6.35	97	148	A9161/4
	3.50	73	112	A9163.5		6.40	97	148	A9166.4
9/64	3.57	73	112	A9169/64		6.50	97	148	A9166.5
	3.60	73	112	A9163.6		6.60	97	148	A9166.6
	3.70	73	112	A9163.7		6.70	97	148	A9166.7
	3.80	78	119	A9163.8	17/64	6.75	102	156	A91617/64
	3.90	78	119	A9163.9		6.80	102	156	A9166.8
5/32	3.97	78	119	A9165/32		6.90	102	156	A9166.9

d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	
	7.00	102	156	A9167.0		10.50	139	184	A91610.5 ¹⁾	
9/32	7.10	102	156	A9167.1	27/64	10.72	150	195	A91627/64 ¹⁾	
	7.14	102	156	A9169/32		10.80	150	195	A91610.8 ¹⁾	
	7.20	102	156	A9167.2		11.00	150	195	A91611.0 ¹⁾	
	7.30	102	156	A9167.3		11.11	150	195	A9167/16 ¹⁾	
	7.40	102	156	A9167.4		11.20	150	195	A91611.2 ¹⁾	
19/64	7.50	102	156	A9167.5		11.50	150	195	A91611.5 ¹⁾	
	7.54	109	165	A91619/64	29/64	11.51	150	195	A91629/64 ¹⁾	
	7.60	109	165	A9167.6		11.80	150	195	A91611.8 ¹⁾	
	7.70	109	165	A9167.7		15/32	11.91	160	205	A91615/32 ¹⁾
7.80	109	165	A9167.8	12.00			160	205	A91612.0 ¹⁾	
5/16	7.90	109	165	A9167.9		12.20	160	205	A91612.2 ¹⁾	
	7.94	109	165	A9165/16	31/64	12.30	160	205	A91631/64 ¹⁾	
	8.00	109	165	A9168.0		12.50	160	205	A91612.5 ¹⁾	
	8.10	109	165	A9168.1		1/2	12.70	160	205	A9161/2 ¹⁾
8.20	109	165	A9168.2	12.80			160	205	A91612.8 ¹⁾	
	8.30	109	165	A9168.3		13.00	160	205	A91613.0 ¹⁾	
21/64	8.33	109	165	A91621/64	33/64	13.10	160	205	A91633/64 ¹⁾	
	8.40	109	165	A9168.4		17/32	13.49	169	214	A91617/32 ¹⁾
	8.50	109	165	A9168.5			13.50	169	214	A91613.5 ¹⁾
	8.60	115	175	A9168.6			14.00	169	214	A91614.0 ¹⁾
	8.70	115	175	A9168.7	9/16	14.29	172	220	A9169/16 ¹⁾	
11/32	8.73	115	175	A91611/32		14.50	172	220	A91614.5 ¹⁾	
	8.80	115	175	A9168.8		37/64	14.68	172	220	A91637/64 ¹⁾
	8.90	115	175	A9168.9			15.00	172	220	A91615.0 ¹⁾
	9.00	115	175	A9169.0	19/32	15.08	179	227	A91619/32 ¹⁾	
	9.10	115	175	A9169.1		15.50	179	227	A91615.5 ¹⁾	
23/64	9.13	115	175	A91623/64	5/8	15.88	179	255	A9165/8 ¹⁾	
	9.20	115	175	A9169.2		16.00	179	227	A91616.0 ¹⁾	
	9.30	115	175	A9169.3		16.50	188	235	A91616.5 ¹⁾	
	9.40	115	175	A9169.4		21/32	16.67	188	235	A91621/32 ¹⁾
	9.50	115	175	A9169.5	17.00		188	235	A91617.0 ¹⁾	
3/8	9.53	139	184	A9163/8 ¹⁾	11/16	17.46	195	241	A91611/16 ¹⁾	
	9.60	139	184	A9169.6 ¹⁾		17.50	195	241	A91617.5 ¹⁾	
	9.70	139	184	A9169.7 ¹⁾		45/64	17.86	195	241	A91645/64 ¹⁾
	9.80	139	184	A9169.8 ¹⁾			18.00	195	257	A91618.0 ¹⁾²⁾
	9.90	139	184	A9169.9 ¹⁾	23/32	18.27	210	257	A91623/32 ¹⁾²⁾	
25/64	9.92	139	184	A91625/64 ¹⁾		47/64	18.65	210	257	A91647/64 ¹⁾²⁾
	10.00	139	184	A91610.0 ¹⁾			19.00	210	264	A91619.0 ¹⁾²⁾
	10.20	139	184	A91610.2 ¹⁾		3/4	19.05	215	264	A9163/4 ¹⁾²⁾
	10.30	139	184	A91610.3 ¹⁾	20.00		220	264	A91620.0 ¹⁾²⁾	
13/32	10.32	139	184	A91613/32 ¹⁾						
	10.40	139	184	A91610.4 ¹⁾						

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

²⁾ Overall Lengths Longer than Standard ²⁾ Gesamtlänge länger als Standard ²⁾ Totale lengte langer dan standaard ²⁾ Longueur totale plus longue que le standard ²⁾ Longitudes totales superiores a la standard ²⁾ Comprimento Total mais que o Standard

- PFX Long Series Drill
- PFX - Spiralbohrer, lang
- Lange PFX boren
- Foret PFX série longue
- Broca PFX Serie Larga
- Broca Longa PFX



A578



■ 1.3 1.4 1.5 1.6 2.2 3.1 3.2 3.3 3.4 7.4

● 1.1 1.2 2.1 2.3 4.1 4.2 4.3 6.3 6.4

d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code	d_1 $\varnothing h_8$ mm	l_2 mm	l_1 mm	e-Code
3.00	66	100	A5783.0	7.50	102	156	A5787.5
3.10	69	106	A5783.1	7.70	109	165	A5787.7
3.20	69	106	A5783.2	7.80	109	165	A5787.8
3.30	69	106	A5783.3	7.90	109	165	A5787.9
3.40	73	112	A5783.4	8.00	109	165	A5788.0
3.50	73	112	A5783.5	8.10	109	165	A5788.1
3.60	73	112	A5783.6	8.20	109	165	A5788.2
3.70	73	112	A5783.7	8.30	109	165	A5788.3
3.80	78	119	A5783.8	8.40	109	165	A5788.4
3.90	78	119	A5783.9	8.50	109	165	A5788.5
4.00	78	119	A5784.0	8.60	115	175	A5788.6
4.10	78	119	A5784.1	8.70	115	175	A5788.7
4.20	78	119	A5784.2	8.80	115	175	A5788.8
4.30	82	126	A5784.3	8.90	115	175	A5788.9
4.40	82	126	A5784.4	9.00	115	175	A5789.0
4.50	82	126	A5784.5	9.10	115	175	A5789.1
4.60	82	126	A5784.6	9.20	115	175	A5789.2
4.70	82	126	A5784.7	9.30	115	175	A5789.3
4.80	87	132	A5784.8	9.40	115	175	A5789.4
4.90	87	132	A5784.9	9.50	115	175	A5789.5
5.00	87	132	A5785.0	9.60	121	184	A5789.6
5.10	87	132	A5785.1	9.70	121	184	A5789.7
5.20	87	132	A5785.2	9.80	121	184	A5789.8
5.30	87	132	A5785.3	9.90	121	184	A5789.9
5.40	91	139	A5785.4	10.00	139	184	A57810.0 ¹⁾
5.50	91	139	A5785.5	10.20	139	184	A57810.2 ¹⁾
5.60	91	139	A5785.6	10.30	139	184	A57810.3 ¹⁾
5.70	91	139	A5785.7	10.40	139	184	A57810.4 ¹⁾
5.80	91	139	A5785.8	10.50	139	184	A57810.5 ¹⁾
5.90	91	139	A5785.9	10.80	150	195	A57810.8 ¹⁾
6.00	91	139	A5786.0	11.00	150	195	A57811.0 ¹⁾
6.10	97	148	A5786.1	11.20	150	195	A57811.2 ¹⁾
6.20	97	148	A5786.2	11.50	150	195	A57811.5 ¹⁾
6.30	97	148	A5786.3	11.80	150	195	A57811.8 ¹⁾
6.40	97	148	A5786.4	12.00	160	205	A57812.0 ¹⁾
6.50	97	148	A5786.5	12.20	160	205	A57812.2 ¹⁾
6.60	97	148	A5786.6	12.50	160	205	A57812.5 ¹⁾
6.70	97	148	A5786.7	12.80	160	205	A57812.8 ¹⁾
6.80	102	156	A5786.8	13.00	160	205	A57813.0 ¹⁾
6.90	102	156	A5786.9	13.50	169	214	A57813.5 ¹⁾
7.00	102	156	A5787.0	14.00	169	214	A57814.0 ¹⁾
7.10	102	156	A5787.1	14.50	172	220	A57814.5 ¹⁾
7.20	102	156	A5787.2	15.00	172	220	A57815.0 ¹⁾
7.30	102	156	A5787.3	15.50	179	227	A57815.5 ¹⁾
7.40	102	156	A5787.4	16.00	179	227	A57816.0 ¹⁾

¹⁾ Flute Lengths Longer than Standard ¹⁾ Nutlänge länger als Standard ¹⁾ Spiraalgroef langer dan standaard ¹⁾ Goujures plus longues que le standard ¹⁾ Longitudes de la Estria superiores a la standard ¹⁾ Navalha mais comprida que o Standard

- PFX Extra Length Drill
- PFX - Spiralbohrer, extra lang
- Extra lange PFX boren
- Foret PFX extra-long
- Broca PFX Extra Larga
- Broca Extra Longa PFX



A976



- 1.3 1.4 1.5 1.6
- 1.1 1.2 2.1 2.2 2.3 3.2 3.3 3.4 4.1 4.2 4.3 6.3 6.4 7.4

d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
	1.50	75	115	A9761.5		5.40	140	205	A9765.4X205
	2.00	85	125	A9762.0X125		5.50	140	205	A9765.5X205
	2.10	85	125	A9762.1X125		5.60	140	205	A9765.6X205
	2.20	90	135	A9762.2X135		5.70	140	205	A9765.7X205
	2.30	90	135	A9762.3X135		5.80	140	205	A9765.8X205
	2.40	95	140	A9762.4X140		5.90	140	205	A9765.9X205
	2.50	95	140	A9762.5X140		6.00	140	205	A9766.0X205
	2.60	95	140	A9762.6X140		6.10	150	215	A9766.1X215
	2.70	100	150	A9762.7X150		6.20	150	215	A9766.2X215
	2.80	100	150	A9762.8X150		6.30	150	215	A9766.3X215
	2.90	100	150	A9762.9X150	1/4	6.35	140	205	A9761/4 ¹⁾
	3.00	100	150	A9763.0X150		6.40	150	215	A9766.4X215
	3.10	105	155	A9763.1X155		6.50	150	215	A9766.5X215
1/8	3.18	105	155	A9761/8		6.60	150	215	A9766.6X215
	3.20	105	155	A9763.2X155		6.70	150	215	A9766.7X215
	3.30	105	155	A9763.3X155		6.80	155	225	A9766.8X225
	3.40	115	165	A9763.4X165		6.90	155	225	A9766.9X225
	3.50	115	165	A9763.5X165		7.00	155	225	A9767.0X225
	3.60	115	165	A9763.6X165		7.50	155	225	A9767.5X225
	3.70	115	165	A9763.7X165	5/16	7.94	165	240	A9765/16
	3.80	120	175	A9763.8X175		8.00	165	240	A9768.0X240
	3.90	120	175	A9763.9X175		8.50	165	240	A9768.5X240
5/32	3.97	120	175	A9765/32	11/32	8.73	175	250	A97611/32
	4.00	120	175	A9764.0X175		9.00	175	250	A9769.0X250
	4.10	120	175	A9764.1X175		9.50	175	250	A9769.5X250
	4.20	120	175	A9764.2X175	3/8	9.53	185	265	A9763/8
	4.30	125	185	A9764.3X185		10.00	185	265	A97610.0X265
	4.40	125	185	A9764.4X185		10.50	185	265	A97610.5
	4.50	125	185	A9764.5X185		11.00	195	280	A97611.0 ¹⁾
	4.60	125	185	A9764.6X185	7/16	11.11	195	280	A9767/16 ¹⁾
	4.70	125	185	A9764.7X185		11.50	195	280	A97611.5 ¹⁾
3/16	4.76	135	195	A9763/16		12.00	205	295	A97612.0 ¹⁾
	4.80	135	195	A9764.8X195		12.50	205	295	A97612.5 ¹⁾
	4.90	135	195	A9764.9X195	1/2	12.70	205	295	A9761/2 ¹⁾
	5.00	135	195	A9765.0X195		13.00	205	295	A97613.0 ¹⁾
	5.10	135	195	A9765.1X195		14.00	215	310	A97614.0 ¹⁾
	5.20	135	195	A9765.2X195					
	5.30	135	195	A9765.3X195					

¹⁾ Dormer Standard ¹⁾ Werksnorm ¹⁾ Spiraalgroef en totale lengte volgens Dormer standaard ¹⁾ Goujure et longueur totale selon la norme usine ¹⁾ Norma Dormer ¹⁾ Standard Dormer

- PFX Extra Length Drill
- PFX - Spiralbohrer, extra lang
- Extra lange PFX boren
- Foret PFX extra-long
- Broca PFX Extra Larga
- Broca Extra Longa PFX



A977



- 1.3 1.4 1.5 1.6
- 1.1 1.2 2.1 2.2 2.3 3.2 3.3 3.4 4.1 4.2 4.3 6.3 6.4 7.4

d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
	1.50	100	150	A9771.5		7.50	200	290	A9777.5X290
1/16	1.59	100	150	A9771/16		8.00	210	305	A9778.0X305
	2.00	110	160	A9772.0		8.50	210	305	A9778.5X305
3/32	2.38	115	170	A9773/32	11/32	8.73	220	320	A97711/32
	3.00	130	190	A9773.0X190		9.00	220	320	A9779.0X320
1/8	3.18	135	200	A9771/8		9.50	220	320	A9779.5X320
	3.50	145	210	A9773.5X210		10.00	235	340	A97710.0X340
	4.00	150	220	A9774.0X220		10.50	235	340	A97710.5
	4.50	160	235	A9774.5X235		11.00	250	365	A97711.0 ¹⁾
3/16	4.76	170	245	A9773/16		11.50	250	365	A97711.5 ¹⁾
	5.00	170	245	A9775.0X245		12.00	260	375	A97712.0 ¹⁾
	5.50	180	260	A9775.5X260		12.50	260	375	A97712.5 ¹⁾
	6.00	180	260	A9776.0X260		13.00	260	375	A97713.0 ¹⁾
1/4	6.35	180	260	A9771/4 ¹⁾		14.00	270	390	A97714.0 ¹⁾
	6.50	190	275	A9776.5X275					
	7.00	200	290	A9777.0X290					

¹⁾ Dormer Standard ¹⁾ Werksnorm ¹⁾ Spiraalgroef en totale lengte volgens Dormer standaard ¹⁾ Goujure et longueur totale selon la norme usine ¹⁾ Norma Dormer ¹⁾ Standard Dormer

- PFX Extra Length Drill
- PFX - Spiralbohrer, extra lang
- Extra lange PFX boren
- Foret PFX extra-long
- Broca PFX Extra Larga
- Broca Extra Longa PFX



A978



- 1.3 1.4 1.5 1.6
- 1.1 1.2 2.1 2.2 2.3 3.2 3.3 3.4 4.1 4.2 4.3 6.3 6.4 7.4

d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code	d_1 \varnothing_{h_8} Inch	d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
	3.00	160	240	A9783.0		6.50	235	350	A9786.5X350
	3.50	180	265	A9783.5X265		7.00	250	370	A9787.0X370
	4.00	190	280	A9784.0X280		7.50	250	370	A9787.5X370
	4.50	200	295	A9784.5X295		8.00	265	390	A9788.0X390
	5.00	210	315	A9785.0X315		8.50	265	390	A9788.5X390
	5.50	225	330	A9785.5X330		9.00	280	410	A9789.0X410
	6.00	225	330	A9786.0X330		9.50	280	410	A9789.5X410
1/4	6.35	225	330	A9781/4		10.00	295	430	A97810.0X430



A979



- 1.3 1.4 1.5 1.6
- 2.1 2.2 2.3 3.2 3.3 3.4 4.1 4.2 4.3 6.3 6.4 7.4

d_1 \varnothing_{h_8} mm	l_2 mm	l_1 mm	e-Code
5.00	250	400	A9795.0
6.00	250	400	A9796.0

¹⁾ Dormer Standard ¹⁾ Werknorm ¹⁾ Spiraalgroef en totale lengte volgens Dormer standaard ¹⁾ Goujure et longueur totale selon la norme usine ¹⁾ Norma Dormer ¹⁾ Standard Dormer



For details on the full Dormer product range, please order a copy of our current tooling catalogue.



For correct tool selection and operation, please also refer to our Product Selector CD.



Further useful technical information can be found in our brand new 2005 Technical Handbook.

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