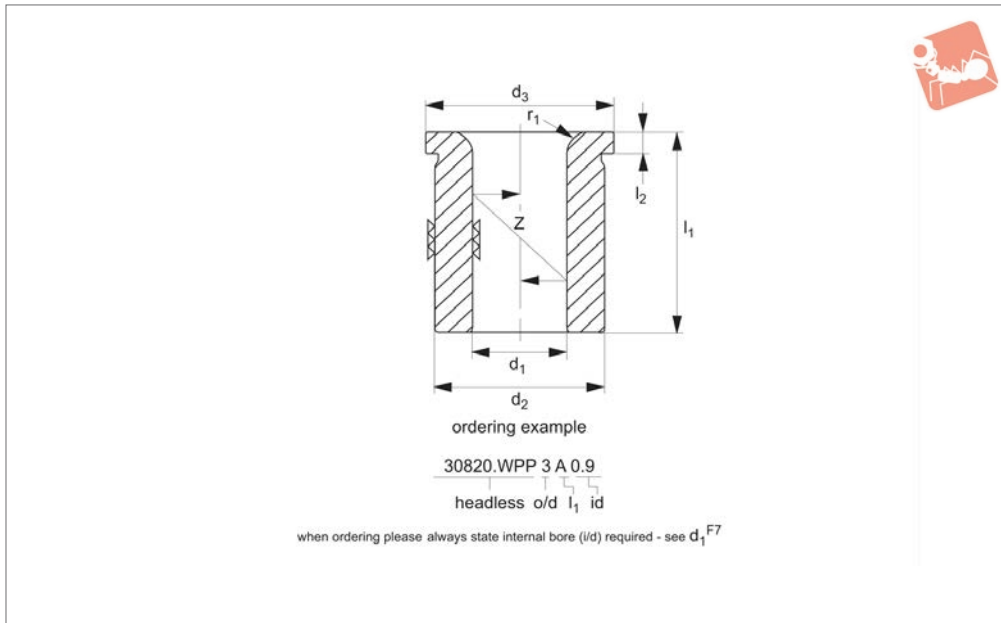




Headed Drill Bushes - DIN 172A

short

Tenons, Locating Pads & Drill



30820.1

TENONS, LOCATING PADS & DRILL BUSHES

Material

High grade steel. Hardened 740 +HV10.
Hole, d₁ ground ISO tolerance F7.
o/d-d₂ ground ISO tolerance n6, to fit standard hole tolerance H₇. Length l₁ to ±0,2 for lengths 6 to 30mm.

Technical Notes

d₁ dimension tolerance to F7.

Key to dimensions l₁:

- l₁ short
- l₁ medium
- l₁ long

Table of lengths l₁:

- A- 6mm
- B- 8mm

- C- 9mm
- D- 10mm
- E- 12mm
- F- 16mm
- H- 20mm
- J- 25mm
- K- 28mm
- L- 30mm
- M- 35mm
- N- 36mm
- P- 40mm
- R- 45mm
- S- 56mm
- T- 67mm
- W- 78mm

Tips

Sizes 48,0 i/d and above are made to order

Please note sizes d₁ <0,9 prices available on request.

Important Notes

Drill bushes produced to standard DIN increments for internal bores:
i/d's 0,9mm to 15,0mm - 0,1mm increments e.g. 1,1 mm, 1,2mm etc.
i/d's 15,1mm and over -0,5mm increments.

Ordering drill bushes to DIN standard increments offers a cost advantage, as non-standard bores are machined to order as specials.

Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH3A0.9	0.9	short	A	6	3	1	6	2
30820.WPH3A1.0	1.0	short	A	6	3	1	6	2
30820.WPH4A1.1	1.1	short	A	6	4	1	7	2
30820.WPH4A1.2	1.2	short	A	6	4	1	7	2
30820.WPH4A1.3	1.3	short	A	6	4	1	7	2
30820.WPH4A1.4	1.4	short	A	6	4	1	7	2
30820.WPH4A1.5	1.5	short	A	6	4	1	7	2
30820.WPH4A1.6	1.6	short	A	6	4	1	7	2
30820.WPH4A1.7	1.7	short	A	6	4	1	7	2
30820.WPH4A1.8	1.8	short	A	6	4	1	7	2
30820.WPH5A2.0	2.0	short	A	6	5	1	8	2
30820.WPH5A2.1	2.1	short	A	6	5	1	8	2
30820.WPH5A2.2	2.2	short	A	6	5	1	8	2
30820.WPH5A2.3	2.3	short	A	6	5	1	8	2
30820.WPH5A2.4	2.4	short	A	6	5	1	8	2
30820.WPH5A2.5	2.5	short	A	6	5	1	8	2
30820.WPH5A2.6	2.6	short	A	6	5	1	8	2
30820.WPH6B2.7	2.7	short	B	8	6	1	9	2.5



Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH6B2.8	2.8	short	B	8	6	1	9	2.5
30820.WPH6B2.9	2.9	short	B	8	6	1	9	2.5
30820.WPH6B3.0	3.0	short	B	8	6	1	9	2.5
30820.WPH6B3.1	3.1	short	B	8	6	1	9	2.5
30820.WPH6B3.2	3.2	short	B	8	6	1	9	2.5
30820.WPH6B3.3	3.3	short	B	8	6	1	9	2.5
30820.WPH7B3.4	3.4	short	B	8	7	1	10	2.5
30820.WPH7B3.5	3.5	short	B	8	7	1	10	2.5
30820.WPH7B3.6	3.6	short	B	8	7	1	10	2.5
30820.WPH7B3.7	3.7	short	B	8	7	1	10	2.5
30820.WPH7B3.8	3.8	short	B	8	7	1	10	2.5
30820.WPH7B3.9	3.9	short	B	8	7	1	10	2.5
30820.WPH7B4.0	4.0	short	B	8	7	1	10	2.5
30820.WPH8B4.1	4.1	short	B	8	8	1	11	2.5
30820.WPH8B4.2	4.2	short	B	8	8	1	11	2.5
30820.WPH8B4.3	4.3	short	B	8	8	1	11	2.5
30820.WPH8B4.4	4.4	short	B	8	8	1	11	2.5
30820.WPH8B4.5	4.5	short	B	8	8	1	11	2.5
30820.WPH8B4.6	4.6	short	B	8	8	1	11	2.5
30820.WPH8B4.7	4.7	short	B	8	8	1	11	2.5
30820.WPH8B4.8	4.8	short	B	8	8	1	11	2.5
30820.WPH8B4.9	4.9	short	B	8	8	1	11	2.5
30820.WPH8B5.0	5.0	short	B	8	8	1	11	2.5
30820.WPH10D5.1	5.1	short	D	10	10	1.5	13	3
30820.WPH10D5.2	5.2	short	D	10	10	1.5	13	3
30820.WPH10D5.3	5.3	short	D	10	10	1.5	13	3
30820.WPH10D5.4	5.4	short	D	10	10	1.5	13	3
30820.WPH10D5.5	5.5	short	D	10	10	1.5	13	3
30820.WPH10D5.6	5.6	short	D	10	10	1.5	13	3
30820.WPH10D5.7	5.7	short	D	10	10	1.5	13	3
30820.WPH10D5.8	5.8	short	D	10	10	1.5	13	3
30820.WPH10D5.9	5.9	short	D	10	10	1.5	13	3
30820.WPH10D6.0	6.0	short	D	10	10	1.5	13	3
30820.WPH12D6.1	6.1	short	D	10	12	1.5	15	3
30820.WPH12D6.2	6.2	short	D	10	12	1.5	15	3
30820.WPH12D6.3	6.3	short	D	10	12	1.5	15	3
30820.WPH12D6.4	6.4	short	D	10	12	1.5	15	3
30820.WPH12D6.5	6.5	short	D	10	12	1.5	15	3
30820.WPH12D6.6	6.6	short	D	10	12	1.5	15	3
30820.WPH12D6.7	6.7	short	D	10	12	1.5	15	3
30820.WPH12D6.8	6.8	short	D	10	12	1.5	15	3
30820.WPH12D6.9	6.9	short	D	10	12	1.5	15	3
30820.WPH12D7.0	7.0	short	D	10	12	1.5	15	3
30820.WPH12D7.1	7.1	short	D	10	12	1.5	15	3
30820.WPH12D7.2	7.2	short	D	10	12	1.5	15	3
30820.WPH12D7.3	7.3	short	D	10	12	1.5	15	3
30820.WPH12D7.4	7.4	short	D	10	12	1.5	15	3
30820.WPH12D7.5	7.5	short	D	10	12	1.5	15	3
30820.WPH12D7.6	7.6	short	D	10	12	1.5	15	3
30820.WPH12D7.7	7.7	short	D	10	12	1.5	15	3
30820.WPH12D7.8	7.8	short	D	10	12	1.5	15	3
30820.WPH12D7.9	7.9	short	D	10	12	1.5	15	3
30820.WPH12D8.0	8.0	short	D	10	12	1.5	15	3
30820.WPH15E8.1	8.1	short	E	12	15	2	18	3
30820.WPH15E8.2	8.2	short	E	12	15	2	18	3
30820.WPH15E8.3	8.3	short	E	12	15	2	18	3
30820.WPH15E8.4	8.4	short	E	12	15	2	18	3
30820.WPH15E8.5	8.5	short	E	12	15	2	18	3
30820.WPH15E8.6	8.6	short	E	12	15	2	18	3
30820.WPH15E8.7	8.7	short	E	12	15	2	18	3
30820.WPH15E8.8	8.8	short	E	12	15	2	18	3
30820.WPH15E8.9	8.9	short	E	12	15	2	18	3
30820.WPH15E9.0	9.0	short	E	12	15	2	18	3
30820.WPH15E9.1	9.1	short	E	12	15	2	18	3
30820.WPH15E9.2	9.2	short	E	12	15	2	18	3
30820.WPH15E9.3	9.3	short	E	12	15	2	18	3
30820.WPH15E9.4	9.4	short	E	12	15	2	18	3
30820.WPH15E9.5	9.5	short	E	12	15	2	18	3



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short

Tenons, Locating Pads & Drill



Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH15E9.6	9.6	short	E	12	15	2	18	3
30820.WPH15E9.7	9.7	short	E	12	15	2	18	3
30820.WPH15E9.8	9.8	short	E	12	15	2	18	3
30820.WPH15E9.9	9.9	short	E	12	15	2	18	3
30820.WPH15E10.0	10.0	short	E	12	15	2	18	3
30820.WPH18E10.1	10.1	short	E	12	18	2	22	4
30820.WPH18E10.2	10.2	short	E	12	18	2	22	4
30820.WPH18E10.3	10.3	short	E	12	18	2	22	4
30820.WPH18E10.4	10.4	short	E	12	18	2	22	4
30820.WPH18E10.5	10.5	short	E	12	18	2	22	4
30820.WPH18E10.6	10.6	short	E	12	18	2	22	4
30820.WPH18E10.7	10.7	short	E	12	18	2	22	4
30820.WPH18E10.8	10.8	short	E	12	18	2	22	4
30820.WPH18E10.9	10.9	short	E	12	18	2	22	4
30820.WPH18E11.0	11.0	short	E	12	18	2	22	4
30820.WPH18E11.1	11.1	short	E	12	18	2	22	4
30820.WPH18E11.2	11.2	short	E	12	18	2	22	4
30820.WPH18E11.3	11.3	short	E	12	18	2	22	4
30820.WPH18E11.4	11.4	short	E	12	18	2	22	4
30820.WPH18E11.5	11.5	short	E	12	18	2	22	4
30820.WPH18E11.6	11.6	short	E	12	18	2	22	4
30820.WPH18E11.7	11.7	short	E	12	18	2	22	4
30820.WPH18E11.8	11.8	short	E	12	18	2	22	4
30820.WPH18E11.9	11.9	short	E	12	18	2	22	4
30820.WPH18E12.0	12.0	short	E	12	18	2	22	4
30820.WPH22F12.1	12.1	short	F	16	22	2	26	4
30820.WPH22F12.2	12.2	short	F	16	22	2	26	4
30820.WPH22F12.3	12.3	short	F	16	22	2	26	4
30820.WPH22F12.4	12.4	short	F	16	22	2	26	4
30820.WPH22F12.5	12.5	short	F	16	22	2	26	4
30820.WPH22F12.6	12.6	short	F	16	22	2	26	4
30820.WPH22F12.7	12.7	short	F	16	22	2	26	4
30820.WPH22F12.8	12.8	short	F	16	22	2	26	4
30820.WPH22F12.9	12.9	short	F	16	22	2	26	4
30820.WPH22F13.0	13.0	short	F	16	22	2	26	4
30820.WPH22F13.1	13.1	short	F	16	22	2	26	4
30820.WPH22F13.2	13.2	short	F	16	22	2	26	4
30820.WPH22F13.3	13.3	short	F	16	22	2	26	4
30820.WPH22F13.4	13.4	short	F	16	22	2	26	4
30820.WPH22F13.5	13.5	short	F	16	22	2	26	4
30820.WPH22F13.6	13.6	short	F	16	22	2	26	4
30820.WPH22F13.7	13.7	short	F	16	22	2	26	4
30820.WPH22F13.8	13.8	short	F	16	22	2	26	4
30820.WPH22F13.9	13.9	short	F	16	22	2	26	4
30820.WPH22F14.0	14.0	short	F	16	22	2	26	4
30820.WPH22F14.1	14.1	short	F	16	22	2	26	4
30820.WPH22F14.2	14.2	short	F	16	22	2	26	4
30820.WPH22F14.3	14.3	short	F	16	22	2	26	4
30820.WPH22F14.4	14.4	short	F	16	22	2	26	4
30820.WPH22F14.5	14.5	short	F	16	22	2	26	4
30820.WPH22F14.6	14.6	short	F	16	22	2	26	4
30820.WPH22F14.7	14.7	short	F	16	22	2	26	4
30820.WPH22F14.8	14.8	short	F	16	22	2	26	4
30820.WPH22F14.9	14.9	short	F	16	22	2	26	4
30820.WPH22F15.0	15.0	short	F	16	22	2	26	4
30820.WPH26F15.5	15.5	short	F	16	26	2	30	4
30820.WPH26F16.0	16.0	short	F	16	26	2	30	4
30820.WPH26F16.5	16.5	short	F	16	26	2	30	4
30820.WPH26F17.0	17.0	short	F	16	26	2	30	4
30820.WPH26F17.5	17.5	short	F	16	26	2	30	4
30820.WPH26F18.0	18.0	short	F	16	26	2	30	4
30820.WPH30H18.5	18.5	short	H	20	30	3	34	5
30820.WPH30H19.0	19.0	short	H	20	30	3	34	5
30820.WPH30H19.5	19.5	short	H	20	30	3	34	5
30820.WPH30H20.0	20.0	short	H	20	30	3	34	5
30820.WPH30H20.5	20.5	short	H	20	30	3	34	5
30820.WPH30H21.0	21.0	short	H	20	30	3	34	5
30820.WPH30H21.5	21.5	short	H	20	30	3	34	5

TENONS, LOCATING PADS & DRILL BUSHES



Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH30H22.0	22.0	short	H	20	30	3	34	5
30820.WPH35H22.5	22.5	short	H	20	35	3	39	5
30820.WPH35H23.0	23.0	short	H	20	35	3	39	5
30820.WPH35H23.5	23.5	short	H	20	35	3	39	5
30820.WPH35H24.0	24.0	short	H	20	35	3	39	5
30820.WPH35H24.5	24.5	short	H	20	35	3	39	5
30820.WPH35H25.0	25.0	short	H	20	35	3	39	5
30820.WPH35H25.5	25.5	short	H	20	35	3	39	5
30820.WPH35H26.0	26.0	short	H	20	35	3	39	5
30820.WPH42J26.5	26.5	short	J	25	42	3	46	5
30820.WPH42J27.0	27.0	short	J	25	42	3	46	5
30820.WPH42J27.5	27.5	short	J	25	42	3	46	5
30820.WPH42J28.0	28.0	short	J	25	42	3	46	5
30820.WPH42J28.5	28.5	short	J	25	42	3	46	5
30820.WPH42J29.0	29.0	short	J	25	42	3	46	5
30820.WPH42J29.5	29.5	short	J	25	42	3	46	5
30820.WPH42J30.0	30.0	short	J	25	42	3	46	5
30820.WPH48J30.5	30.5	short	J	25	48	3	52	5
30820.WPH48J31.0	31.0	short	J	25	48	3	52	5
30820.WPH48J31.5	31.5	short	J	25	48	3	52	5
30820.WPH48J32.0	32.0	short	J	25	48	3	52	5
30820.WPH48J32.5	32.5	short	J	25	48	3	52	5
30820.WPH48J33.0	33.0	short	J	25	48	3	52	5
30820.WPH48J33.5	33.5	short	J	25	48	3	52	5
30820.WPH48J34.0	34.0	short	J	25	48	3	52	5
30820.WPH48J34.5	34.5	short	J	25	48	3	52	5
30820.WPH48J35.0	35.0	short	J	25	48	3	52	5
30820.WPH62L42.5	42.5	short	L	30	62	3.5	66	6
30820.WPH62L43.0	43.0	short	L	30	62	3.5	66	6
30820.WPH62L43.5	43.5	short	L	30	62	3.5	66	6
30820.WPH62L44.0	44.0	short	L	30	62	3.5	66	6
30820.WPH62L44.5	44.5	short	L	30	62	3.5	66	6
30820.WPH62L45.0	45.0	short	L	30	62	3.5	66	6
30820.WPH62L45.5	45.5	short	L	30	62	3.5	66	6
30820.WPH62L46.0	46.0	short	L	30	62	3.5	66	6
30820.WPH62L46.5	46.5	short	L	30	62	3.5	66	6
30820.WPH62L47.0	47.0	short	L	30	62	3.5	66	6
30820.WPH62L47.5	47.5	short	L	30	62	3.5	66	6
30820.WPH62L48.0	48.0	short	L	30	62	3.5	66	6
30820.WPH70L48.5	48.5	short	L	30	70	3.5	74	6
30820.WPH70L49.0	49.0	short	L	30	70	3.5	74	6
30820.WPH70L49.5	49.5	short	L	30	70	3.5	74	6
30820.WPH70L50.0	50.0	short	L	30	70	3.5	74	6
30820.WPH70L50.5	50.5	short	L	30	70	3.5	74	6
30820.WPH70L51.0	51.0	short	L	30	70	3.5	74	6
30820.WPH70L51.5	51.5	short	L	30	70	3.5	74	6
30820.WPH70L52.0	52.0	short	L	30	70	3.5	74	6
30820.WPH70L52.5	52.5	short	L	30	70	3.5	74	6
30820.WPH70L53.0	53.0	short	L	30	70	3.5	74	6
30820.WPH70L53.5	53.5	short	L	30	70	3.5	74	6
30820.WPH70L54.0	54.0	short	L	30	70	3.5	74	6
30820.WPH70L54.5	54.5	short	L	30	70	3.5	74	6
30820.WPH70L55.0	55.0	short	L	30	70	3.5	74	6
30820.WPH78M55.5	55.5	short	M	35	78	4	82	6
30820.WPH78M56.0	56.0	short	M	35	78	4	82	6
30820.WPH78M56.5	56.5	short	M	35	78	4	82	6
30820.WPH78M57.0	57.0	short	M	35	78	4	82	6
30820.WPH78M57.5	57.5	short	M	35	78	4	82	6
30820.WPH78M58.0	58.0	short	M	35	78	4	82	6
30820.WPH78M58.5	58.5	short	M	35	78	4	82	6
30820.WPH78M59.0	59.0	short	M	35	78	4	82	6
30820.WPH78M59.5	59.5	short	M	35	78	4	82	6
30820.WPH78M60.0	60.0	short	M	35	78	4	82	6
30820.WPH78M60.5	60.5	short	M	35	78	4	82	6
30820.WPH78M61.0	61.0	short	M	35	78	4	82	6
30820.WPH78M61.5	61.5	short	M	35	78	4	82	6
30820.WPH78M62.0	62.0	short	M	35	78	4	82	6
30820.WPH78M62.5	62.5	short	M	35	78	4	82	6



Headed Drill Bushes - DIN 172A short



Tenons, Locating Pads & Drill

Order No.	i/d - d_1	Length gen	Length letter	Length mm	d_2	r_1	d_3	l_2
30820.WPH78M63.0	63.0	short	M	35	78	4	82	6