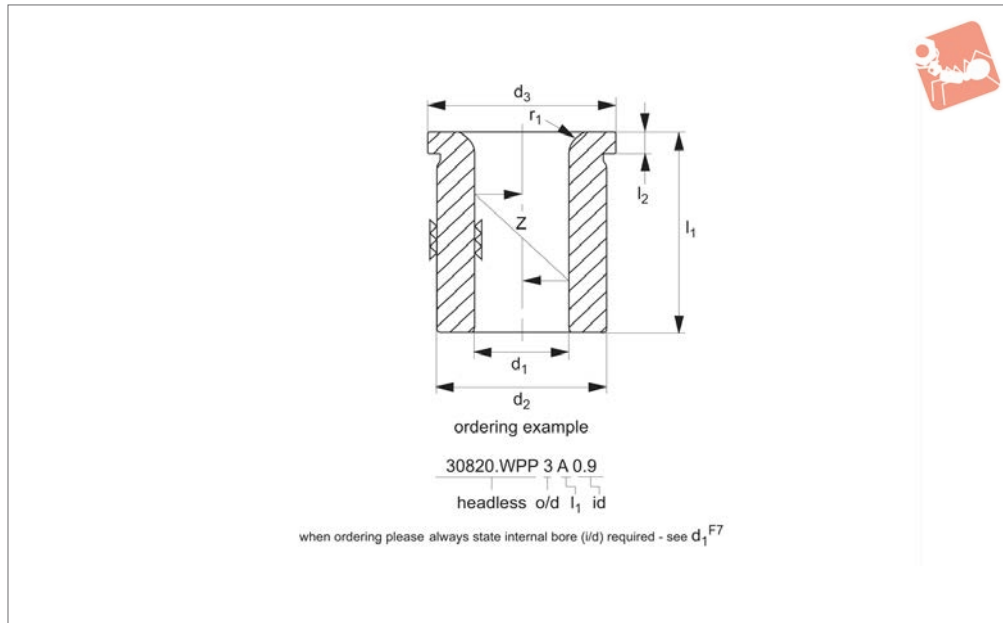




Headed Drill Bushes - DIN 172A medium

Tenons, Locating Pads & Drill



30820.2

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

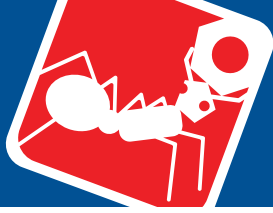
Drill bushes produced to standard DIN increments for internal bores:
i/d's 0,9mm to 15,0mm - 0,1mm increments e.g. 1,1 mm, 1,2mm etc.
i/d's 15,1mm and over -0,5mm increments.

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.WPH3C0.9	0.9	medium	C	9	3	1	6	2
30820.WPH3C1.0	1.0	medium	C	9	3	1	6	2
30820.WPH4C1.1	1.1	medium	C	9	4	1	7	2
30820.WPH4C1.2	1.2	medium	C	9	4	1	7	2
30820.WPH4C1.3	1.3	medium	C	9	4	1	7	2
30820.WPH4C1.4	1.4	medium	C	9	4	1	7	2
30820.WPH4C1.5	1.5	medium	C	9	4	1	7	2
30820.WPH4C1.6	1.6	medium	C	9	4	1	7	2
30820.WPH4C1.7	1.7	medium	C	9	4	1	7	2
30820.WPH4C1.8	1.8	medium	C	9	4	1	7	2
30820.WPH5C1.9	1.9	medium	C	9	5	1	8	2
30820.WPH5C2.0	2.0	medium	C	9	5	1	8	2
30820.WPH5C2.1	2.1	medium	C	9	5	1	8	2
30820.WPH5C2.2	2.2	medium	C	9	5	1	8	2
30820.WPH5C2.3	2.3	medium	C	9	5	1	8	2
30820.WPH5C2.4	2.4	medium	C	9	5	1	8	2
30820.WPH5C2.5	2.5	medium	C	9	5	1	8	2
30820.WPH5C2.6	2.6	medium	C	9	5	1	8	2



Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH6E2.7	2.7	medium	E	12	6	1	9	2.5
30820.WPH6E2.8	2.8	medium	E	12	6	1	9	2.5
30820.WPH6E2.9	2.9	medium	E	12	6	1	9	2.5
30820.WPH6E3.0	3.0	medium	E	12	6	1	9	2.5
30820.WPH6E3.1	3.1	medium	E	12	6	1	9	2.5
30820.WPH6E3.2	3.2	medium	E	12	6	1	9	2.5
30820.WPH6E3.3	3.3	medium	E	12	6	1	9	2.5
30820.WPH7E3.4	3.4	medium	E	12	7	1	10	2.5
30820.WPH7E3.5	3.5	medium	E	12	7	1	10	2.5
30820.WPH7E3.6	3.6	medium	E	12	7	1	10	2.5
30820.WPH7E3.7	3.7	medium	E	12	7	1	10	2.5
30820.WPH7E3.8	3.8	medium	E	12	7	1	10	2.5
30820.WPH7E3.9	3.9	medium	E	12	7	1	10	2.5
30820.WPH7E4.0	4.0	medium	E	12	7	1	10	2.5
30820.WPH8E4.1	4.1	medium	E	12	8	1	11	2.5
30820.WPH8E4.2	4.2	medium	E	12	8	1	11	2.5
30820.WPH8E4.3	4.3	medium	E	12	8	1	11	2.5
30820.WPH8E4.4	4.4	medium	E	12	8	1	11	2.5
30820.WPH8E4.5	4.5	medium	E	12	8	1	11	2.5
30820.WPH8E4.6	4.6	medium	E	12	8	1	11	2.5
30820.WPH8E4.7	4.7	medium	E	12	8	1	11	2.5
30820.WPH8E4.8	4.8	medium	E	12	8	1	11	2.5
30820.WPH8E4.9	4.9	medium	E	12	8	1	11	2.5
30820.WPH8E5.0	5.0	medium	E	12	8	1	11	2.5
30820.WPH10F5.1	5.1	medium	F	16	10	1.5	13	3
30820.WPH10F5.2	5.2	medium	F	16	10	1.5	13	3
30820.WPH10F5.3	5.3	medium	F	16	10	1.5	13	3
30820.WPH10F5.4	5.4	medium	F	16	10	1.5	13	3
30820.WPH10F5.5	5.5	medium	F	16	10	1.5	13	3
30820.WPH10F5.6	5.6	medium	F	16	10	1.5	13	3
30820.WPH10F5.7	5.7	medium	F	16	10	1.5	13	3
30820.WPH10F5.8	5.8	medium	F	16	10	1.5	13	3
30820.WPH10F5.9	5.9	medium	F	16	10	1.5	13	3
30820.WPH10F6.0	6.0	medium	F	16	10	1.5	13	3
30820.WPH12F6.1	6.1	medium	F	16	12	1.5	15	3
30820.WPH12F6.2	6.2	medium	F	16	12	1.5	15	3
30820.WPH12F6.3	6.3	medium	F	16	12	1.5	15	3
30820.WPH12F6.4	6.4	medium	F	16	12	1.5	15	3
30820.WPH12F6.5	6.5	medium	F	16	12	1.5	15	3
30820.WPH12F6.6	6.6	medium	F	16	12	1.5	15	3
30820.WPH12F6.7	6.7	medium	F	16	12	1.5	15	3
30820.WPH12F6.8	6.8	medium	F	16	12	1.5	15	3
30820.WPH12F6.9	6.9	medium	F	16	12	1.5	15	3
30820.WPH12F7.0	7.0	medium	F	16	12	1.5	15	3
30820.WPH12F7.1	7.1	medium	F	16	12	1.5	15	3
30820.WPH12F7.2	7.2	medium	F	16	12	1.5	15	3
30820.WPH12F7.3	7.3	medium	F	16	12	1.5	15	3
30820.WPH12F7.4	7.4	medium	F	16	12	1.5	15	3
30820.WPH12F7.5	7.5	medium	F	16	12	1.5	15	3
30820.WPH12F7.6	7.6	medium	F	16	12	1.5	15	3
30820.WPH12F7.7	7.7	medium	F	16	12	1.5	15	3
30820.WPH12F7.8	7.8	medium	F	16	12	1.5	15	3
30820.WPH12F7.9	7.9	medium	F	16	12	1.5	15	3
30820.WPH12F8.0	8.0	medium	F	16	12	1.5	15	3
30820.WPH15H8.1	8.1	medium	H	20	15	2	18	3
30820.WPH15H8.2	8.2	medium	H	20	15	2	18	3
30820.WPH15H8.3	8.3	medium	H	20	15	2	18	3
30820.WPH15H8.4	8.4	medium	H	20	15	2	18	3
30820.WPH15H8.5	8.5	medium	H	20	15	2	18	3
30820.WPH15H8.6	8.6	medium	H	20	15	2	18	3
30820.WPH15H8.7	8.7	medium	H	20	15	2	18	3
30820.WPH15H8.8	8.8	medium	H	20	15	2	18	3
30820.WPH15H8.9	8.9	medium	H	20	15	2	18	3
30820.WPH15H9.0	9.0	medium	H	20	15	2	18	3
30820.WPH15H9.1	9.1	medium	H	20	15	2	18	3
30820.WPH15H9.2	9.2	medium	H	20	15	2	18	3
30820.WPH15H9.3	9.3	medium	H	20	15	2	18	3
30820.WPH15H9.4	9.4	medium	H	20	15	2	18	3



Headed Drill Bushes - DIN 172A

medium



Order No.	i/d - d ₁	Length gen	Length letter	Length mm	d ₂	r ₁	d ₃	l ₂
30820.WPH15H9.5	9.5	medium	H	20	15	2	18	3
30820.WPH15H9.6	9.6	medium	H	20	15	2	18	3
30820.WPH15H9.7	9.7	medium	H	20	15	2	18	3
30820.WPH15H9.8	9.8	medium	H	20	15	2	18	3
30820.WPH15H9.9	9.9	medium	H	20	15	2	18	3
30820.WPH15H10.0	10.0	medium	H	20	15	2	18	3
30820.WPH18H10.1	10.1	medium	H	20	18	2	22	4
30820.WPH18H10.2	10.2	medium	H	20	18	2	22	4
30820.WPH18H10.3	10.3	medium	H	20	18	2	22	4
30820.WPH18H10.4	10.4	medium	H	20	18	2	22	4
30820.WPH18H10.5	10.5	medium	H	20	18	2	22	4
30820.WPH18H10.6	10.6	medium	H	20	18	2	22	4
30820.WPH18H10.7	10.7	medium	H	20	18	2	22	4
30820.WPH18H10.8	10.8	medium	H	20	18	2	22	4
30820.WPH18H10.9	10.9	medium	H	20	18	2	22	4
30820.WPH18H11.0	11.0	medium	H	20	18	2	22	4
30820.WPH18H11.1	11.1	medium	H	20	18	2	22	4
30820.WPH18H11.2	11.2	medium	H	20	18	2	22	4
30820.WPH18H11.3	11.3	medium	H	20	18	2	22	4
30820.WPH18H11.4	11.4	medium	H	20	18	2	22	4
30820.WPH18H11.5	11.5	medium	H	20	18	2	22	4
30820.WPH18H11.6	11.6	medium	H	20	18	2	22	4
30820.WPH18H11.7	11.7	medium	H	20	18	2	22	4
30820.WPH18H11.8	11.8	medium	H	20	18	2	22	4
30820.WPH18H11.9	11.9	medium	H	20	18	2	22	4
30820.WPH18H12.0	12.0	medium	H	20	18	2	22	4
30820.WPH22K12.1	12.1	medium	K	28	22	2	26	4
30820.WPH22K12.2	12.2	medium	K	28	22	2	26	4
30820.WPH22K12.3	12.3	medium	K	28	22	2	26	4
30820.WPH22K12.4	12.4	medium	K	28	22	2	26	4
30820.WPH22K12.5	12.5	medium	K	28	22	2	26	4
30820.WPH22K12.6	12.6	medium	K	28	22	2	26	4
30820.WPH22K12.7	12.7	medium	K	28	22	2	26	4
30820.WPH22K12.8	12.8	medium	K	28	22	2	26	4
30820.WPH22K12.9	12.9	medium	K	28	22	2	26	4
30820.WPH22K13.0	13.0	medium	K	28	22	2	26	4
30820.WPH22K13.1	13.1	medium	K	28	22	2	26	4
30820.WPH22K13.2	13.2	medium	K	28	22	2	26	4
30820.WPH22K13.3	13.3	medium	K	28	22	2	26	4
30820.WPH22K13.4	13.4	medium	K	28	22	2	26	4
30820.WPH22K13.5	13.5	medium	K	28	22	2	26	4
30820.WPH22K13.6	13.6	medium	K	28	22	2	26	4
30820.WPH22K13.7	13.7	medium	K	28	22	2	26	4
30820.WPH22K13.8	13.8	medium	K	28	22	2	26	4
30820.WPH22K13.9	13.9	medium	K	28	22	2	26	4
30820.WPH22K14.0	14.0	medium	K	28	22	2	26	4
30820.WPH22K14.1	14.1	medium	K	28	22	2	26	4
30820.WPH22K14.2	14.2	medium	K	28	22	2	26	4
30820.WPH22K14.3	14.3	medium	K	28	22	2	26	4
30820.WPH22K14.4	14.4	medium	K	28	22	2	26	4
30820.WPH22K14.5	14.5	medium	K	28	22	2	26	4
30820.WPH22K14.6	14.6	medium	K	28	22	2	26	4
30820.WPH22K14.7	14.7	medium	K	28	22	2	26	4
30820.WPH22K14.8	14.8	medium	K	28	22	2	26	4
30820.WPH22K14.9	14.9	medium	K	28	22	2	26	4
30820.WPH22K15.0	15.0	medium	K	28	22	2	26	4
30820.WPH26K15.5	15.5	medium	K	28	26	2	30	4
30820.WPH26K16.0	16.0	medium	K	28	26	2	30	4
30820.WPH26K16.5	16.5	medium	K	28	26	2	30	4
30820.WPH26K17.0	17.0	medium	K	28	26	2	30	4
30820.WPH26K17.5	17.5	medium	K	28	26	2	30	4
30820.WPH26K18.0	18.0	medium	K	28	26	2	30	4
30820.WPH30N18.5	18.5	medium	N	36	30	3	34	5
30820.WPH30N19.0	19.0	medium	N	36	30	3	34	5
30820.WPH30N19.5	19.5	medium	N	36	30	3	34	5
30820.WPH30N20.0	20.0	medium	N	36	30	3	34	5
30820.WPH30N20.5	20.5	medium	N	36	30	3	34	5
30820.WPH30N21.0	21.0	medium	N	36	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.WPH30N21.5	21.5	medium	N	36	30	3	34	5
30820.WPH30N22.0	22.0	medium	N	36	30	3	34	5
30820.WPH35N22.5	22.5	medium	N	36	35	3	39	5
30820.WPH35N23.0	23.0	medium	N	36	35	3	39	5
30820.WPH35N23.5	23.5	medium	N	36	35	3	39	5
30820.WPH35N24.0	24.0	medium	N	36	35	3	39	5
30820.WPH35N24.5	24.5	medium	N	36	35	3	39	5
30820.WPH35N25.0	25.0	medium	N	36	35	3	39	5
30820.WPH35N25.5	25.5	medium	N	36	35	3	39	5
30820.WPH35N26.0	26.0	medium	N	36	35	3	39	5
30820.WPH42R26.5	26.5	medium	R	45	42	3	46	5
30820.WPH42R27.0	27.0	medium	R	45	42	3	46	5
30820.WPH42R27.5	27.5	medium	R	45	42	3	46	5
30820.WPH42R28.0	28.0	medium	R	45	42	3	46	5
30820.WPH42R28.5	28.5	medium	R	45	42	3	46	5
30820.WPH42R29.0	29.0	medium	R	45	42	3	46	5
30820.WPH42R29.5	29.5	medium	R	45	42	3	46	5
30820.WPH42R30.0	30.0	medium	R	45	42	3	46	5
30820.WPH48R30.5	30.5	medium	R	45	48	3	52	5
30820.WPH48R31.0	31.0	medium	R	45	48	3	52	5
30820.WPH48R31.5	31.5	medium	R	45	48	3	52	5
30820.WPH48R32.0	32.0	medium	R	45	48	3	52	5
30820.WPH48R32.5	32.5	medium	R	45	48	3	52	5
30820.WPH48R33.0	33.0	medium	R	45	48	3	52	5
30820.WPH48R33.5	33.5	medium	R	45	48	3	52	5
30820.WPH48R34.0	34.0	medium	R	45	48	3	52	5
30820.WPH48R34.5	34.5	medium	R	45	48	3	52	5
30820.WPH48R35.0	35.0	medium	R	45	48	3	52	5
30820.WPH55S35.5	35.5	medium	S	56	55	3.5	59	5
30820.WPH55S36.5	36.5	medium	S	56	55	3.5	59	5
30820.WPH55S37.0	37.0	medium	S	56	55	3.5	59	5
30820.WPH55S37.5	37.5	medium	S	56	55	3.5	59	5
30820.WPH55S38.0	38.0	medium	S	56	55	3.5	59	5
30820.WPH55S38.5	38.5	medium	S	56	55	3.5	59	5
30820.WPH55S39.0	39.0	medium	S	56	55	3.5	59	5
30820.WPH55S39.5	39.5	medium	S	56	55	3.5	59	5
30820.WPH55S40.5	40.5	medium	S	56	55	3.5	59	5
30820.WPH55S41.5	41.5	medium	S	56	55	3.5	59	5
30820.WPH62S42.5	42.5	medium	S	56	62	3.5	66	6
30820.WPH62S43.0	43.0	medium	S	56	62	3.5	66	6
30820.WPH62S43.5	43.5	medium	S	56	62	3.5	66	6
30820.WPH62S44.0	44.0	medium	S	56	62	3.5	66	6
30820.WPH62S44.5	44.5	medium	S	56	62	3.5	66	6
30820.WPH62S45.0	45.0	medium	S	56	62	3.5	66	6
30820.WPH62S45.5	45.5	medium	S	56	62	3.5	66	6
30820.WPH62S46.0	46.0	medium	S	56	62	3.5	66	6
30820.WPH62S46.5	46.5	medium	S	56	62	3.5	66	6
30820.WPH62S47.0	47.0	medium	S	56	62	3.5	66	6
30820.WPH62S47.5	47.5	medium	S	56	62	3.5	66	6
30820.WPH62S48.0	48.0	medium	S	56	62	3.5	66	6
30820.WPH70S48.5	48.5	medium	S	56	70	3.5	74	6
30820.WPH70S49.0	49.0	medium	S	56	70	3.5	74	6
30820.WPH70S49.5	49.5	medium	S	56	70	3.5	74	6
30820.WPH70S50.0	50.0	medium	S	56	70	3.5	74	6
30820.WPH70S50.5	50.5	medium	S	56	70	3.5	74	6
30820.WPH70S51.0	51.0	medium	S	56	70	3.5	74	6
30820.WPH70S51.5	51.5	medium	S	56	70	3.5	74	6
30820.WPH70S52.0	52.0	medium	S	56	70	3.5	74	6
30820.WPH70S52.5	52.5	medium	S	56	70	3.5	74	6
30820.WPH70S53.0	53.0	medium	S	56	70	3.5	74	6
30820.WPH70S53.5	53.5	medium	S	56	70	3.5	74	6
30820.WPH70S54.0	54.0	medium	S	56	70	3.5	74	6
30820.WPH70S54.5	54.5	medium	S	56	70	3.5	74	6
30820.WPH70S55.0	55.0	medium	S	56	70	3.5	74	6
30820.WPH78T55.5	55.5	medium	T	67	78	4	82	6
30820.WPH78T56.0	56.0	medium	T	67	78	4	82	6
30820.WPH78T56.5	56.5	medium	T	67	78	4	82	6
30820.WPH78T57.0	57.0	medium	T	67	78	4	82	6



Headed Drill Bushes - DIN 172A medium

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.WPH78T57.5	57.5	medium	T	67	78	4	82	6
30820.WPH78T58.0	58.0	medium	T	67	78	4	82	6
30820.WPH78T58.5	58.5	medium	T	67	78	4	82	6
30820.WPH78T59.0	59.0	medium	T	67	78	4	82	6
30820.WPH78T59.5	59.5	medium	T	67	78	4	82	6
30820.WPH78T60.0	60.0	medium	T	67	78	4	82	6
30820.WPH78T60.5	60.5	medium	T	67	78	4	82	6
30820.WPH78T61.0	61.0	medium	T	67	78	4	82	6
30820.WPH78T61.5	61.5	medium	T	67	78	4	82	6
30820.WPH78T62.0	62.0	medium	T	67	78	4	82	6
30820.WPH78T62.5	62.5	medium	T	67	78	4	82	6
30820.WPH78T63.0	63.0	medium	T	67	78	4	82	6

TENONS, LOCATING PADS & DRILL BUSHES