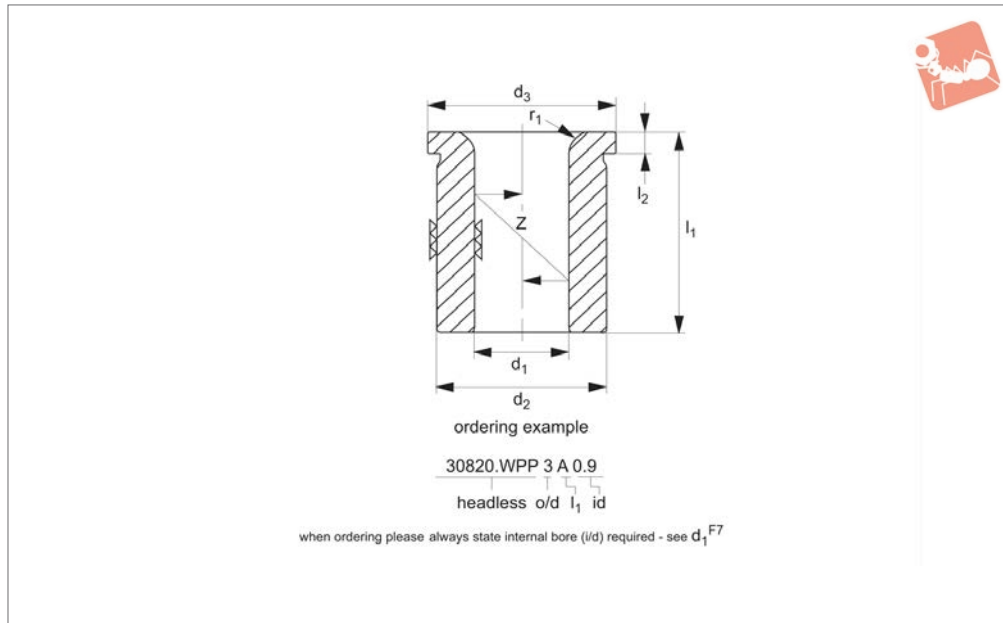




# Headed Drill Bushes - DIN 172A

long

## Tenons, Locating Pads & Drill



**30820.3**

TENONS, LOCATING PADS & DRILL BUSHES

### Material

High grade steel. Hardened 740 +HV10.  
Hole, d<sub>1</sub> ground ISO tolerance F7.  
o/d-d<sub>2</sub> ground ISO tolerance n6, to fit standard hole tolerance H<sub>7</sub>. Length l<sub>1</sub> to ±0,2 for lengths 6 to 30mm.

### Technical Notes

d<sub>1</sub> dimension tolerance to F7.

Key to dimensions l<sub>1</sub>:

- l<sub>1</sub> short
- l<sub>1</sub> medium
- l<sub>1</sub> long

Table of lengths l<sub>1</sub>:

- 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 d<sub>1</sub> <0,9 prices available on request.

### Important Notes

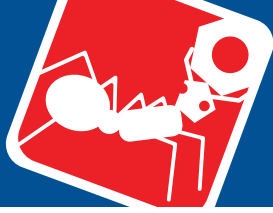
Drill bushes produced to standard DIN increments for internal bores:  
i/d's 0,9mm to 15,0mm - 0,1mm increments e.g. 1,1 mm, 1,2mm etc.  
i/d's 15,1mm and over -0,5mm increments.

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 <sub>1</sub>	Length gen	Length letter	Length mm	d <sub>2</sub>	r <sub>1</sub>	d <sub>3</sub>	l <sub>2</sub>
30820.WPH6F2.7	2.7	long	F	16	6	1	9	2.5
30820.WPH6F2.8	2.8	long	F	16	6	1	9	2.5
30820.WPH6F2.9	2.9	long	F	16	6	1	9	2.5
30820.WPH6F3.0	3.0	long	F	16	6	1	9	2.5
30820.WPH6F3.1	3.1	long	F	16	6	1	9	2.5
30820.WPH6F3.2	3.2	long	F	16	6	1	9	2.5
30820.WPH6F3.3	3.3	long	F	16	6	1	9	2.5
30820.WPH7F3.4	3.4	long	F	16	7	1	10	2.5
30820.WPH7F3.5	3.5	long	F	16	7	1	10	2.5
30820.WPH7F3.6	3.6	long	F	16	7	1	10	2.5
30820.WPH7F3.7	3.7	long	F	16	7	1	10	2.5
30820.WPH7F3.8	3.8	long	F	16	7	1	10	2.5
30820.WPH7F3.9	3.9	long	F	16	7	1	10	2.5
30820.WPH7F4.0	4.0	long	F	16	7	1	10	2.5
30820.WPH8F4.1	4.1	long	F	16	8	1	11	2.5
30820.WPH8F4.2	4.2	long	F	16	8	1	11	2.5
30820.WPH8F4.3	4.3	long	F	16	8	1	11	2.5
30820.WPH8F4.4	4.4	long	F	16	8	1	11	2.5



Order No.	i/d - d <sub>1</sub>	Length gen	Length letter	Length mm	d <sub>2</sub>	r <sub>1</sub>	d <sub>3</sub>	l <sub>2</sub>
30820.WPH8F4.5	4.5	long	F	16	8	1	11	2.5
30820.WPH8F4.6	4.6	long	F	16	8	1	11	2.5
30820.WPH8F4.7	4.7	long	F	16	8	1	11	2.5
30820.WPH8F4.8	4.8	long	F	16	8	1	11	2.5
30820.WPH8F4.9	4.9	long	F	16	8	1	11	2.5
30820.WPH8F5.0	5.0	long	F	16	8	1	11	2.5
30820.WPH10H5.1	5.1	long	H	20	10	1.5	13	3
30820.WPH10H5.2	5.2	long	H	20	10	1.5	13	3
30820.WPH10H5.3	5.3	long	H	20	10	1.5	13	3
30820.WPH10H5.4	5.4	long	H	20	10	1.5	13	3
30820.WPH10H5.5	5.5	long	H	20	10	1.5	13	3
30820.WPH10H5.6	5.6	long	H	20	10	1.5	13	3
30820.WPH10H5.7	5.7	long	H	20	10	1.5	13	3
30820.WPH10H5.8	5.8	long	H	20	10	1.5	13	3
30820.WPH10H5.9	5.9	long	H	20	10	1.5	13	3
30820.WPH10H6.0	6.0	long	H	20	10	1.5	13	3
30820.WPH12H6.1	6.1	long	H	20	12	1.5	15	3
30820.WPH12H6.2	6.2	long	H	20	12	1.5	15	3
30820.WPH12H6.3	6.3	long	H	20	12	1.5	15	3
30820.WPH12H6.4	6.4	long	H	20	12	1.5	15	3
30820.WPH12H6.5	6.5	long	H	20	12	1.5	15	3
30820.WPH12H6.6	6.6	long	H	20	12	1.5	15	3
30820.WPH12H6.7	6.7	long	H	20	12	1.5	15	3
30820.WPH12H6.8	6.8	long	H	20	12	1.5	15	3
30820.WPH12H6.9	6.9	long	H	20	12	1.5	15	3
30820.WPH12H7.0	7.0	long	H	20	12	1.5	15	3
30820.WPH12H7.1	7.1	long	H	20	12	1.5	15	3
30820.WPH12H7.2	7.2	long	H	20	12	1.5	15	3
30820.WPH12H7.3	7.3	long	H	20	12	1.5	15	3
30820.WPH12H7.4	7.4	long	H	20	12	1.5	15	3
30820.WPH12H7.5	7.5	long	H	20	12	1.5	15	3
30820.WPH12H7.6	7.6	long	H	20	12	1.5	15	3
30820.WPH12H7.7	7.7	long	H	20	12	1.5	15	3
30820.WPH12H7.8	7.8	long	H	20	12	1.5	15	3
30820.WPH12H7.9	7.9	long	H	20	12	1.5	15	3
30820.WPH12H8.0	8.0	long	H	20	12	1.5	15	3
30820.WPH15J8.1	8.1	long	J	25	15	2	18	3
30820.WPH15J8.2	8.2	long	J	25	15	2	18	3
30820.WPH15J8.3	8.3	long	J	25	15	2	18	3
30820.WPH15J8.4	8.4	long	J	25	15	2	18	3
30820.WPH15J8.5	8.5	long	J	25	15	2	18	3
30820.WPH15J8.6	8.6	long	J	25	15	2	18	3
30820.WPH15J8.7	8.7	long	J	25	15	2	18	3
30820.WPH15J8.8	8.8	long	J	25	15	2	18	3
30820.WPH15J8.9	8.9	long	J	25	15	2	18	3
30820.WPH15J9.0	9.0	long	J	25	15	2	18	3
30820.WPH15J9.1	9.1	long	J	25	15	2	18	3
30820.WPH15J9.2	9.2	long	J	25	15	2	18	3
30820.WPH15J9.3	9.3	long	J	25	15	2	18	3
30820.WPH15J9.4	9.4	long	J	25	15	2	18	3
30820.WPH15J9.5	9.5	long	J	25	15	2	18	3
30820.WPH15J9.6	9.6	long	J	25	15	2	18	3
30820.WPH15J9.7	9.7	long	J	25	15	2	18	3
30820.WPH15J9.8	9.8	long	J	25	15	2	18	3
30820.WPH15J9.9	9.9	long	J	25	15	2	18	3
30820.WPH15J10.0	10.0	long	J	25	15	2	18	3
30820.WPH18J10.1	10.1	long	J	25	18	2	22	4
30820.WPH18J10.2	10.2	long	J	25	18	2	22	4
30820.WPH18J10.3	10.3	long	J	25	18	2	22	4
30820.WPH18J10.4	10.4	long	J	25	18	2	22	4
30820.WPH18J10.5	10.5	long	J	25	18	2	22	4
30820.WPH18J10.6	10.6	long	J	25	18	2	22	4
30820.WPH18J10.7	10.7	long	J	25	18	2	22	4
30820.WPH18J10.8	10.8	long	J	25	18	2	22	4
30820.WPH18J10.9	10.9	long	J	25	18	2	22	4
30820.WPH18J11.0	11.0	long	J	25	18	2	22	4
30820.WPH18J11.1	11.1	long	J	25	18	2	22	4
30820.WPH18J11.2	11.2	long	J	25	18	2	22	4



# Headed Drill Bushes - DIN 172A

long

Tenons, Locating Pads & Drill



Order No.	i/d - d <sub>1</sub>	Length gen	Length letter	Length mm	d <sub>2</sub>	r <sub>1</sub>	d <sub>3</sub>	l <sub>2</sub>
30820.WPH18J11.3	11.3	long	J	25	18	2	22	4
30820.WPH18J11.4	11.4	long	J	25	18	2	22	4
30820.WPH18J11.5	11.5	long	J	25	18	2	22	4
30820.WPH18J11.6	11.6	long	J	25	18	2	22	4
30820.WPH18J11.7	11.7	long	J	25	18	2	22	4
30820.WPH18J11.8	11.8	long	J	25	18	2	22	4
30820.WPH18J11.9	11.9	long	J	25	18	2	22	4
30820.WPH18J12.0	12.0	long	J	25	18	2	22	4
30820.WPH22N12.1	12.1	long	N	36	22	2	26	4
30820.WPH22N12.2	12.2	long	N	36	22	2	26	4
30820.WPH22N12.3	12.3	long	N	36	22	2	26	4
30820.WPH22N12.4	12.4	long	N	36	22	2	26	4
30820.WPH22N12.5	12.5	long	N	36	22	2	26	4
30820.WPH22N12.6	12.6	long	N	36	22	2	26	4
30820.WPH22N12.7	12.7	long	N	36	22	2	26	4
30820.WPH22N12.8	12.8	long	N	36	22	2	26	4
30820.WPH22N12.9	12.9	long	N	36	22	2	26	4
30820.WPH22N13.0	13.0	long	N	36	22	2	26	4
30820.WPH22N13.1	13.1	long	N	36	22	2	26	4
30820.WPH22N13.2	13.2	long	N	36	22	2	26	4
30820.WPH22N13.3	13.3	long	N	36	22	2	26	4
30820.WPH22N13.4	13.4	long	N	36	22	2	26	4
30820.WPH22N13.5	13.5	long	N	36	22	2	26	4
30820.WPH22N13.6	13.6	long	N	36	22	2	26	4
30820.WPH22N13.7	13.7	long	N	36	22	2	26	4
30820.WPH22N13.8	13.8	long	N	36	22	2	26	4
30820.WPH22N13.9	13.9	long	N	36	22	2	26	4
30820.WPH22N14.0	14.0	long	N	36	22	2	26	4
30820.WPH22N14.1	14.1	long	N	36	22	2	26	4
30820.WPH22N14.2	14.2	long	N	36	22	2	26	4
30820.WPH22N14.3	14.3	long	N	36	22	2	26	4
30820.WPH22N14.4	14.4	long	N	36	22	2	26	4
30820.WPH22N14.5	14.5	long	N	36	22	2	26	4
30820.WPH22N14.6	14.6	long	N	36	22	2	26	4
30820.WPH22N14.7	14.7	long	N	36	22	2	26	4
30820.WPH22N14.8	14.8	long	N	36	22	2	26	4
30820.WPH22N14.9	14.9	long	N	36	22	2	26	4
30820.WPH22N15.0	15.0	long	N	36	22	2	26	4
30820.WPH26N15.5	15.5	long	N	36	26	2	30	4
30820.WPH26N16.0	16.0	long	N	36	26	2	30	4
30820.WPH26N16.5	16.5	long	N	36	26	2	30	4
30820.WPH26N17.0	17.0	long	N	36	26	2	30	4
30820.WPH26N17.5	17.5	long	N	36	26	2	30	4
30820.WPH26N18.0	18.0	long	N	36	26	2	30	4
30820.WPH30R18.5	18.5	long	R	45	30	3	34	5
30820.WPH30R19.0	19.0	long	R	45	30	3	34	5
30820.WPH30R19.5	19.5	long	R	45	30	3	34	5
30820.WPH30R20.0	20.0	long	R	45	30	3	34	5
30820.WPH30R20.5	20.5	long	R	45	30	3	34	5
30820.WPH30R21.0	21.0	long	R	45	30	3	34	5
30820.WPH30R21.5	21.5	long	R	45	30	3	34	5
30820.WPH30R22.0	22.0	long	R	45	30	3	34	5
30820.WPH35R22.5	22.5	long	R	45	35	3	39	5
30820.WPH35R23.0	23.0	long	R	45	35	3	39	5
30820.WPH35R23.5	23.5	long	R	45	35	3	39	5
30820.WPH35R24.0	24.0	long	R	45	35	3	39	5
30820.WPH35R24.5	24.5	long	R	45	35	3	39	5
30820.WPH35R25.0	25.0	long	R	45	35	3	39	5
30820.WPH35R25.5	25.5	long	R	45	35	3	39	5
30820.WPH35R26.0	26.0	long	R	45	35	3	39	5
30820.WPH42S26.5	26.5	long	S	56	42	3	46	5
30820.WPH42S27.0	27.0	long	S	56	42	3	46	5
30820.WPH42S27.5	27.5	long	S	56	42	3	46	5
30820.WPH42S28.0	28.0	long	S	56	42	3	46	5
30820.WPH42S28.5	28.5	long	S	56	42	3	46	5
30820.WPH42S29.0	29.0	long	S	56	42	3	46	5
30820.WPH42S29.5	29.5	long	S	56	42	3	46	5
30820.WPH42S30.0	30.0	long	S	56	42	3	46	5

TENONS, LOCATING PADS & DRILL BUSHES



Order No.	i/d - d <sub>1</sub>	Length gen	Length letter	Length mm	d <sub>2</sub>	r <sub>1</sub>	d <sub>3</sub>	l <sub>2</sub>
30820.WPH48S30.5	30.5	long	S	56	48	3	52	5
30820.WPH48S31.0	31.0	long	S	56	48	3	52	5
30820.WPH48S31.5	31.5	long	S	56	48	3	52	5
30820.WPH48S32.0	32.0	long	S	56	48	3	52	5
30820.WPH48S32.5	32.5	long	S	56	48	3	52	5
30820.WPH48S33.0	33.0	long	S	56	48	3	52	5
30820.WPH48S33.5	33.5	long	S	56	48	3	52	5
30820.WPH48S34.0	34.0	long	S	56	48	3	52	5
30820.WPH48S34.5	34.5	long	S	56	48	3	52	5
30820.WPH48S35.0	35.0	long	S	56	48	3	52	5
30820.WPH55T35.5	35.5	long	T	67	55	3.5	59	5
30820.WPH55T36.0	36.0	long	T	67	55	3.5	59	5
30820.WPH55T36.5	36.5	long	T	67	55	3.5	59	5
30820.WPH55T37.0	37.0	long	T	67	55	3.5	59	5
30820.WPH55T37.5	37.5	long	T	67	55	3.5	59	5
30820.WPH55T38.0	38.0	long	T	67	55	3.5	59	5
30820.WPH55T38.5	38.5	long	T	67	55	3.5	59	5
30820.WPH55T39.0	39.0	long	T	67	55	3.5	59	5
30820.WPH55T39.5	39.5	long	T	67	55	3.5	59	5
30820.WPH55T40.0	40.0	long	T	67	55	3.5	59	5
30820.WPH55T40.5	40.5	long	T	67	55	3.5	59	5
30820.WPH55T41.5	41.5	long	T	67	55	3.5	59	5
30820.WPH55T42.0	42.0	long	T	67	55	3.5	59	5
30820.WPH62T42.5	42.5	long	T	67	62	3.5	66	6
30820.WPH62T43.0	43.0	long	T	67	62	3.5	66	6
30820.WPH62T43.5	43.5	long	T	67	62	3.5	66	6
30820.WPH62T44.0	44.0	long	T	67	62	3.5	66	6
30820.WPH62T44.5	44.5	long	T	67	62	3.5	66	6
30820.WPH62T45.0	45.0	long	T	67	62	3.5	66	6
30820.WPH62T45.5	45.5	long	T	67	62	3.5	66	6
30820.WPH62T46.0	46.0	long	T	67	62	3.5	66	6
30820.WPH62T46.5	46.5	long	T	67	62	3.5	66	6
30820.WPH62T47.0	47.0	long	T	67	62	3.5	66	6
30820.WPH62T47.5	47.5	long	T	67	62	3.5	66	6
30820.WPH62T48.0	48.0	long	T	67	62	3.5	66	6
30820.WPH70T48.5	48.5	long	T	67	70	3.5	74	6
30820.WPH70T49.0	49.0	long	T	67	70	3.5	74	6
30820.WPH70T49.5	49.5	long	T	67	70	3.5	74	6
30820.WPH70T50.0	50.0	long	T	67	70	3.5	74	6
30820.WPH70T50.5	50.5	long	T	67	70	3.5	74	6
30820.WPH70T51.0	51.0	long	T	67	70	3.5	74	6
30820.WPH70T51.5	51.5	long	T	67	70	3.5	74	6
30820.WPH70T52.0	52.0	long	T	67	70	3.5	74	6
30820.WPH70T52.5	52.5	long	T	67	70	3.5	74	6
30820.WPH70T53.0	53.0	long	T	67	70	3.5	74	6
30820.WPH70T53.5	53.5	long	T	67	70	3.5	74	6
30820.WPH70T54.0	54.0	long	T	67	70	3.5	74	6
30820.WPH70T54.5	54.5	long	T	67	70	3.5	74	6
30820.WPH70T55.0	55.0	long	T	67	70	3.5	74	6
30820.WPH78W55.5	55.5	long	W	78	78	4	82	6
30820.WPH78W56.0	56.0	long	W	78	78	4	82	6
30820.WPH78W56.5	56.5	long	W	78	78	4	82	6
30820.WPH78W57.0	57.0	long	W	78	78	4	82	6
30820.WPH78W57.5	57.5	long	W	78	78	4	82	6
30820.WPH78W58.0	58.0	long	W	78	78	4	82	6
30820.WPH78W58.5	58.5	long	W	78	78	4	82	6
30820.WPH78W59.0	59.0	long	W	78	78	4	82	6
30820.WPH78W59.5	59.5	long	W	78	78	4	82	6
30820.WPH78W60.0	60.0	long	W	78	78	4	82	6
30820.WPH78W60.5	60.5	long	W	78	78	4	82	6
30820.WPH78W61.0	61.0	long	W	78	78	4	82	6
30820.WPH78W61.5	61.5	long	W	78	78	4	82	6
30820.WPH78W62.0	62.0	long	W	78	78	4	82	6
30820.WPH78W62.5	62.5	long	W	78	78	4	82	6
30820.WPH78W63.0	63.0	long	W	78	78	4	82	6