

**T<sub>aper</sub>  
B<sub>ore</sub>**

***Timing pulley***

***BTL***

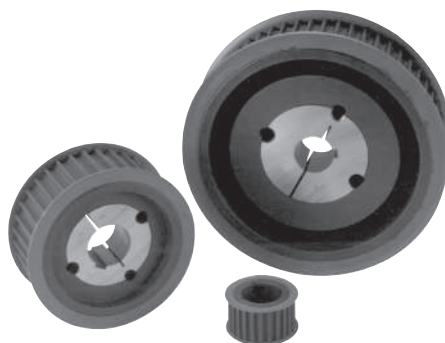
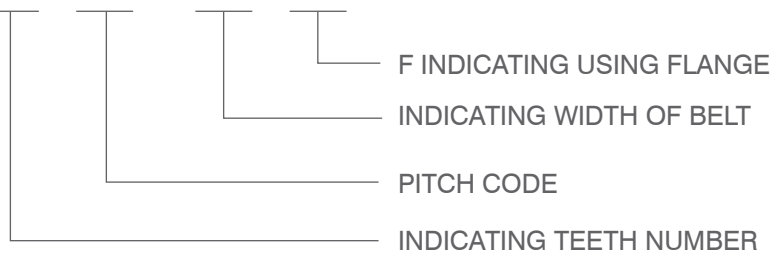
***L - H - XH***

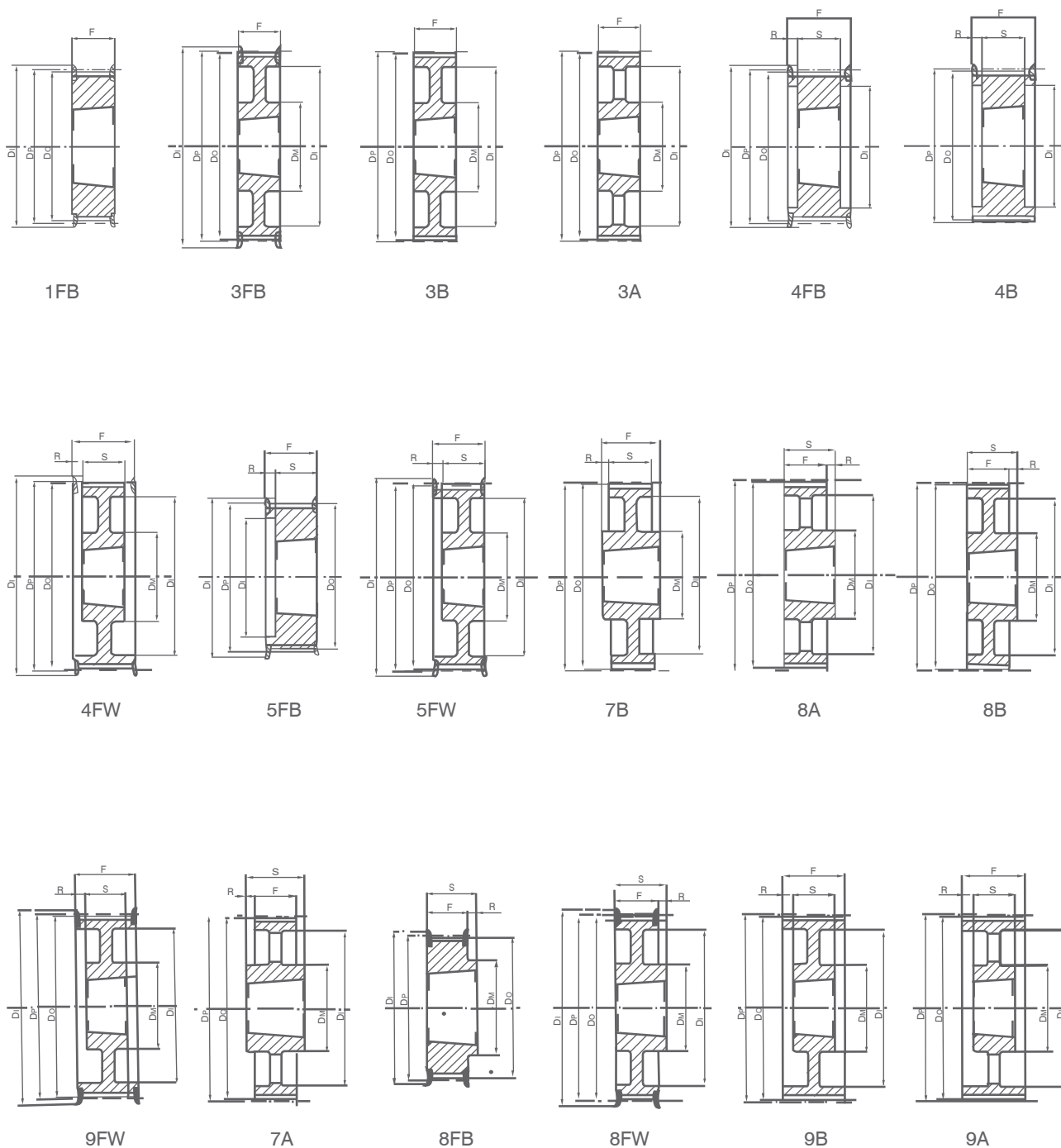
***8M - 14M***

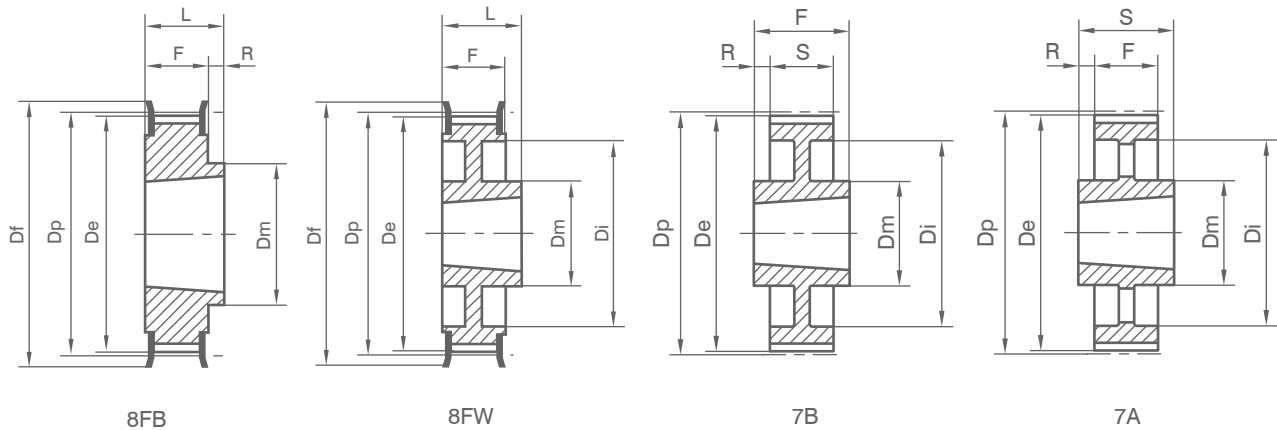


SPECIFICATION AND TYPE FOR TIMING BELT PULLEY  
EXAMPLE:

**40 XH 300 F**







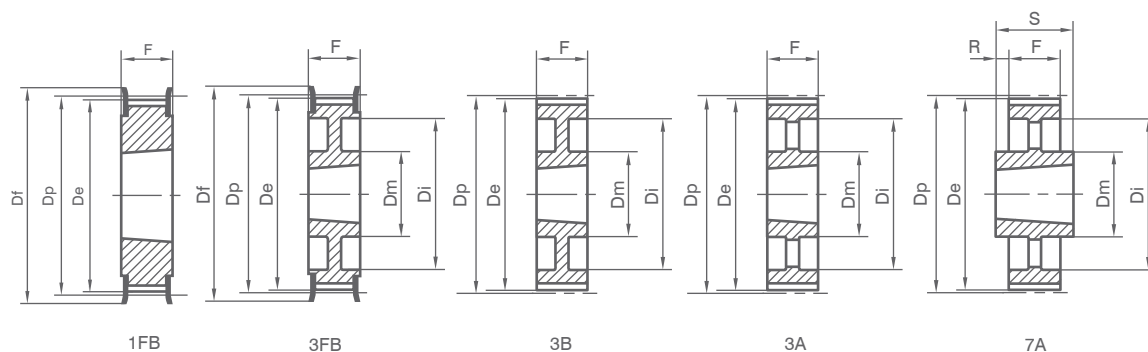
## L050 3/8"(9.525mm)

| SPCFCTN    | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F    | S    | R   |
|------------|------|------|-----|--------|--------|-----|-----|-----|------|------|-----|
| TB18L050F  | 8FB  | 1108 | 18  | 54.57  | 53.81  | 60  | 44  | —   | 19.0 | 22.0 | 3   |
| TB19L050F  | 8FB  | 1108 | 19  | 57.61  | 56.84  | 63  | 44  | —   | 19.0 | 22.0 | 3   |
| TB20L050F  | 8FB  | 1108 | 20  | 60.64  | 59.88  | 67  | 48  | —   | 19.0 | 22.0 | 3   |
| TB21L050F  | 8FB  | 1108 | 21  | 63.67  | 62.91  | 70  | 48  | —   | 19.0 | 22.0 | 3   |
| TB22L050F  | 8FB  | 1108 | 22  | 66.70  | 65.94  | 75  | 51  | —   | 19.0 | 22.0 | 3   |
| TB23L050F  | 8FB  | 1108 | 23  | 69.73  | 68.97  | 79  | 54  | —   | 19.0 | 22.0 | 3   |
| TB24L050F  | 8FB  | 1108 | 24  | 72.77  | 72.00  | 79  | 54  | —   | 19.0 | 22.0 | 3   |
| TB25L050F  | 8FB  | 1108 | 25  | 75.80  | 75.04  | 83  | 56  | —   | 19.0 | 22.0 | 3   |
| TB26L050F  | 8FB  | 1108 | 26  | 78.83  | 78.07  | 87  | 60  | —   | 19.0 | 22.0 | 3   |
| TB27L050F  | 8FB  | 1108 | 27  | 81.86  | 81.10  | 91  | 62  | —   | 19.0 | 22.0 | 3   |
| TB28L050F  | 8FB  | 1108 | 28  | 84.89  | 84.13  | 91  | 65  | —   | 19.0 | 22.0 | 3   |
| TB30L050F  | 8FB  | 1108 | 30  | 90.96  | 90.20  | 97  | 70  | —   | 19.0 | 22.0 | 3   |
| TB32L050F  | 8FB  | 1108 | 32  | 97.02  | 96.26  | 102 | 74  | —   | 19.0 | 22.0 | 3   |
| TB36L050F  | 8FB  | 1108 | 36  | 109.15 | 108.39 | 120 | 85  | —   | 19.0 | 22.0 | 3   |
| TB40L050F  | 8FB  | 1610 | 40  | 121.28 | 120.51 | 128 | 97  | —   | 19.0 | 25.0 | 6   |
| TB48L050F  | 8FW  | 1610 | 48  | 145.53 | 144.77 | 150 | 88  | 120 | 19.0 | 25.0 | 6   |
| TB60L050F  | 7B   | 1610 | 60  | 181.91 | 181.15 | —   | 92  | 166 | 19.0 | 25.0 | 3   |
| TB72L050F  | 7A   | 1610 | 72  | 218.30 | 217.53 | —   | 92  | 202 | 19.0 | 25.0 | 3   |
| TB84L050F  | 7A   | 1610 | 84  | 254.68 | 253.90 | —   | 92  | 236 | 19.0 | 25.0 | 3   |
| TB96L050F  | 7A   | 2012 | 96  | 291.06 | 290.30 | —   | 106 | 270 | 19.0 | 32.0 | 6.5 |
| TB120L050F | 7A   | 2012 | 120 | 363.83 | 363.07 | —   | 106 | 343 | 19.0 | 32.0 | 6.5 |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 10          | 11 | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 |
| 1108    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |    |    |    |    |
| 1210    |             | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |
| 1610    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |
| 2012    |             |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway



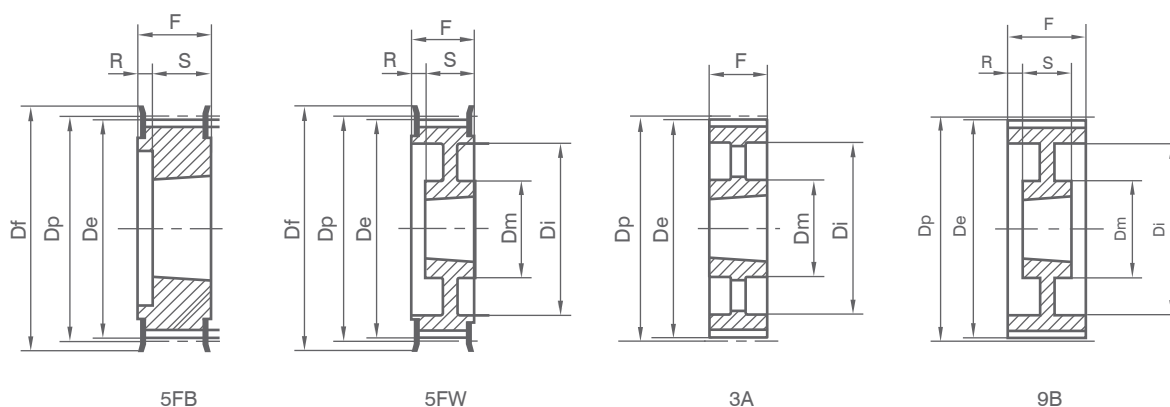
## L075 3/8"(9.525mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F    | S    | R   |
|-----------|------|------|-----|--------|--------|-----|-----|-----|------|------|-----|
| TB18L075F | 1FB  | 1108 | 18  | 54.57  | 53.81  | 60  | —   | —   | 25.0 | 25.0 | —   |
| TB19L075F | 1FB  | 1108 | 19  | 57.61  | 56.84  | 63  | —   | —   | 25.0 | 25.0 | —   |
| TB20L075F | 1FB  | 1108 | 20  | 60.64  | 59.88  | 67  | —   | —   | 25.0 | 25.0 | —   |
| TB21L075F | 1FB  | 1108 | 21  | 63.67  | 62.91  | 70  | —   | —   | 25.0 | 25.0 | —   |
| TB22L075F | 1FB  | 1108 | 22  | 66.70  | 65.94  | 75  | —   | —   | 25.0 | 25.0 | —   |
| TB23L075F | 1FB  | 1108 | 23  | 69.73  | 68.97  | 79  | —   | —   | 25.0 | 25.0 | —   |
| TB24L075F | 1FB  | 1108 | 24  | 72.77  | 72.00  | 79  | —   | —   | 25.0 | 25.0 | —   |
| TB25L075F | 1FB  | 1108 | 25  | 75.80  | 75.04  | 83  | —   | —   | 25.0 | 25.0 | —   |
| TB26L075F | 1FB  | 1108 | 26  | 78.83  | 78.07  | 87  | —   | —   | 25.0 | 25.0 | —   |
| TB27L075F | 1FB  | 1108 | 27  | 81.86  | 81.10  | 91  | —   | —   | 25.0 | 25.0 | —   |
| TB28L075F | 1FB  | 1108 | 28  | 84.89  | 84.13  | 91  | —   | —   | 25.0 | 25.0 | —   |
| TB30L075F | 1FB  | 1108 | 30  | 90.96  | 90.20  | 97  | —   | —   | 25.0 | 25.0 | —   |
| TB32L075F | 1FB  | 1108 | 32  | 97.02  | 96.26  | 102 | —   | —   | 25.0 | 25.0 | —   |
| TB36L075F | 1FB  | 1610 | 36  | 109.15 | 108.39 | 120 | —   | —   | 25.0 | 25.0 | —   |
| TB40L075F | 1FB  | 1610 | 40  | 121.28 | 120.51 | 128 | —   | —   | 25.0 | 25.0 | —   |
| TB48L075F | 3FB  | 1610 | 48  | 145.53 | 144.77 | 150 | 92  | 125 | 25.0 | 25.0 | —   |
| TB60L075  | 3B   | 1610 | 60  | 181.91 | 181.15 | —   | 92  | 166 | 25.0 | 25.0 | —   |
| TB72L075  | 3A   | 1610 | 72  | 218.30 | 217.53 | —   | 92  | 202 | 25.0 | 25.0 | —   |
| TB84L075  | 7A   | 2012 | 84  | 254.68 | 253.90 | —   | 106 | 236 | 25.0 | 32.0 | 3.5 |
| TB96L075  | 7A   | 2012 | 96  | 291.06 | 290.30 | —   | 106 | 270 | 25.0 | 32.0 | 3.5 |
| TB120L075 | 7A   | 2012 | 120 | 363.83 | 363.07 | —   | 106 | 343 | 25.0 | 32.0 | 3.5 |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 10          | 11 | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 |
| 1108    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |    |    |    |    |    |    |
| 1210    |             | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| 1610    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |
| 2012    |             |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway



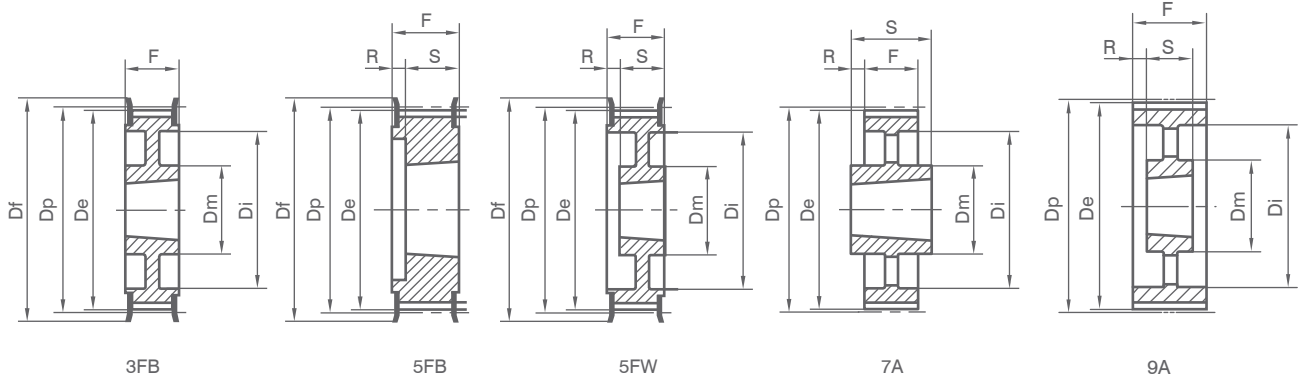
## L100 3/8"(9.525mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F    | S    | R    |
|-----------|------|------|-----|--------|--------|-----|-----|-----|------|------|------|
| TB18L100F | 5FB  | 1108 | 18  | 54.57  | 53.81  | 60  | —   | 38  | 32.0 | 22.0 | 10.0 |
| TB19L100F | 5FB  | 1108 | 19  | 57.61  | 56.84  | 63  | —   | 38  | 32.0 | 22.0 | 10.0 |
| TB20L100F | 5FB  | 1108 | 20  | 60.64  | 59.88  | 67  | —   | 45  | 32.0 | 22.0 | 10.0 |
| TB21L100F | 5FB  | 1108 | 21  | 63.67  | 62.91  | 70  | —   | 45  | 32.0 | 22.0 | 10.0 |
| TB22L100F | 5FB  | 1108 | 22  | 66.70  | 65.94  | 75  | —   | 48  | 32.0 | 22.0 | 10.0 |
| TB23L100F | 5FB  | 1108 | 23  | 69.73  | 68.97  | 79  | —   | 52  | 32.0 | 22.0 | 10.0 |
| TB24L100F | 5FB  | 1108 | 24  | 72.77  | 72.00  | 79  | —   | 52  | 32.0 | 22.0 | 10.0 |
| TB25L100F | 5FB  | 1108 | 25  | 75.80  | 75.04  | 83  | —   | 54  | 32.0 | 22.0 | 10.0 |
| TB26L100F | 5FB  | 1108 | 26  | 78.83  | 78.07  | 87  | —   | 60  | 32.0 | 22.0 | 10.0 |
| TB27L100F | 5FB  | 1108 | 27  | 81.86  | 81.10  | 91  | —   | 60  | 32.0 | 22.0 | 10.0 |
| TB28L100F | 5FB  | 1108 | 28  | 84.89  | 84.13  | 91  | —   | 65  | 32.0 | 22.0 | 10.0 |
| TB30L100F | 5FB  | 1210 | 30  | 90.96  | 90.20  | 97  | —   | 71  | 32.0 | 25.0 | 7.0  |
| TB32L100F | 5FB  | 1210 | 32  | 97.02  | 96.26  | 102 | —   | 75  | 32.0 | 25.0 | 7.0  |
| TB36L100F | 5FB  | 1610 | 36  | 109.15 | 108.39 | 120 | —   | 86  | 32.0 | 25.0 | 7.0  |
| TB40L100F | 5FB  | 1610 | 40  | 121.28 | 120.51 | 128 | —   | 96  | 32.0 | 25.0 | 7.0  |
| TB48L100F | 5FW  | 1610 | 48  | 145.53 | 144.77 | 150 | 92  | 120 | 32.0 | 25.0 | 7.0  |
| TB60L100  | 9B   | 1610 | 60  | 181.91 | 181.15 | —   | 92  | 166 | 32.0 | 25.0 | 3.5  |
| TB72L100  | 3A   | 2012 | 72  | 218.30 | 217.53 | —   | 106 | 202 | 32.0 | 32.0 | —    |
| TB84L100  | 3A   | 2012 | 84  | 254.68 | 253.90 | —   | 106 | 236 | 32.0 | 32.0 | —    |
| TB96L100  | 3A   | 2012 | 96  | 291.06 | 290.30 | —   | 106 | 270 | 32.0 | 32.0 | —    |
| TB120L100 | 3A   | 2012 | 120 | 363.83 | 363.07 | —   | 106 | 343 | 32.0 | 32.0 | —    |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 10          | 11 | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 |
| 1108    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |    |    |    |    |    |    |
| 1210    |             | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| 1610    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |
| 2012    |             |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway



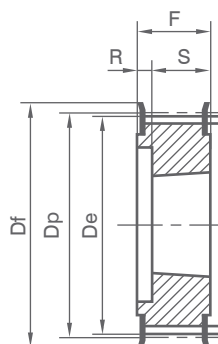
## H100 1/2"(12.70mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di   | F    | S    | R   |
|-----------|------|------|-----|--------|--------|-----|-----|------|------|------|-----|
| TB16H100  | 5FB  | 1108 | 16  | 64.68  | 63.31  | 70  | —   | 45   | 32.0 | 22.0 | 9   |
| TB18H100F | 5FB  | 1210 | 18  | 72.77  | 71.39  | 79  | —   | 52   | 32.0 | 25.0 | 7.0 |
| TB19H100F | 5FB  | 1210 | 19  | 76.81  | 75.44  | 83  | —   | 56   | 32.0 | 25.0 | 7.0 |
| TB20H100F | 5FB  | 1210 | 20  | 80.55  | 79.48  | 87  | —   | 60   | 32.0 | 25.0 | 7.0 |
| TB21H100F | 5FB  | 1210 | 21  | 84.89  | 83.52  | 91  | —   | 64   | 32.0 | 25.0 | 7.0 |
| TB22H100F | 5FB  | 1210 | 22  | 88.94  | 87.56  | 94  | —   | 67   | 32.0 | 25.0 | 7.0 |
| TB23H100F | 5FB  | 1610 | 23  | 92.98  | 91.61  | 102 | —   | 70   | 32.0 | 25.0 | 7.0 |
| TB24H100F | 5FB  | 1610 | 24  | 97.02  | 95.65  | 102 | —   | 73.5 | 32.0 | 25.0 | 7.0 |
| TB25H100F | 5FB  | 1610 | 25  | 101.06 | 99.69  | 112 | —   | 77   | 32.0 | 25.0 | 7.0 |
| TB26H100F | 5FB  | 1610 | 26  | 105.11 | 103.73 | 112 | —   | 82   | 32.0 | 25.0 | 7.0 |
| TB27H100F | 5FB  | 1610 | 27  | 109.05 | 107.78 | 120 | —   | 85   | 32.0 | 25.0 | 7.0 |
| TB28H100F | 5FB  | 1610 | 28  | 113.19 | 111.82 | 120 | —   | 90.5 | 32.0 | 25.0 | 7.0 |
| TB30H100F | 5FB  | 1610 | 30  | 121.28 | 119.90 | 128 | —   | 98   | 32.0 | 25.0 | 7.0 |
| TB32H100F | 5FW  | 1610 | 32  | 129.36 | 127.99 | 135 | 90  | 106  | 32.0 | 25.0 | 7.0 |
| TB36H100F | 5FW  | 1610 | 36  | 145.53 | 144.16 | 158 | 92  | 121  | 32.0 | 25.0 | 7.0 |
| TB40H100F | 5FW  | 1610 | 40  | 161.70 | 160.33 | 168 | 92  | 138  | 32.0 | 25.0 | 7.0 |
| TB44H100F | 3FB  | 2012 | 44  | 177.87 | 176.50 | 184 | 106 | 152  | 32.0 | 32.0 | —   |
| TB48H100F | 3FB  | 2012 | 48  | 194.04 | 192.67 | 200 | 106 | 169  | 32.0 | 32.0 | —   |
| TB60H100  | 9A   | 2012 | 60  | 242.55 | 241.18 | —   | 106 | 223  | 34.0 | 32.0 | 1.0 |
| TB72H100  | 9A   | 2012 | 72  | 291.06 | 289.69 | —   | 106 | 270  | 34.0 | 32.0 | 1.0 |
| TB84H100  | 9A   | 2012 | 84  | 339.57 | 338.20 | —   | 106 | 318  | 34.0 | 32.0 | 1.0 |
| TB96H100  | 7A   | 2517 | 96  | 388.08 | 386.71 | —   | 119 | 366  | 34.0 | 45.0 | 5.5 |
| TB120H100 | 7A   | 2517 | 120 | 485.10 | 483.73 | —   | 119 | 462  | 34.0 | 45.0 | 5.5 |

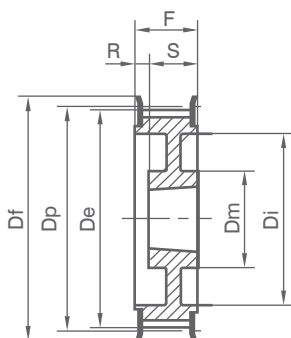
### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 11          | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 |
| 1210    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| 1610    |             |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |
| 2012    |             |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 2517    |             |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

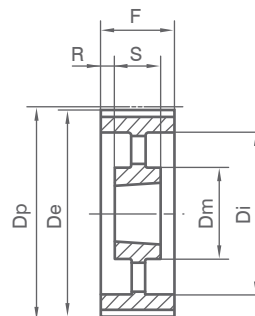
△ shallow keyway



5FB



5FW



9A

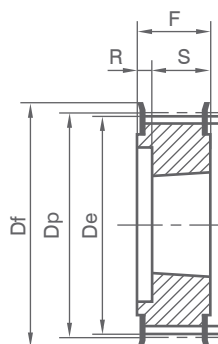
## H150 1/2"(12.70mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di   | F    | S    | R    |
|-----------|------|------|-----|--------|--------|-----|-----|------|------|------|------|
| TB18H150F | 5FB  | 1210 | 18  | 72.77  | 71.39  | 79  | —   | 52   | 45.0 | 25.0 | 20.0 |
| TB19H150F | 5FB  | 1210 | 19  | 76.81  | 75.44  | 83  | —   | 56   | 45.0 | 25.0 | 20.0 |
| TB20H150F | 5FB  | 1210 | 20  | 80.55  | 79.48  | 87  | —   | 60   | 45.0 | 25.0 | 20.0 |
| TB21H150F | 5FB  | 1210 | 21  | 84.89  | 83.52  | 91  | —   | 64   | 45.0 | 25.0 | 20.0 |
| TB22H150F | 5FB  | 1210 | 22  | 88.94  | 87.56  | 94  | —   | 67   | 45.0 | 25.0 | 20.0 |
| TB23H150F | 5FB  | 1610 | 23  | 92.98  | 91.61  | 102 | —   | 70   | 45.0 | 25.0 | 20.0 |
| TB24H150F | 5FB  | 1610 | 24  | 97.02  | 95.65  | 102 | —   | 73.5 | 45.0 | 25.0 | 20.0 |
| TB25H150F | 5FB  | 1610 | 25  | 101.06 | 99.69  | 112 | —   | 77   | 45.0 | 25.0 | 20.0 |
| TB26H150F | 5FB  | 1610 | 26  | 105.11 | 103.73 | 112 | —   | 82   | 45.0 | 25.0 | 20.0 |
| TB27H150F | 5FB  | 1610 | 27  | 109.15 | 107.78 | 120 | —   | 85   | 45.0 | 25.0 | 20.0 |
| TB28H150F | 5FB  | 1610 | 28  | 113.19 | 111.82 | 120 | —   | 90.5 | 45.0 | 25.0 | 20.0 |
| TB30H150F | 5FB  | 1610 | 30  | 121.28 | 119.90 | 128 | —   | 98   | 45.0 | 25.0 | 20.0 |
| TB32H150F | 5FW  | 1610 | 32  | 129.36 | 127.99 | 135 | 90  | 106  | 45.0 | 25.0 | 20.0 |
| TB36H150F | 5FW  | 1610 | 36  | 145.53 | 144.16 | 158 | 92  | 121  | 45.0 | 25.0 | 20.0 |
| TB40H150F | 5FW  | 1610 | 40  | 161.70 | 160.33 | 168 | 92  | 138  | 45.0 | 25.0 | 20.0 |
| TB44H150F | 5FW  | 2012 | 44  | 177.87 | 176.50 | 184 | 106 | 152  | 45.0 | 32.0 | 13.0 |
| TB48H150F | 5FW  | 2012 | 48  | 194.04 | 192.67 | 200 | 106 | 169  | 45.0 | 32.0 | 13.0 |
| TB60H150  | 9A   | 2012 | 60  | 242.55 | 241.18 | —   | 106 | 223  | 46.0 | 32.0 | 7    |
| TB72H150  | 9A   | 2012 | 72  | 291.06 | 289.69 | —   | 106 | 270  | 46.0 | 32.0 | 7    |
| TB84H150  | 9A   | 2012 | 84  | 339.57 | 338.20 | —   | 106 | 320  | 46.0 | 32.0 | 7    |
| TB96H150  | 9A   | 2517 | 96  | 388.08 | 386.71 | —   | 119 | 366  | 46.0 | 45.0 | 0.5  |
| TB120H150 | 9A   | 2517 | 120 | 485.1  | 483.73 | —   | 119 | 462  | 46.0 | 45.0 | 0.5  |

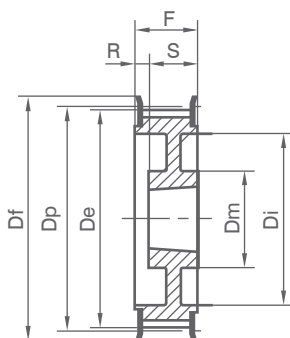
### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 11          | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 |
| 1210    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| 1610    |             |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |
| 2012    |             |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 2517    |             |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

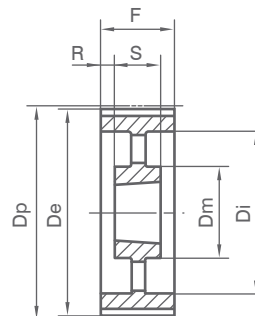
△ shallow keyway



5FB



5FW



9A

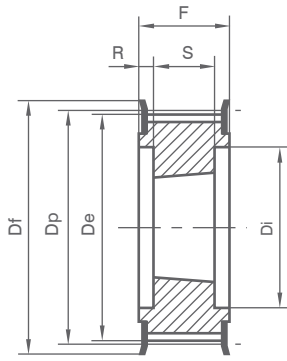
## H200 1/2"(12.70mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di   | F    | S    | R    |
|-----------|------|------|-----|--------|--------|-----|-----|------|------|------|------|
| TB18H200F | 5FB  | 1210 | 18  | 72.77  | 71.39  | 79  | —   | 52   | 58.0 | 25.0 | 33.0 |
| TB19H200F | 5FB  | 1210 | 19  | 76.81  | 75.44  | 83  | —   | 56   | 58.0 | 25.0 | 33.0 |
| TB20H200F | 5FB  | 1610 | 20  | 80.55  | 79.48  | 87  | —   | 60   | 58.0 | 25.0 | 33.0 |
| TB21H200F | 5FB  | 1610 | 21  | 84.89  | 83.52  | 91  | —   | 64   | 58.0 | 25.0 | 33.0 |
| TB22H200F | 5FB  | 1610 | 22  | 88.94  | 87.56  | 94  | —   | 67   | 58.0 | 25.0 | 33.0 |
| TB23H200F | 5FB  | 1610 | 23  | 92.98  | 91.61  | 102 | —   | 70   | 58.0 | 25.0 | 33.0 |
| TB24H200F | 5FB  | 1610 | 24  | 97.02  | 95.65  | 102 | —   | 73.5 | 58.0 | 25.0 | 33.0 |
| TB25H200F | 5FB  | 1610 | 25  | 101.06 | 99.69  | 112 | —   | 77   | 58.0 | 25.0 | 33.0 |
| TB26H200F | 5FB  | 1610 | 26  | 105.11 | 103.73 | 112 | —   | 82   | 58.0 | 25.0 | 33.0 |
| TB27H200F | 5FB  | 1610 | 27  | 109.15 | 107.78 | 120 | —   | 85   | 58.0 | 25.0 | 33.0 |
| TB28H200F | 5FB  | 1610 | 28  | 113.19 | 111.82 | 120 | —   | 90.5 | 58.0 | 25.0 | 33.0 |
| TB30H200F | 5FB  | 1610 | 30  | 121.28 | 119.90 | 128 | —   | 98   | 58.0 | 25.0 | 33.0 |
| TB32H200F | 5FB  | 2012 | 32  | 129.36 | 127.99 | 135 | —   | 106  | 58.0 | 32.0 | 26.0 |
| TB36H200F | 5FW  | 2012 | 36  | 145.53 | 144.16 | 158 | 102 | 121  | 58.0 | 32.0 | 26.0 |
| TB40H200F | 5FW  | 2012 | 40  | 161.70 | 160.33 | 168 | 106 | 138  | 58.0 | 32.0 | 26.0 |
| TB44H200F | 5FW  | 2012 | 44  | 177.87 | 176.50 | 184 | 106 | 152  | 58.0 | 32.0 | 26.0 |
| TB48H200F | 5FW  | 2517 | 48  | 194.04 | 192.67 | 200 | 119 | 169  | 58.0 | 45.0 | 13.0 |
| TB60H200  | 9A   | 2517 | 60  | 242.55 | 241.18 | —   | 119 | 223  | 60.0 | 45.0 | 7.5  |
| TB72H200  | 9A   | 2517 | 72  | 291.06 | 289.69 | —   | 119 | 270  | 60.0 | 45.0 | 7.5  |
| TB84H200  | 9A   | 2517 | 84  | 339.57 | 338.20 | —   | 119 | 320  | 60.0 | 45.0 | 7.5  |
| TB96H200  | 9A   | 2517 | 96  | 388.08 | 386.71 | —   | 119 | 366  | 60.0 | 45.0 | 7.5  |
| TB120H200 | 9A   | 2517 | 120 | 485.10 | 483.73 | —   | 119 | 462  | 60.0 | 45.0 | 7.5  |

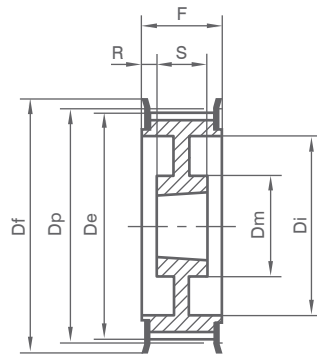
### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 11          | 12 | 14 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 |
| 1210    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| 1610    |             |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |
| 2012    |             |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 2517    |             |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

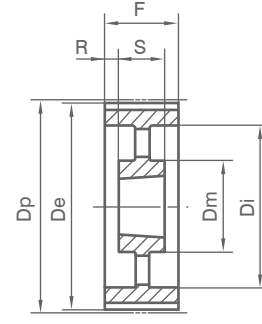
△ shallow keyway



4FB



4FW



9A

## H300

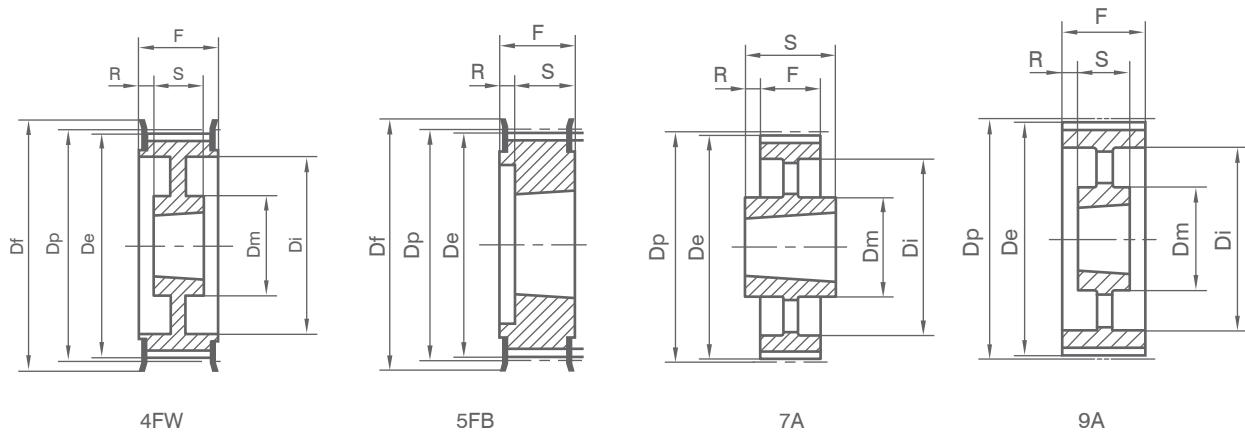
1/2"(12.70mm)

| SPCFCTN   | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di   | F    | S    | R    |
|-----------|------|------|-----|--------|--------|-----|-----|------|------|------|------|
| TB20H300F | 4FB  | 1615 | 20  | 80.85  | 79.48  | 87  | —   | 64.5 | 84.0 | 38.0 | 23.0 |
| TB21H300F | 4FB  | 1615 | 21  | 84.89  | 83.52  | 91  | —   | 65   | 84.0 | 38.0 | 23.0 |
| TB22H300F | 4FB  | 1615 | 22  | 88.94  | 87.56  | 94  | —   | 67   | 84.0 | 38.0 | 23.0 |
| TB23H300F | 4FB  | 1615 | 23  | 92.98  | 91.61  | 102 | —   | 70   | 84.0 | 38.0 | 23.0 |
| TB24H300F | 4FB  | 1615 | 24  | 97.02  | 95.65  | 102 | —   | 73.5 | 84.0 | 38.0 | 23.0 |
| TB25H300F | 4FB  | 1615 | 25  | 101.06 | 99.69  | 112 | —   | 77   | 84.0 | 38.0 | 23.0 |
| TB26H300F | 4FB  | 1615 | 26  | 105.11 | 103.73 | 112 | —   | 82   | 84.0 | 38.0 | 23.0 |
| TB27H300F | 4FB  | 2012 | 27  | 109.15 | 107.78 | 120 | —   | 85   | 84.0 | 32.0 | 26.0 |
| TB28H300F | 4FB  | 2012 | 28  | 113.19 | 111.82 | 120 | —   | 90.5 | 84.0 | 32.0 | 26.0 |
| TB30H300F | 4FB  | 2012 | 30  | 121.28 | 119.90 | 128 | —   | 98   | 84.0 | 32.0 | 26.0 |
| TB32H300F | 4FB  | 2517 | 32  | 129.36 | 127.99 | 135 | —   | 106  | 84.0 | 45.0 | 19.5 |
| TB36H300F | 4FB  | 2517 | 36  | 145.53 | 144.16 | 158 | —   | 121  | 84.0 | 45.0 | 19.5 |
| TB40H300F | 4FB  | 2517 | 40  | 161.70 | 160.33 | 168 | —   | 138  | 84.0 | 45.0 | 19.5 |
| TB44H300F | 4FW  | 2517 | 44  | 177.87 | 176.50 | 184 | 119 | 152  | 86.0 | 45.0 | 20.5 |
| TB48H300F | 4FW  | 2517 | 48  | 194.04 | 192.67 | 200 | 119 | 169  | 86.0 | 45.0 | 20.5 |
| TB60H300  | 9A   | 2517 | 60  | 242.55 | 241.18 | —   | 119 | 223  | 86.0 | 45.0 | 20.5 |
| TB72H300  | 9A   | 2517 | 72  | 291.06 | 289.69 | —   | 119 | 270  | 86.0 | 45.0 | 20.5 |
| TB84H300  | 9A   | 2517 | 84  | 339.57 | 338.20 | —   | 119 | 320  | 86.0 | 45.0 | 20.5 |
| TB96H300  | 9A   | 3030 | 96  | 388.08 | 386.71 | —   | 150 | 362  | 86.0 | 76.0 | 5.0  |
| B120H300  | 9A   | 3030 | 120 | 485.10 | 483.73 | —   | 150 | 460  | 86.0 | 76.0 | 5.0  |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 14          | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 |
| 1615    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | △  |    |    |    |    |    |
| 2012    |             |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |
| 2517    |             |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |
| 3030    |             |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway



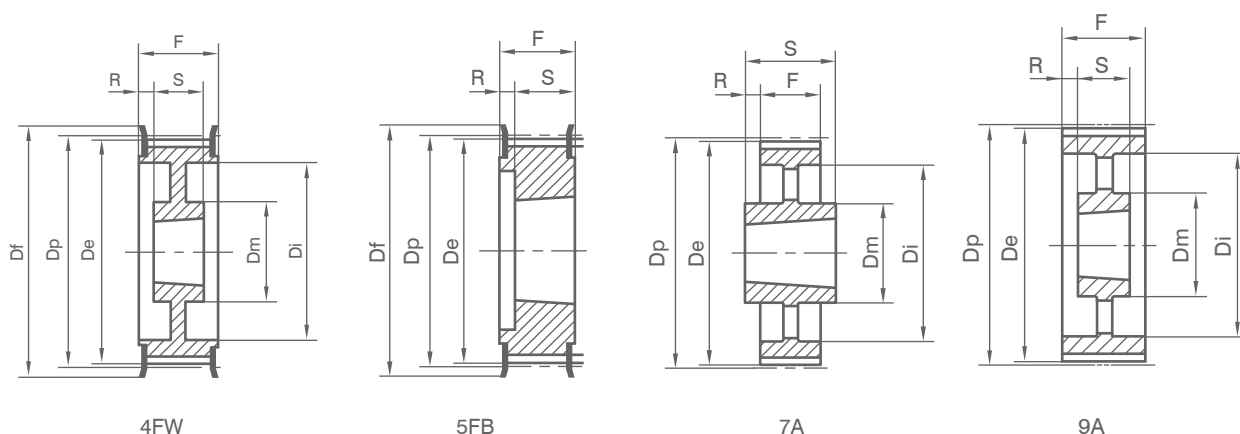
## XH200 7/8"(22.22mm)

| SPCFCTN    | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F  | S  | R    |
|------------|------|------|-----|--------|--------|-----|-----|-----|----|----|------|
| TB18XH200F | 5FB  | 2517 | 18  | 127.34 | 124.55 | 142 | —   | 95  | 64 | 45 | 19   |
| TB20XH200F | 5FB  | 2517 | 20  | 141.49 | 138.69 | 158 | —   | 110 | 64 | 45 | 19   |
| TB22XH200F | 5FB  | 2517 | 22  | 155.64 | 152.84 | 168 | —   | 120 | 64 | 45 | 19   |
| TB24XH200F | 5FB  | 2517 | 24  | 169.79 | 166.99 | 184 | —   | 135 | 64 | 45 | 19   |
| TB26XH200F | 5FB  | 2517 | 26  | 183.94 | 181.14 | 200 | —   | 150 | 64 | 45 | 19   |
| TB28XH200F | 4FW  | 2517 | 28  | 198.08 | 195.29 | 211 | 120 | 165 | 64 | 45 | 9.5  |
| TB30XH200F | 4FW  | 2517 | 30  | 212.23 | 209.44 | 226 | 120 | 180 | 64 | 45 | 9.5  |
| TB32XH200F | 4FW  | 2517 | 32  | 226.38 | 223.59 | 240 | 120 | 195 | 64 | 45 | 9.5  |
| TB40XH200F | 4FW  | 3020 | 40  | 282.98 | 280.18 | 296 | 160 | 245 | 64 | 51 | 6.5  |
| TB48XH200  | 9A   | 3020 | 48  | 339.57 | 336.78 | —   | 160 | 300 | 64 | 51 | 6.5  |
| TB60XH200  | 7A   | 3535 | 60  | 424.47 | 421.67 | —   | 190 | 385 | 64 | 89 | 12.5 |
| TB72XH200  | 7A   | 3535 | 72  | 509.36 | 506.56 | —   | 190 | 470 | 64 | 89 | 12.5 |
| TB84XH200  | 7A   | 3535 | 84  | 594.25 | 591.46 | —   | 190 | 555 | 64 | 89 | 12.5 |
| TB96XH200  | 7A   | 3535 | 96  | 679.15 | 676.35 | —   | 190 | 640 | 64 | 89 | 12.5 |
| TB120XH200 | 7A   | 3535 | 120 | 848.93 | 846.14 | —   | 190 | 810 | 64 | 89 | 12.5 |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 20          | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 2517    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |
| 3020    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |
| 3535    |             |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway



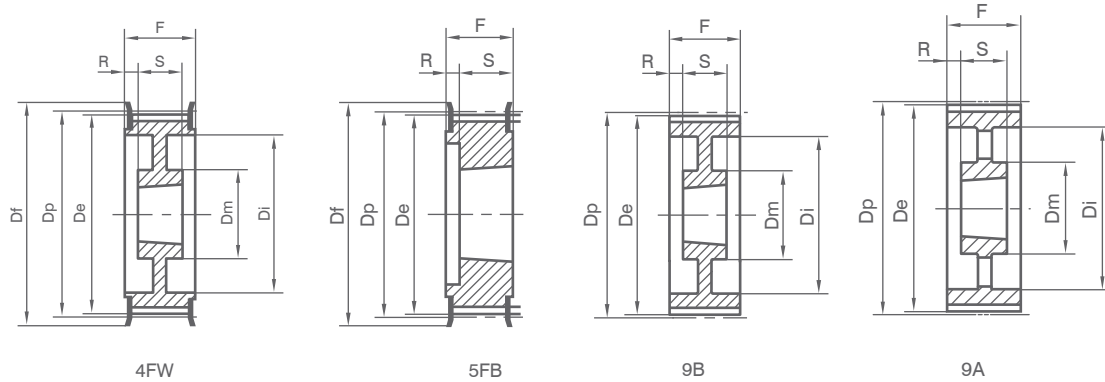
## XH300 7/8"(22.22mm)

| SPCFCTN    | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F  | S   | R    |
|------------|------|------|-----|--------|--------|-----|-----|-----|----|-----|------|
| TB18XH300F | 5FB  | 2517 | 18  | 127.34 | 124.55 | 142 | —   | 95  | 90 | 45  | 45   |
| TB20XH300F | 5FB  | 2517 | 20  | 141.49 | 138.69 | 158 | —   | 110 | 90 | 45  | 45   |
| TB22XH300F | 5FB  | 2517 | 22  | 155.64 | 152.84 | 168 | —   | 120 | 90 | 45  | 45   |
| TB24XH300F | 5FB  | 2517 | 24  | 169.79 | 166.99 | 184 | —   | 135 | 90 | 45  | 45   |
| TB26XH300F | 5FB  | 2517 | 26  | 183.94 | 181.14 | 200 | —   | 150 | 90 | 45  | 45   |
| TB28XH300F | 5FB  | 3020 | 28  | 198.08 | 195.29 | 211 | —   | 165 | 90 | 51  | 39   |
| TB30XH300F | 5FB  | 3020 | 30  | 212.23 | 209.44 | 226 | —   | 180 | 90 | 51  | 39   |
| TB32XH300F | 5FB  | 3020 | 32  | 226.38 | 223.59 | 240 | —   | 195 | 90 | 51  | 39   |
| TB40XH300F | 4FW  | 3020 | 40  | 282.98 | 280.18 | 296 | 160 | 245 | 90 | 51  | 19.5 |
| TB48XH300  | 9A   | 3020 | 48  | 339.57 | 336.78 | —   | 160 | 300 | 90 | 51  | 19.5 |
| TB60XH300  | 9A   | 3535 | 60  | 424.47 | 421.67 | —   | 190 | 385 | 90 | 89  | 0.5  |
| TB72XH300  | 9A   | 3535 | 72  | 509.36 | 506.56 | —   | 190 | 470 | 90 | 89  | 0.5  |
| TB84XH300  | 7A   | 4040 | 84  | 594.25 | 591.46 | —   | 230 | 555 | 90 | 102 | 6    |
| TB96XH300  | 7A   | 4040 | 96  | 679.15 | 676.35 | —   | 230 | 640 | 90 | 102 | 6    |
| TB120XH300 | 7A   | 4040 | 120 | 848.93 | 846.14 | —   | 230 | 810 | 90 | 102 | 6    |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
|         | 20          | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
| 2517    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |     |
| 3020    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |     |
| 3535    |             |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |     |
| 4040    |             |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |

△ shallow keyway



## XH400 7/8"(22.22mm)

| SPCFCTN    | TYPE | BUSH | Z   | Dp     | De     | Df  | Dm  | Di  | F   | S   | R   |
|------------|------|------|-----|--------|--------|-----|-----|-----|-----|-----|-----|
| TB18XH400F | 5FB  | 2517 | 18  | 127.34 | 124.55 | 142 | —   | 95  | 119 | 45  | 74  |
| TB20XH400F | 5FB  | 2517 | 20  | 141.49 | 138.69 | 158 | —   | 110 | 119 | 45  | 74  |
| TB22XH400F | 5FB  | 2517 | 22  | 155.64 | 152.84 | 168 | —   | 120 | 119 | 45  | 74  |
| TB24XH400F | 5FB  | 3020 | 24  | 169.79 | 166.99 | 184 | —   | 135 | 119 | 51  | 68  |
| TB26XH400F | 5FB  | 3020 | 26  | 183.94 | 181.14 | 200 | —   | 150 | 119 | 51  | 68  |
| TB28XH400F | 5FB  | 3020 | 28  | 198.08 | 195.29 | 211 | —   | 165 | 119 | 51  | 68  |
| TB30XH400F | 5FB  | 3020 | 30  | 212.23 | 209.44 | 226 | —   | 180 | 119 | 51  | 68  |
| TB32XH400F | 5FB  | 3020 | 32  | 226.38 | 223.59 | 240 | —   | 195 | 119 | 51  | 68  |
| TB40XH400F | 4FW  | 3535 | 40  | 282.98 | 280.18 | 296 | 190 | 245 | 119 | 89  | 15  |
| TB48XH400  | 9B   | 3535 | 48  | 339.57 | 336.78 | —   | 190 | 300 | 119 | 89  | 15  |
| TB60XH400  | 9A   | 4040 | 60  | 424.47 | 421.67 | —   | 230 | 385 | 119 | 102 | 8.5 |
| TB72XH400  | 9A   | 4040 | 72  | 509.36 | 506.56 | —   | 230 | 470 | 119 | 102 | 8.5 |
| TB84XH400  | 9A   | 4040 | 84  | 594.25 | 591.46 | —   | 230 | 555 | 119 | 102 | 8.5 |
| TB96XH400  | 9A   | 4040 | 96  | 679.15 | 676.35 | —   | 230 | 640 | 119 | 102 | 8.5 |
| TB120XH400 | 9A   | 4040 | 120 | 848.93 | 846.14 | —   | 230 | 810 | 119 | 102 | 8.5 |

### Stock bore dimensions of BTL bushings

| Bushing | Stock Bores |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 20          | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 2517    | ●           | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |
| 3020    |             |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 3535    |             |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 4040    |             |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

△ shallow keyway