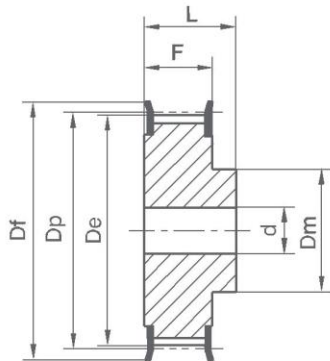
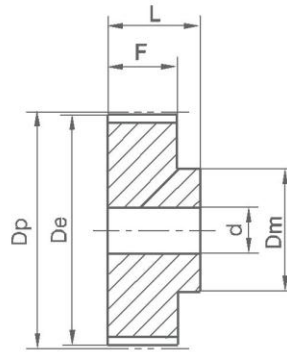
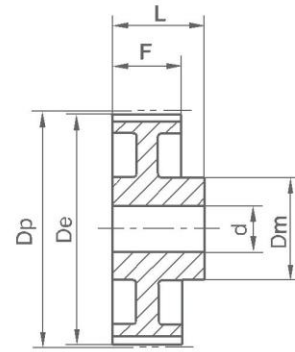




Type 1F



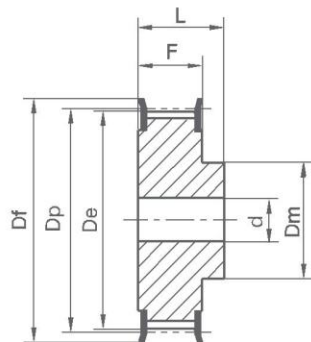
Type 2



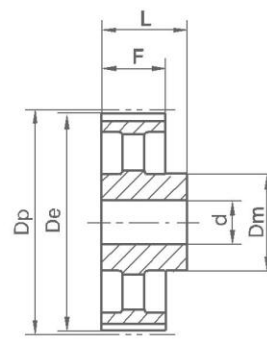
Type 3

## XL037 PITCH 1/5" (5.08mm)

| INFO            |                | Size      | Type | Z  | Dp     | De     | Df   | Dm   | F    | L  | d  | Flange No. |
|-----------------|----------------|-----------|------|----|--------|--------|------|------|------|----|----|------------|
| STEEL/ALUMINIUM | WITH FLANGE    | 10 XL 037 | 1F   | 10 | 16.17  | 15.66  | 23.0 | 9.5  | 14.3 | 20 | -  | 1          |
|                 |                | 11 XL 037 | 1F   | 11 | 17.79  | 17.28  | 23.0 | 9.5  | 14.3 | 20 | -  | 1          |
|                 |                | 12 XL 037 | 1F   | 12 | 19.40  | 18.90  | 25.0 | 10   | 14.3 | 20 | -  | 2          |
|                 |                | 13 XL 037 | 1F   | 13 | 21.02  | 20.51  | 25.0 | 10   | 14.3 | 20 | -  | 2          |
|                 |                | 14 XL 037 | 1F   | 14 | 22.64  | 22.13  | 28.0 | 15   | 14.3 | 20 | -  | 4          |
|                 |                | 15 XL 037 | 1F   | 15 | 24.26  | 23.75  | 28.0 | 15   | 14.3 | 20 | -  | 4          |
|                 |                | 16 XL 037 | 1F   | 16 | 25.87  | 25.36  | 32.0 | 16   | 14.3 | 20 | -  | 5          |
|                 |                | 17 XL 037 | 1F   | 17 | 27.49  | 26.98  | 32.0 | 20   | 14.3 | 20 | -  | 6          |
|                 |                | 18 XL 037 | 1F   | 18 | 29.11  | 28.60  | 35.0 | 20   | 14.3 | 20 | -  | 7          |
|                 |                | 19 XL 037 | 1F   | 19 | 30.72  | 30.22  | 35.0 | 20   | 14.3 | 22 | -  | 7          |
|                 |                | 20 XL 037 | 1F   | 20 | 32.34  | 31.83  | 38.0 | 23.5 | 14.3 | 22 | -  | 9          |
|                 |                | 21 XL 037 | 1F   | 21 | 33.96  | 33.45  | 38.0 | 23.5 | 14.3 | 22 | -  | 9          |
|                 |                | 22 XL 037 | 1F   | 22 | 35.57  | 35.07  | 41.0 | 25   | 14.3 | 22 | 6  | 10         |
|                 |                | 24 XL 037 | 1F   | 24 | 38.81  | 38.30  | 44.0 | 30   | 14.3 | 22 | 6  | 12         |
|                 |                | 26 XL 037 | 1F   | 26 | 42.04  | 41.53  | 48.0 | 30   | 14.3 | 22 | 8  | 11         |
|                 |                | 27 XL 037 | 1F   | 27 | 43.66  | 43.15  | 48.0 | 30   | 14.3 | 22 | 8  | 11         |
|                 |                | 28 XL 037 | 1F   | 28 | 45.28  | 44.77  | 51.0 | 34   | 14.3 | 22 | 8  | 16         |
|                 |                | 30 XL 037 | 1F   | 30 | 48.51  | 48.00  | 54.0 | 38   | 14.3 | 22 | 8  | 18         |
|                 |                | 32 XL 037 | 1F   | 32 | 51.74  | 51.24  | 57.0 | 38   | 14.3 | 25 | 8  | 20         |
|                 |                | 34 XL 037 | 1F   | 34 | 54.98  | 54.47  | 61.0 | 38   | 14.3 | 25 | 8  | 22         |
|                 |                | 35 XL 037 | 1F   | 35 | 56.60  | 56.09  | 61.0 | 38   | 14.3 | 25 | 8  | 22         |
| ALUMINIUM       | WITHOUT FLANGE | 36 XL 037 | 2    | 36 | 58.21  | 57.70  | -    | 45   | 14.3 | 25 | 8  | -          |
|                 |                | 38 XL 037 | 2    | 38 | 61.45  | 60.94  | -    | 45   | 14.3 | 25 | 8  | -          |
|                 |                | 40 XL 037 | 2    | 40 | 64.68  | 64.17  | -    | 45   | 14.3 | 25 | 8  | -          |
|                 |                | 42 XL 037 | 2    | 42 | 67.91  | 67.41  | -    | 45   | 14.3 | 25 | 8  | -          |
|                 |                | 44 XL 037 | 2    | 44 | 71.15  | 70.64  | -    | 45   | 14.3 | 25 | 8  | -          |
|                 |                | 48 XL 037 | 3    | 48 | 77.62  | 77.11  | -    | 45   | 14.3 | 25 | 10 | -          |
|                 |                | 60 XL 037 | 3    | 60 | 97.02  | 96.51  | -    | 45   | 14.3 | 25 | 10 | -          |
|                 |                | 72 XL 037 | 3    | 72 | 116.42 | 115.92 | -    | 45   | 14.3 | 25 | 10 | -          |



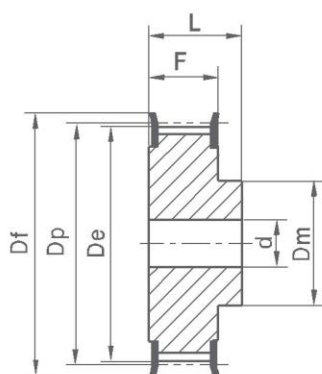
Type 1F



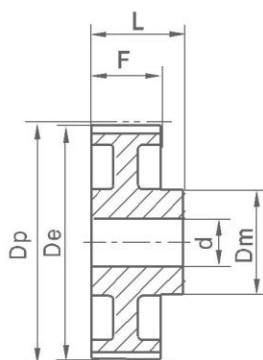
Type 4

### L075 PITCH 3/8" (9.525mm)

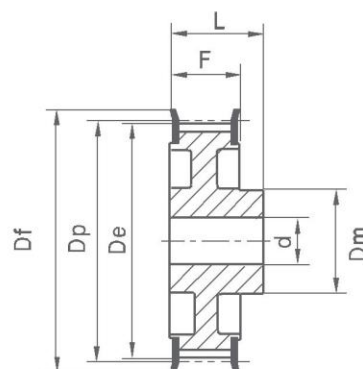
| INFO      | Size           | Type     | Z  | Dp | De     | Df     | Dm    | F    | L  | d  | Flange No. |
|-----------|----------------|----------|----|----|--------|--------|-------|------|----|----|------------|
| STEEL     | WITH FLANGF    | 10 L 075 | 1F | 10 | 30.33  | 29.56  | 37.0  | 25.4 | 38 | 8  | 50         |
|           |                | 11 L 075 | 1F | 11 | 33.35  | 32.59  | 37.0  | 25.4 | 38 | 8  | 50         |
|           |                | 12 L 075 | 1F | 12 | 36.37  | 35.62  | 43.0  | 25.4 | 38 | 8  | 52         |
|           |                | 13 L 075 | 1F | 13 | 39.41  | 38.65  | 44.0  | 25.4 | 38 | 8  | 83         |
|           |                | 14 L 075 | 1F | 14 | 42.44  | 41.68  | 48.0  | 25.4 | 38 | 11 | 54         |
|           |                | 15 L 075 | 1F | 15 | 45.48  | 44.72  | 51.0  | 25.4 | 38 | 11 | 55         |
|           |                | 16 L 075 | 1F | 16 | 48.51  | 47.75  | 54.0  | 25.4 | 38 | 11 | 56         |
|           |                | 17 L 075 | 1F | 17 | 51.54  | 50.78  | 57.0  | 25.4 | 38 | 11 | 57         |
|           |                | 18 L 075 | 1F | 18 | 54.59  | 53.81  | 60.0  | 25.4 | 38 | 11 | 58         |
|           |                | 19 L 075 | 1F | 19 | 57.61  | 56.84  | 64.0  | 25.4 | 38 | 11 | 59         |
|           |                | 20 L 075 | 1F | 20 | 60.63  | 59.88  | 66.5  | 25.4 | 38 | 11 | 60         |
|           |                | 21 L 075 | 1F | 21 | 63.68  | 62.91  | 70.0  | 25.4 | 38 | 11 | 61         |
|           |                | 22 L 075 | 1F | 22 | 66.70  | 65.94  | 75.0  | 25.4 | 38 | 11 | 62         |
|           |                | 23 L 075 | 1F | 23 | 69.73  | 68.97  | 79.0  | 25.4 | 38 | 11 | 63         |
|           |                | 24 L 075 | 1F | 24 | 72.77  | 72.00  | 79.0  | 25.4 | 38 | 11 | 63         |
|           |                | 25 L 075 | 1F | 25 | 75.80  | 75.04  | 82.5  | 25.4 | 38 | 11 | 64         |
|           |                | 26 L 075 | 1F | 26 | 78.84  | 78.07  | 86.0  | 25.4 | 38 | 11 | 65         |
|           |                | 27 L 075 | 1F | 27 | 81.86  | 81.10  | 86.0  | 25.4 | 38 | 11 | 65         |
|           |                | 28 L 075 | 1F | 28 | 84.89  | 84.13  | 91.0  | 25.4 | 38 | 11 | 66         |
|           |                | 30 L 075 | 1F | 30 | 90.96  | 90.20  | 97.0  | 25.4 | 38 | 11 | 68         |
|           |                | 32 L 075 | 1F | 32 | 97.03  | 96.26  | 102.0 | 25.4 | 38 | 11 | 70         |
|           |                | 33 L 075 | 1F | 33 | 100.05 | 99.29  | 106.0 | 25.4 | 38 | 11 | 71         |
|           |                | 34 L 075 | 1F | 34 | 103.08 | 102.32 | 112.0 | 25.4 | 38 | 11 | 72         |
|           |                | 35 L 075 | 1F | 35 | 106.12 | 105.35 | 112.0 | 25.4 | 38 | 11 | 72         |
|           |                | 36 L 075 | 1F | 36 | 109.14 | 108.39 | 115.0 | 25.4 | 38 | 11 | 74         |
|           |                | 40 L 075 | 1F | 40 | 121.29 | 120.51 | 128.0 | 25.4 | 38 | 11 | 78         |
|           |                | 42 L 075 | 1F | 42 | 127.34 | 126.57 | 135.0 | 25.4 | 38 | 11 | 80         |
|           |                | 44 L 075 | 1F | 44 | 133.40 | 132.64 | 142.0 | 25.4 | 38 | 11 | 81         |
|           |                | 45 L 075 | 1F | 45 | 136.44 | 135.67 | 142.0 | 25.4 | 38 | 11 | 81         |
|           |                | 48 L 075 | 1F | 48 | 145.54 | 144.77 | 150.0 | 25.4 | 38 | 11 | 85         |
| CAST-IRON | WITHOUT FLANGF | 50 L 075 | 4  | 50 | 151.60 | 150.83 | -     | 25.4 | 38 | 14 | -          |
|           |                | 52 L 075 | 4  | 52 | 157.66 | 156.90 | -     | 25.4 | 38 | 14 | -          |
|           |                | 56 L 075 | 4  | 56 | 169.79 | 169.02 | -     | 25.4 | 38 | 14 | -          |
|           |                | 57 L 075 | 4  | 57 | 172.82 | 172.06 | -     | 25.4 | 38 | 14 | -          |
|           |                | 60 L 075 | 4  | 60 | 181.92 | 181.15 | -     | 25.4 | 45 | 14 | -          |
|           |                | 72 L 075 | 4  | 72 | 218.29 | 217.53 | -     | 25.4 | 45 | 14 | -          |
|           |                | 84 L 075 | 4  | 84 | 254.69 | 253.92 | -     | 25.4 | 45 | 14 | -          |
|           |                | 96 L 075 | 4  | 96 | 291.06 | 290.30 | -     | 25.4 | 45 | 14 | -          |



Type 1F



Type 4



Type 5F

## H100 PITCH 1/2" (12.70mm)

| INFO      |                | Size      | Type | Z   | Dp     | De     | Df    | Dm  | F    | L  | d  | Flange No. |
|-----------|----------------|-----------|------|-----|--------|--------|-------|-----|------|----|----|------------|
| STEEL     | WITH FLANGE    | 14 H 100  | 1F   | 14  | 56.59  | 55.22  | 64.0  | 40  | 31.8 | 45 | -  | 59         |
|           |                | 15 H 100  | 1F   | 15  | 60.64  | 59.27  | 66.5  | 45  | 31.8 | 45 | -  | 60         |
|           |                | 16 H 100  | 1F   | 16  | 64.67  | 63.31  | 70.0  | 45  | 31.8 | 45 | -  | 61         |
|           |                | 17 H 100  | 1F   | 17  | 68.72  | 67.35  | 75.0  | 45  | 31.8 | 45 | -  | 62         |
|           |                | 18 H 100  | 1F   | 18  | 72.77  | 71.39  | 79.0  | 55  | 31.8 | 45 | -  | 63         |
|           |                | 19 H 100  | 1F   | 19  | 76.81  | 75.44  | 82.5  | 60  | 31.8 | 45 | 14 | 64         |
|           |                | 20 H 100  | 1F   | 20  | 80.85  | 79.48  | 87.0  | 62  | 31.8 | 45 | 14 | 76         |
|           |                | 21 H 100  | 1F   | 21  | 84.89  | 83.52  | 91.0  | 65  | 31.8 | 45 | 14 | 66         |
|           |                | 22 H 100  | 1F   | 22  | 88.93  | 87.56  | 94.0  | 68  | 31.8 | 45 | 14 | 67         |
|           |                | 23 H 100  | 1F   | 23  | 92.98  | 91.61  | 97.0  | 72  | 31.8 | 45 | 14 | 68         |
|           |                | 24 H 100  | 1F   | 24  | 97.03  | 95.65  | 102.0 | 72  | 31.8 | 45 | 14 | 70         |
|           |                | 25 H 100  | 1F   | 25  | 101.06 | 99.69  | 106.0 | 72  | 31.8 | 45 | 14 | 71         |
|           |                | 26 H 100  | 1F   | 26  | 105.11 | 103.73 | 112.0 | 80  | 31.8 | 45 | 14 | 72         |
|           |                | 27 H 100  | 1F   | 27  | 109.15 | 107.78 | 115.0 | 80  | 31.8 | 45 | 14 | 74         |
|           |                | 28 H 100  | 1F   | 28  | 113.18 | 111.82 | 120.0 | 80  | 31.8 | 45 | 14 | 75         |
|           |                | 29 H 100  | 1F   | 29  | 117.23 | 115.86 | 120.0 | 80  | 31.8 | 45 | 14 | 75         |
|           |                | 30 H 100  | 1F   | 30  | 121.29 | 119.90 | 128.0 | 80  | 31.8 | 45 | 14 | 78         |
|           |                | 32 H 100  | 1F   | 32  | 129.30 | 127.99 | 135.0 | 80  | 31.8 | 45 | 14 | 80         |
|           |                | 33 H 100  | 1F   | 33  | 133.40 | 132.03 | 142.0 | 80  | 31.8 | 45 | 14 | 81         |
|           |                | 34 H 100  | 1F   | 34  | 137.45 | 136.07 | 142.0 | 80  | 31.8 | 45 | 14 | 81         |
|           |                | 35 H 100  | 1F   | 35  | 141.49 | 140.12 | 150.0 | 80  | 31.8 | 45 | 14 | 85         |
|           |                | 36 H 100  | 1F   | 36  | 145.54 | 144.16 | 150.0 | 80  | 31.8 | 45 | 14 | 85         |
| CAST-IRON | WITH FLANGE    | 38 H 100  | 1F   | 38  | 153.62 | 152.24 | 158.0 | 80  | 31.8 | 45 | 14 | 86         |
|           |                | 40 H 100  | 1F   | 40  | 161.70 | 160.33 | 168.0 | 80  | 31.8 | 45 | 14 | 90         |
|           |                | 42 H 100  | 1F   | 42  | 169.79 | 168.41 | 180.0 | 80  | 31.8 | 45 | 14 | 94         |
|           | WITHOUT FLANGE | 44 H 100  | 5F   | 44  | 177.88 | 176.50 | 184.0 | 80  | 31.8 | 50 | 14 | 95         |
|           |                | 45 H 100  | 5F   | 45  | 181.91 | 180.54 | 192.0 | 80  | 31.8 | 50 | 14 | 96         |
|           |                | 48 H 100  | 5F   | 48  | 194.03 | 192.67 | 200.0 | 90  | 31.8 | 50 | 14 | 100        |
|           |                | 50 H 100  | 4    | 50  | 202.13 | 200.75 | -     | 90  | 31.8 | 50 | 19 | -          |
|           |                | 52 H 100  | 4    | 52  | 210.21 | 208.84 | -     | 90  | 31.8 | 50 | 19 | -          |
|           |                | 58 H 100  | 4    | 58  | 234.47 | 233.09 | -     | 90  | 31.8 | 50 | 19 | -          |
|           |                | 60 H 100  | 4    | 60  | 242.55 | 241.18 | -     | 120 | 31.8 | 50 | 19 | -          |
|           |                | 70 H 100  | 4    | 70  | 282.98 | 281.61 | -     | 120 | 31.8 | 55 | 19 | -          |
|           |                | 72 H 100  | 4    | 72  | 291.06 | 289.69 | -     | 120 | 31.8 | 55 | 19 | -          |
|           |                | 84 H 100  | 4    | 84  | 339.57 | 338.20 | -     | 120 | 31.8 | 55 | 19 | -          |
|           |                | 96 H 100  | 4    | 96  | 388.09 | 386.71 | -     | 120 | 31.8 | 60 | 19 | -          |
|           |                | 120 H 100 | 4    | 120 | 485.12 | 483.73 | -     | 120 | 31.8 | 60 | 19 | -          |