

N420-4

DIN 13

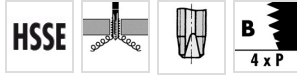
DIN 374



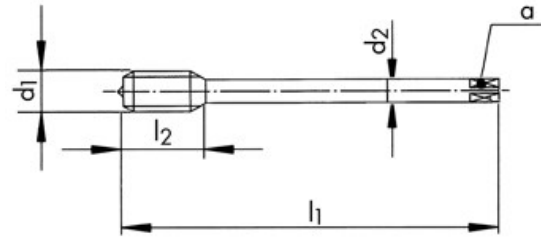
Material groups



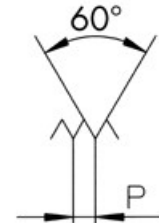
CHARACTERISTICS



Technical drawing



Profile sketch







Tool data

| ID | D1 | Ø d1 | Tol | P | l1 | l2 | d2 | a | | |
|--------|-------|-------|-----|-------|-------|------|-------|------|---|-------|
| 102164 | M48x2 | 48.00 | 6H | 2.000 | 190.0 | 36.0 | 36.00 | 29.0 | 5 | 46.00 |

Product range N420-4 M48x2 6H

| ID | D1 | Ø d1 | Tol | P | l1 | l2 | d2 | a | | |
|--------|----------|------|-------|-------|------|------|------|-----|---|------|
| 102145 | M4x0.5 | 4.00 | 6H | 0.500 | 63.0 | 14.0 | 2.80 | 2.1 | 3 | 3.50 |
| 102150 | M4.5x0.5 | 4.50 | 6H | 0.500 | 70.0 | 15.0 | 3.50 | 2.7 | 3 | 4.00 |
| 102168 | M5x0.75 | 5.00 | 6H | 0.750 | 70.0 | 15.0 | 3.50 | 2.7 | 3 | 4.25 |
| 102167 | M5x0.5 | 5.00 | 6H | 0.500 | 70.0 | 15.0 | 3.50 | 2.7 | 3 | 4.50 |
| 142696 | M5.5x0.5 | 5.50 | 6H | 0.500 | 80.0 | 17.0 | 4.00 | 3.0 | 3 | 5.00 |
| 105133 | M6x0.75 | 6.00 | 6H LH | 0.750 | 80.0 | 17.0 | 4.50 | 3.4 | 3 | 5.25 |
| 102179 | M6x0.75 | 6.00 | 6H | 0.750 | 80.0 | 17.0 | 4.50 | 3.4 | 3 | 5.25 |
| 102178 | M6x0.5 | 6.00 | 6H | 0.500 | 80.0 | 17.0 | 4.50 | 3.4 | 3 | 5.50 |
| 104870 | M6x0.5 | 6.00 | 6H LH | 0.500 | 80.0 | 17.0 | 4.50 | 3.4 | 3 | 5.50 |
| 102188 | M7x0.75 | 7.00 | 6H | 0.750 | 80.0 | 17.0 | 5.50 | 4.3 | 3 | 6.25 |
| 102187 | M7x0.5 | 7.00 | 6H | 0.500 | 80.0 | 17.0 | 5.50 | 4.3 | 3 | 6.50 |
| 102192 | M8x1 | 8.00 | 6H | 1.000 | 90.0 | 20.0 | 6.00 | 4.9 | 3 | 7.00 |
| 104872 | M8x1 | 8.00 | 6H LH | 1.000 | 90.0 | 20.0 | 6.00 | 4.9 | 3 | 7.00 |
| 104871 | M8x0.75 | 8.00 | 6H LH | 0.750 | 90.0 | 20.0 | 6.00 | 4.9 | 3 | 7.25 |
| 102191 | M8x0.75 | 8.00 | 6H | 0.750 | 90.0 | 20.0 | 6.00 | 4.9 | 3 | 7.25 |

| ID | D1 | Ø d1 | Tol | P | l1 | l2 | d2 | a |  |  |
|--------|----------|-------|-------|-------|-------|------|-------|-----|---|---|
| 102190 | M8x0.5 | 8.00 | 6H | 0.500 | 90.0 | 20.0 | 6.00 | 4.9 | 3 | 7.50 |
| 102201 | M9x1 | 9.00 | 6H | 1.000 | 90.0 | 20.0 | 7.00 | 5.5 | 3 | 8.00 |
| 102200 | M9x0.75 | 9.00 | 6H | 0.750 | 90.0 | 20.0 | 7.00 | 5.5 | 3 | 8.25 |
| 142697 | M9x0.5 | 9.00 | 6H | 0.500 | 90.0 | 20.0 | 7.00 | 5.5 | 3 | 8.50 |
| 102066 | M12x0.5 | 12.00 | 6H | 0.500 | 100.0 | 14.0 | 9.00 | 7.0 | 3 | 11.50 |
| 142705 | M14x0.5 | 14.00 | 6H | 0.500 | 100.0 | 14.0 | 11.00 | 9.0 | 3 | 13.50 |
| 142702 | M11x1.25 | 11.00 | 6H | 1.250 | 100.0 | 19.0 | 8.00 | 6.2 | 3 | 9.80 |
| 142701 | M11x1 | 11.00 | 6H | 1.000 | 100.0 | 19.0 | 8.00 | 6.2 | 3 | 10.00 |
| 142700 | M11x0.75 | 11.00 | 6H | 0.750 | 100.0 | 19.0 | 8.00 | 6.2 | 3 | 10.25 |
| 142699 | M11X0.5 | 11.00 | 6H | 0.500 | 100.0 | 19.0 | 8.00 | 6.2 | 3 | 10.50 |
| 142704 | M13x1 | 13.00 | 6H | 1.000 | 100.0 | 21.0 | 11.00 | 9.0 | 3 | 12.00 |
| 104874 | M10x1.25 | 10.00 | 6H LH | 1.250 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 8.80 |
| 102058 | M10x1.25 | 10.00 | 6H | 1.250 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 8.80 |
| 102057 | M10x1 | 10.00 | 6H | 1.000 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 9.00 |
| 104873 | M10x1 | 10.00 | 6H LH | 1.000 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 9.00 |
| 102056 | M10x0.75 | 10.00 | 6H | 0.750 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 9.25 |
| 142698 | M10x0.5 | 10.00 | 6H | 0.500 | 100.0 | 22.0 | 7.00 | 5.5 | 3 | 9.50 |
| 104877 | M12x1.5 | 12.00 | 6H LH | 1.500 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 10.50 |
| 102069 | M12x1.5 | 12.00 | 6H | 1.500 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 10.50 |
| 102068 | M12x1.25 | 12.00 | 6H | 1.250 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 10.80 |
| 104876 | M12x1.25 | 12.00 | 6H LH | 1.250 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 10.80 |
| 104875 | M12x1 | 12.00 | 6H LH | 1.000 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 11.00 |
| 102067 | M12x1 | 12.00 | 6H | 1.000 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 11.00 |
| 142703 | M12x0.75 | 12.00 | 6H | 0.750 | 100.0 | 24.0 | 9.00 | 7.0 | 3 | 11.25 |
| 104879 | M14x1.5 | 14.00 | 6H LH | 1.500 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 12.50 |
| 102079 | M14x1.5 | 14.00 | 6H | 1.500 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 12.50 |
| 102078 | M14x1.25 | 14.00 | 6H | 1.250 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 12.80 |
| 102077 | M14x1 | 14.00 | 6H | 1.000 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 13.00 |
| 104878 | M14x1 | 14.00 | 6H LH | 1.000 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 13.00 |
| 142706 | M14x0.75 | 14.00 | 6H | 0.750 | 100.0 | 24.0 | 11.00 | 9.0 | 3 | 13.25 |
| 102086 | M15x1.5 | 15.00 | 6H | 1.500 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 13.50 |
| 102085 | M15x1 | 15.00 | 6H | 1.000 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 14.00 |
| 102089 | M16x1.5 | 16.00 | 6H | 1.500 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 14.50 |
| 104881 | M16x1.5 | 16.00 | 6H LH | 1.500 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 14.50 |
| 102088 | M16x1.25 | 16.00 | 6H | 1.250 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 14.80 |
| 102087 | M16x1 | 16.00 | 6H | 1.000 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 15.00 |

| ID | D1 | Ø d1 | Tol | P | l1 | l2 | d2 | a |  |  |
|--------|----------|-------|-------|-------|-------|------|-------|------|---|---|
| 104880 | M16x1 | 16.00 | 6H LH | 1.000 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 15.00 |
| 142708 | M16x0.75 | 16.00 | 6H | 0.750 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 15.25 |
| 142710 | M17x1.5 | 17.00 | 6H | 1.500 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 15.50 |
| 142709 | M17x1 | 17.00 | 6H | 1.000 | 100.0 | 26.0 | 12.00 | 9.0 | 3 | 16.00 |
| 104882 | M18x1.5 | 18.00 | 6H LH | 1.500 | 110.0 | 26.0 | 14.00 | 11.0 | 4 | 16.50 |
| 102096 | M18x1.5 | 18.00 | 6H | 1.500 | 110.0 | 26.0 | 14.00 | 11.0 | 4 | 16.50 |
| 102095 | M18x1 | 18.00 | 6H | 1.000 | 110.0 | 26.0 | 14.00 | 11.0 | 4 | 17.00 |
| 142711 | M18x0.75 | 18.00 | 6H | 0.750 | 110.0 | 26.0 | 14.00 | 11.0 | 4 | 17.25 |
| 104883 | M20x1.5 | 20.00 | 6H LH | 1.500 | 125.0 | 28.0 | 16.00 | 12.0 | 4 | 18.50 |
| 102099 | M20x1.5 | 20.00 | 6H | 1.500 | 125.0 | 28.0 | 16.00 | 12.0 | 4 | 18.50 |
| 102098 | M20x1 | 20.00 | 6H | 1.000 | 125.0 | 28.0 | 16.00 | 12.0 | 4 | 19.00 |
| 102105 | M22x1.5 | 22.00 | 6H | 1.500 | 125.0 | 28.0 | 18.00 | 14.5 | 4 | 20.50 |
| 104884 | M22x1.5 | 22.00 | 6H LH | 1.500 | 125.0 | 28.0 | 18.00 | 14.5 | 4 | 20.50 |
| 102104 | M22x1 | 22.00 | 6H | 1.000 | 125.0 | 28.0 | 18.00 | 14.5 | 4 | 21.00 |
| 142712 | M18x2 | 18.00 | 6H | 2.000 | 125.0 | 33.0 | 14.00 | 11.0 | 3 | 16.00 |
| 104885 | M24x1.5 | 24.00 | 6H LH | 1.500 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 22.50 |
| 102108 | M24x1.5 | 24.00 | 6H | 1.500 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 22.50 |
| 102107 | M24x1 | 24.00 | 6H | 1.000 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 23.00 |
| 102112 | M25x1.5 | 25.00 | 6H | 1.500 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 23.50 |
| 142722 | M25x1 | 25.00 | 6H | 1.000 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 24.00 |
| 102114 | M26x1.5 | 26.00 | 6H | 1.500 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 24.50 |
| 102113 | M26x1 | 26.00 | 6H | 1.000 | 140.0 | 30.0 | 18.00 | 14.5 | 4 | 25.00 |
| 102118 | M28x1.5 | 28.00 | 6H | 1.500 | 140.0 | 30.0 | 20.00 | 16.0 | 4 | 26.50 |
| 142725 | M28x1 | 28.00 | 6H | 1.000 | 140.0 | 30.0 | 20.00 | 16.0 | 4 | 27.00 |
| 104886 | M24x2 | 24.00 | 6H LH | 2.000 | 140.0 | 34.0 | 18.00 | 14.5 | 4 | 22.00 |
| 102109 | M24x2 | 24.00 | 6H | 2.000 | 140.0 | 34.0 | 18.00 | 14.5 | 4 | 22.00 |
| 142723 | M25x2 | 25.00 | 6H | 2.000 | 140.0 | 34.0 | 18.00 | 14.5 | 4 | 23.00 |
| 102116 | M27x2 | 27.00 | 6H | 2.000 | 140.0 | 34.0 | 20.00 | 16.0 | 4 | 25.00 |
| 102115 | M27x1.5 | 27.00 | 6H | 1.500 | 140.0 | 34.0 | 20.00 | 16.0 | 4 | 25.50 |
| 102100 | M20x2 | 20.00 | 6H | 2.000 | 140.0 | 36.0 | 16.00 | 12.0 | 3 | 18.00 |
| 142714 | M22x2 | 22.00 | 6H | 2.000 | 140.0 | 36.0 | 18.00 | 14.5 | 3 | 20.00 |
| 102123 | M30x2 | 30.00 | 6H | 2.000 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 28.00 |
| 102122 | M30x1.5 | 30.00 | 6H | 1.500 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 28.50 |
| 105165 | M30x1.5 | 30.00 | 6H LH | 1.500 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 28.50 |
| 102121 | M30x1 | 30.00 | 6H | 1.000 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 29.00 |
| 102127 | M32x2 | 32.00 | 6H | 2.000 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 30.00 |

| ID | D1 | Ø d1 | Tol | P | l1 | l2 | d2 | a |  |  |
|--------|---------|-------|-----|-------|-------|------|-------|------|---|---|
| 102126 | M32x1.5 | 32.00 | 6H | 1.500 | 150.0 | 32.0 | 22.00 | 18.0 | 4 | 30.50 |
| 102129 | M33x2 | 33.00 | 6H | 2.000 | 160.0 | 32.0 | 25.00 | 20.0 | 4 | 31.00 |
| 102128 | M33x1.5 | 33.00 | 6H | 1.500 | 160.0 | 32.0 | 25.00 | 20.0 | 4 | 31.50 |
| 102132 | M35x1.5 | 35.00 | 6H | 1.500 | 170.0 | 32.0 | 28.00 | 22.0 | 4 | 33.50 |
| 102135 | M36x2 | 36.00 | 6H | 2.000 | 170.0 | 34.0 | 28.00 | 22.0 | 4 | 34.00 |
| 102134 | M36x1.5 | 36.00 | 6H | 1.500 | 170.0 | 34.0 | 28.00 | 22.0 | 4 | 34.50 |
| 102139 | M38x1.5 | 38.00 | 6H | 1.500 | 170.0 | 34.0 | 28.00 | 22.0 | 4 | 36.50 |
| 102153 | M40x2 | 40.00 | 6H | 2.000 | 170.0 | 34.0 | 32.00 | 24.0 | 5 | 38.00 |
| 102152 | M40x1.5 | 40.00 | 6H | 1.500 | 170.0 | 34.0 | 32.00 | 24.0 | 5 | 38.50 |
| 102156 | M42x2 | 42.00 | 6H | 2.000 | 170.0 | 34.0 | 32.00 | 24.0 | 5 | 40.00 |
| 102155 | M42x1.5 | 42.00 | 6H | 1.500 | 170.0 | 34.0 | 32.00 | 24.0 | 5 | 40.50 |
| 102159 | M45x1.5 | 45.00 | 6H | 1.500 | 180.0 | 34.0 | 36.00 | 29.0 | 5 | 43.50 |
| 102164 | M48x2 | 48.00 | 6H | 2.000 | 190.0 | 36.0 | 36.00 | 29.0 | 5 | 46.00 |
| 102163 | M48x1.5 | 48.00 | 6H | 1.500 | 190.0 | 36.0 | 36.00 | 29.0 | 5 | 46.50 |
| 102177 | M50x2 | 50.00 | 6H | 2.000 | 190.0 | 36.0 | 36.00 | 29.0 | 5 | 48.00 |
| 102176 | M50x1.5 | 50.00 | 6H | 1.500 | 190.0 | 36.0 | 36.00 | 29.0 | 5 | 48.50 |
| 102136 | M36x3 | 36.00 | 6H | 3.000 | 200.0 | 45.0 | 28.00 | 22.0 | 4 | 33.00 |
| 102157 | M42x3 | 42.00 | 6H | 3.000 | 200.0 | 45.0 | 32.00 | 24.0 | 4 | 39.00 |
| 102165 | M48x3 | 48.00 | 6H | 3.000 | 220.0 | 48.0 | 36.00 | 29.0 | 5 | 45.00 |