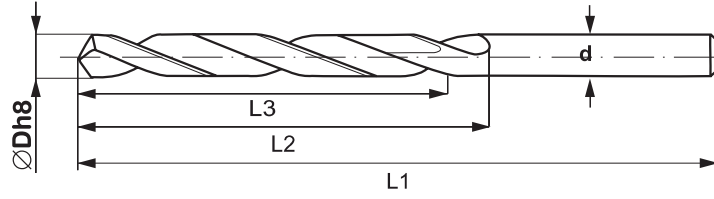


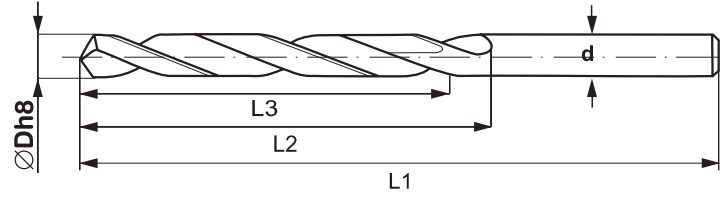
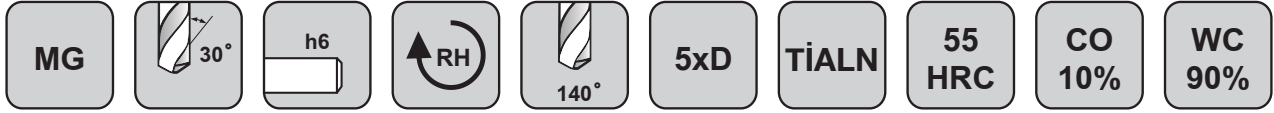
| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.02.4D.020 | 2,0 | 60 | 15 | 12 | 4 | |
| KR.02.4D.021 | 2,1 | 60 | 16 | 14 | 4 | |
| KR.02.4D.022 | 2,2 | 60 | 16 | 14 | 4 | |
| KR.02.4D.023 | 2,3 | 60 | 16 | 14 | 4 | |
| KR.02.4D.024 | 2,4 | 60 | 16 | 14 | 4 | |
| KR.02.4D.025 | 2,5 | 60 | 18 | 16 | 4 | |
| KR.02.4D.026 | 2,6 | 60 | 18 | 16 | 4 | |
| KR.02.4D.027 | 2,7 | 60 | 18 | 16 | 4 | |
| KR.02.4D.028 | 2,8 | 60 | 19 | 17 | 4 | |
| KR.02.4D.029 | 2,9 | 60 | 20 | 18 | 4 | |
| KR.02.5D.030 | 3,0 | 66 | 28 | 23 | 6 | |
| KR.02.5D.031 | 3,1 | 66 | 28 | 23 | 6 | |
| KR.02.5D.032 | 3,2 | 66 | 28 | 23 | 6 | |
| KR.02.5D.033 | 3,3 | 66 | 28 | 23 | 6 | |
| KR.02.5D.034 | 3,4 | 66 | 28 | 23 | 6 | |
| KR.02.5D.035 | 3,5 | 66 | 28 | 23 | 6 | |
| KR.02.5D.036 | 3,6 | 66 | 28 | 23 | 6 | |
| KR.02.5D.037 | 3,7 | 66 | 28 | 23 | 6 | |
| KR.02.5D.038 | 3,8 | 74 | 36 | 29 | 6 | |
| KR.02.5D.039 | 3,9 | 74 | 36 | 29 | 6 | |
| KR.02.5D.040 | 4,0 | 74 | 36 | 29 | 6 | |
| KR.02.5D.041 | 4,1 | 74 | 36 | 29 | 6 | |
| KR.02.5D.042 | 4,2 | 74 | 36 | 29 | 6 | |
| KR.02.5D.043 | 4,3 | 74 | 36 | 29 | 6 | |
| KR.02.5D.044 | 4,4 | 74 | 36 | 29 | 6 | |
| KR.02.5D.045 | 4,5 | 74 | 36 | 29 | 6 | |
| KR.02.5D.046 | 4,6 | 74 | 36 | 29 | 6 | |
| KR.02.5D.047 | 4,7 | 74 | 36 | 29 | 6 | |
| KR.02.5D.048 | 4,8 | 82 | 44 | 35 | 6 | |
| KR.02.5D.049 | 4,9 | 82 | 44 | 35 | 6 | |
| KR.02.5D.050 | 5,0 | 82 | 44 | 35 | 6 | |
| KR.02.5D.051 | 5,1 | 82 | 44 | 35 | 6 | |
| KR.02.5D.052 | 5,2 | 82 | 44 | 35 | 6 | |

| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.02.5D.053 | 5,3 | 82 | 44 | 35 | 6 | |
| KR.02.5D.054 | 5,4 | 82 | 44 | 35 | 6 | |
| KR.02.5D.055 | 5,5 | 82 | 44 | 35 | 6 | |
| KR.02.5D.056 | 5,6 | 82 | 44 | 35 | 6 | |
| KR.02.5D.057 | 5,7 | 82 | 44 | 35 | 6 | |
| KR.02.5D.058 | 5,8 | 82 | 44 | 35 | 6 | |
| KR.02.5D.059 | 5,9 | 82 | 44 | 35 | 6 | |
| KR.02.5D.060 | 6,0 | 82 | 44 | 35 | 6 | |
| KR.02.5D.061 | 6,1 | 91 | 53 | 43 | 8 | |
| KR.02.5D.062 | 6,2 | 91 | 53 | 43 | 8 | |
| KR.02.5D.063 | 6,3 | 91 | 53 | 43 | 8 | |
| KR.02.5D.064 | 6,4 | 91 | 53 | 43 | 8 | |
| KR.02.5D.065 | 6,5 | 91 | 53 | 43 | 8 | |
| KR.02.5D.066 | 6,6 | 91 | 53 | 43 | 8 | |
| KR.02.5D.067 | 6,7 | 91 | 53 | 43 | 8 | |
| KR.02.5D.068 | 6,8 | 91 | 53 | 43 | 8 | |
| KR.02.5D.069 | 6,9 | 91 | 53 | 43 | 8 | |
| KR.02.5D.070 | 7,0 | 91 | 53 | 43 | 8 | |
| KR.02.5D.071 | 7,1 | 91 | 53 | 43 | 8 | |
| KR.02.5D.072 | 7,2 | 91 | 53 | 43 | 8 | |
| KR.02.5D.073 | 7,3 | 91 | 53 | 43 | 8 | |
| KR.02.5D.074 | 7,4 | 91 | 53 | 43 | 8 | |
| KR.02.5D.075 | 7,5 | 91 | 53 | 43 | 8 | |
| KR.02.5D.076 | 7,6 | 91 | 53 | 43 | 8 | |
| KR.02.5D.077 | 7,7 | 91 | 53 | 43 | 8 | |
| KR.02.5D.078 | 7,8 | 91 | 53 | 43 | 8 | |
| KR.02.5D.079 | 7,9 | 91 | 53 | 43 | 8 | |
| KR.02.5D.080 | 8,0 | 91 | 53 | 43 | 8 | |
| KR.02.5D.081 | 8,1 | 103 | 61 | 49 | 10 | |
| KR.02.5D.082 | 8,2 | 103 | 61 | 49 | 10 | |
| KR.02.5D.083 | 8,3 | 103 | 61 | 49 | 10 | |
| KR.02.5D.084 | 8,4 | 103 | 61 | 49 | 10 | |
| KR.02.5D.085 | 8,5 | 103 | 61 | 49 | 10 | |



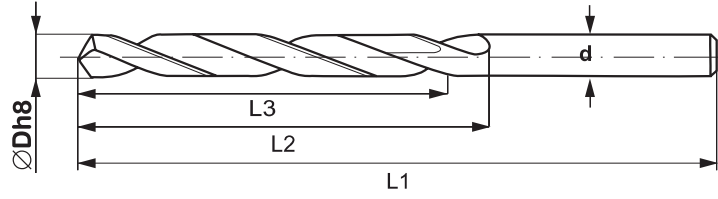
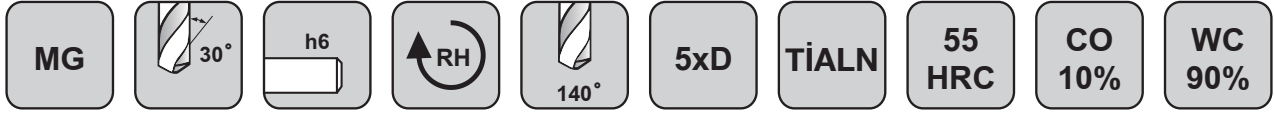
| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.02.5D.086 | 8,6 | 103 | 61 | 49 | 10 | |
| KR.02.5D.087 | 8,7 | 103 | 61 | 49 | 10 | |
| KR.02.5D.088 | 8,8 | 103 | 61 | 49 | 10 | |
| KR.02.5D.089 | 8,9 | 103 | 61 | 49 | 10 | |
| KR.02.5D.090 | 9,0 | 103 | 61 | 49 | 10 | |
| KR.02.5D.091 | 9,1 | 103 | 61 | 49 | 10 | |
| KR.02.5D.092 | 9,2 | 103 | 61 | 49 | 10 | |
| KR.02.5D.093 | 9,3 | 103 | 61 | 49 | 10 | |
| KR.02.5D.094 | 9,4 | 103 | 61 | 49 | 10 | |
| KR.02.5D.095 | 9,5 | 103 | 61 | 49 | 10 | |
| KR.02.5D.096 | 9,6 | 103 | 61 | 49 | 10 | |
| KR.02.5D.097 | 9,7 | 103 | 61 | 49 | 10 | |
| KR.02.5D.098 | 9,8 | 103 | 61 | 49 | 10 | |
| KR.02.5D.099 | 9,9 | 103 | 61 | 49 | 10 | |
| KR.02.5D.100 | 10,0 | 103 | 61 | 49 | 10 | |
| KR.02.5D.101 | 10,1 | 118 | 71 | 56 | 12 | |
| KR.02.5D.102 | 10,2 | 118 | 71 | 56 | 12 | |
| KR.02.5D.103 | 10,3 | 118 | 71 | 56 | 12 | |
| KR.02.5D.104 | 10,4 | 118 | 71 | 56 | 12 | |
| KR.02.5D.105 | 10,5 | 118 | 71 | 56 | 12 | |
| KR.02.5D.106 | 10,6 | 118 | 71 | 56 | 12 | |
| KR.02.5D.107 | 10,7 | 118 | 71 | 56 | 12 | |
| KR.02.5D.108 | 10,8 | 118 | 71 | 56 | 12 | |
| KR.02.5D.109 | 10,9 | 118 | 71 | 56 | 12 | |
| KR.02.5D.110 | 11,0 | 118 | 71 | 56 | 12 | |
| KR.02.5D.111 | 11,1 | 118 | 71 | 56 | 12 | |
| KR.02.5D.112 | 11,2 | 118 | 71 | 56 | 12 | |
| KR.02.5D.113 | 11,3 | 118 | 71 | 56 | 12 | |
| KR.02.5D.114 | 11,4 | 118 | 71 | 56 | 12 | |
| KR.02.5D.115 | 11,5 | 118 | 71 | 56 | 12 | |
| KR.02.5D.116 | 11,6 | 118 | 71 | 56 | 12 | |
| KR.02.5D.117 | 11,7 | 118 | 71 | 56 | 12 | |

| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.02.5D.118 | 11,8 | 118 | 71 | 56 | 12 | |
| KR.02.5D.119 | 11,9 | 118 | 71 | 56 | 12 | |
| KR.02.5D.120 | 12,0 | 118 | 71 | 56 | 12 | |
| KR.02.5D.121 | 12,1 | 124 | 77 | 60 | 14 | |
| KR.02.5D.122 | 12,2 | 124 | 77 | 60 | 14 | |
| KR.02.5D.123 | 12,3 | 124 | 77 | 60 | 14 | |
| KR.02.5D.124 | 12,4 | 124 | 77 | 60 | 14 | |
| KR.02.5D.125 | 12,5 | 124 | 77 | 60 | 14 | |
| KR.02.5D.126 | 12,6 | 124 | 77 | 60 | 14 | |
| KR.02.5D.127 | 12,7 | 124 | 77 | 60 | 14 | |
| KR.02.5D.128 | 12,8 | 124 | 77 | 60 | 14 | |
| KR.02.5D.129 | 12,9 | 124 | 77 | 60 | 14 | |
| KR.02.5D.130 | 13,0 | 124 | 77 | 60 | 14 | |
| KR.02.5D.135 | 13,5 | 124 | 77 | 60 | 14 | |
| KR.02.5D.138 | 13,8 | 124 | 77 | 60 | 14 | |
| KR.02.5D.140 | 14,0 | 124 | 77 | 60 | 14 | |
| KR.02.5D.141 | 14,1 | 133 | 83 | 63 | 16 | |
| KR.02.5D.142 | 14,2 | 133 | 83 | 63 | 16 | |
| KR.02.5D.145 | 14,5 | 133 | 83 | 63 | 16 | |
| KR.02.5D.148 | 14,8 | 133 | 83 | 63 | 16 | |
| KR.02.5D.150 | 15,0 | 133 | 83 | 63 | 16 | |
| KR.02.5D.155 | 15,5 | 133 | 83 | 63 | 16 | |
| KR.02.5D.158 | 15,8 | 133 | 83 | 63 | 16 | |
| KR.02.5D.160 | 16,0 | 133 | 83 | 63 | 16 | |
| KR.02.5D.165 | 16,5 | 143 | 93 | 71 | 18 | |
| KR.02.5D.170 | 17,0 | 143 | 93 | 71 | 18 | |
| KR.02.5D.175 | 17,5 | 143 | 93 | 71 | 18 | |
| KR.02.5D.180 | 18,0 | 143 | 93 | 71 | 18 | |
| KR.02.5D.185 | 18,5 | 153 | 101 | 77 | 20 | |
| KR.02.5D.190 | 19,0 | 153 | 101 | 77 | 20 | |
| KR.02.5D.195 | 19,5 | 153 | 101 | 77 | 20 | |
| KR.02.5D.200 | 20,0 | 153 | 101 | 77 | 20 | |



| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.04.4D.020 | 2,0 | 60 | 15 | 12 | 4 | |
| KR.04.4D.021 | 2,1 | 60 | 16 | 14 | 4 | |
| KR.04.4D.022 | 2,2 | 60 | 16 | 14 | 4 | |
| KR.04.4D.023 | 2,3 | 60 | 16 | 14 | 4 | |
| KR.04.4D.024 | 2,4 | 60 | 16 | 14 | 4 | |
| KR.04.4D.025 | 2,5 | 60 | 18 | 16 | 4 | |
| KR.04.4D.026 | 2,6 | 60 | 18 | 16 | 4 | |
| KR.04.4D.027 | 2,7 | 60 | 18 | 16 | 4 | |
| KR.04.4D.028 | 2,8 | 60 | 19 | 17 | 4 | |
| KR.04.4D.029 | 2,9 | 60 | 20 | 18 | 4 | |
| KR.04.5D.030 | 3,0 | 66 | 28 | 23 | 6 | |
| KR.04.5D.031 | 3,1 | 66 | 28 | 23 | 6 | |
| KR.04.5D.032 | 3,2 | 66 | 28 | 23 | 6 | |
| KR.04.5D.033 | 3,3 | 66 | 28 | 23 | 6 | |
| KR.04.5D.034 | 3,4 | 66 | 28 | 23 | 6 | |
| KR.04.5D.035 | 3,5 | 66 | 28 | 23 | 6 | |
| KR.04.5D.036 | 3,6 | 66 | 28 | 23 | 6 | |
| KR.04.5D.037 | 3,7 | 66 | 28 | 23 | 6 | |
| KR.04.5D.038 | 3,8 | 74 | 36 | 29 | 6 | |
| KR.04.5D.039 | 3,9 | 74 | 36 | 29 | 6 | |
| KR.04.5D.040 | 4,0 | 74 | 36 | 29 | 6 | |
| KR.04.5D.041 | 4,1 | 74 | 36 | 29 | 6 | |
| KR.04.5D.042 | 4,2 | 74 | 36 | 29 | 6 | |
| KR.04.5D.043 | 4,3 | 74 | 36 | 29 | 6 | |
| KR.04.5D.044 | 4,4 | 74 | 36 | 29 | 6 | |
| KR.04.5D.045 | 4,5 | 74 | 36 | 29 | 6 | |
| KR.04.5D.046 | 4,6 | 74 | 36 | 29 | 6 | |
| KR.04.5D.047 | 4,7 | 74 | 36 | 29 | 6 | |
| KR.04.5D.048 | 4,8 | 82 | 44 | 35 | 6 | |
| KR.04.5D.049 | 4,9 | 82 | 44 | 35 | 6 | |
| KR.04.5D.050 | 5,0 | 82 | 44 | 35 | 6 | |
| KR.04.5D.051 | 5,1 | 82 | 44 | 35 | 6 | |
| KR.04.5D.052 | 5,2 | 82 | 44 | 35 | 6 | |

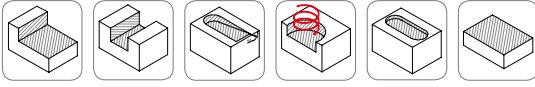
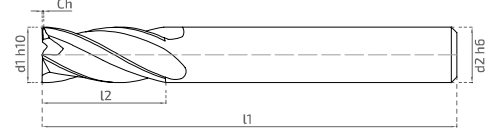
| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.04.5D.053 | 5,3 | 82 | 44 | 35 | 6 | |
| KR.04.5D.054 | 5,4 | 82 | 44 | 35 | 6 | |
| KR.04.5D.055 | 5,5 | 82 | 44 | 35 | 6 | |
| KR.04.5D.056 | 5,6 | 82 | 44 | 35 | 6 | |
| KR.04.5D.057 | 5,7 | 82 | 44 | 35 | 6 | |
| KR.04.5D.058 | 5,8 | 82 | 44 | 35 | 6 | |
| KR.04.5D.059 | 5,9 | 82 | 44 | 35 | 6 | |
| KR.04.5D.060 | 6,0 | 82 | 44 | 35 | 6 | |
| KR.04.5D.061 | 6,1 | 91 | 53 | 43 | 8 | |
| KR.04.5D.062 | 6,2 | 91 | 53 | 43 | 8 | |
| KR.04.5D.063 | 6,3 | 91 | 53 | 43 | 8 | |
| KR.04.5D.064 | 6,4 | 91 | 53 | 43 | 8 | |
| KR.04.5D.065 | 6,5 | 91 | 53 | 43 | 8 | |
| KR.04.5D.066 | 6,6 | 91 | 53 | 43 | 8 | |
| KR.04.5D.067 | 6,7 | 91 | 53 | 43 | 8 | |
| KR.04.5D.068 | 6,8 | 91 | 53 | 43 | 8 | |
| KR.04.5D.069 | 6,9 | 91 | 53 | 43 | 8 | |
| KR.04.5D.070 | 7,0 | 91 | 53 | 43 | 8 | |
| KR.04.5D.071 | 7,1 | 91 | 53 | 43 | 8 | |
| KR.04.5D.072 | 7,2 | 91 | 53 | 43 | 8 | |
| KR.04.5D.073 | 7,3 | 91 | 53 | 43 | 8 | |
| KR.04.5D.074 | 7,4 | 91 | 53 | 43 | 8 | |
| KR.04.5D.075 | 7,5 | 91 | 53 | 43 | 8 | |
| KR.04.5D.076 | 7,6 | 91 | 53 | 43 | 8 | |
| KR.04.5D.077 | 7,7 | 91 | 53 | 43 | 8 | |
| KR.04.5D.078 | 7,8 | 91 | 53 | 43 | 8 | |
| KR.04.5D.079 | 7,9 | 91 | 53 | 43 | 8 | |
| KR.04.5D.080 | 8,0 | 91 | 53 | 43 | 8 | |
| KR.04.5D.081 | 8,1 | 103 | 61 | 49 | 10 | |
| KR.04.5D.082 | 8,2 | 103 | 61 | 49 | 10 | |
| KR.04.5D.083 | 8,3 | 103 | 61 | 49 | 10 | |
| KR.04.5D.084 | 8,4 | 103 | 61 | 49 | 10 | |
| KR.04.5D.085 | 8,5 | 103 | 61 | 49 | 10 | |



| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.04.5D.086 | 8,6 | 103 | 61 | 49 | 10 | |
| KR.04.5D.087 | 8,7 | 103 | 61 | 49 | 10 | |
| KR.04.5D.088 | 8,8 | 103 | 61 | 49 | 10 | |
| KR.04.5D.089 | 8,9 | 103 | 61 | 49 | 10 | |
| KR.04.5D.090 | 9,0 | 103 | 61 | 49 | 10 | |
| KR.04.5D.091 | 9,1 | 103 | 61 | 49 | 10 | |
| KR.04.5D.092 | 9,2 | 103 | 61 | 49 | 10 | |
| KR.04.5D.093 | 9,3 | 103 | 61 | 49 | 10 | |
| KR.04.5D.094 | 9,4 | 103 | 61 | 49 | 10 | |
| KR.04.5D.095 | 9,5 | 103 | 61 | 49 | 10 | |
| KR.04.5D.096 | 9,6 | 103 | 61 | 49 | 10 | |
| KR.04.5D.097 | 9,7 | 103 | 61 | 49 | 10 | |
| KR.04.5D.098 | 9,8 | 103 | 61 | 49 | 10 | |
| KR.04.5D.099 | 9,9 | 103 | 61 | 49 | 10 | |
| KR.04.5D.100 | 10,0 | 103 | 61 | 49 | 10 | |
| KR.04.5D.101 | 10,1 | 118 | 71 | 56 | 12 | |
| KR.04.5D.102 | 10,2 | 118 | 71 | 56 | 12 | |
| KR.04.5D.103 | 10,3 | 118 | 71 | 56 | 12 | |
| KR.04.5D.104 | 10,4 | 118 | 71 | 56 | 12 | |
| KR.04.5D.105 | 10,5 | 118 | 71 | 56 | 12 | |
| KR.04.5D.106 | 10,6 | 118 | 71 | 56 | 12 | |
| KR.04.5D.107 | 10,7 | 118 | 71 | 56 | 12 | |
| KR.04.5D.108 | 10,8 | 118 | 71 | 56 | 12 | |
| KR.04.5D.109 | 10,9 | 118 | 71 | 56 | 12 | |
| KR.04.5D.110 | 11,0 | 118 | 71 | 56 | 12 | |
| KR.04.5D.111 | 11,1 | 118 | 71 | 56 | 12 | |
| KR.04.5D.112 | 11,2 | 118 | 71 | 56 | 12 | |
| KR.04.5D.113 | 11,3 | 118 | 71 | 56 | 12 | |
| KR.04.5D.114 | 11,4 | 118 | 71 | 56 | 12 | |
| KR.04.5D.115 | 11,5 | 118 | 71 | 56 | 12 | |
| KR.04.5D.116 | 11,6 | 118 | 71 | 56 | 12 | |
| KR.04.5D.117 | 11,7 | 118 | 71 | 56 | 12 | |

| KOD | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | d (mm) | FİYAT EUR |
|--------------|--------|---------|---------|---------|--------|-----------|
| KR.04.5D.118 | 11,8 | 118 | 71 | 56 | 12 | |
| KR.04.5D.119 | 11,9 | 118 | 71 | 56 | 12 | |
| KR.04.5D.120 | 12,0 | 118 | 71 | 56 | 12 | |
| KR.04.5D.121 | 12,1 | 124 | 77 | 60 | 14 | |
| KR.04.5D.122 | 12,2 | 124 | 77 | 60 | 14 | |
| KR.04.5D.123 | 12,3 | 124 | 77 | 60 | 14 | |
| KR.04.5D.124 | 12,4 | 124 | 77 | 60 | 14 | |
| KR.04.5D.125 | 12,5 | 124 | 77 | 60 | 14 | |
| KR.04.5D.126 | 12,6 | 124 | 77 | 60 | 14 | |
| KR.04.5D.127 | 12,7 | 124 | 77 | 60 | 14 | |
| KR.04.5D.128 | 12,8 | 124 | 77 | 60 | 14 | |
| KR.04.5D.129 | 12,9 | 124 | 77 | 60 | 14 | |
| KR.04.5D.130 | 13,0 | 124 | 77 | 60 | 14 | |
| KR.04.5D.135 | 13,5 | 124 | 77 | 60 | 14 | |
| KR.04.5D.138 | 13,8 | 124 | 77 | 60 | 14 | |
| KR.04.5D.140 | 14,0 | 124 | 77 | 60 | 14 | |
| KR.04.5D.141 | 14,1 | 133 | 83 | 63 | 16 | |
| KR.04.5D.142 | 14,2 | 133 | 83 | 63 | 16 | |
| KR.04.5D.145 | 14,5 | 133 | 83 | 63 | 16 | |
| KR.04.5D.148 | 14,8 | 133 | 83 | 63 | 16 | |
| KR.04.5D.150 | 15,0 | 133 | 83 | 63 | 16 | |
| KR.04.5D.155 | 15,5 | 133 | 83 | 63 | 16 | |
| KR.04.5D.158 | 15,8 | 133 | 83 | 63 | 16 | |
| KR.04.5D.160 | 16,0 | 133 | 83 | 63 | 16 | |
| KR.04.5D.165 | 16,5 | 143 | 93 | 71 | 18 | |
| KR.04.5D.170 | 17,0 | 143 | 93 | 71 | 18 | |
| KR.04.5D.175 | 17,5 | 143 | 93 | 71 | 18 | |
| KR.04.5D.180 | 18,0 | 143 | 93 | 71 | 18 | |
| KR.04.5D.185 | 18,5 | 153 | 101 | 77 | 20 | |
| KR.04.5D.190 | 19,0 | 153 | 101 | 77 | 20 | |
| KR.04.5D.195 | 19,5 | 153 | 101 | 77 | 20 | |
| KR.04.5D.200 | 20,0 | 153 | 101 | 77 | 20 | |

STANDART KISA KARBÜR PARMAK FREZE

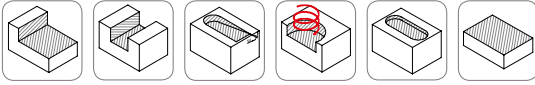
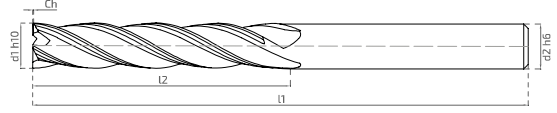


| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | KÖŞE PAH | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|----------|---|-----------|
| KR.81000 | 1 | 3 | 50 | 4 | 0 | 4 | |
| KR.81050 | 1,5 | 6 | 50 | 4 | 0 | 4 | |
| KR.81100 | 2 | 7 | 50 | 4 | 0 | 4 | |
| KR.81150 | 2,5 | 9 | 50 | 4 | 0 | 4 | |
| KR.81200 | 3 | 9 | 38 | 3 | 0 | 4 | |
| KR.81201 | 3 | 9 | 50 | 4 | 0 | 4 | |
| KR.81300 | 4 | 14 | 51 | 4 | 0,1 | 4 | |
| KR.81400 | 5 | 15 | 51 | 5 | 0,1 | 4 | |
| KR.81450 | 6 | 15 | 58 | 6 | 0,1 | 4 | |
| KR.81500 | 7 | 15 | 64 | 8 | 0,1 | 4 | |
| KR.81550 | 8 | 20 | 64 | 8 | 0,1 | 4 | |
| KR.81600 | 9 | 21 | 73 | 10 | 0,1 | 4 | |
| KR.81650 | 10 | 21 | 73 | 10 | 0,1 | 4 | |
| KR.81700 | 11 | 25 | 82 | 12 | 0,1 | 4 | |
| KR.81750 | 12 | 25 | 82 | 12 | 0,15 | 4 | |
| KR.81790 | 13 | 30 | 82 | 14 | 0,15 | 4 | |
| KR.81800 | 14 | 30 | 82 | 14 | 0,15 | 4 | |
| KR.81840 | 15 | 35 | 93 | 16 | 0,1 | 4 | |
| KR.81850 | 16 | 35 | 93 | 16 | 0,1 | 4 | |
| KR.81900 | 18 | 38 | 93 | 18 | 0,1 | 4 | |
| KR.81950 | 20 | 38 | 105 | 20 | 0,15 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

STANDART UZUN KARBÜR PARMAK FREZE

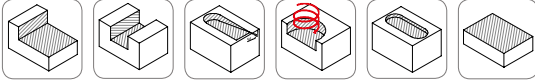
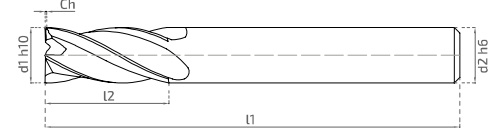


| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | KÖŞE PAH | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|----------|---|-----------|
| KR.83010 | 1 | 9 | 50 | 4 | 0 | 4 | |
| KR.83015 | 1,5 | 9 | 50 | 4 | 0 | 4 | |
| KR.83020 | 2 | 12 | 50 | 4 | 0 | 4 | |
| KR.83030 | 3 | 15 | 75 | 3 | 0,1 | 4 | |
| KR.83050 | 4 | 20 | 75 | 4 | 0,1 | 4 | |
| KR.83100 | 5 | 20 | 75 | 5 | 0,1 | 4 | |
| KR.83150 | 6 | 25 | 75 | 6 | 0,1 | 4 | |
| KR.83170 | 6 | 30 | 100 | 6 | 0,1 | 4 | |
| KR.83200 | 8 | 35 | 100 | 8 | 0,1 | 4 | |
| KR.83250 | 10 | 40 | 110 | 10 | 0,1 | 4 | |
| KR.83300 | 12 | 45 | 110 | 12 | 0,15 | 4 | |
| KR.83320 | 12 | 60 | 150 | 12 | 0,15 | 4 | |
| KR.83350 | 14 | 60 | 150 | 14 | 0,15 | 4 | |
| KR.83400 | 16 | 75 | 150 | 16 | 0,15 | 4 | |
| KR.83450 | 18 | 75 | 150 | 18 | 0,15 | 4 | |
| KR.83500 | 20 | 75 | 150 | 20 | 0,15 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

STANDART KISA ECOPLUS KARBÜR PARMAK FREZE



| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | KÖŞE PAH | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|----------|---|-----------|
| KR.71200 | 3 | 12 | 50 | 4 | 0 | 4 | |
| KR.71300 | 4 | 14 | 50 | 4 | 0,1 | 4 | |
| KR.71400 | 5 | 16 | 50 | 5 | 0,1 | 4 | |
| KR.71450 | 6 | 19 | 50 | 6 | 0,1 | 4 | |
| KR.71550 | 8 | 20 | 60 | 8 | 0,1 | 4 | |
| KR.71650 | 10 | 22 | 70 | 10 | 0,1 | 4 | |
| KR.71750 | 12 | 25 | 75 | 12 | 0,15 | 4 | |
| KR.71800 | 14 | 30 | 85 | 14 | 0,15 | 4 | |
| KR.71850 | 16 | 35 | 92 | 16 | 0,1 | 4 | |
| KR.71900 | 18 | 38 | 92 | 18 | 0,1 | 4 | |
| KR.71950 | 20 | 38 | 100 | 20 | 0,15 | 4 | |
| KR.72000 | 22 | 38 | 100 | 22 | 0,15 | 4 | |
| KR.72030 | 24 | 38 | 100 | 24 | 0,15 | 4 | |
| KR.72050 | 25 | 38 | 100 | 25 | 0,15 | 4 | |

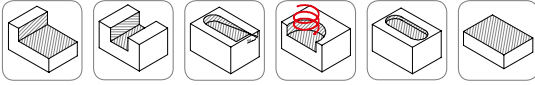
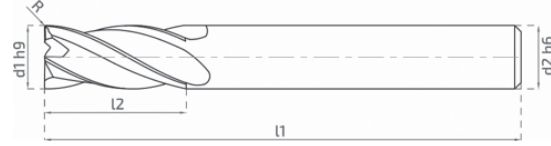
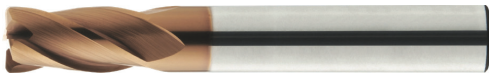
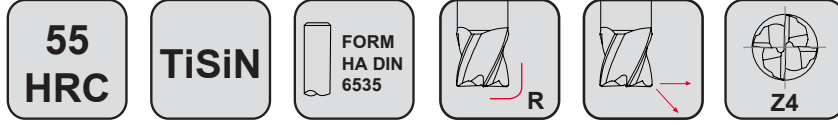
STANDART UZUN ECOPLUS KARBÜR PARMAK FREZE

| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | KÖŞE PAH | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|----------|---|-----------|
| KR.73030 | 3 | 20 | 75 | 3 | 0,1 | 4 | |
| KR.73050 | 4 | 20 | 75 | 4 | 0,1 | 4 | |
| KR.73100 | 5 | 20 | 75 | 5 | 0,1 | 4 | |
| KR.73150 | 6 | 25 | 75 | 6 | 0,1 | 4 | |
| KR.73200 | 8 | 45 | 100 | 8 | 0,1 | 4 | |
| KR.73250 | 10 | 45 | 100 | 10 | 0,1 | 4 | |
| KR.73300 | 12 | 45 | 100 | 12 | 0,15 | 4 | |
| KR.73350 | 14 | 60 | 150 | 14 | 0,15 | 4 | |
| KR.73400 | 16 | 75 | 150 | 16 | 0,15 | 4 | |
| KR.73450 | 18 | 75 | 150 | 18 | 0,15 | 4 | |
| KR.73500 | 20 | 75 | 150 | 20 | 0,15 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

KISA KÖŞE RADYÜS KARBÜR PARMAK FREZE

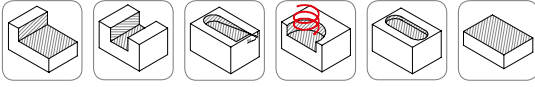
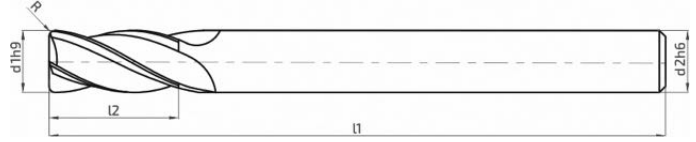
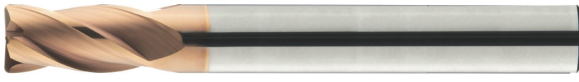
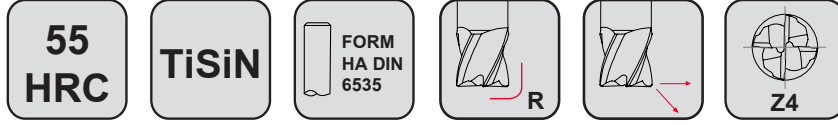


| KOD | d1 h9 | L2 (mm) | L1 (mm) | d2 h6 | R | Z | FİYAT EUR |
|---------------|----------|---------|---------|----------|-----|---|-----------|
| KR.81200R0.50 | 3 | 8 | 50 | 4 | 0,5 | 4 | |
| KR.81200R1.00 | 3 | 8 | 50 | 4 | 1 | 4 | |
| KR.81300R0.50 | 4 | 10 | 50 | 4 | 0,5 | 4 | |
| KR.81300R1.00 | 4 | 10 | 50 | 4 | 1 | 4 | |
| KR.81400R0.50 | 5 | 13 | 50 | 5 | 0,5 | 4 | |
| KR.81400R1.00 | 5 | 13 | 50 | 5 | 1 | 4 | |
| KR.81450R0.50 | 6 | 15 | 50 | 6 | 0,5 | 4 | |
| KR.81450R1.00 | 6 | 15 | 50 | 6 | 1 | 4 | |
| KR.81550R0.50 | 8 | 20 | 60 | 8 | 0,5 | 4 | |
| KR.81550R1.00 | 8 | 20 | 60 | 8 | 1 | 4 | |
| KR.81650R0.50 | 10 | 25 | 75 | 10 | 0,5 | 4 | |
| KR.81650R1.00 | 10 | 25 | 75 | 10 | 1 | 4 | |
| KR.81750R0.50 | 12 | 30 | 75 | 12 | 0,5 | 4 | |
| KR.81750R1.00 | 12 | 30 | 75 | 12 | 1 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

UZUN KÖŞE RADYÜS KARBÜR PARMAK FREZE

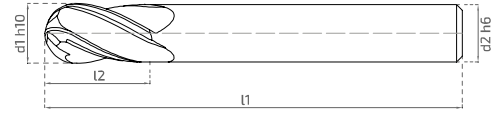


| KOD | d1 h9 | L2 (mm) | L1 (mm) | d2 h6 | R | Z | FİYAT EUR |
|---------------|----------|---------|---------|----------|-----|---|-----------|
| KR.83030R0.50 | 3 | 8 | 75 | 3 | 0,5 | 4 | |
| KR.83030R1.00 | 3 | 8 | 75 | 3 | 1 | 4 | |
| KR.83050R0.50 | 4 | 10 | 75 | 4 | 0,5 | 4 | |
| KR.83050R1.00 | 4 | 10 | 75 | 4 | 1 | 4 | |
| KR.83100R0.50 | 5 | 15 | 75 | 5 | 0,5 | 4 | |
| KR.83100R1.00 | 5 | 15 | 75 | 5 | 1 | 4 | |
| KR.83150R0.50 | 6 | 15 | 100 | 6 | 0,5 | 4 | |
| KR.83150R1.00 | 6 | 15 | 100 | 6 | 1 | 4 | |
| KR.83200R0.50 | 8 | 20 | 100 | 8 | 0,5 | 4 | |
| KR.83200R1.00 | 8 | 20 | 100 | 8 | 1 | 4 | |
| KR.83250R0.50 | 10 | 25 | 100 | 10 | 0,5 | 4 | |
| KR.83250R1.00 | 10 | 25 | 100 | 10 | 1 | 4 | |
| KR.83300R0.50 | 12 | 30 | 100 | 12 | 0,5 | 4 | |
| KR.83300R1.00 | 12 | 30 | 100 | 12 | 1 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

4 AĞIZ KÜRESEL KISA KARBÜR PARMAK FREZE



| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|---|-----------|
| KR.81234 | 3 | 12 | 38 | 3 | 4 | |
| KR.81334 | 4 | 14 | 51 | 4 | 4 | |
| KR.81434 | 5 | 20 | 51 | 5 | 4 | |
| KR.81484 | 6 | 20 | 58 | 6 | 4 | |
| KR.81584 | 8 | 20 | 64 | 8 | 4 | |
| KR.81684 | 10 | 25 | 73 | 10 | 4 | |
| KR.81784 | 12 | 25 | 82 | 12 | 4 | |

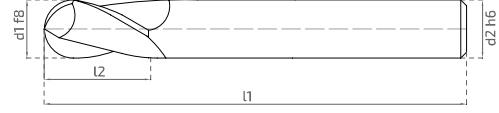
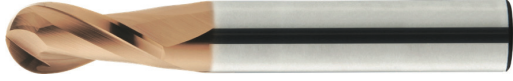
4 AĞIZ KÜRESEL UZUN KARBÜR PARMAK FREZE

| KOD | d1 h10 | L2 (mm) | L1 (mm) | d2 h6 | Z | FİYAT EUR |
|----------|-----------|---------|---------|----------|---|-----------|
| KR.83034 | 3 | 8 | 75 | 3 | 4 | |
| KR.83084 | 4 | 10 | 75 | 4 | 4 | |
| KR.83134 | 5 | 10 | 75 | 5 | 4 | |
| KR.83184 | 6 | 15 | 75 | 6 | 4 | |
| KR.83186 | 6 | 15 | 100 | 6 | 4 | |
| KR.83234 | 8 | 15 | 75 | 8 | 4 | |
| KR.83236 | 8 | 15 | 100 | 8 | 4 | |
| KR.83284 | 10 | 20 | 110 | 10 | 4 | |
| KR.83334 | 12 | 20 | 110 | 12 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

2 AĞIZ KÜRESEL KISA KARBÜR PARMAK FREZE



| KOD | d1 f8 | L2 (mm) | L1 (mm) | d2 h6 | Z | FİYAT EUR |
|----------|----------|---------|---------|----------|---|-----------|
| KR.81035 | 1 | 2,5 | 50 | 4 | 2 | |
| KR.81085 | 1,5 | 4 | 50 | 4 | 2 | |
| KR.81135 | 2 | 5 | 50 | 4 | 2 | |
| KR.81185 | 2,5 | 6 | 50 | 4 | 2 | |
| KR.81235 | 3 | 8 | 50 | 4 | 2 | |
| KR.81335 | 4 | 8 | 51 | 4 | 2 | |
| KR.81435 | 5 | 10 | 51 | 5 | 2 | |
| KR.81485 | 6 | 12 | 58 | 6 | 2 | |
| KR.81585 | 8 | 14 | 64 | 8 | 2 | |
| KR.81685 | 10 | 18 | 73 | 10 | 2 | |
| KR.81785 | 12 | 22 | 82 | 12 | 2 | |

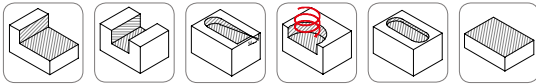
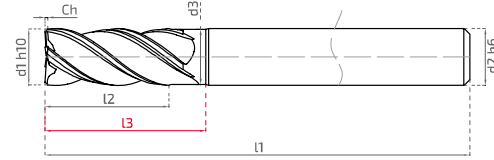
2 AĞIZ KÜRESEL UZUN KARBÜR PARMAK FREZE

| KOD | d1 h9 | L2 (mm) | L1 (mm) | d2 h6 | Z | FİYAT EUR |
|----------|----------|---------|---------|----------|---|-----------|
| KR.83035 | 3 | 8 | 75 | 3 | 2 | |
| KR.83085 | 4 | 10 | 75 | 4 | 2 | |
| KR.83135 | 5 | 10 | 75 | 5 | 2 | |
| KR.83185 | 6 | 10 | 75 | 6 | 2 | |
| KR.83187 | 6 | 15 | 100 | 6 | 2 | |
| KR.83235 | 8 | 15 | 100 | 8 | 2 | |
| KR.83285 | 10 | 20 | 110 | 10 | 2 | |
| KR.83335 | 12 | 22 | 110 | 12 | 2 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

CHATTER FREE KARBÜR PARMAK FREZE

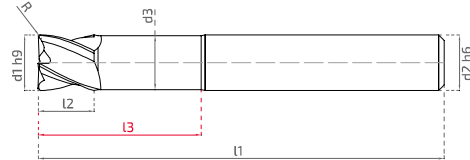
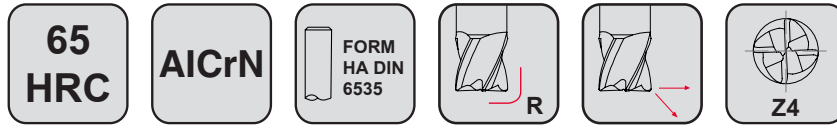


| KOD | d1 h9 | L2 (mm) | L3 (mm) | d3 (mm) | L1 (mm) | d2 h6 | KÖŞE PAH | Z | FİYAT EUR |
|----------|----------|------------|------------|------------|---------|----------|----------|---|-----------|
| KR.81080 | 1 | 2,5 | - | - | 50 | 4 | 0 | 4 | |
| KR.81130 | 2 | 4 | 6 | 1,95 | 50 | 4 | 0,08 | 4 | |
| KR.81180 | 2,5 | 6 | 10 | 2,4 | 58 | 6 | 0,15 | 4 | |
| KR.81230 | 3 | 8 | 12 | 2,8 | 58 | 6 | 0,15 | 4 | |
| KR.81330 | 4 | 11 | 15 | 3,8 | 58 | 6 | 0,15 | 4 | |
| KR.81430 | 5 | 12 | 16 | 4,8 | 58 | 6 | 0,25 | 4 | |
| KR.81480 | 6 | 14 | 19 | 5,8 | 58 | 6 | 0,25 | 4 | |
| KR.81530 | 7 | 19 | 25 | 6,8 | 64 | 8 | 0,3 | 4 | |
| KR.81580 | 8 | 20 | 28 | 7,8 | 64 | 8 | 0,3 | 4 | |
| KR.81680 | 10 | 22 | 32 | 9,7 | 73 | 10 | 0,4 | 4 | |
| KR.81780 | 12 | 27 | 38 | 11,7 | 82 | 12 | 0,5 | 4 | |
| KR.81830 | 14 | 32 | 40 | 13,6 | 82 | 14 | 0,5 | 4 | |
| KR.81880 | 16 | 34 | 49 | 15,5 | 93 | 16 | 0,6 | 4 | |
| KR.81930 | 18 | 35 | 53 | 17,6 | 93 | 18 | 0,6 | 4 | |
| KR.81980 | 20 | 42 | 60 | 19,6 | 105 | 20 | 0,6 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ● | ● | ● | ○ | ○ | ○ | ○ |

KÖŞE RADYÜS KARBÜR PARMAK FREZE

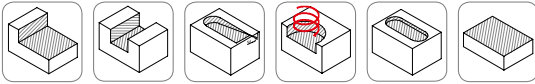
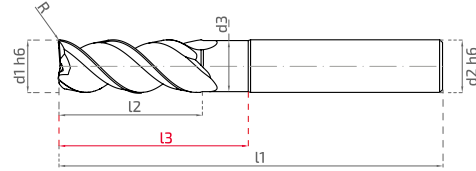
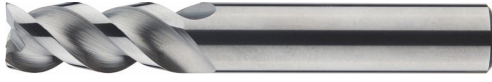
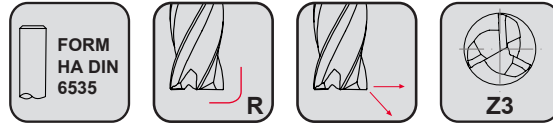


| KOD | d1 h9 | L2 (mm) | L3 (mm) | d3 (mm) | L1 (mm) | d2 h6 | R | z | FİYAT EUR |
|---------------|----------|------------|------------|------------|------------|----------|-----|---|-----------|
| KR.81130R0.50 | 2 | 2 | 12 | 1,9 | 58 | 6 | 0,5 | 4 | |
| KR.81230R0.50 | 3 | 3 | 16 | 2,8 | 58 | 6 | 0,5 | 4 | |
| KR.81230R1.00 | 3 | 3 | 16 | 2,8 | 58 | 6 | 1 | 4 | |
| KR.81330R0.50 | 4 | 4 | 20 | 3,8 | 58 | 6 | 0,5 | 4 | |
| KR.81330R1.00 | 4 | 4 | 20 | 3,8 | 58 | 6 | 1 | 4 | |
| KR.81430R0.50 | 5 | 5 | 18 | 4,8 | 58 | 6 | 0,5 | 4 | |
| KR.81430R1.00 | 5 | 5 | 18 | 4,8 | 58 | 6 | 1 | 4 | |
| KR.81480R0.50 | 6 | 6 | 23 | 5,8 | 58 | 6 | 0,5 | 4 | |
| KR.81480R1.00 | 6 | 6 | 23 | 5,8 | 58 | 6 | 1 | 4 | |
| KR.81580R0.50 | 8 | 8 | 25 | 7,7 | 64 | 8 | 0,5 | 4 | |
| KR.81580R1.00 | 8 | 8 | 25 | 7,7 | 64 | 8 | 1 | 4 | |
| KR.81680R0.50 | 10 | 10 | 32 | 9,7 | 73 | 10 | 0,5 | 4 | |
| KR.81680R1.00 | 10 | 10 | 32 | 9,7 | 73 | 10 | 1 | 4 | |
| KR.81780R0.50 | 12 | 12 | 36 | 11,7 | 82 | 12 | 0,5 | 4 | |
| KR.81780R1.00 | 12 | 12 | 36 | 11,7 | 82 | 12 | 1 | 4 | |
| KR.81780R2.00 | 12 | 12 | 36 | 11,7 | 82 | 12 | 2 | 4 | |
| KR.81880R1.00 | 16 | 16 | 43 | 15,5 | 93 | 16 | 1 | 4 | |
| KR.81880R2.00 | 16 | 16 | 43 | 15,5 | 93 | 16 | 2 | 4 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ |

3 AĞIZ KISA ALÜMİNYUM KARBÜR PARMAK FREZELER



| KOD | d1 h6 | d2 h6 | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | R | z | FİYAT EUR |
|----------|----------|----------|---------|---------|---------|---------|-----|---|-----------|
| KR.88000 | 3 | 6 | 2,8 | 58 | 8 | 13 | 0,2 | 3 | |
| KR.88050 | 4 | 6 | 3,8 | 58 | 13 | 15 | 0,2 | 3 | |
| KR.88100 | 5 | 6 | 4,8 | 58 | 15 | 21 | 0,2 | 3 | |
| KR.88150 | 6 | 6 | 5,7 | 58 | 15 | 26 | 0,2 | 3 | |
| KR.88200 | 8 | 8 | 7,7 | 64 | 22 | 30 | 0,2 | 3 | |
| KR.88250 | 10 | 10 | 9,7 | 73 | 25 | 35 | 0,2 | 3 | |
| KR.88300 | 12 | 12 | 11,7 | 82 | 28 | 40 | 0,2 | 3 | |
| KR.88350 | 14 | 14 | 13,7 | 82 | 28 | 40 | 0,2 | 3 | |
| KR.88400 | 16 | 16 | 15,7 | 93 | 37 | 53 | 0,2 | 3 | |
| KR.88450 | 20 | 20 | 19,7 | 105 | 38 | 54 | 0,2 | 3 | |

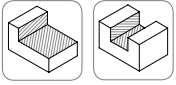
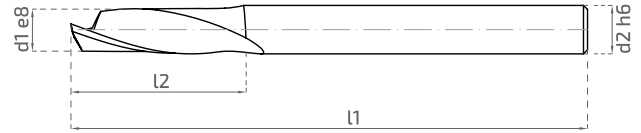
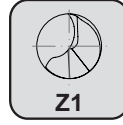
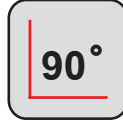
3 AĞIZ UZUN ALÜMİNYUM KARBÜR PARMAK FREZELER

| KOD | d1 h6 | d2 h6 | d3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | R | z | FİYAT EUR |
|----------|----------|----------|---------|---------|---------|---------|-----|---|-----------|
| KR.88500 | 3 | 6 | 2,8 | 75 | 8 | 13 | 0,2 | 3 | |
| KR.88550 | 4 | 6 | 3,8 | 75 | 13 | 15 | 0,2 | 3 | |
| KR.88600 | 5 | 6 | 4,8 | 75 | 15 | 21 | 0,2 | 3 | |
| KR.88650 | 6 | 6 | 5,7 | 108 | 15 | 45 | 0,2 | 3 | |
| KR.88700 | 8 | 8 | 7,7 | 108 | 18 | 62 | 0,2 | 3 | |
| KR.88750 | 10 | 10 | 9,7 | 108 | 20 | 62 | 0,2 | 3 | |
| KR.88800 | 12 | 12 | 11,7 | 125 | 25 | 105 | 0,2 | 3 | |
| KR.88850 | 14 | 14 | 13,7 | 125 | 25 | 105 | 0,2 | 3 | |
| KR.88900 | 16 | 16 | 15,7 | 160 | 30 | 110 | 0,2 | 3 | |
| KR.88950 | 20 | 20 | 19,7 | 200 | 30 | 115 | 0,2 | 3 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ |

TEK AĞIZ ALÜMİNYUM KARBÜR PARMAK FREZELER

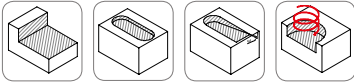
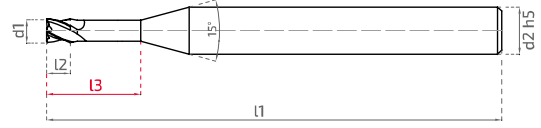
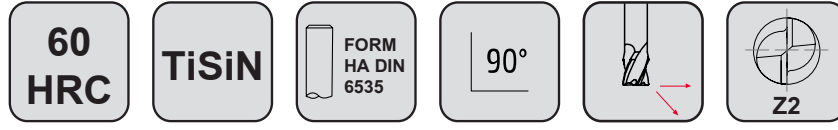


| KOD | d1 e8 | d2 h6 | L1 (mm) | L2 (mm) | Z | FİYAT EUR |
|-------------|----------|----------|---------|---------|---|-----------|
| KR.901.1105 | 3 | 3 | 50 | 8 | 1 | |
| KR.901.1110 | 4 | 4 | 64 | 12 | 1 | |
| KR.901.1111 | 4 | 4 | 64 | 20 | 1 | |
| KR.901.1114 | 5 | 5 | 64 | 16 | 1 | |
| KR.901.1119 | 6 | 6 | 64 | 20 | 1 | |
| KR.901.1120 | 6 | 6 | 76 | 30 | 1 | |
| KR.901.1122 | 8 | 8 | 64 | 25 | 1 | |
| KR.901.1123 | 8 | 8 | 76 | 38 | 1 | |
| KR.901.1124 | 10 | 10 | 76 | 30 | 1 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRc | Sertleştirilmiş Çelik >54 HRc | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ |

MİKRO DÜZ KARBÜR PARMAK FREZE

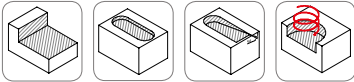
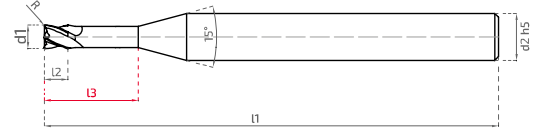
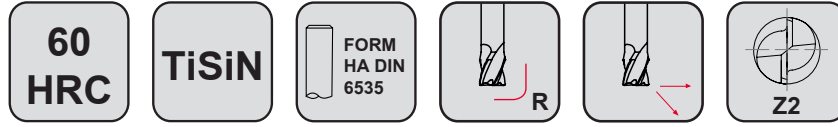


| KOD | d1 (mm) | L2 (mm) | L3 (mm) | L1 (mm) | d2 h5 | Z | FİYAT EUR |
|----------|---------|---------|---------|---------|-------|---|-----------|
| KR.80110 | 0,5 | 0,5 | 2 | 50 | 4 | 2 | |
| KR.80111 | 0,5 | 0,5 | 3 | 50 | 4 | 2 | |
| KR.80112 | 0,5 | 0,5 | 4 | 50 | 4 | 2 | |
| KR.80120 | 1 | 1 | 2 | 50 | 4 | 2 | |
| KR.80121 | 1 | 1 | 4 | 50 | 4 | 2 | |
| KR.80122 | 1 | 1 | 6 | 50 | 4 | 2 | |
| KR.80123 | 1 | 1 | 8 | 50 | 4 | 2 | |
| KR.80124 | 1 | 1 | 10 | 50 | 4 | 2 | |
| KR.80125 | 1 | 1 | 12 | 50 | 4 | 2 | |
| KR.80126 | 1 | 1 | 14 | 50 | 4 | 2 | |
| KR.80127 | 1 | 1 | 16 | 50 | 4 | 2 | |
| KR.80130 | 1,5 | 1,5 | 4 | 50 | 4 | 2 | |
| KR.80131 | 1,5 | 1,5 | 6 | 50 | 4 | 2 | |
| KR.80132 | 1,5 | 1,5 | 10 | 50 | 4 | 2 | |
| KR.80133 | 1,5 | 1,5 | 12 | 50 | 4 | 2 | |
| KR.80134 | 1,5 | 1,5 | 14 | 50 | 4 | 2 | |
| KR.80135 | 1,5 | 1,5 | 16 | 50 | 4 | 2 | |
| KR.80140 | 2 | 2 | 4 | 50 | 4 | 2 | |
| KR.80141 | 2 | 2 | 6 | 50 | 4 | 2 | |
| KR.80142 | 2 | 2 | 8 | 50 | 4 | 2 | |
| KR.80143 | 2 | 2 | 10 | 50 | 4 | 2 | |
| KR.80144 | 2 | 2 | 12 | 50 | 4 | 2 | |
| KR.80145 | 2 | 2 | 16 | 50 | 4 | 2 | |
| KR.80146 | 2 | 2 | 20 | 50 | 4 | 2 | |
| KR.80150 | 2,5 | 2,5 | 6 | 50 | 4 | 2 | |
| KR.80151 | 2,5 | 2,5 | 8 | 50 | 4 | 2 | |
| KR.80152 | 2,5 | 2,5 | 10 | 50 | 4 | 2 | |
| KR.80153 | 2,5 | 2,5 | 12 | 50 | 4 | 2 | |
| KR.80154 | 2,5 | 2,5 | 20 | 50 | 4 | 2 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ● | ● | ● | ○ | ○ | ○ | ○ | ● |

MİKRO KÖŞE RADYÜS KARBÜR PARMAK FREZE

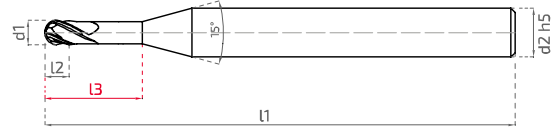


| KOD | d1 (mm) | L2 (mm) | L3 (mm) | L1 (mm) | d2 h5 | R | z | FİYAT EUR |
|----------|---------|---------|---------|---------|----------|------|---|-----------|
| KR.80310 | 0,5 | 0,5 | 2 | 50 | 4 | 0,05 | 2 | |
| KR.80311 | 0,5 | 0,5 | 3 | 50 | 4 | 0,05 | 2 | |
| KR.80312 | 0,5 | 0,5 | 4 | 50 | 4 | 0,02 | 2 | |
| KR.80320 | 1 | 1 | 6 | 50 | 4 | 0,10 | 2 | |
| KR.80321 | 1 | 1 | 8 | 50 | 4 | 0,10 | 2 | |
| KR.80322 | 1 | 1 | 10 | 50 | 4 | 0,10 | 2 | |
| KR.80323 | 1 | 1 | 12 | 50 | 4 | 0,10 | 2 | |
| KR.80324 | 1 | 1 | 16 | 50 | 4 | 0,10 | 2 | |
| KR.80325 | 1 | 1 | 20 | 50 | 4 | 0,10 | 2 | |
| KR.80330 | 1,5 | 1,5 | 6 | 50 | 4 | 0,10 | 2 | |
| KR.80331 | 1,5 | 1,5 | 8 | 50 | 4 | 0,10 | 2 | |
| KR.80332 | 1,5 | 1,5 | 10 | 50 | 4 | 0,10 | 2 | |
| KR.80333 | 1,5 | 1,5 | 12 | 50 | 4 | 0,10 | 2 | |
| KR.80334 | 1,5 | 1,5 | 16 | 60 | 4 | 0,10 | 2 | |
| KR.80335 | 1,5 | 1,5 | 20 | 60 | 4 | 0,10 | 2 | |
| KR.80430 | 2 | 2 | 6 | 50 | 4 | 0,20 | 2 | |
| KR.80431 | 2 | 2 | 8 | 50 | 4 | 0,20 | 2 | |
| KR.80432 | 2 | 2 | 10 | 50 | 4 | 0,20 | 2 | |
| KR.80433 | 2 | 2 | 12 | 50 | 4 | 0,20 | 2 | |
| KR.80434 | 2 | 2 | 16 | 50 | 4 | 0,20 | 2 | |
| KR.80435 | 2 | 2 | 20 | 50 | 4 | 0,20 | 2 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ● | ● | ● | ○ | ○ | ○ | ○ | ● |

MİKRO KÜRESEL KARBÜR PARMAK FREZE



| KOD | d1 (mm) | L2 (mm) | L3 (mm) | L1 (mm) | d2 h5 | Z | FİYAT EUR |
|----------|---------|---------|---------|---------|----------|---|-----------|
| KR.80210 | 0,5 | 0,5 | 2 | 50 | 4 | 2 | |
| KR.80211 | 0,5 | 0,5 | 3 | 50 | 4 | 2 | |
| KR.80212 | 0,5 | 0,5 | 4 | 50 | 4 | 2 | |
| KR.80213 | 0,5 | 0,5 | 6 | 50 | 4 | 2 | |
| KR.80220 | 1 | 1 | 6 | 50 | 4 | 2 | |
| KR.80221 | 1 | 1 | 8 | 50 | 4 | 2 | |
| KR.80222 | 1 | 1 | 10 | 50 | 4 | 2 | |
| KR.80223 | 1 | 1 | 12 | 50 | 4 | 2 | |
| KR.80224 | 1 | 1 | 16 | 50 | 4 | 2 | |
| KR.80225 | 1 | 1 | 20 | 50 | 4 | 2 | |
| KR.80230 | 1,5 | 1,5 | 6 | 50 | 4 | 2 | |
| KR.80231 | 1,5 | 1,5 | 8 | 50 | 4 | 2 | |
| KR.80232 | 1,5 | 1,5 | 10 | 50 | 4 | 2 | |
| KR.80233 | 1,5 | 1,5 | 12 | 50 | 4 | 2 | |
| KR.80234 | 1,5 | 1,5 | 16 | 50 | 4 | 2 | |
| KR.80235 | 1,5 | 1,5 | 20 | 50 | 4 | 2 | |
| KR.80240 | 2 | 2 | 6 | 50 | 4 | 2 | |
| KR.80241 | 2 | 2 | 8 | 50 | 4 | 2 | |
| KR.80242 | 2 | 2 | 10 | 50 | 4 | 2 | |
| KR.80243 | 2 | 2 | 12 | 50 | 4 | 2 | |
| KR.80244 | 2 | 2 | 16 | 50 | 4 | 2 | |
| KR.80245 | 2 | 2 | 20 | 50 | 4 | 2 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ● | ● | ● | ○ | ○ | ○ | ○ | ● |

KARBÜR KÖŞE YUVARLAMA FREZESİ

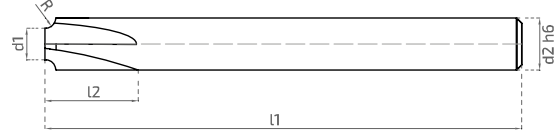
55
HRC

TiALN

FORM
HA DIN
6535

Z3

Z4



| KOD | d1 | L2 (mm) | L1 (mm) | d2 h6 | R (±0,02) | Z | FİYAT EUR |
|-------------|-----|------------|------------|----------|-----------|---|-----------|
| KR.3600.050 | 4,5 | 7 | 58 | 6 | 0,5 | 3 | |
| KR.3600.075 | 4,5 | 7 | 58 | 6 | 0,75 | 3 | |
| KR.3600.100 | 6 | 10 | 64 | 8 | 1 | 4 | |
| KR.3600.150 | 5 | 10 | 64 | 8 | 1,5 | 4 | |
| KR.3600.200 | 5,5 | 12 | 73 | 10 | 2 | 4 | |
| KR.3600.250 | 3,5 | 12 | 73 | 10 | 2,5 | 4 | |
| KR.3600.300 | 3,5 | 14 | 82 | 12 | 3 | 4 | |
| KR.3600.400 | 5,5 | 16 | 82 | 14 | 4 | 4 | |
| KR.3600.500 | 6 | 20 | 93 | 16 | 5 | 4 | |
| KR.3600.600 | 8 | 20 | 105 | 20 | 6 | 4 | |

KARBÜR PAH KIRMA FREZESİ

55
HRC

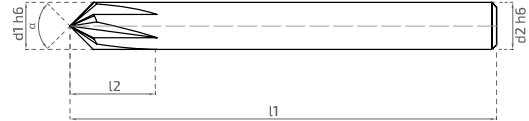
TiALN

FORM
HA DIN
6535 α
90°

Z4

Z5

Z6



| KOD | d1 h6 | L2 (mm) | L1 (mm) | d2 h6 | α (°) | Z | FİYAT EUR |
|----------------|----------|------------|------------|----------|--------------|---|-----------|
| KR.3500.090040 | 4 | 9 | 51 | 6 | 90 | 4 | |
| KR.3500.090060 | 6 | 15 | 58 | 6 | 90 | 4 | |
| KR.3500.090080 | 8 | 15 | 64 | 8 | 90 | 5 | |
| KR.3500.090100 | 10 | 21 | 73 | 10 | 90 | 6 | |
| KR.3500.090120 | 12 | 25 | 82 | 12 | 90 | 6 | |

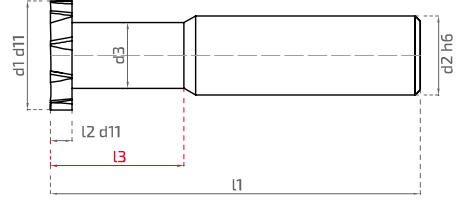
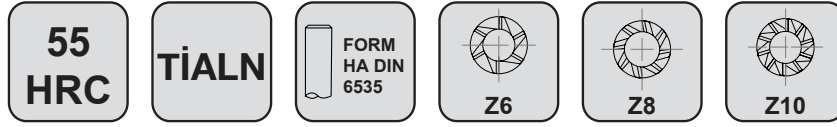
● Önerilir

◐ Kabul Edilebilir

○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ◐ | ◐ | ◐ | ● | ○ | ○ | ◐ | ◐ |

KARBÜR T-YARIK FREZESİ

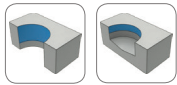
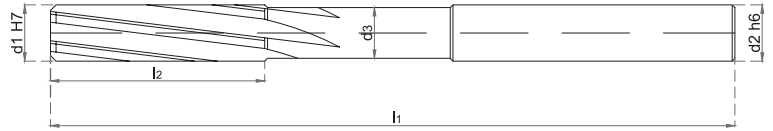
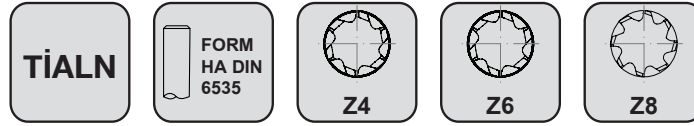


| KOD | d1 d11 | L2 d11 | L3 (mm) | d3 (mm) | L1(mm) | d2 h6 | Z | FİYAT EUR |
|----------------|-----------|-----------|------------|------------|--------|----------|----|-----------|
| KR.3200.045010 | 4,5 | 1 | 15 | 3 | 50 | 6 | 6 | |
| KR.3200.075015 | 7,5 | 1,5 | 15 | 4 | 50 | 6 | 6 | |
| KR.3200.075020 | 7,5 | 2 | 15 | 4 | 50 | 6 | 6 | |
| KR.3200.105020 | 10,5 | 2 | 15 | 5 | 50 | 6 | 6 | |
| KR.3200.105025 | 10,5 | 2,5 | 15 | 5 | 50 | 6 | 6 | |
| KR.3200.105030 | 10,5 | 3 | 15 | 5 | 50 | 6 | 6 | |
| KR.3200.135030 | 13,5 | 3 | 20 | 8 | 56 | 10 | 8 | |
| KR.3200.135040 | 13,5 | 4 | 20 | 8 | 56 | 10 | 8 | |
| KR.3200.165030 | 16,5 | 3 | 20 | 10 | 56 | 12 | 8 | |
| KR.3200.165040 | 16,5 | 4 | 20 | 10 | 56 | 12 | 8 | |
| KR.3200.165050 | 16,5 | 5 | 20 | 10 | 56 | 12 | 8 | |
| KR.3200.195030 | 19,5 | 3 | 20 | 12 | 56 | 14 | 10 | |
| KR.3200.195040 | 19,5 | 4 | 20 | 12 | 56 | 14 | 10 | |
| KR.3200.195050 | 19,5 | 5 | 20 | 12 | 56 | 14 | 10 | |
| KR.3200.225040 | 22,5 | 4 | 20 | 12 | 63 | 14 | 10 | |
| KR.3200.225050 | 22,5 | 5 | 20 | 12 | 63 | 14 | 10 | |
| KR.3200.225060 | 22,5 | 6 | 20 | 12 | 63 | 14 | 10 | |
| KR.3200.255050 | 25,5 | 5 | 20 | 14 | 63 | 16 | 10 | |
| KR.3200.255060 | 25,5 | 6 | 20 | 14 | 63 | 16 | 10 | |
| KR.3200.255070 | 25,5 | 7 | 20 | 14 | 63 | 16 | 10 | |
| KR.3200.255080 | 25,5 | 8 | 20 | 14 | 63 | 16 | 10 | |
| KR.3200.285050 | 28,5 | 5 | 20 | 16 | 63 | 18 | 10 | |
| KR.3200.285060 | 28,5 | 6 | 20 | 16 | 63 | 18 | 10 | |
| KR.3200.285070 | 28,5 | 7 | 20 | 16 | 63 | 18 | 10 | |
| KR.3200.285080 | 28,5 | 8 | 20 | 16 | 63 | 18 | 10 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ |

KARBÜR RAYBALAR

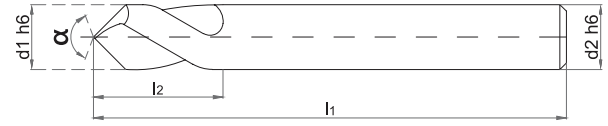


| KOD | d1 H7 | d2 h6 | d3 (mm) | l1 (mm) | l2 (mm) | Z | FİYAT EUR |
|------------|----------|----------|---------|---------|---------|---|-----------|
| KR.30.1025 | 2 | 2 | 1,5 | 58 | 12 | 4 | |
| KR.30.1050 | 2,5 | 3 | 2 | 58 | 12 | 4 | |
| KR.30.1181 | 3 | 4 | 2,5 | 58 | 12 | 4 | |
| KR.30.1378 | 3,5 | 6 | 3 | 63 | 15 | 4 | |
| KR.30.1575 | 4 | 6 | 3,5 | 63 | 18 | 6 | |
| KR.30.1772 | 4,5 | 6 | 3,5 | 70 | 20 | 6 | |
| KR.30.1969 | 5 | 6 | 4 | 75 | 22 | 6 | |
| KR.30.2125 | 5,5 | 6 | 4,5 | 75 | 22 | 6 | |
| KR.30.2362 | 6 | 6 | 5 | 93 | 26 | 6 | |
| KR.30.2559 | 6,5 | 6 | 5,5 | 93 | 26 | 6 | |
| KR.30.2756 | 7 | 8 | 6 | 93 | 26 | 6 | |
| KR.30.3150 | 8 | 8 | 7 | 93 | 28 | 6 | |
| KR.30.3543 | 9 | 10 | 8 | 100 | 35 | 6 | |
| KR.30.3937 | 10 | 10 | 9 | 100 | 35 | 6 | |
| KR.30.4331 | 11 | 12 | 10 | 100 | 35 | 6 | |
| KR.30.4724 | 12 | 12 | 11 | 110 | 35 | 6 | |
| KR.30.5264 | 14 | 14 | 13 | 110 | 35 | 6 | |
| KR.30.6299 | 16 | 16 | 15 | 110 | 35 | 8 | |

● Önerilir ○ Kabul Edilebilir ○ Önerilmez

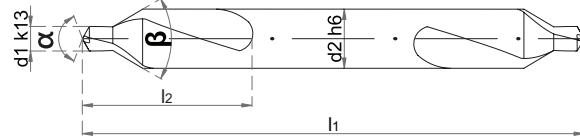
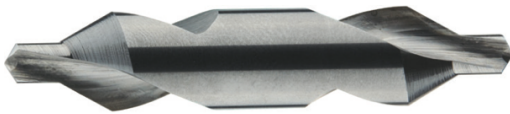
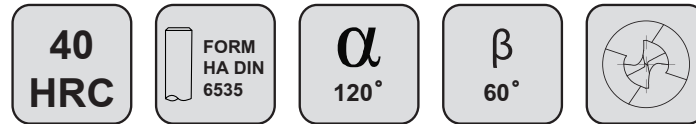
| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● |

KARBÜR NC PUNTA MATKABI



| KOD | d1 h7 | d2 h6 | L1 (mm) | L2 (mm) | α | FİYAT EUR |
|----------|----------|----------|---------|---------|----------|-----------|
| KR.89250 | 3 | 3 | 32 | 8 | 90° | |
| KR.89251 | 4 | 4 | 40 | 10 | 90° | |
| KR.89252 | 6 | 6 | 51 | 13 | 90° | |
| KR.89253 | 10 | 10 | 70 | 20 | 90° | |
| KR.89254 | 12 | 12 | 70 | 24 | 90° | |
| KR.89255 | 3 | 3 | 32 | 8 | 120° | |
| KR.89256 | 4 | 4 | 40 | 10 | 120° | |
| KR.89257 | 6 | 6 | 51 | 13 | 120° | |
| KR.89258 | 10 | 12 | 70 | 20 | 120° | |
| KR.89259 | 12 | 12 | 70 | 24 | 120° | |

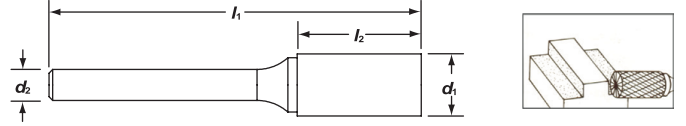
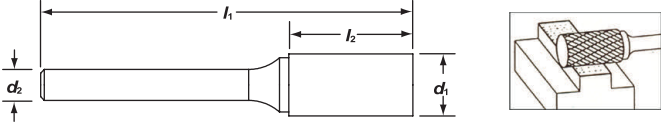
KARBÜR PUNTA MATKABI



| KOD | d1 k13 | d2 h6 | L1 (mm) | L2 (mm) | FİYAT EUR |
|----------|-----------|----------|---------|---------|-----------|
| KR.89203 | 2 | 5 | 40 | 2,9 | |
| KR.89206 | 2,5 | 6 | 45 | 3,6 | |
| KR.89209 | 3,15 | 8 | 50 | 4,4 | |
| KR.89212 | 4 | 10 | 75 | 5,6 | |
| KR.89215 | 5 | 12 | 82 | 6,9 | |
| KR.89218 | 6,3 | 16 | 93 | 8,6 | |

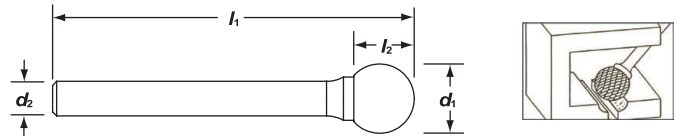
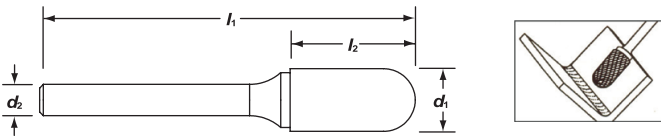
● Önerilir ○ Kabul Edilebilir ○ Önerilmez

| Çelik | Paslanmaz Çelik | Sertleştirilmiş Çelik ≤54 HRC | Sertleştirilmiş Çelik >54 HRC | Döküm | Grafit | Demir Dışı Metaller | HRSA | Titanyum |
|-------|-----------------|-------------------------------|-------------------------------|-------|--------|---------------------|------|----------|
| ● | ○ | ○ | ○ | ● | ○ | ○ | ○ | ● |



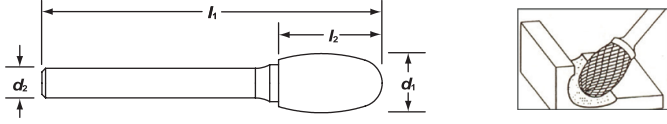
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SA.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SA.44M.DC | 3 | 13 | 6 | 38 | |
| KR.SA.46M.DC | 4 | 13 | 6 | 38 | |
| KR.SA.51M.DC | 6 | 13 | 3 | 56 | |
| KR.SA.1M.DC | 6 | 16 | 6 | 56 | |
| KR.SA.2M.DC | 8 | 20 | 6 | 60 | |
| KR.SA.3M.DC | 10 | 20 | 6 | 60 | |
| KR.SA.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SA.6M.DC | 16 | 25 | 6 | 65 | |
| KR.SA.7M.DC | 19 | 25 | 6 | 65 | |

| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SB.41M.DC | 2 | 10 | 6 | 38 | |
| KR.SB.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SB.44M.DC | 3 | 13 | 6 | 38 | |
| KR.SB.45M.DC | 4 | 13 | 3 | 38 | |
| KR.SB.46M.DC | 4 | 13 | 6 | 38 | |
| KR.SB.51M.DC | 6 | 13 | 3 | 56 | |
| KR.SB.1M.DC | 6 | 16 | 6 | 56 | |
| KR.SB.2M.DC | 8 | 20 | 6 | 60 | |
| KR.SB.3M.DC | 10 | 20 | 6 | 60 | |
| KR.SB.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SB.6M.DC | 16 | 25 | 6 | 65 | |
| KR.SB.7M.DC | 19 | 25 | 6 | 65 | |
| KR.SB.9M.DC | 25 | 25 | 6 | 65 | |

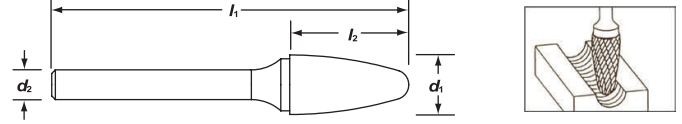


| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SC.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SC.45M.DC | 4 | 13 | 3 | 38 | |
| KR.SC.46M.DC | 4 | 13 | 6 | 38 | |
| KR.SC.51M.DC | 6 | 13 | 3 | 56 | |
| KR.SC.1M.DC | 6 | 16 | 6 | 56 | |
| KR.SC.2M.DC | 8 | 20 | 6 | 60 | |
| KR.SC.3M.DC | 10 | 20 | 6 | 60 | |
| KR.SC.4M.DC | 11 | 25 | 6 | 65 | |
| KR.SC.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SC.6M.DC | 16 | 25 | 6 | 65 | |
| KR.SC.7M.DC | 19 | 25 | 6 | 65 | |
| KR.SC.9M.DC | 25 | 25 | 6 | 65 | |

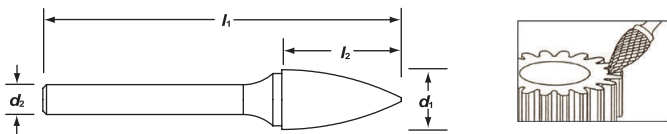
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SD.43M.DC | 3 | 2 | 3 | 38 | |
| KR.SD.44M.DC | 3 | 2 | 6 | 38 | |
| KR.SD.45M.DC | 4 | 3 | 3 | 38 | |
| KR.SD.46M.DC | 4 | 3 | 6 | 38 | |
| KR.SD.51M.DC | 6 | 5 | 3 | 38 | |
| KR.SD.1M.DC | 6 | 5 | 6 | 45 | |
| KR.SD.2M.DC | 8 | 7 | 6 | 47 | |
| KR.SD.3M.DC | 10 | 9 | 6 | 49 | |
| KR.SD.5M.DC | 12 | 10 | 6 | 51 | |
| KR.SD.6M.DC | 16 | 14 | 6 | 54 | |
| KR.SD.7M.DC | 19 | 14 | 6 | 54 | |
| KR.SD.9M.DC | 25 | 21 | 6 | 54 | |



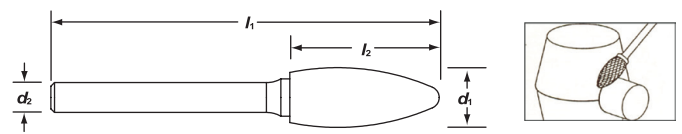
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SE.43M.DC | 3 | 7 | 3 | 38 | |
| KR.SE.44M.DC | 3 | 7 | 6 | 38 | |
| KR.SE.51M.DC | 6 | 10 | 3 | 38 | |
| KR.SE.1M.DC | 6 | 10 | 6 | 50 | |
| KR.SE.2M.DC | 8 | 13 | 6 | 53 | |
| KR.SE.3M.DC | 10 | 16 | 6 | 56 | |
| KR.SE.5M.DC | 12 | 20 | 6 | 60 | |
| KR.SE.6M.DC | 16 | 25 | 6 | 65 | |
| KR.SE.7M.DC | 19 | 25 | 6 | 65 | |



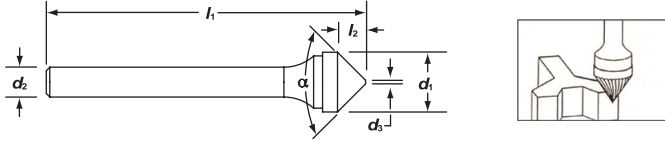
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|---------------|----------------|----------------|----------------|----------------|-----------|
| KR.SF.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SF.51M.DC | 6 | 13 | 3 | 41 | |
| KR.SF.1M.DC | 6 | 18 | 6 | 58 | |
| KR.SF.2M.DC | 8 | 20 | 6 | 65 | |
| KR.SF.3M.DC | 10 | 20 | 6 | 65 | |
| KR.SF.4M.DC | 11 | 25 | 6 | 65 | |
| KR.SF.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SF.5M.FM | 12 | 25 | 6 | 65 | |
| KR.SF.5ML6.DC | 12 | 25 | 6 | 175 | |
| KR.SF.6M.DC | 16 | 25 | 6 | 70 | |
| KR.SF.7M.DC | 19 | 25 | 6 | 70 | |



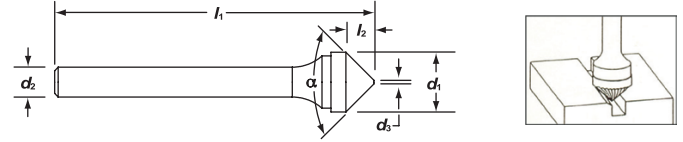
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SG.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SG.51M.DC | 6 | 13 | 3 | 41 | |
| KR.SG.1M.DC | 6 | 18 | 6 | 58 | |
| KR.SG.2M.DC | 8 | 20 | 6 | 65 | |
| KR.SG.3M.DC | 10 | 20 | 6 | 65 | |
| KR.SG.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SG.6M.DC | 16 | 25 | 6 | 70 | |
| KR.SG.7M.DC | 19 | 25 | 6 | 70 | |



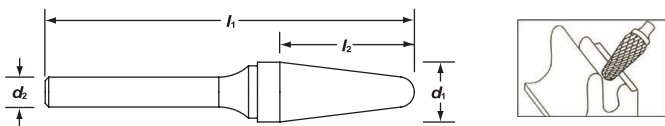
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SH.43M.DC | 3 | 7 | 3 | 38 | |
| KR.SH.1M.DC | 6 | 18 | 6 | 58 | |
| KR.SH.2M.DC | 8 | 20 | 6 | 60 | |
| KR.SH.3M.DC | 10 | 25 | 6 | 65 | |
| KR.SH.5M.DC | 12 | 32 | 6 | 72 | |
| KR.SH.6M.DC | 16 | 36 | 6 | 72 | |
| KR.SH.7M.DC | 19 | 36 | 6 | 76 | |



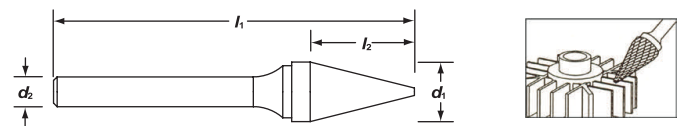
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SJ.43M.DC | 3 | 2 | 3 | 42 | |
| KR.SJ.44M.DC | 3 | 2 | 6 | 42 | |
| KR.SJ.1M.DC | 6 | 5 | 6 | 48 | |
| KR.SJ.2M.DC | 8 | 7 | 6 | 48 | |
| KR.SJ.3M.DC | 10 | 8 | 6 | 52 | |
| KR.SJ.5M.DC | 12 | 10 | 6 | 54 | |
| KR.SJ.6M.DC | 16 | 13 | 6 | 56 | |



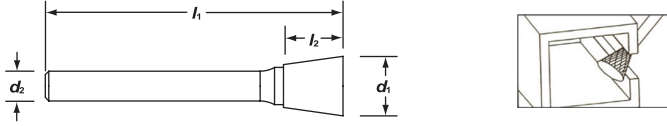
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SK.43M.DC | 3 | 13 | 3 | 42 | |
| KR.SK.1M.DC | 6 | 3 | 6 | 45 | |
| KR.SK.2M.DC | 8 | 4 | 6 | 47 | |
| KR.SK.3M.DC | 10 | 5 | 6 | 48 | |
| KR.SK.5M.DC | 12 | 6 | 6 | 48 | |
| KR.SK.6M.DC | 16 | 8 | 6 | 50 | |
| KR.SK.7M.DC | 19 | 8 | 6 | 50 | |
| KR.SK.9M.DC | 25 | 12 | 6 | 50 | |



| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SL.41M.DC | 2 | 13 | 6 | 38 | |
| KR.SL.43M.DC | 3 | 13 | 3 | 38 | |
| KR.SL.44M.DC | 3 | 13 | 6 | 38 | |
| KR.SL.46M.DC | 4 | 13 | 6 | 38 | |
| KR.SL.51M.DC | 6 | 13 | 3 | 41 | |
| KR.SL.1M.DC | 6 | 16 | 6 | 56 | |
| KR.SL.2M.DC | 8 | 22 | 6 | 56 | |
| KR.SL.3M.DC | 10 | 25 | 6 | 65 | |
| KR.SL.5M.DC | 12 | 28 | 6 | 68 | |
| KR.SL.6M.DC | 16 | 33 | 6 | 73 | |
| KR.SL.7M.DC | 19 | 33 | 6 | 73 | |



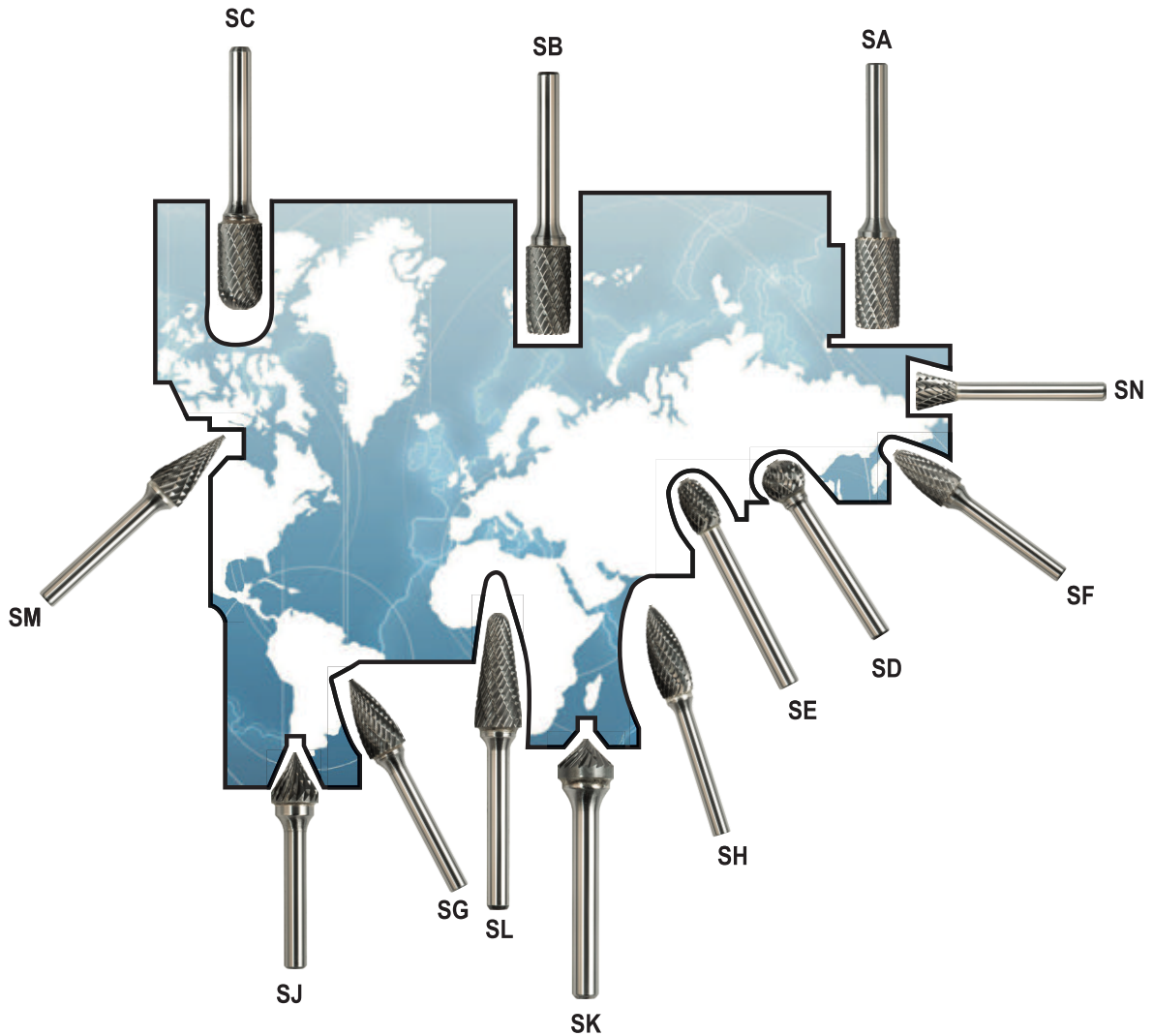
| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SM.43M.DC | 3 | 11 | 3 | 38 | |
| KR.SM.44M.DC | 3 | 11 | 6 | 38 | |
| KR.SM.51M.DC | 6 | 18 | 3 | 46 | |
| KR.SM.1M.DC | 6 | 18 | 6 | 58 | |
| KR.SM.2M.DC | 8 | 20 | 6 | 60 | |
| KR.SM.3M.DC | 10 | 20 | 6 | 60 | |
| KR.SM.5M.DC | 12 | 25 | 6 | 65 | |
| KR.SM.6M.DC | 16 | 25 | 6 | 65 | |
| KR.SM.7M.DC | 19 | 25 | 6 | 65 | |

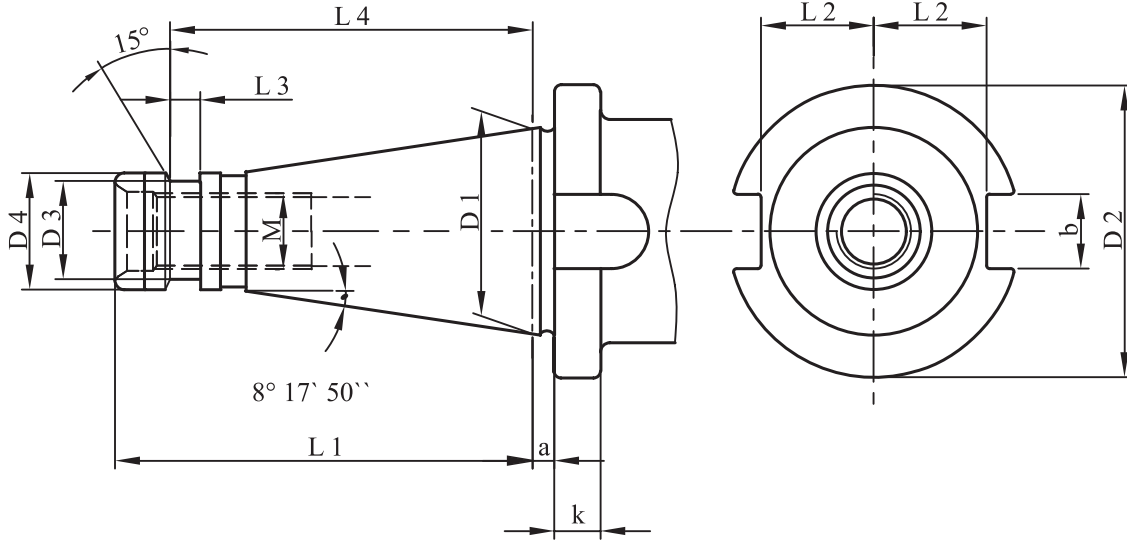


| KOD | d ₁ | l ₂ | d ₂ | l ₁ | FİYAT EUR |
|--------------|----------------|----------------|----------------|----------------|-----------|
| KR.SN.43M.DC | 3 | 7 | 3 | 38 | |
| KR.SN.44M.DC | 3 | 7 | 6 | 38 | |
| KR.SN.1M.DC | 6 | 7 | 6 | 47 | |
| KR.SN.2M.DC | 8 | 7 | 6 | 50 | |
| KR.SN.3M.DC | 10 | 10 | 6 | 55 | |
| KR.SN.4M.DC | 12 | 13 | 6 | 53 | |
| KR.SN.6M.DC | 16 | 13 | 6 | 58 | |



| KOD | FİYAT EUR |
|--------|-----------|
| KR.SET | |





| ISO | D1 | D2 0-0,4 | D3 | D4 | M | a ±0,2 | b H12 | K ±0,15 | L1 | L2 max. | L3 | L4 |
|-----|-------|-------------|------|------|-----|-----------|----------|------------|-------|------------|----|----|
| 30 | 31,75 | 50 | 16,5 | 17,1 | M12 | 1,6 | 16,1 | 8 | 68,4 | 16,2 | - | - |
| 40 | 44,45 | 63 | 21,1 | 25 | M16 | 1,6 | 16,1 | 10 | 93,4 | 22,5 | 7 | 82 |
| 50 | 69,85 | 97,5 | 38 | 39,2 | M24 | 3,2 | 25,7 | 12 | 126,8 | 35,3 | - | - |

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
- AÇI HASSASİYETİ : DIN 2080-1 / AT3

ISO PENS TAKIMLARI

DIN 2080

OZ TİP

ISO 2583


DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- ISO / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|---|-----------|
| ISO30.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| ISO40.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| ISO40.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |
| ISO50.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| ISO50.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

ISO PENS TAKIMLARI

DIN 2080

ER TİP

ISO 2583


DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

- ISO / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)

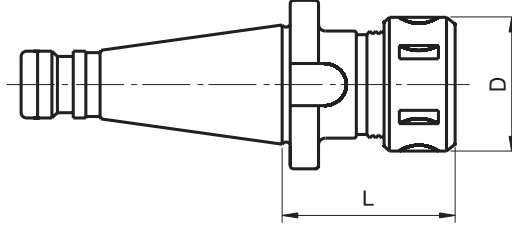
| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|--|-----------|
| ISO30.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| ISO40.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| ISO40.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |
| ISO50.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |

ISO PENS BAŞLIKLARI

DIN 2080

OZ TİP

ISO 2583


DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

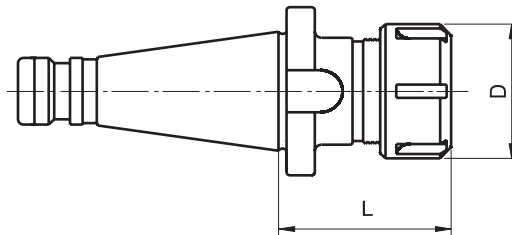
| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|----------------|--------|------------------|-----------|-----------|-----------|
| ISO30.462E | ISO 30 | 3-25 | 75 | 60 | |
| ISO30.462E.100 | ISO 30 | 3-25 | 100 | 60 | |
| ISO40.462E | ISO 40 | 3-25 | 65 | 60 | |
| ISO40.462E.100 | ISO 40 | 3-25 | 100 | 60 | |
| ISO40.462E.125 | ISO 40 | 3-25 | 125 | 60 | |
| ISO40.462E.150 | ISO 40 | 3-25 | 150 | 60 | |
| ISO40.467E | ISO 40 | 3-32 | 95 | 72 | |
| ISO50.462E | ISO 50 | 3-25 | 70 | 60 | |
| ISO50.467E | ISO 50 | 3-32 | 70 | 72 | |

ISO PENS BAŞLIKLARI

DIN 2080

ER TİP

ISO 2583


DIN 6499
ISO 15488

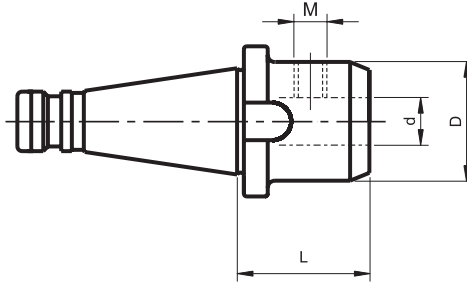
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|----------------|--------|------------------|-----------|-----------|-----------|
| ISO30.ER32 | ISO 30 | 2-20 | 50 | 50 | |
| ISO40.ER32 | ISO 40 | 2-20 | 50 | 50 | |
| ISO40.ER32.100 | ISO 40 | 2-20 | 100 | 50 | |
| ISO40.ER40 | ISO 40 | 2-26 | 60 | 63 | |
| ISO40.ER40.100 | ISO 40 | 2-26 | 100 | 63 | |
| ISO50.ER40 | ISO 50 | 2-26 | 60 | 63 | |
| ISO50.ER40.100 | ISO 50 | 2-26 | 100 | 63 | |

ISO VELDON TUTUCULAR

DIN 2080

ISO 2583


DIN 6359
DIN 1835-B

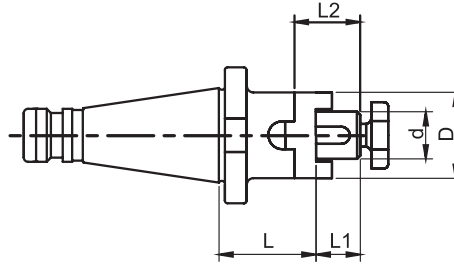
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | L (mm) | D (mm) | VELDON CİVATASI | CİVATA ADEĐİ | FİYAT EUR |
|------------|--------|-----------|-----------|-----------|--------------------|-----------------|-----------|
| ISO40.06.V | ISO 40 | 6 | 50 | 25 | M6x10 | 1 | |
| ISO40.08.V | ISO 40 | 8 | 50 | 28 | M8x10 | 1 | |
| ISO40.10.V | ISO 40 | 10 | 50 | 35 | M10x12 | 1 | |
| ISO40.12.V | ISO 40 | 12 | 50 | 42 | M12x16 | 1 | |
| ISO40.14.V | ISO 40 | 14 | 50 | 44 | M12x16 | 1 | |
| ISO40.16.V | ISO 40 | 16 | 63 | 48 | M14x16 | 1 | |
| ISO40.18.V | ISO 40 | 18 | 63 | 50 | M14x16 | 1 | |
| ISO40.20.V | ISO 40 | 20 | 63 | 52 | M16x16 | 1 | |
| ISO40.25.V | ISO 40 | 25 | 80 | 64 | M18x20 | 2 | |
| ISO40.32.V | ISO 40 | 32 | 80 | 72 | M20x20 | 2 | |
| ISO40.40.V | ISO 40 | 40 | 90 | 80 | M20x20 | 2 | |
| ISO50.20.V | ISO 50 | 20 | 63 | 52 | M16x16 | 1 | |
| ISO50.25.V | ISO 50 | 25 | 80 | 64 | M18x20 | 2 | |
| ISO50.32.V | ISO 50 | 32 | 80 | 72 | M20x20 | 2 | |
| ISO50.40.V | ISO 50 | 40 | 90 | 80 | M20x20 | 2 | |

ISO KOMBİNE MALAFALAR

DIN 2080

ISO 2583



DIN 6358

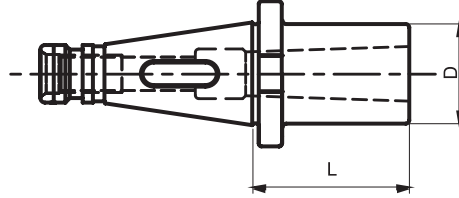
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|------------|--------|-----------|-----------|-----------|------------|------------|-----------|
| IS030.16.K | ISO 30 | 16 | 32 | 35 | 17 | 27 | |
| IS030.22.K | ISO 30 | 22 | 40 | 35 | 19 | 31 | |
| IS030.27.K | ISO 30 | 27 | 48 | 35 | 21 | 33 | |
| IS040.16.K | ISO 40 | 16 | 32 | 52 | 17 | 27 | |
| IS040.22.K | ISO 40 | 22 | 40 | 52 | 19 | 31 | |
| IS040.27.K | ISO 40 | 27 | 48 | 52 | 21 | 33 | |
| IS040.32.K | ISO 40 | 32 | 58 | 52 | 24 | 38 | |
| IS040.40.K | ISO 40 | 40 | 70 | 52 | 27 | 41 | |
| IS050.16.K | ISO 50 | 16 | 32 | 55 | 17 | 27 | |
| IS050.22.K | ISO 50 | 22 | 40 | 55 | 19 | 31 | |
| IS050.27.K | ISO 50 | 27 | 48 | 55 | 21 | 33 | |
| IS050.32.K | ISO 50 | 32 | 58 | 55 | 24 | 38 | |
| IS050.40.K | ISO 50 | 40 | 70 | 55 | 27 | 41 | |
| IS050.50.K | ISO 50 | 50 | 85 | 55 | 30 | 46 | |
| IS050.60.K | ISO 50 | 60 | 97 | 55 | 50 | 66 | |

ISO KAMALI MORS ADAPTÖRÜ

DIN 2080

ISO 2583



DIN 6383

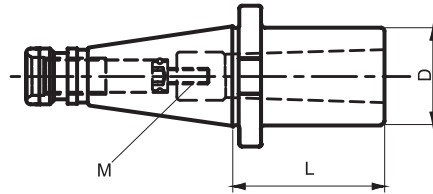
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | D (mm) | L (mm) | FİYAT EUR |
|-------------|--------|----------|--------|--------|-----------|
| ISO40.K.MK1 | ISO 40 | MK1 | 25 | 50 | |
| ISO40.K.MK2 | ISO 40 | MK2 | 32 | 50 | |
| ISO40.K.MK3 | ISO 40 | MK3 | 40 | 65 | |
| ISO40.K.MK4 | ISO 40 | MK4 | 48 | 95 | |
| ISO50.K.MK3 | ISO 50 | MK3 | 40 | 65 | |
| ISO50.K.MK4 | ISO 50 | MK4 | 48 | 70 | |
| ISO50.K.MK5 | ISO 50 | MK5 | 63 | 105 | |

ISO ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

DIN 2080

ISO 2583



DIN 6364

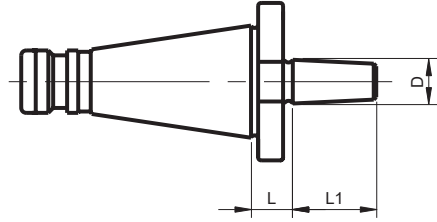
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | D (mm) | L (mm) | M (mm) | FİYAT EUR |
|-------------|--------|----------|--------|--------|--------|-----------|
| ISO40.C.MK1 | ISO 40 | MK1 | 25 | 50 | M6 | |
| ISO40.C.MK2 | ISO 40 | MK2 | 32 | 50 | M10 | |
| ISO40.C.MK3 | ISO 40 | MK3 | 40 | 65 | M12 | |
| ISO40.C.MK4 | ISO 40 | MK4 | 63 | 95 | M16 | |

ISO MANDREN MALAFALARI

DIN 2080

ISO 2583



DIN 238

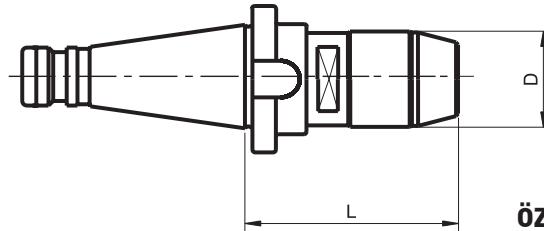
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | MANDREN KONİĞİ | D (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|-----------|--------|----------------|-----------|-----------|------------|-----------|
| ISO40.B16 | ISO 40 | B16 | 15,733 | 17 | 24 | |
| ISO40.B18 | ISO 40 | B18 | 17,780 | 17 | 32 | |

ISO MANDRENLİ BAŞLIKLAR

DIN 2080

ISO 2583



ÖZELLİKLER

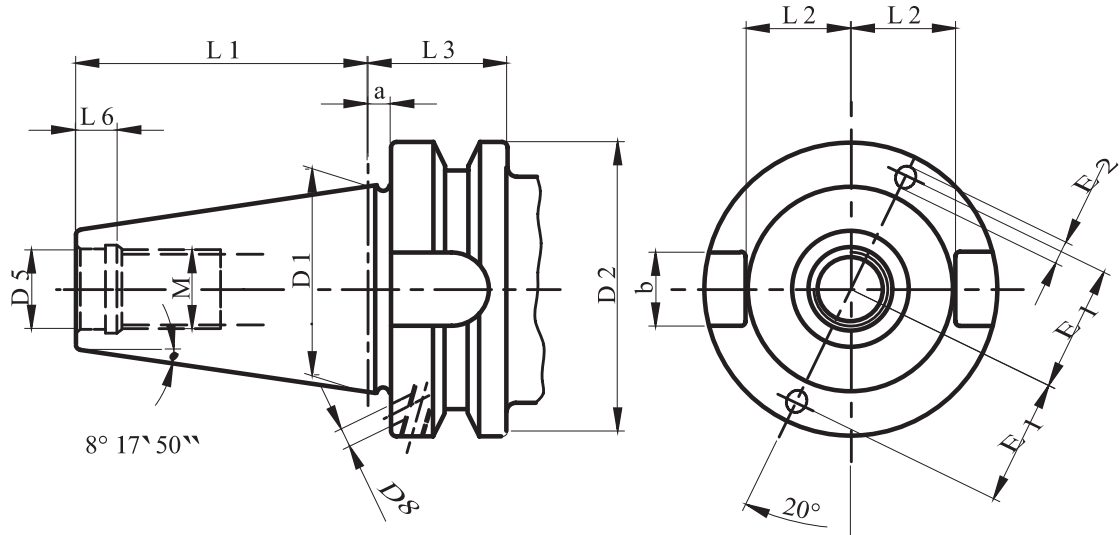
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR.
- SALGI : MAX. 0,06 mm

| KOD | KONİK | SIKMA KAPASİTESİ (mm) | D (mm) | L (mm) | FİYAT EUR |
|------------|--------|--------------------------|-----------|-----------|-----------|
| ISO40.1.13 | ISO 40 | 1-13 | 42 | 80 | |
| ISO40.1.16 | ISO 40 | 1-16 | 49 | 100 | |

BT ŞAFT ÖLÇÜLERİ

MAS 403-BT/JIS B 6339 FORM AD

ISO 7388-2



| BT | D1 | D2 h8 | D5 H8 | D8 Max. | E1 | E2 Max. | M 6H | a ±0,4 | b +0,20 | L1 ±0,2 | L2 0-0,3 | L3 Min. | L6 Max. |
|----|-------|----------|----------|------------|----|------------|---------|-----------|------------|------------|-------------|------------|------------|
| 30 | 31,75 | 46 | 12,5 | 2 | 20 | 2,5 | M12 | 2 | 16,1 | 48,4 | 16,3 | 22 | 7,5 |
| 40 | 44,45 | 63 | 17 | 4 | 27 | 5 | M16 | 2 | 16,1 | 65,4 | 22,6 | 27 | 9,5 |
| 50 | 69,85 | 100 | 25 | 6 | 42 | 7,4 | M24 | 3 | 25,7 | 101,8 | 35,3 | 38 | 13,5 |

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3
- SU DELİKLERİ : AD / B

BT PENS TAKIMLARI

MAS 403-BT/JIS B 6339

OZ TİP



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- BT / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- BT ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|-------------|---------------|---|-----------|
| BT40.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| BT40.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |
| BT50.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

BT PENS TAKIMLARI

MAS 403-BT/JIS B 6339

ER TİP



DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

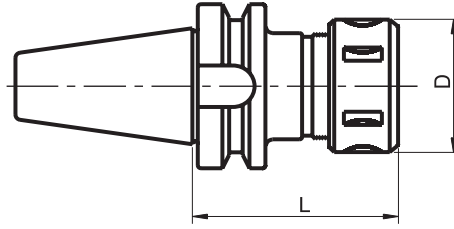
- BT / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)
(ER25 TİPLERDE 12 ADETTİR.)
- BT ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|-------------|---------------|--|-----------|
| BT30.ER25.T | 2-16 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15 | |
| BT30.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| BT40.ER25.T | 2-16 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15 | |
| BT40.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| BT40.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |
| BT50.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| BT50.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |

BT PENS BAŞLIKLARI

MAS 403 - BT/JIS B 6339

ER TİP


DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

MK* MİNİ KAPAK İLE TESLİM EDİLİR.

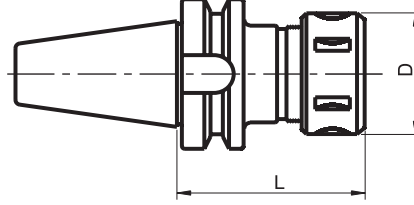
| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|-------------------|-------|------------------|-----------|-----------|-----------|
| BT30.ER11.100 | BT30 | 1-7 | 100 | 19 | |
| BT30.ER16 | BT30 | 1-10 | 60 | 28 (32) | |
| BT30.ER16.100 | BT30 | 1-10 | 100 | 28 (32) | |
| BT30.ER25 | BT30 | 1-16 | 60 | 42 | |
| BT30.ER25.100 | BT30 | 1-16 | 100 | 42 | |
| BT30.ER32 | BT30 | 2-20 | 60 | 50 | |
| BT30.ER32.100 | BT30 | 2-20 | 100 | 50 | |
| BT30.ER32.OM* | BT30 | 2-20 | 60 | 50 | |
| BT30.ER40 | BT30 | 2-26 | 70 | 63 | |
| BT30.ER40.100 | BT30 | 2-26 | 100 | 63 | |
| BT40.ER11.100 | BT40 | 1-7 | 100 | 19 | |
| BT40.ER11.160 | BT40 | 1-7 | 160 | 19 | |
| BT40.ER16 | BT40 | 1-10 | 60 | 28 (32) | |
| BT40.ER16.100 | BT40 | 1-10 | 100 | 28 (32) | |
| BT40.ER16.160 | BT40 | 1-10 | 160 | 28 (32) | |
| BT40.ER16.MK* | BT40 | 1-10 | 60 | 22 | |
| BT40.ER16.100.MK* | BT40 | 1-10 | 100 | 22 | |
| BT40.ER16.160.MK* | BT40 | 1-10 | 160 | 22 | |
| BT40.ER20 | BT40 | 1-13 | 60 | 35 | |
| BT40.ER20.100 | BT40 | 1-13 | 100 | 35 | |
| BT40.ER20.160 | BT40 | 1-13 | 160 | 35 | |
| BT40.ER25 | BT40 | 1-16 | 60 | 42 | |
| BT40.ER25.100 | BT40 | 1-16 | 100 | 42 | |
| BT40.ER25.160 | BT40 | 1-16 | 160 | 42 | |
| BT40.ER32 | BT40 | 2-20 | 60 | 50 | |
| BT40.ER32.100 | BT40 | 2-20 | 100 | 50 | |
| BT40.ER32.160 | BT40 | 2-20 | 160 | 50 | |
| BT40.ER40 | BT40 | 2-26 | 80 | 63 | |
| BT40.ER40.100 | BT40 | 2-26 | 100 | 63 | |
| BT40.ER40.160 | BT40 | 2-26 | 160 | 63 | |
| BT50.ER32 | BT50 | 2-20 | 70 | 50 | |
| BT50.ER32.100 | BT50 | 2-20 | 100 | 50 | |
| BT50.ER32.160 | BT50 | 2-20 | 160 | 50 | |
| BT50.ER40 | BT50 | 2-26 | 80 | 63 | |
| BT50.ER40.100 | BT50 | 2-26 | 100 | 63 | |
| BT50.ER40.160 | BT50 | 2-26 | 160 | 63 | |

OM* AHŞAP İŞLEYEN MARANGOZ CNC TEZGAHLARI İÇİNDİR.

BT PENS BAŞLIKLARI

MAS 403-BT/JIS B 6339

OZ TİP

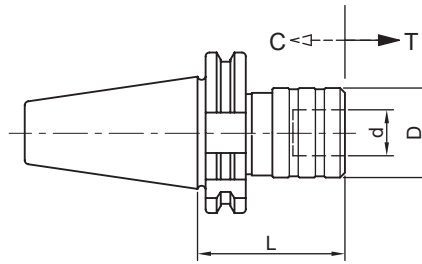

DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|---------------|-------|------------------|-----------|-----------|-----------|
| BT40.462E | BT40 | 3-25 | 70 | 60 | |
| BT40.462E.100 | BT40 | 3-25 | 100 | 60 | |
| BT40.467E | BT40 | 3-32 | 90 | 72 | |
| BT50.462E | BT50 | 3-25 | 90 | 60 | |
| BT50.467E | BT50 | 3-32 | 90 | 72 | |

BT KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

MAS 403-BT/JIS B 6339

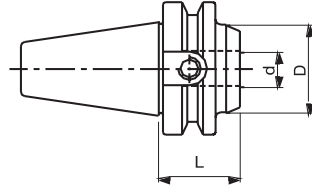


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

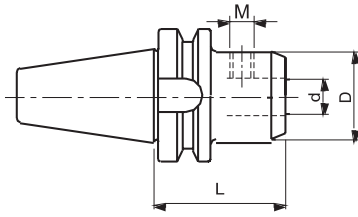
| KOD | KONİK | KAPASİTE | d (mm) | D (mm) | L (mm) | C-T (mm) | FİYAT EUR |
|------------|-------|----------|-----------|-----------|-----------|-------------|-----------|
| BT40.KCB.1 | BT40 | M3-M12 | 19 | 36,5 | 67 | 7,5-7,5 | |
| BT40.KCB.2 | BT40 | M5-M24 | 31 | 54 | 94 | 12,5-12,5 | |
| BT40.KCB.3 | BT40 | M14-M33 | 48 | 78 | 145 | 20-20 | |
| BT50.KCB.1 | BT50 | M3-M12 | 19 | 36,5 | 77 | 7,5-7,5 | |
| BT50.KCB.2 | BT50 | M5-M24 | 31 | 54 | 102 | 12,5-12,5 | |
| BT50.KCB.3 | BT50 | M14-M33 | 48 | 78 | 145 | 20-20 | |

BT VELDON TUTUCULAR

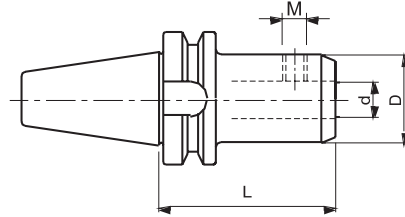
MAS 403-BT/JISB6339



TİP 1 (KISA BOY)



TİP 2 (NORMAL BOY)

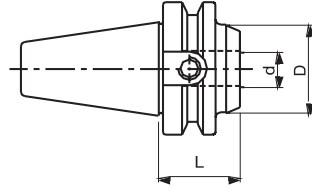


TİP 3 (UZUN BOY)

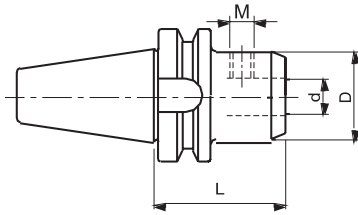
DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

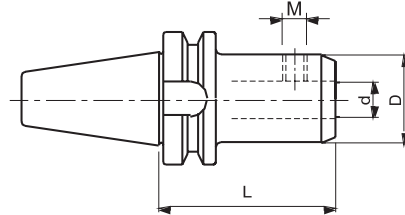
| KOD | KONİK | d (mm) | L (mm) | D (mm) | VELDON CİVATASI | CİVATA ADEDİ | TİP | FİYAT EUR |
|---------------|-------|--------|--------|--------|-----------------|--------------|-----|-----------|
| BT30.12.V | BT30 | 12 | 50 | 42 | M12x16 | 1 | 2 | |
| BT30.14.V | BT30 | 14 | 50 | 44 | M12x16 | 1 | 2 | |
| BT30.16.V | BT30 | 16 | 63 | 48 | M14x16 | 1 | 2 | |
| BT30.16.V.100 | BT30 | 16 | 100 | 48 | M14x16 | 1 | 3 | |
| BT30.18.V | BT30 | 18 | 63 | 50 | M14x16 | 1 | 2 | |
| BT30.18.V.100 | BT30 | 18 | 100 | 50 | M14x16 | 1 | 3 | |
| BT30.20.V | BT30 | 20 | 63 | 52 | M16x16 | 1 | 2 | |
| BT30.20.V.100 | BT30 | 20 | 100 | 52 | M16x16 | 1 | 3 | |
| BT40.06.V | BT40 | 6 | 50 | 25 | M6x10 | 1 | 2 | |
| BT40.06.V.100 | BT40 | 6 | 100 | 25 | M6x10 | 1 | 3 | |
| BT40.08.V | BT40 | 8 | 50 | 28 | M8x10 | 1 | 2 | |
| BT40.08.V.100 | BT40 | 8 | 100 | 28 | M8x10 | 1 | 3 | |
| BT40.10.V | BT40 | 10 | 63 | 35 | M10x12 | 1 | 2 | |
| BT40.10.V.100 | BT40 | 10 | 100 | 35 | M10x12 | 1 | 3 | |
| BT40.12.V | BT40 | 12 | 63 | 42 | M12x16 | 1 | 2 | |
| BT40.12.V.100 | BT40 | 12 | 100 | 42 | M12x16 | 1 | 3 | |
| BT40.14.V | BT40 | 14 | 63 | 44 | M12x16 | 1 | 2 | |
| BT40.14.V.100 | BT40 | 14 | 100 | 44 | M12x16 | 1 | 3 | |
| BT40.16.V.35 | BT40 | 16 | 35 | 48 | M14x16 | 1 | 1 | |
| BT40.16.V | BT40 | 16 | 63 | 48 | M14x16 | 1 | 2 | |
| BT40.16.V.100 | BT40 | 16 | 100 | 48 | M14x16 | 1 | 3 | |
| BT40.18.V | BT40 | 18 | 63 | 50 | M14x16 | 1 | 2 | |
| BT40.18.V.100 | BT40 | 18 | 100 | 50 | M14x16 | 1 | 3 | |



TİP 1 (KISA BOY)



TİP 2 (NORMAL BOY)



TİP 3 (UZUN BOY)

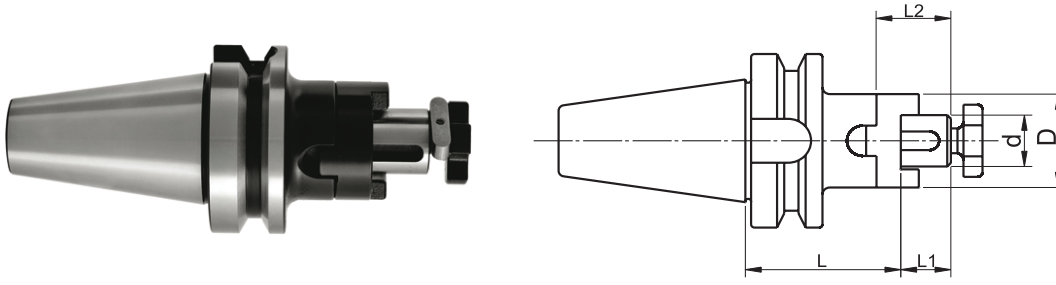
DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | L (mm) | D (mm) | VELDON CİVATASI | CİVATA ADEDİ | TİP | FİYAT EUR |
|---------------|-------|--------|--------|--------|-----------------|--------------|-----|-----------|
| BT40.20.V.35 | BT40 | 20 | 35 | 50 | M14x12 | 1 | 1 | |
| BT40.20.V | BT40 | 20 | 63 | 52 | M16x16 | 1 | 2 | |
| BT40.20.V.100 | BT40 | 20 | 100 | 52 | M16x16 | 1 | 3 | |
| BT40.25.V.35 | BT40 | 25 | 35 | 60 | M14x12 | 1 | 1 | |
| BT40.25.V | BT40 | 25 | 90 | 65 | M18x20 | 2 | 2 | |
| BT40.32.V | BT40 | 32 | 100 | 72 | M20x20 | 2 | 2 | |
| BT40.40.V | BT40 | 40 | 120 | 80 | M20x20 | 2 | 2 | |
| BT50.06.V | BT50 | 6 | 50 | 25 | M6x10 | 1 | 2 | |
| BT50.08.V | BT50 | 8 | 50 | 28 | M8x10 | 1 | 2 | |
| BT50.10.V | BT50 | 10 | 63 | 35 | M10x12 | 1 | 2 | |
| BT50.12.V | BT50 | 12 | 63 | 42 | M12x16 | 1 | 2 | |
| BT50.14.V | BT50 | 14 | 63 | 44 | M12x16 | 1 | 2 | |
| BT50.16.V | BT50 | 16 | 80 | 48 | M14x16 | 1 | 2 | |
| BT50.18.V | BT50 | 18 | 80 | 50 | M14x16 | 1 | 2 | |
| BT50.20.V | BT50 | 20 | 80 | 52 | M16x16 | 1 | 2 | |
| BT50.20.V.160 | BT50 | 20 | 160 | 52 | M16x16 | 1 | 3 | |
| BT50.25.V | BT50 | 25 | 100 | 65 | M18x20 | 2 | 2 | |
| BT50.25.V.160 | BT50 | 25 | 160 | 65 | M18x20 | 2 | 3 | |
| BT50.32.V | BT50 | 32 | 105 | 72 | M20x20 | 2 | 2 | |
| BT50.32.V.160 | BT50 | 32 | 160 | 72 | M20x20 | 2 | 3 | |
| BT50.40.V | BT50 | 40 | 110 | 80 | M20x20 | 2 | 2 | |
| BT50.40.V.160 | BT50 | 40 | 160 | 80 | M20x20 | 2 | 3 | |

BT KOMBİNE MALAFALAR

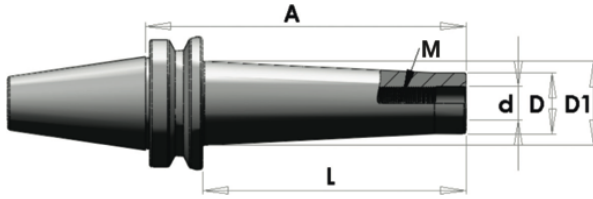
MAS 403-BT/JISB6339



DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|---------------|-------|-----------|-----------|-----------|------------|------------|-----------|
| BT30.16.K | BT30 | 16 | 32 | 45 | 17 | 27 | |
| BT30.22.K | BT30 | 22 | 40 | 47 | 19 | 31 | |
| BT30.22.K.100 | BT30 | 22 | 40 | 100 | 19 | 31 | |
| BT30.27.K | BT30 | 27 | 48 | 49 | 21 | 33 | |
| BT40.16.K | BT40 | 16 | 32 | 55 | 17 | 27 | |
| BT40.16.K.100 | BT40 | 16 | 32 | 100 | 17 | 27 | |
| BT40.16.K.160 | BT40 | 16 | 32 | 160 | 17 | 27 | |
| BT40.22.K | BT40 | 22 | 40 | 55 | 19 | 31 | |
| BT40.22.K.100 | BT40 | 22 | 40 | 100 | 19 | 31 | |
| BT40.22.K.160 | BT40 | 22 | 40 | 160 | 19 | 31 | |
| BT40.27.K | BT40 | 27 | 48 | 55 | 21 | 33 | |
| BT40.27.K.100 | BT40 | 27 | 48 | 100 | 21 | 33 | |
| BT40.27.K.160 | BT40 | 27 | 48 | 160 | 21 | 33 | |
| BT40.32.K | BT40 | 32 | 58 | 60 | 24 | 38 | |
| BT40.32.K.100 | BT40 | 32 | 58 | 100 | 24 | 38 | |
| BT40.32.K.160 | BT40 | 32 | 58 | 160 | 24 | 38 | |
| BT40.40.K | BT40 | 40 | 70 | 60 | 27 | 41 | |
| BT40.40.K.100 | BT40 | 40 | 70 | 100 | 27 | 41 | |
| BT40.40.K.160 | BT40 | 40 | 70 | 160 | 27 | 41 | |
| BT50.16.K | BT50 | 16 | 32 | 70 | 17 | 27 | |
| BT50.16.K.100 | BT50 | 16 | 32 | 100 | 17 | 27 | |
| BT50.16.K.160 | BT50 | 16 | 32 | 160 | 17 | 27 | |
| BT50.22.K | BT50 | 22 | 40 | 70 | 19 | 31 | |
| BT50.22.K.100 | BT50 | 22 | 40 | 100 | 19 | 31 | |
| BT50.22.K.160 | BT50 | 22 | 40 | 160 | 19 | 31 | |
| BT50.27.K | BT50 | 27 | 48 | 70 | 21 | 33 | |
| BT50.27.K.100 | BT50 | 27 | 48 | 100 | 21 | 33 | |
| BT50.27.K.160 | BT50 | 27 | 48 | 160 | 21 | 33 | |
| BT50.32.K | BT50 | 32 | 58 | 70 | 24 | 38 | |
| BT50.32.K.100 | BT50 | 32 | 58 | 100 | 24 | 38 | |
| BT50.32.K.160 | BT50 | 32 | 58 | 160 | 24 | 38 | |
| BT50.40.K | BT50 | 40 | 70 | 70 | 27 | 41 | |
| BT50.40.K.100 | BT50 | 40 | 70 | 100 | 27 | 41 | |
| BT50.40.K.160 | BT50 | 40 | 70 | 160 | 27 | 41 | |
| BT50.50.K | BT50 | 50 | 85 | 75 | 30 | 46 | |
| BT50.60.K | BT50 | 60 | 98 | 75 | 50 | 66 | |



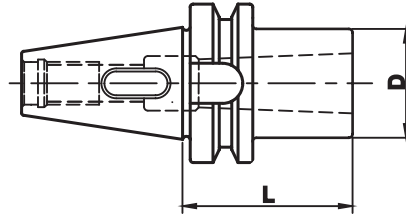
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | M | D (mm) | D1 (mm) | d (mm) | A (mm) | L (mm) | FİYAT EUR |
|--------------|-------|-----|-----------|------------|-----------|-----------|-----------|-----------|
| BT40.M06.050 | BT40 | M6 | 10 | 13 | 6,5 | 77 | 50 | |
| BT40.M06.100 | BT40 | M6 | 10 | 19 | 6,5 | 127 | 100 | |
| BT40.M08.050 | BT40 | M8 | 13 | 23 | 8,5 | 77 | 50 | |
| BT40.M08.100 | BT40 | M8 | 13 | 25 | 8,5 | 127 | 100 | |
| BT40.M10.050 | BT40 | M10 | 18 | 23 | 10,5 | 77 | 50 | |
| BT40.M10.100 | BT40 | M10 | 18 | 32 | 10,5 | 127 | 100 | |
| BT40.M12.050 | BT40 | M12 | 21 | 25 | 12,5 | 77 | 50 | |
| BT40.M12.100 | BT40 | M12 | 21 | 32 | 12,5 | 127 | 100 | |
| BT40.M16.075 | BT40 | M16 | 29 | 29 | 17 | 102 | 75 | |
| BT40.M16.125 | BT40 | M16 | 29 | 34 | 17 | 152 | 125 | |
| BT50.M06.050 | BT50 | M6 | 12 | 13 | 6,5 | 88 | 50 | |
| BT50.M06.100 | BT50 | M6 | 12 | 19 | 6,5 | 138 | 100 | |
| BT50.M08.050 | BT50 | M8 | 13 | 25 | 8,5 | 88 | 50 | |
| BT50.M08.100 | BT50 | M8 | 13 | 30 | 8,5 | 138 | 100 | |
| BT50.M10.050 | BT50 | M10 | 18 | 32 | 10,5 | 88 | 50 | |
| BT50.M10.100 | BT50 | M10 | 18 | 36 | 10,5 | 138 | 100 | |
| BT50.M12.050 | BT50 | M12 | 21 | 33 | 12,5 | 88 | 50 | |
| BT50.M12.100 | BT50 | M12 | 21 | 40 | 12,5 | 138 | 100 | |
| BT50.M16.075 | BT50 | M16 | 29 | 36 | 17 | 110 | 75 | |
| BT50.M16.125 | BT50 | M16 | 29 | 42 | 17 | 145 | 125 | |

BT KAMALI MORS ADAPTÖRÜ

MAS 403-BT/JIS B 6339



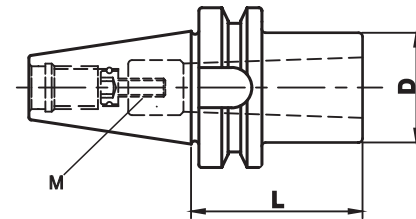
DIN 6383

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | D (mm) | L (mm) | FİYAT EUR |
|------------|-------|----------|--------|--------|-----------|
| BT40.K.MK1 | BT40 | MK1 | 25 | 50 | |
| BT40.K.MK2 | BT40 | MK2 | 32 | 50 | |
| BT40.K.MK3 | BT40 | MK3 | 40 | 70 | |
| BT40.K.MK4 | BT40 | MK4 | 48 | 95 | |
| BT50.K.MK3 | BT50 | MK3 | 40 | 65 | |
| BT50.K.MK4 | BT50 | MK4 | 48 | 95 | |
| BT50.K.MK5 | BT50 | MK5 | 63 | 105 | |

BT ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

MAS 403-BT/JIS B 6339



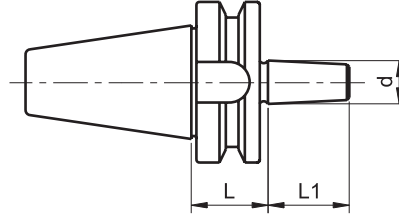
DIN 6364

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | D (mm) | L (mm) | M (mm) | FİYAT EUR |
|------------|-------|----------|--------|--------|--------|-----------|
| BT40.C.MK1 | BT40 | MK1 | 25 | 50 | M6 | |
| BT40.C.MK2 | BT40 | MK2 | 32 | 50 | M10 | |
| BT40.C.MK3 | BT40 | MK3 | 40 | 70 | M12 | |
| BT40.C.MK4 | BT40 | MK4 | 63 | 95 | M16 | |

BT MANDREN MALAFALARI

MAS 403-BT/JIS B 6339



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI DIN 7178-1/AT3 DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | MANDREN KONİĞİ | d (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|----------|-------|----------------|--------|--------|---------|-----------|
| BT40.B16 | BT40 | B16 | 15,733 | 32 | 24 | |
| BT40.B18 | BT40 | B18 | 17,780 | 32 | 32 | |

BT MANDRENLİ BAŞLIKLAR

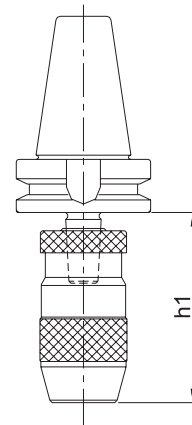
MAS 403-BT/JIS B 6339

ÖZELLİKLER

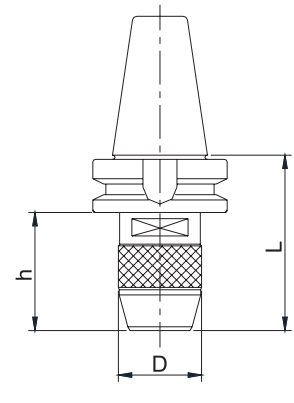
- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA



MANDRENLİ BAŞLIK



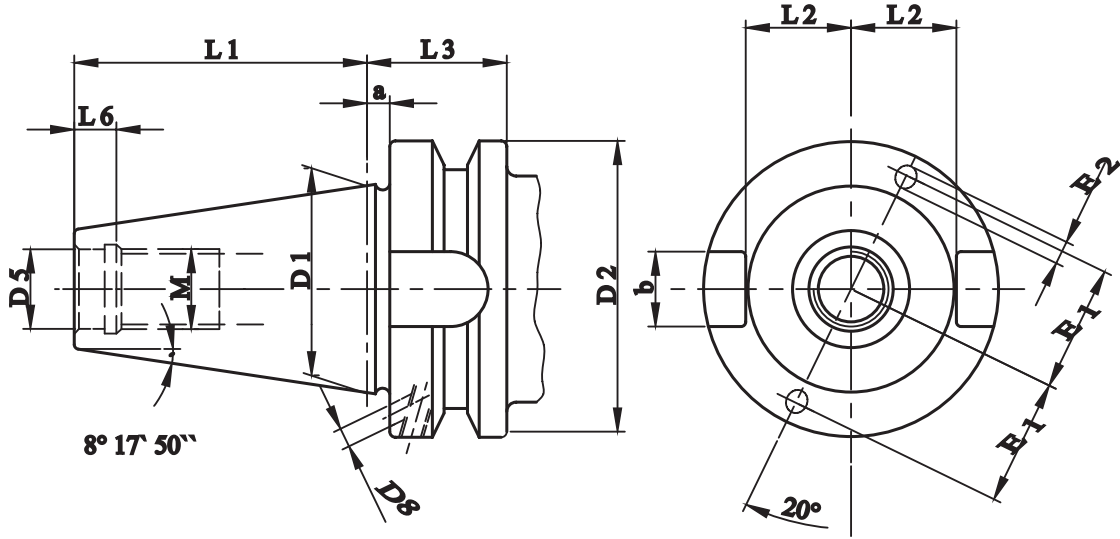
MANDRENLİ BAŞLIK İLE
DAHA KISA H MESAFESİ SAĞLANIR.

| KOD | KONİK | KAPASİTE (mm) | D (mm) | L (mm) | h (mm) | FİYAT EUR |
|-----------|-------|---------------|--------|--------|--------|-----------|
| BT40.1.13 | BT40 | 1-13 | 42 | 85 | 58 | |
| BT40.1.16 | BT40 | 1-16 | 49 | 100 | 73 | |

BBT ŞAFT ÖLÇÜLERİ

MAS 403-BBT/JIS B 6339 FORM AD

ISO 7388-2



| BBT | D1 | D2 h8 | D5 H8 | D8 Max. | E1 | E2 Max. | M 6H | a ±0,4 | b +0,20 | L1 ±0,2 | L2 0-0,3 | L3 Min. | L6 Max. |
|-----|-------|----------|----------|------------|----|------------|---------|-----------|------------|------------|-------------|------------|------------|
| 40 | 44,45 | 63 | 17 | 4 | 27 | 5 | M16 | 2 | 16,1 | 66,4 | 22,6 | 27 | 8,2 |

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3
- SU DELİKLERİ : AD / B

BBT PENS TAKIMLARI

MAS 403-BBT/JIS B 6339

OZ TİP



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER :

- BT / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- BT ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|---|-----------|
| BBT40.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| BBT40.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

BBT PENS TAKIMLARI

MAS 403-BBT/JIS B 6339

ER TİP



DIN 6499-B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER :

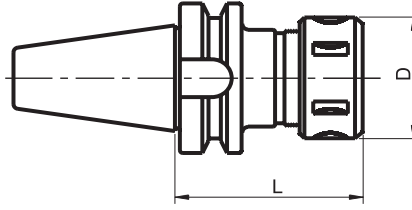
- BT / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (16 ADET)
- (ER25 TİPLERDE 12 ADETTİR.)
- BT ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|--|-----------|
| BBT40.ER25.T | 2-16 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15 | |
| BBT40.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| BBT40.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |

BBT PENS BAŞLIKLARI

MAS 403-BBT/JIS B 6339

OZ TİP


DIN 6388
ISO 10897

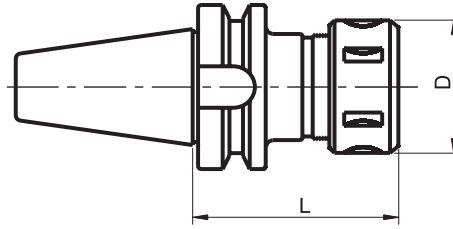
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|----------------|-------|------------------|-----------|-----------|-----------|
| BBT40.462E | BBT40 | 3-25 | 70 | 60 | |
| BBT40.462E.100 | BBT40 | 3-25 | 100 | 60 | |
| BBT40.467E | BBT40 | 3-32 | 90 | 72 | |

BBT PENS BAŞLIKLARI

MAS 403-BBT/JIS B 6339

ER TİP

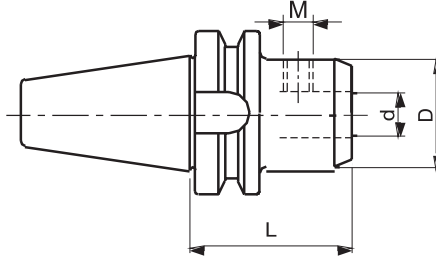

DIN 6499 -B
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE | D (mm) | L (mm) | FİYAT EUR |
|----------------|-------|----------|-----------|-----------|-----------|
| BBT40.ER11.100 | BBT40 | 1-7 | 100 | 19 | |
| BBT40.ER16 | BBT40 | 1-10 | 60 | 28 | |
| BBT40.ER16.100 | BBT40 | 1-10 | 100 | 28 | |
| BBT40.ER16.160 | BBT40 | 1-10 | 160 | 28 | |
| BBT40.ER20 | BBT40 | 1-13 | 60 | 35 | |
| BBT40.ER20.100 | BBT40 | 1-13 | 100 | 35 | |
| BBT40.ER20.160 | BBT40 | 1-13 | 160 | 35 | |
| BBT40.ER25 | BBT40 | 1-16 | 60 | 42 | |
| BBT40.ER25.100 | BBT40 | 1-16 | 100 | 42 | |
| BBT40.ER25.160 | BBT40 | 1-16 | 160 | 42 | |
| BBT40.ER32 | BBT40 | 2-20 | 60 | 50 | |
| BBT40.ER32.100 | BBT40 | 2-20 | 100 | 50 | |
| BBT40.ER32.160 | BBT40 | 2-20 | 160 | 50 | |
| BBT40.ER40 | BBT40 | 2-26 | 80 | 63 | |
| BBT40.ER40.100 | BBT40 | 2-26 | 100 | 63 | |
| BBT40.ER40.160 | BBT40 | 2-26 | 160 | 63 | |

BBT VELDON TUTUCULAR

MAS 403-BBT/JISB6339



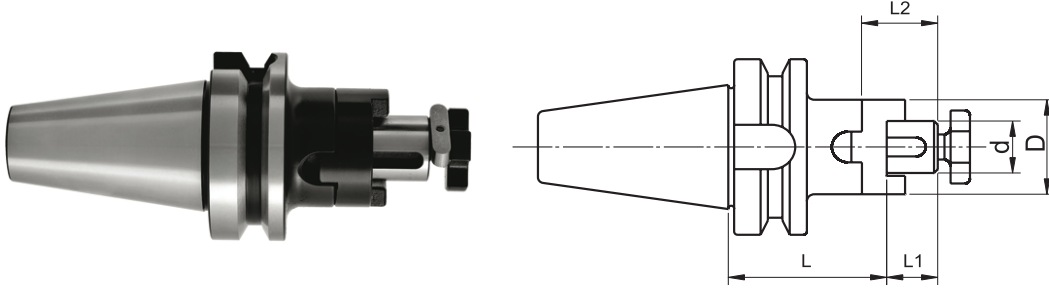
DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | L (mm) | D (mm) | VELDON CİVATASI | CİVATA ADEĐİ | FİYAT EUR |
|----------------|-------|-----------|-----------|-----------|--------------------|-----------------|-----------|
| BBT40.06.V | BBT40 | 6 | 50 | 25 | M6x10 | 1 | |
| BBT40.06.V.100 | BBT40 | 6 | 100 | 25 | M6x10 | 1 | |
| BBT40.08.V | BBT40 | 8 | 50 | 28 | M8x10 | 1 | |
| BBT40.08.V.100 | BBT40 | 8 | 100 | 28 | M8x10 | 1 | |
| BBT40.10.V | BBT40 | 10 | 63 | 35 | M10x12 | 1 | |
| BBT40.10.V.100 | BBT40 | 10 | 100 | 35 | M10x12 | 1 | |
| BBT40.12.V | BBT40 | 12 | 63 | 42 | M12x16 | 1 | |
| BBT40.12.V.100 | BBT40 | 12 | 100 | 42 | M12x16 | 1 | |
| BBT40.14.V | BBT40 | 14 | 63 | 44 | M12x16 | 1 | |
| BBT40.14.V.100 | BBT40 | 14 | 100 | 44 | M12x16 | 1 | |
| BBT40.16.V | BBT40 | 16 | 63 | 48 | M14x16 | 1 | |
| BBT40.16.V.100 | BBT40 | 16 | 100 | 48 | M14x16 | 1 | |
| BBT40.18.V | BBT40 | 18 | 63 | 50 | M14x16 | 1 | |
| BBT40.18.V.100 | BBT40 | 18 | 100 | 50 | M14x16 | 1 | |
| BBT40.20.V | BBT40 | 20 | 63 | 52 | M16x16 | 1 | |
| BBT40.20.V.100 | BBT40 | 20 | 100 | 52 | M16x16 | 1 | |
| BBT40.25.V | BBT40 | 25 | 90 | 65 | M18x20 | 2 | |
| BBT40.32.V | BBT40 | 32 | 100 | 72 | M18x20 | 2 | |
| BBT40.40.V | BBT40 | 40 | 200 | 80 | M18x20 | 2 | |

BBT KOMBİNE MALAFALAR

MAS 403-BBT/JIS B6339



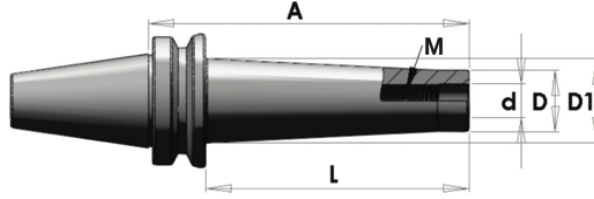
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|----------------|-------|-----------|-----------|-----------|------------|------------|-----------|
| BBT40.16.K | BBT40 | 16 | 32 | 55 | 17 | 27 | |
| BBT40.16.K.100 | BBT40 | 16 | 32 | 100 | 17 | 27 | |
| BBT40.16.K.160 | BBT40 | 16 | 32 | 160 | 17 | 27 | |
| BBT40.22.K | BBT40 | 22 | 40 | 55 | 19 | 31 | |
| BBT40.22.K.100 | BBT40 | 22 | 40 | 100 | 19 | 31 | |
| BBT40.22.K.160 | BBT40 | 22 | 40 | 160 | 19 | 31 | |
| BBT40.27.K | BBT40 | 27 | 48 | 55 | 21 | 33 | |
| BBT40.27.K.100 | BBT40 | 27 | 48 | 100 | 21 | 33 | |
| BBT40.27.K.160 | BBT40 | 27 | 48 | 160 | 21 | 33 | |
| BBT40.32.K | BBT40 | 32 | 58 | 60 | 24 | 38 | |
| BBT40.32.K.100 | BBT40 | 32 | 58 | 100 | 24 | 38 | |
| BBT40.32.K.160 | BBT40 | 32 | 58 | 160 | 24 | 38 | |
| BBT40.40.K | BBT40 | 40 | 70 | 60 | 27 | 41 | |
| BBT40.40.K.100 | BBT40 | 40 | 70 | 100 | 27 | 41 | |
| BBT40.40.K.160 | BBT40 | 40 | 70 | 160 | 27 | 41 | |

BBT VİDALI TAKIM TUTUCULAR

MAS 403-BBT/JISB6339



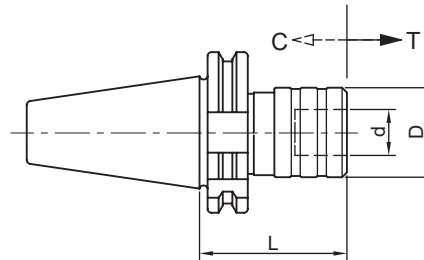
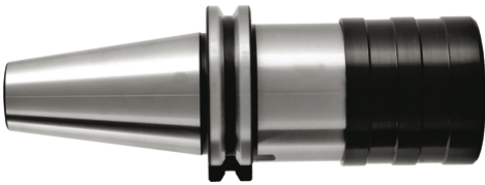
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | M | D (mm) | D1 (mm) | d (mm) | A (mm) | L (mm) | FİYAT EUR |
|---------------|-------|-----|--------|---------|--------|--------|--------|-----------|
| BBT40.M06.050 | BBT40 | M6 | 10 | 13 | 6,5 | 77 | 50 | |
| BBT40.M06.100 | BBT40 | M6 | 10 | 19 | 6,5 | 127 | 100 | |
| BBT40.M08.050 | BBT40 | M8 | 13 | 23 | 8,5 | 77 | 50 | |
| BBT40.M08.100 | BBT40 | M8 | 13 | 25 | 8,5 | 127 | 100 | |
| BBT40.M10.050 | BBT40 | M10 | 18 | 23 | 10,5 | 77 | 50 | |
| BBT40.M10.100 | BBT40 | M10 | 18 | 32 | 10,5 | 127 | 100 | |
| BBT40.M12.050 | BBT40 | M12 | 21 | 25 | 12,5 | 77 | 50 | |
| BBT40.M12.100 | BBT40 | M12 | 21 | 32 | 12,5 | 127 | 100 | |
| BBT40.M16.075 | BBT40 | M16 | 29 | 29 | 17 | 102 | 75 | |
| BBT40.M16.125 | BBT40 | M16 | 29 | 34 | 17 | 152 | 125 | |

BBT KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

MAS 403-BBT/JIS B 6339

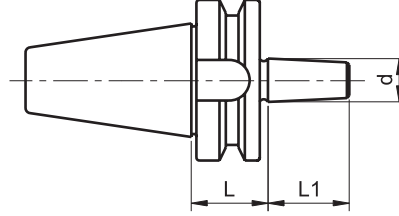


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

| KOD | KONİK | KAPASİTE | d (mm) | D (mm) | L (mm) | C-T (mm) | FİYAT EUR |
|-------------|-------|----------|--------|--------|--------|-----------|-----------|
| BBT40.KCB.1 | BBT40 | M3-M12 | 19 | 36,5 | 67 | 7,5-7,5 | |
| BBT40.KCB.2 | BBT40 | M5-M24 | 31 | 54 | 94 | 12,5-12,5 | |
| BBT40.KCB.3 | BBT40 | M14-M33 | 48 | 78 | 145 | 20-20 | |

BBT MANDREN MALAFALARI

MAS 403-BBT/JIS B 6339



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI DIN 7178-1/AT3 DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | MANDREN KONİĞİ | d (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|-----------|-------|----------------|--------|--------|---------|-----------|
| BBT40.B16 | BBT40 | B16 | 15,733 | 32 | 24 | |
| BBT40.B18 | BBT40 | B18 | 17,780 | 32 | 32 | |

BBT MANDRENLİ BAŞLIKLAR

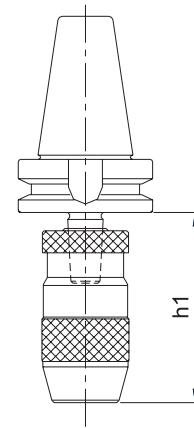
MAS 403-BBT/JIS B 6339

ÖZELLİKLER

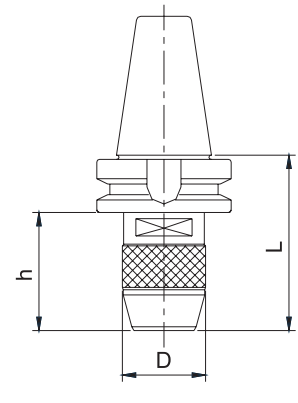
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA

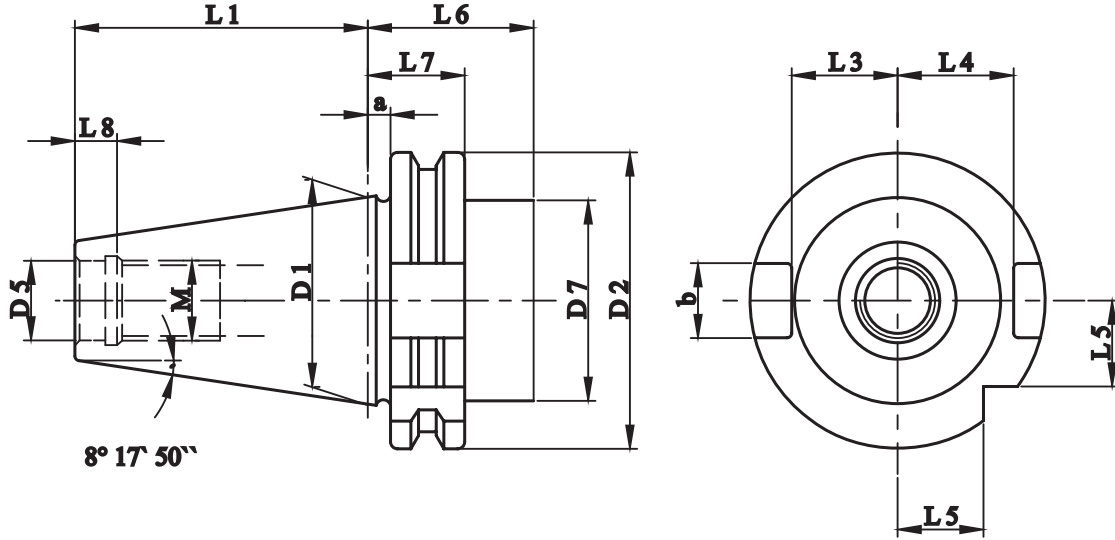


MANDRENLİ BAŞLIK



MANDRENLİ BAŞLIK İLE
DAHA KISA H MESAFESİ SAĞLANIR.

| KOD | KONİK | KAPASİTE (mm) | D (mm) | L (mm) | h (mm) | FİYAT EUR |
|------------|-------|---------------|--------|--------|--------|-----------|
| BBT40.1.13 | BBT40 | 1-13 | 42 | 85 | 58 | |
| BBT40.1.16 | BBT40 | 1-16 | 49 | 100 | 73 | |



| SK | D1 | D2 0-0,1 | D5 H7 | M 6H | a ±0,1 | b +0,2 +0 | L1 0-0,3 | L3 0-0,3 | L4 0-0,3 | L5 0-0,3 | L6 min. | L7 0-0,1 | L8 max. | D7 max. |
|----|-------|-------------|----------|---------|-----------|-----------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|
| 30 | 31,75 | 50 | 13 | M12 | 3,2 | 16,1 | 47,8 | 16,3 | 18,8 | 15 | 35 | 19,1 | 6 | 45 |
| 40 | 44,45 | 63,55 | 17 | M16 | 3,2 | 16,1 | 68,4 | 22,7 | 25 | 18,5 | 35 | 19,1 | 8,7 | 50 |

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3
DIN 2080-1 / AT3

SK PENS TAKIMLARI

DIN 69871

OZ TİP


DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- SK / OZ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)
- SK ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|-------------|---------------|---|-----------|
| SK40.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| SK40.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

SK PENS TAKIMLARI

DIN 69871

ER TİP


DIN 6499 -B
ISO 15488

TAKIM KUTUSU İÇİNDEKİLER

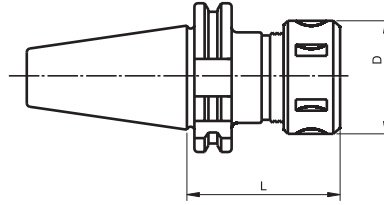
- SK / ER PENS BAŞLIĞI (1 ADET)
- ER PENS KAPAĞI (1 ADET)
- ER ANAHTAR (1 ADET)
- ER PENSLER (12 ADET)
- (ER25 TİPLERDE 12 ADETTİR.)
- SK ÇEKTİRME CİVATASI (1 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|-------------|---------------|--|-----------|
| SK30.ER25.T | 2-16 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15 | |
| SK30.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| SK40.ER25.T | 2-16 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/14-13/16-15 | |
| SK40.ER32.T | 3-20 | 3-2/4-3/5-4/6-5/7-6/8-7/9-8/10-9/11-10/12-11/13-12/14-13/15-14/16-15/18-17/20-19 | |
| SK40.ER40.T | 4-26 | 4-3/5-4/6-5/7-6/8-7/9-8/10-9/12-11/14-13/16-15/18-17/20-19/22-21/24-23/25-24/26-25 | |

SK PENS BAŞLIKLARI

DIN 69871

OZ TİP



DIN 6388
ISO 10897

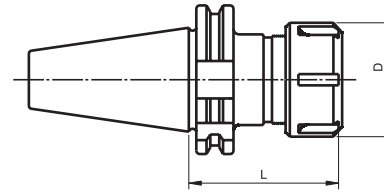
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | D (mm) | L (mm) | FİYAT EUR |
|---------------|-------|------------------|-----------|-----------|-----------|
| SK40.462E | SK40 | 3-25 | 60 | 70 | |
| SK40.462E.100 | SK40 | 3-25 | 60 | 100 | |
| SK40.467E | SK40 | 3-32 | 72 | 90 | |

SK PENS BAŞLIKLARI

DIN 69871

ER TİP



DIN 6499
ISO 15488

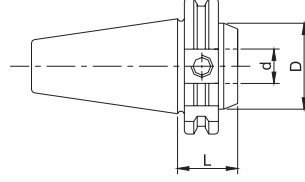
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | D (mm) | L (mm) | FİYAT EUR |
|---------------|-------|------------------|-----------|-----------|-----------|
| SK30.ER11.100 | SK30 | 1-7 | 19 | 100 | |
| SK30.ER16 | SK30 | 1-10 | 28 | 60 | |
| SK30.ER16.100 | SK30 | 1-10 | 28 | 100 | |
| SK30.ER25 | SK30 | 1-16 | 42 | 60 | |
| SK30.ER25.100 | SK30 | 1-16 | 42 | 100 | |
| SK30.ER32 | SK30 | 2-20 | 50 | 63 | |
| SK30.ER32.0M* | SK30 | 2-20 | 50 | 60 | |
| SK40.ER11.100 | SK40 | 1-7 | 19 | 100 | |
| SK40.ER11.160 | SK40 | 1-7 | 19 | 160 | |
| SK40.ER16 | SK40 | 1-10 | 28 | 60 | |
| SK40.ER16.100 | SK40 | 1-10 | 28 | 100 | |
| SK40.ER16.160 | SK40 | 1-10 | 28 | 160 | |
| SK40.ER25 | SK40 | 1-16 | 42 | 60 | |
| SK40.ER25.100 | SK40 | 1-16 | 42 | 100 | |
| SK40.ER25.160 | SK40 | 1-16 | 42 | 160 | |
| SK40.ER32 | SK40 | 2-20 | 50 | 70 | |
| SK40.ER32.100 | SK40 | 2-20 | 50 | 100 | |
| SK40.ER32.160 | SK40 | 2-20 | 50 | 160 | |
| SK40.ER40 | SK40 | 2-26 | 63 | 80 | |
| SK40.ER40.100 | SK40 | 2-26 | 63 | 100 | |
| SK40.ER40.160 | SK40 | 2-26 | 63 | 160 | |

OM* AHŞAP İŞLEYEN MARANGOZ CNC TEZGAHLARI İÇİNDİR.

SK VELDON TUTUCULAR

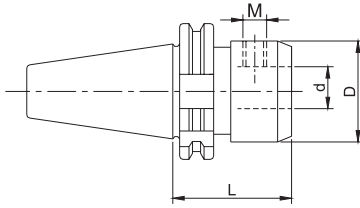
DIN 69871



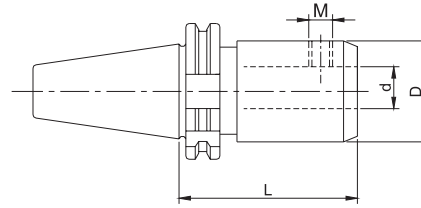
TİP 1 (KISA BOY)

DIN 6359
DIN 1835-B
DIN 6535-HB

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

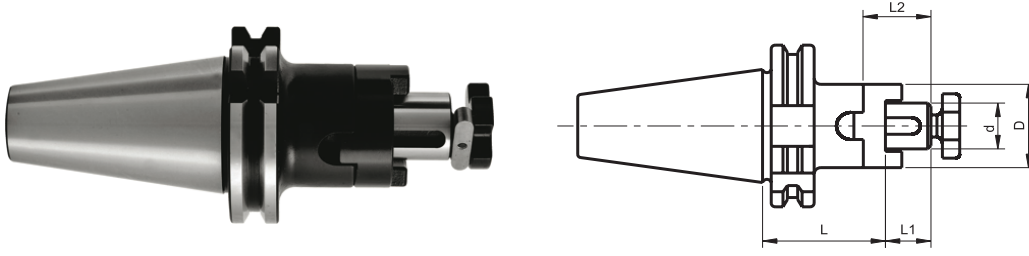


TİP 2 (NORMAL BOY)



TİP 3 (UZUN BOY)

| KOD | KONİK | d (mm) | L (mm) | D (mm) | VELDON CİVATASI | CİVATA ADEĐİ | TİP | FİYAT EUR |
|---------------|-------|-----------|-----------|-----------|--------------------|-----------------|-----|-----------|
| SK40.06.V | SK40 | 6 | 50 | 25 | M6x10 | 1 | 2 | |
| SK40.06.V.100 | SK40 | 6 | 100 | 25 | M6x10 | 1 | 3 | |
| SK40.08.V | SK40 | 8 | 50 | 28 | M8x10 | 1 | 2 | |
| SK40.08.V.100 | SK40 | 8 | 100 | 28 | M8x10 | 1 | 3 | |
| SK40.10.V | SK40 | 10 | 50 | 35 | M10x12 | 1 | 2 | |
| SK40.10.V.100 | SK40 | 10 | 100 | 35 | M10x12 | 1 | 3 | |
| SK40.12.V | SK40 | 12 | 50 | 42 | M12x16 | 1 | 2 | |
| SK40.12.V.100 | SK40 | 12 | 100 | 42 | M12x16 | 1 | 3 | |
| SK40.14.V | SK40 | 14 | 50 | 44 | M12x16 | 1 | 2 | |
| SK40.14.V.100 | SK40 | 14 | 100 | 44 | M12x16 | 1 | 3 | |
| SK40.16.V.35 | SK40 | 16 | 35 | 45 | M14x16 | 1 | 1 | |
| SK40.16.V | SK40 | 16 | 63 | 48 | M14x16 | 1 | 2 | |
| SK40.16.V.100 | SK40 | 16 | 100 | 48 | M14x16 | 1 | 3 | |
| SK40.18.V | SK40 | 18 | 63 | 50 | M14x16 | 1 | 2 | |
| SK40.18.V.100 | SK40 | 18 | 100 | 50 | M14x16 | 1 | 3 | |
| SK40.20.V.35 | SK40 | 20 | 35 | 45 | M14x12 | 1 | 1 | |
| SK40.20.V | SK40 | 20 | 63 | 52 | M16x16 | 1 | 2 | |
| SK40.20.V.100 | SK40 | 20 | 100 | 52 | M16x16 | 1 | 3 | |
| SK40.25.V.35 | SK40 | 25 | 35 | 50 | M14x12 | 1 | 1 | |
| SK40.25.V | SK40 | 25 | 100 | 65 | M20x20 | 2 | 2 | |
| SK40.32.V | SK40 | 32 | 100 | 72 | M20x20 | 2 | 2 | |
| SK40.40.V | SK40 | 40 | 120 | 80 | M20x20 | 2 | 2 | |



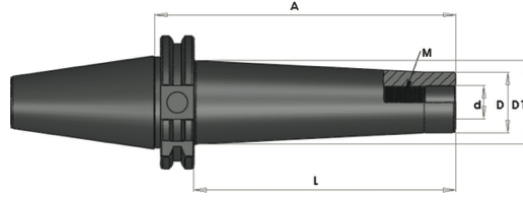
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|---------------|-------|-----------|-----------|-----------|------------|------------|-----------|
| SK40.16.K | SK40 | 16 | 32 | 55 | 17 | 27 | |
| SK40.16.K.100 | SK40 | 16 | 32 | 100 | 17 | 27 | |
| SK40.16.K.160 | SK40 | 16 | 32 | 160 | 17 | 27 | |
| SK40.22.K | SK40 | 22 | 40 | 55 | 19 | 31 | |
| SK40.22.K.100 | SK40 | 22 | 40 | 100 | 19 | 31 | |
| SK40.22.K.160 | SK40 | 22 | 40 | 160 | 19 | 31 | |
| SK40.27.K | SK40 | 27 | 48 | 55 | 21 | 33 | |
| SK40.27.K.100 | SK40 | 27 | 48 | 100 | 21 | 33 | |
| SK40.27.K.160 | SK40 | 27 | 48 | 160 | 21 | 33 | |
| SK40.32.K | SK40 | 32 | 58 | 60 | 24 | 38 | |
| SK40.32.K.100 | SK40 | 32 | 58 | 100 | 24 | 38 | |
| SK40.32.K.160 | SK40 | 32 | 58 | 160 | 24 | 38 | |
| SK40.40.K | SK40 | 40 | 70 | 60 | 27 | 41 | |
| SK40.40.K.100 | SK40 | 40 | 70 | 100 | 27 | 41 | |
| SK40.40.K.160 | SK40 | 40 | 70 | 160 | 27 | 41 | |

SK VİDALI TAKIM TUTUCULAR

DIN 69871



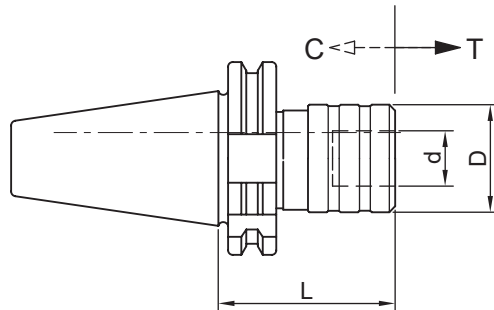
DIN 6339

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | M | D (mm) | D1 (mm) | d (mm) | A (mm) | L (mm) | FİYAT EUR |
|--------------|-------|-----|--------|---------|--------|--------|--------|-----------|
| SK40.M06.050 | BT40 | M6 | 10 | 13 | 6,5 | 77 | 50 | |
| SK40.M06.100 | BT40 | M6 | 10 | 19 | 6,5 | 127 | 100 | |
| SK40.M08.050 | BT40 | M8 | 13 | 23 | 8,5 | 77 | 50 | |
| SK40.M08.100 | BT40 | M8 | 13 | 25 | 8,5 | 127 | 100 | |
| SK40.M10.050 | BT40 | M10 | 18 | 23 | 10,5 | 77 | 50 | |
| SK40.M10.100 | BT40 | M10 | 18 | 32 | 10,5 | 127 | 100 | |
| SK40.M12.050 | BT40 | M12 | 21 | 25 | 12,5 | 77 | 50 | |
| SK40.M12.100 | BT40 | M12 | 21 | 32 | 12,5 | 127 | 100 | |
| SK40.M16.075 | BT40 | M16 | 29 | 29 | 17 | 102 | 75 | |
| SK40.M16.125 | BT40 | M16 | 29 | 34 | 17 | 152 | 125 | |

SK KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

DIN 69871

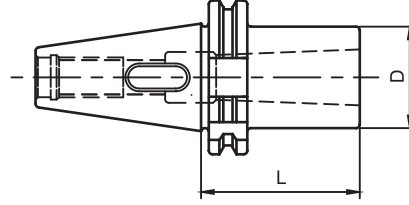


- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3

| KOD | KONİK | KAPASİTE | d (mm) | D (mm) | L (mm) | C-T (mm) | FİYAT EUR |
|------------|-------|----------|--------|--------|--------|-----------|-----------|
| SK40.KCB.1 | SK40 | M3-M12 | 19 | 36,5 | 63 | 7,5-7,5 | |
| SK40.KCB.2 | SK40 | M5-M24 | 31 | 54 | 97 | 12,5-12,5 | |
| SK40.KCB.3 | SK40 | M14-M33 | 48 | 78 | 145 | 20-20 | |

SK KAMALI MORS ADAPTÖRÜ

DIN 69871



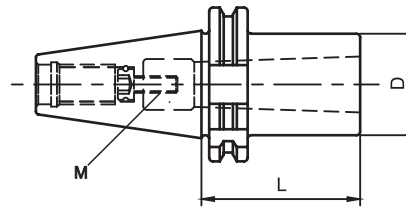
DIN 6383

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | D (mm) | L (mm) | FİYAT EUR |
|------------|-------|----------|--------|--------|-----------|
| SK40.K.MK1 | SK40 | MK1 | 25 | 50 | |
| SK40.K.MK2 | SK40 | MK2 | 32 | 50 | |
| SK40.K.MK3 | SK40 | MK3 | 40 | 70 | |
| SK40.K.MK4 | SK40 | MK4 | 48 | 95 | |

SK ÇEKTİRME CİVATALI MORS ADAPTÖRÜ

DIN 69871



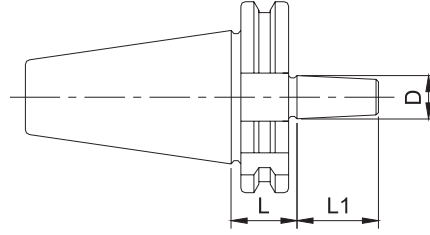
DIN 6364

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc (Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | İÇ KONİK | L (mm) | D (mm) | M (mm) | FİYAT EUR |
|------------|-------|----------|--------|--------|--------|-----------|
| SK40.C.MK1 | SK40 | MK1 | 50 | 25 | M6 | |
| SK40.C.MK2 | SK40 | MK2 | 50 | 32 | M10 | |
| SK40.C.MK3 | SK40 | MK3 | 70 | 40 | M12 | |
| SK40.C.MK4 | SK40 | MK4 | 95 | 63 | M16 | |

SK MANDREN MALAFALARI

DIN 69871



DIN 238

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRc
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
DIN 2080-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | MANDREN KONIĞİ | L (mm) | D (mm) | L1 (mm) | FİYAT EUR |
|----------|-------|----------------|--------|--------|---------|-----------|
| SK40.B16 | SK40 | B16 | 24 | 15,733 | 24 | |
| SK40.B18 | SK40 | B18 | 24 | 17,780 | 32 | |

SK MANDRENLİ BAŞLIKLAR

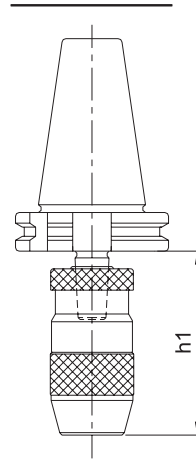
DIN 69871

ÖZELLİKLER

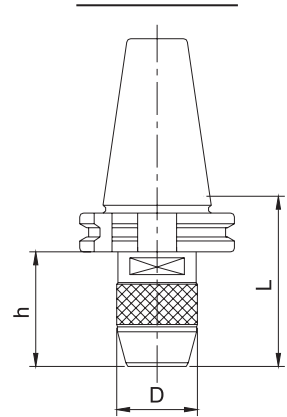
- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm



MANDREN MALAFASI İLE BAĞLAMA



MANDRENLİ BAŞLIK

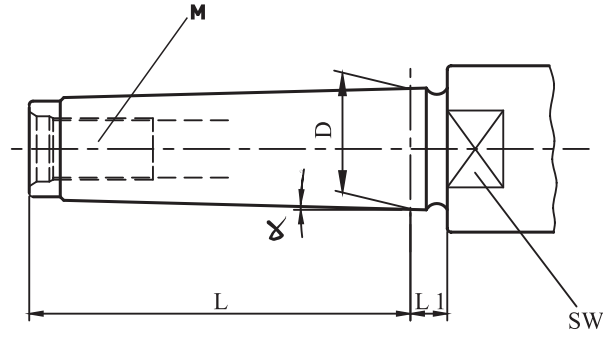


MANDRENLİ BAŞLIK İLE
DAHA KISA h MESAFESİ SAĞLANIR.

| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | h (mm) | FİYAT EUR |
|-----------|-------|---------------|--------|--------|--------|-----------|
| SK40.1.13 | SK40 | 1-13 | 80 | 42 | 61 | |
| SK40.1.16 | SK40 | 1-16 | 95 | 49 | 76 | |

DIN 228A ÇEKTİRMELİ

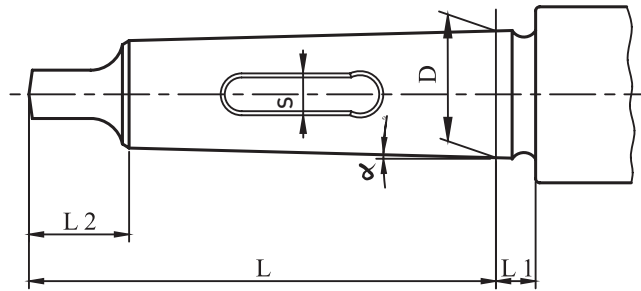
DIN 2207



| MK | α | D | L | L1 | SW | M |
|----|----------|--------|-------|-----|----|-----|
| 2 | 1°25'50" | 17,780 | 64 | 5 | - | M10 |
| 3 | 1°26'16" | 23,825 | 81 | 5 | 24 | M12 |
| 4 | 1°29'15" | 31,267 | 102,5 | 6,5 | 32 | M16 |
| 5 | 1°30'26" | 44,399 | 129,5 | 6,5 | 45 | M20 |

DIN 228B KAMALI

DIN 1806



| MK | α | D | L | L1 | S |
|----|----------|--------|-------|-----|------|
| 2 | 1°25'50" | 17,780 | 75 | 5 | - |
| 3 | 1°26'16" | 23,825 | 94 | 5 | 8,3 |
| 4 | 1°29'15" | 31,267 | 117,5 | 6,5 | 8,3 |
| 5 | 1°30'26" | 44,399 | 149,5 | 6,5 | 12,4 |

ÖZELLİKLER

- MALZEME : ALAŞIMLI SEMENTE ÇELİĞİ min. 900 N/mm²
- SERTLİK : 56-60 HRC / SERTLİK DERİNLİĞİ 0,6-0,9 mm
- AÇI HASSASİYETİ : DIN 7178-1 / AT3

MK PENS TAKIMLARI ÇEKTİRMELİ

DIN 228 FORM A

OZ TİP

DIN 2207



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- MK / OZ ÇEKTİRMELİ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|---|-----------|
| MK3.C.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK4.C.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK4.C.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |
| MK5.C.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK5.C.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

MK PENS TAKIMLARI KAMALI

DIN 228 FORM B

OZ TİP

DIN 1806



DIN 6388-B
ISO 10897

TAKIM KUTUSU İÇİNDEKİLER

- MK / OZ ÇEKTİRMELİ PENS BAŞLIĞI (1 ADET)
- OZ PENS KAPAĞI (1 ADET)
- OZ ANAHTAR (1 ADET)
- OZ PENSLER (16 ADET)

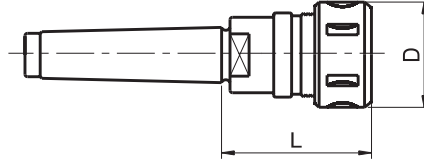
| KOD | KAPASİTE (mm) | KUTU İÇİNDEKİ PENSLERİN ÇAP ÖLÇÜLERİ (mm) | FİYAT EUR |
|--------------|---------------|---|-----------|
| MK3.K.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK4.K.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK4.K.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |
| MK5.K.462E.T | 4-25 | 4-5-6-7-8-9-10-11-12-14-16-18-20-22-24-25 | |
| MK5.K.467E.T | 5-32 | 5-6-7-8-10-12-14-16-18-20-22-24-25-28-30-32 | |

MK PENS BAŞLIKLARI ÇEKTİRMELİ

DIN 228 FORM A

OZ TİP

DIN 2207


DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

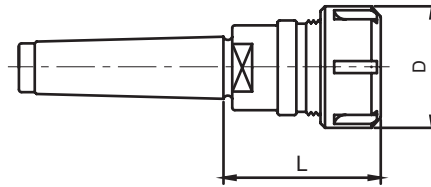
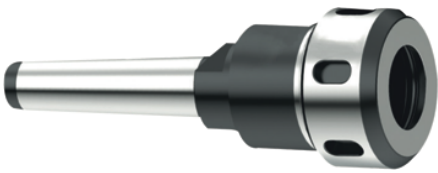
| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|------------|-------|---------------|--------|--------|-----------|
| MK3.C.462E | MK3 | 3-25 | 92 | 60 | |
| MK4.C.462E | MK4 | 3-25 | 78 | 60 | |
| MK4.C.467E | MK4 | 3-32 | 109 | 72 | |
| MK5.C.462E | MK5 | 3-25 | 74 | 60 | |
| MK5.C.467E | MK5 | 3-32 | 88 | 72 | |

MK PENS BAŞLIKLARI ÇEKTİRMELİ

DIN 228 FORM A

ER TİP

DIN 2207


DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

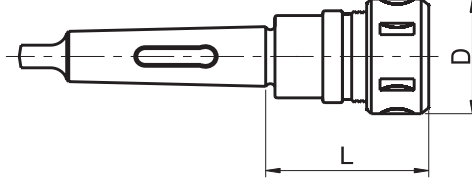
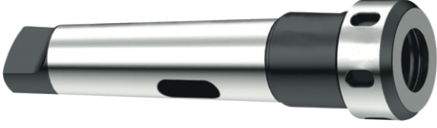
| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|------------|-------|---------------|--------|--------|-----------|
| MK2.C.ER25 | MK2 | 1-16 | 52 | 42 | |
| MK2.C.ER32 | MK2 | 2-20 | 60 | 50 | |
| MK3.C.ER32 | MK3 | 2-20 | 70 | 50 | |
| MK3.C.ER40 | MK3 | 2-26 | 82 | 63 | |
| MK4.C.ER32 | MK4 | 2-20 | 62 | 50 | |
| MK4.C.ER40 | MK4 | 2-26 | 82 | 63 | |

MK PENS BAŞLIKLARI KAMALI

DIN 228 FORM B

OZ TİP

DIN 1806

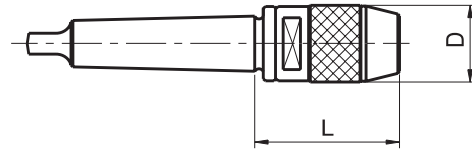
DIN 6388
ISO 10897

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | KAPASİTE (mm) | L (mm) | D (mm) | FİYAT EUR |
|------------|-------|---------------|--------|--------|-----------|
| MK3.K.462E | MK3 | 3-25 | 77 | 60 | |
| MK4.K.462E | MK4 | 3-25 | 78 | 60 | |
| MK4.K.467E | MK4 | 3-32 | 89 | 72 | |
| MK5.K.462E | MK5 | 3-25 | 74 | 60 | |
| MK5.K.467E | MK5 | 3-32 | 88 | 72 | |

MK MANDRENLİ BAŞLIKLAR

DIN 228 FORM B



ÖZELLİKLER

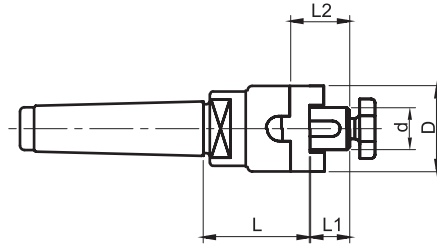
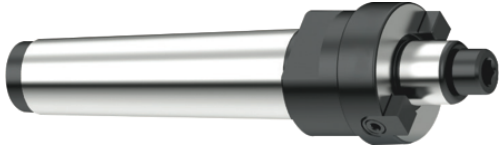
- ELLE VE ANAHTARLARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm

| KOD | KONİK | KAPASİTE (mm) | D (mm) | L (mm) | FİYAT EUR |
|----------|-------|---------------|--------|--------|-----------|
| MK2.0.10 | MK2 | 0-10 | 35 | 75 | |
| MK2.1.13 | MK2 | 1-13 | 42 | 85 | |
| MK3.0.10 | MK3 | 0-10 | 35 | 75 | |
| MK3.1.13 | MK3 | 1-13 | 42 | 85 | |
| MK3.1.16 | MK3 | 1-16 | 49 | 100 | |
| MK3.4.20 | MK3 | 4-20 | 55 | 110 | |
| MK4.1.13 | MK4 | 1-13 | 42 | 85 | |
| MK4.1.16 | MK4 | 1-16 | 49 | 100 | |
| MK4.4.20 | MK4 | 4-20 | 55 | 115 | |

MK KOMBİNE MALAFALAR ÇEKTİRMELİ

DIN 228 FORM A

DIN 2207



DIN 6358

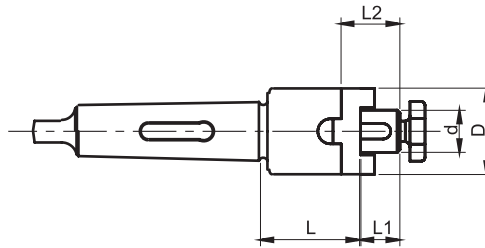
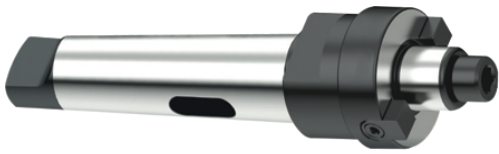
- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|------------|-------|--------|--------|--------|---------|---------|-----------|
| MK3.C.16.K | MK3 | 16 | 32 | 50 | 17 | 27 | |
| MK3.C.22.K | MK3 | 22 | 40 | 50 | 19 | 31 | |
| MK3.C.27.K | MK3 | 27 | 48 | 60 | 21 | 33 | |
| MK4.C.16.K | MK4 | 16 | 32 | 50 | 17 | 27 | |
| MK4.C.22.K | MK4 | 22 | 40 | 50 | 19 | 31 | |
| MK4.C.27.K | MK4 | 27 | 48 | 60 | 21 | 33 | |
| MK4.C.32.K | MK4 | 32 | 58 | 60 | 24 | 38 | |
| MK4.C.40.K | MK4 | 40 | 70 | 65 | 27 | 41 | |
| MK5.C.16.K | MK5 | 16 | 32 | 60 | 17 | 27 | |
| MK5.C.22.K | MK5 | 22 | 40 | 60 | 19 | 31 | |
| MK5.C.27.K | MK5 | 27 | 48 | 65 | 21 | 33 | |
| MK5.C.32.K | MK5 | 32 | 58 | 70 | 24 | 38 | |
| MK5.C.40.K | MK5 | 40 | 70 | 70 | 27 | 41 | |

MK KOMBİNE MALAFALAR KAMALI

DIN 228 FORM B

DIN 1806



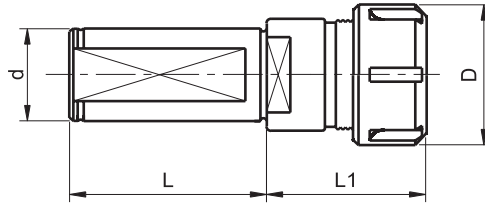
DIN 6358

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
(Derinlik 0,6-0,9 mm)
- AÇI : DIN 7178-1/AT3
- SALGI : MAX. 0,006 mm

| KOD | KONİK | d (mm) | D (mm) | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|------------|-------|--------|--------|--------|---------|---------|-----------|
| MK4.K.16.K | MK4 | 16 | 32 | 50 | 17 | 27 | |
| MK4.K.22.K | MK4 | 22 | 40 | 50 | 19 | 31 | |
| MK4.K.27.K | MK4 | 27 | 48 | 50 | 21 | 33 | |
| MK4.K.32.K | MK4 | 32 | 58 | 60 | 24 | 38 | |
| MK4.K.40.K | MK4 | 40 | 70 | 60 | 27 | 41 | |
| MK5.K.16.K | MK5 | 16 | 32 | 50 | 17 | 27 | |
| MK5.K.22.K | MK5 | 22 | 40 | 50 | 19 | 31 | |
| MK5.K.27.K | MK5 | 27 | 48 | 50 | 21 | 33 | |
| MK5.K.32.K | MK5 | 32 | 58 | 60 | 24 | 38 | |
| MK5.K.40.K | MK5 | 40 | 70 | 60 | 27 | 41 | |

C (SİLİNDİRİK ŞAFTLI) PENS BAŞLIKLARI

ER TİPİ



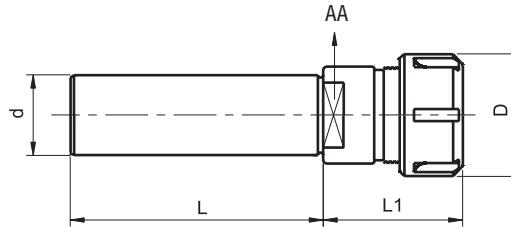
DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
- SALGI : MAX. 0,006 mm

| KOD | KAPASİTE (mm) | d (mm) | D (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|-----------|---------------|--------|--------|--------|---------|-----------|
| C.25.ER32 | 2-20 | 25 | 50 | 50 | 53 | |
| C.32.ER25 | 1-16 | 32 | 42 | 60 | 42 | |
| C.32.ER32 | 2-20 | 32 | 50 | 60 | 38 | |
| C.32.ER40 | 2-26 | 32 | 63 | 60 | 59,5 | |
| C.40.ER32 | 2-20 | 40 | 50 | 70 | 38 | |
| C.40.ER40 | 2-26 | 40 | 63 | 70 | 59,5 | |

CY (SİLİNDİRİK ŞAFTLI) PENS BAŞLIKLARI

ER TİPİ



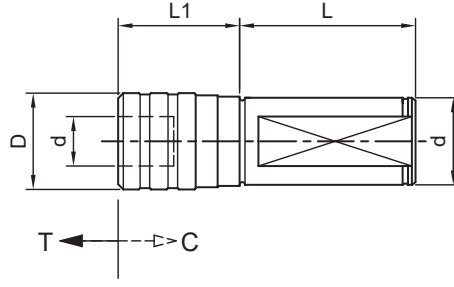
DIN 6499
ISO 15488

- MALZEME : 20 Mn Cr5
- SERTLİK : 58 ± 2 HRC
- SALGI : MAX. 0,006 mm

| KOD | KAPASİTE (mm) | d (mm) | AA (mm) | D (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|----------------|---------------|--------|---------|---------|--------|---------|-----------|
| CY.16.ER11.100 | 1-7 | 16 | 17 | 19 | 100 | 26,5 | |
| CY.16.ER16.70 | 1-10 | 16 | 19 | 28 (32) | 70 | 36,5 | |
| CY.16.ER16.150 | 1-10 | 16 | 19 | 28 (32) | 150 | 36,5 | |
| CY.16.ER20.100 | 1-13 | 16 | 22 | 34 (35) | 100 | 46,5 | |
| CY.20.ER16.50 | 1-10 | 20 | 19 | 28 (32) | 50 | 30,5 | |
| CY.20.ER16.70 | 1-10 | 20 | 19 | 28 (32) | 70 | 30,5 | |
| CY.20.ER16.100 | 1-10 | 20 | 19 | 28 (32) | 100 | 30,5 | |
| CY.20.ER16.150 | 1-10 | 20 | 19 | 28 (32) | 150 | 30,5 | |
| CY.20.ER20.100 | 1-13 | 20 | 22 | 34 (35) | 100 | 46,5 | |
| CY.20.ER25.50 | 1-16 | 20 | 28 | 42 | 50 | 47 | |
| CY.20.ER25.100 | 1-16 | 20 | 28 | 42 | 100 | 47 | |
| CY.25.ER25.50 | 1-16 | 25 | 28 | 42 | 50 | 47 | |
| CY.25.ER25.100 | 1-16 | 25 | 28 | 42 | 100 | 47 | |
| CY.25.ER25.150 | 1-16 | 25 | 28 | 42 | 150 | 47 | |
| CY.25.ER32.150 | 2-20 | 25 | 36 | 50 | 150 | 53 | |
| CY.32.ER25.150 | 1-16 | 32 | 28 | 42 | 150 | 42 | |
| CY.32.ER32.150 | 2-20 | 32 | 36 | 50 | 150 | 38 | |
| CY.40.ER40.150 | 2-26 | 40 | 44 | 63 | 150 | 59,5 | |

C (SİLİNDİRİK ŞAFTLI) KILAVUZ ÇEKME BAŞLIĞI GİRİŞ VE ÇIKIŞ KOMPANZELİ

TİP 7400

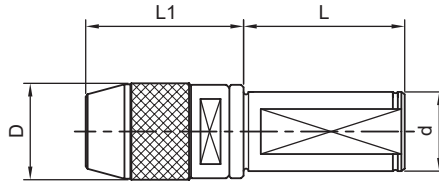


ÖZELLİKLER

- CNC TORNALARDA SORUNSUZ KILAVUZ ÇEKMEK İÇİN KULLANILIR

| KOD | KONİK | KAPASİTE | d (mm) | D (mm) | L (mm) | L1 (mm) | C-T (mm) | FİYAT EUR |
|-----------|-------|----------|--------|--------|--------|---------|-----------|-----------|
| C25.KCB.1 | 25 | M3-M12 | 19 | 36,5 | 60 | 45 | 7,5-7,5 | |
| C25.KCB.2 | 25 | M5-M24 | 31 | 54 | 60 | 45 | 12,5-12,5 | |
| C32.KCB.1 | 32 | M3-M12 | 19 | 36,5 | 75 | 40 | 7,5-7,5 | |
| C32.KCB.2 | 32 | M5-M24 | 31 | 54 | 75 | 40 | 12,5-12,5 | |
| C32.KCB.3 | 32 | M14-M33 | 48 | 78 | 75 | 40 | 20-20 | |

C (SİLİNDİRİK ŞAFTLI) MANDRENLİ BAŞLIK



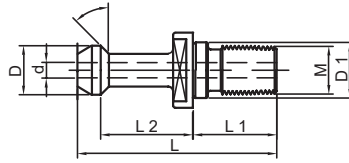
ÖZELLİKLER

- ELLE VE ANAHTARLA SIKILIP ÇÖZÜLEBİLİR
- SALGI : MAX. 0,06 mm

| KOD | KAPASİTE (mm) | d (mm) | D (mm) | L (mm) | L1 (mm) | FİYAT EUR |
|----------|---------------|--------|--------|--------|---------|-----------|
| C20.1.13 | 1-13 | 20 | 42 | 50 | 88 | |
| C25.1.13 | 1-13 | 25 | 42 | 50 | 88 | |
| C25.1.16 | 1-16 | 25 | 49 | 50 | 105 | |
| C32.0.10 | 0-10 | 32 | 35 | 60 | 78 | |
| C32.1.13 | 1-13 | 32 | 42 | 60 | 88 | |
| C32.1.16 | 1-16 | 32 | 49 | 60 | 105 | |
| C32.4.20 | 4-20 | 32 | 55 | 60 | 115 | |
| C40.0.10 | 0-10 | 40 | 35 | 60 | 78 | |
| C40.1.13 | 1-13 | 40 | 42 | 70 | 88 | |
| C40.1.16 | 1-16 | 40 | 49 | 70 | 105 | |
| C40.4.20 | 4-20 | 40 | 55 | 70 | 115 | |

BT ÇEKTİRME CİVATALARI

MAS 403 - BT/JIS B 6339



BT BAŞLIKLAR İÇİNDİR

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC

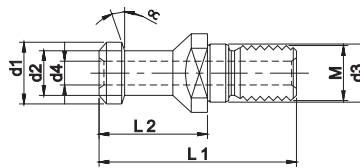
A TİPLER SU KANALLIDIR.

| KOD | ↗ | TİP | D (mm) | D1 (mm) | d (mm) | M | L (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|-------------|-----|-----|--------|---------|--------|-----|--------|---------|---------|-----------|
| BT30.CV.1.B | 45° | B | 11 | 12,5 | - | M12 | 43 | 20 | 18 | |
| BT30.CV.1.A | | A | 11 | 12,5 | 2,5 | M12 | 43 | 20 | 18 | |
| BT40.CV.1.B | | B | 15 | 17 | - | M16 | 60 | 25 | 28 | |
| BT40.CV.1.A | | A | 15 | 17 | 3,3 | M16 | 60 | 25 | 28 | |
| BT40.MZK* | | A | 18,796 | 17 | 7 | M16 | 44,106 | 25 | 14,026 | |
| BT50.CV.1.B | | B | 23 | 25 | - | M24 | 85 | 40 | 35 | |
| BT50.CV.1.A | | A | 23 | 25 | 8,5 | M24 | 85 | 40 | 35 | |

MZK* MAZAK TEZGAHLAR İÇİNDİR.

SK ÇEKTİRME CİVATALARI

DIN 69872 A/B



SK BAŞLIKLAR İÇİNDİR

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC

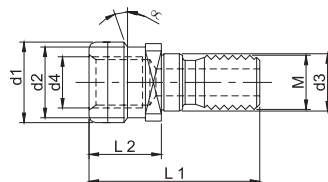
A TİPLER SU KANALLIDIR.

| KOD | ↗ | TİP | d1 (mm) | d2 (mm) | d3 (mm) | d4 (mm) | M | L1 (mm) | L2 (mm) | FİYAT EUR |
|-----------|-----|-----|---------|---------|---------|---------|-----|---------|---------|-----------|
| SK30.CV.B | 15° | B | 13 | 9 | 13 | - | M12 | 44 | 24 | |
| SK30.CV.A | | A | 13 | 9 | 13 | 4 | M12 | 44 | 24 | |
| SK40.CV.B | | B | 19 | 14 | 17 | - | M16 | 54 | 26 | |
| SK40.CV.A | | A | 19 | 14 | 17 | 7 | M16 | 54 | 26 | |
| SK50.CV.B | | B | 28 | 21 | 25 | - | M24 | 74 | 34 | |
| SK50.CV.A | | A | 28 | 21 | 25 | 11,5 | M24 | 74 | 34 | |

ISO / DIN 2080 ÇEKTİRME CİVATALARI

BU ÇEKTİRME CİVATALARI BT, SK VE CV BAŞLIKLARIN DIN2079 FENER MİLLERİNE BAĞLANABİLMELERİ İÇİN ADAPTÖR GÖREVİ YAPARLAR .

- MALZEME : 20 Mn Cr5
- SERTLİK : 56 ± 2 HRC



| KOD | ↗ | d1 (mm) | d2 (mm) | d3 (mm) | L1 (mm) | L2 (mm) | FİYAT EUR |
|-----------|-----|---------|---------|---------|---------|---------|-----------|
| ISO 40.BT | 15° | 25 | 21 | 17 | 56 | 28 | |
| ISO 40.SK | | 25 | 21 | 17 | 53 | 25 | |
| ISO 50.BT | - | 39 | 32 | 25 | 65 | 25 | |

OZ ANAHTARLAR

DIN1810A



| KOD | SIKMA KAPASİTESİ (mm) | KALINLIK (mm) | BOY (mm) | FİYAT EUR |
|--------|-----------------------|---------------|----------|-----------|
| 462E.A | 58-62 | 8 | 210 | |
| 467E.A | 68-75 | 8 | 210 | |

ER ANAHTARLAR

DIN 6499



| KOD | SIKMA KAPASİTESİ (mm) | KALINLIK (mm) | BOY (mm) | FİYAT EUR |
|--------|-----------------------|---------------|----------|-----------|
| ER16.A | 32 | 5 | 163 | |
| ER20.A | 35 | 5 | 180 | |
| ER25.A | 42 | 6 | 206 | |
| ER32.A | 50 | 6 | 253 | |
| ER40.A | 63 | 8 | 284 | |

ER ANAHTARLAR (MINİ TİP)

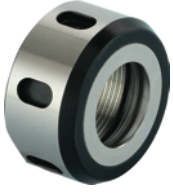
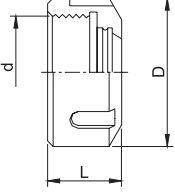
DIN 6499



| KOD | SIKMA KAPASİTESİ (mm) | KALINLIK (mm) | BOY (mm) | FİYAT EUR |
|----------|-----------------------|---------------|----------|-----------|
| ER8.A.M | 1-5 | 12 | 130 | |
| ER11.A.M | 1-7 | 16 | 130 | |
| ER16.A.M | 1-10 | 22 | 130 | |


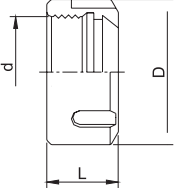
OZ PENS KAPAKLARI

DIN6388-D / ISO10897

|   | KOD | SIKMA KAPASİTESİ (mm) | d (mm) | D (mm) | L (mm) | FİYAT EUR |
|---|--------|-----------------------|--------|--------|--------|-----------|
| | 462E.K | 3-25 | M48X2 | 60 | 30 | |
| 467E.K | 3-32 | M60X2,5 | 72 | 33,5 | | |


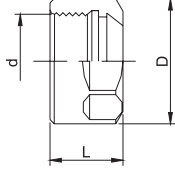
ER PENS KAPAKLARI

DIN 6499 / ISO15488

|   | KOD | SIKMA KAPASİTESİ (mm) | d (mm) | D (mm) | L (mm) | FİYAT EUR |
|---|--------|-----------------------|---------|--------|--------|-----------|
| | ER16.K | 1-10 | M22x1,5 | 32 | 17,5 | |
| ER20.K | 1-13 | M25x1,5 | 35 | 19 | | |
| ER25.K | 1-16 | M32x1,5 | 42 | 20 | | |
| ER32.K | 2-20 | M40x1,5 | 50 | 22,5 | | |
| ER40.K | 2-26 | M50x1,5 | 63 | 25,5 | | |

ER PENS KAPAKLARI ANAHTAR AĞIZLI

DIN 6499 / ISO15488

|   | KOD | SIKMA KAPASİTESİ (mm) | d (mm) | D (mm) | L (mm) | FİYAT EUR |
|---|--------|-----------------------|----------|--------|--------|-----------|
| | ER11.K | 1-7 | M14x0,75 | 19 | 11,3 | |
| ER16.K | 1-10 | M22x1,5 | 28 | 17,5 | | |
| ER20.K | 1-13 | M25x1,5 | 34 | 19 | | |

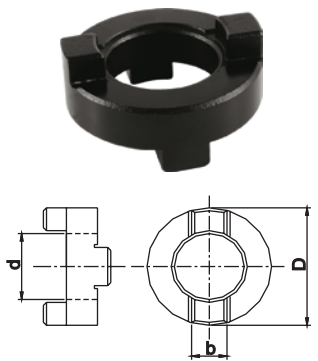
ER PENS KAPAKLARI MİNİ TİP

DIN 6499 / ISO15488

|   | KOD | SIKMA KAPASİTESİ (mm) | d (mm) | D (mm) | L (mm) | FİYAT EUR |
|---|---------|-----------------------|----------|--------|--------|-----------|
| | ER8.K.M | 1-5 | M10x0,75 | 12 | 9 | |
| ER11.K.M | 1-7 | M13x0,75 | 16 | 12 | | |
| ER16.K.M | 1-10 | M19x1 | 22 | 18 | | |
| ER20.K.M | 1-13 | M24x1 | 28 | 19 | | |

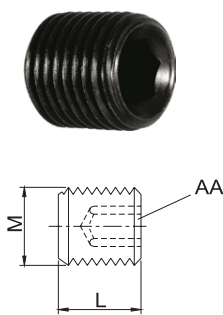
TIRNAKLI PUL

DIN 6366

|  | KOD | MALAFİA ÇAPI | d (mm) | D (mm) | b (mm) | FİYAT EUR |
|---|-------|-----------------|-----------|-----------|-----------|-----------|
| | TP 16 | 16 | 16 | 32 | 8 | |
| TP 22 | 22 | 22 | 40 | 10 | | |
| TP 27 | 27 | 27 | 48 | 12 | | |
| TP 32 | 32 | 32 | 58 | 14 | | |
| TP 40 | 40 | 40 | 68 | 16 | | |
| TP 50 | 50 | 50 | 84 | 18 | | |
| TP 60 | 60 | 60 | 98 | 20 | | |

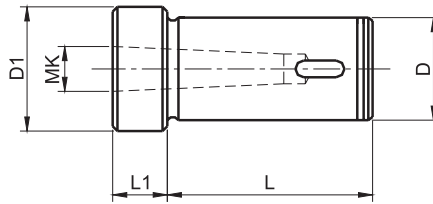
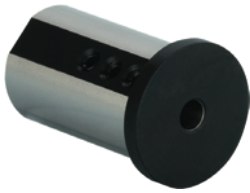
VELDON CİVATASI

DIN 1835-B

|  | KOD | VELDON ÇAPI | M (mm) | L (mm) | AA (mm) | FİYAT EUR |
|--|-------|----------------|-----------|-----------|------------|-----------|
| | M6.V | 6 | M6 | 10 | 3 | |
| M8.V | 8 | M8 | 10 | 4 | | |
| M10.V | 10 | M10 | 12 | 5 | | |
| M12.V | 12-14 | M12 | 16 | 6 | | |
| M14.V | 16-18 | M14 | 16 | 6 | | |
| M16.V | 20 | M16 | 16 | 8 | | |
| M18.V | 25 | M18 | 20 | 10 | | |
| M20.V | 32-40 | M20 | 20 | 10 | | |

REDÜKSİYON KOVANLARI MORS KONİK ŞAFTLAR İÇİN

TİP 7300



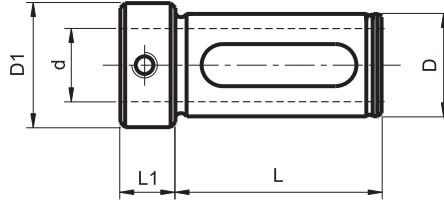
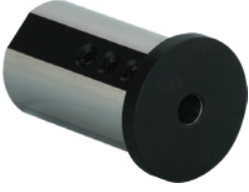
ÖZELLİKLER

- CNC TORNALARDA KONİK ŞAFTLI TAKIMLARI BAĞLAMAK İÇİNDİR
- SALGI : MAX.0,01 mm

| KOD | D (mm) | MK | D1 (mm) | L1 (mm) | L (mm) | FİYAT EUR |
|------|-----------|-----|------------|------------|-----------|-----------|
| 7331 | 32 | MK1 | 39 | 14 | 70 | |
| 7332 | | MK2 | | | | |
| 7333 | | MK3 | | | | |
| 7341 | 40 | MK1 | 46,5 | 15 | 80 | |
| 7342 | | MK2 | | | | |
| 7343 | | MK3 | | | | |
| 7344 | | MK4 | | | | |

REDÜKSİYON KOVANLARI SİLİNDİRİK ŞAFTLAR İÇİN

TİP 7400

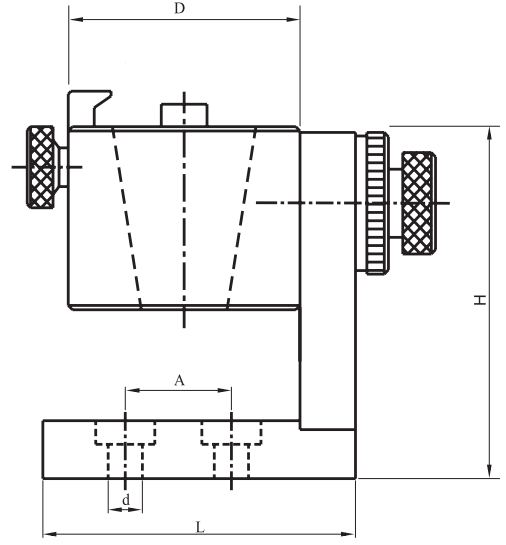
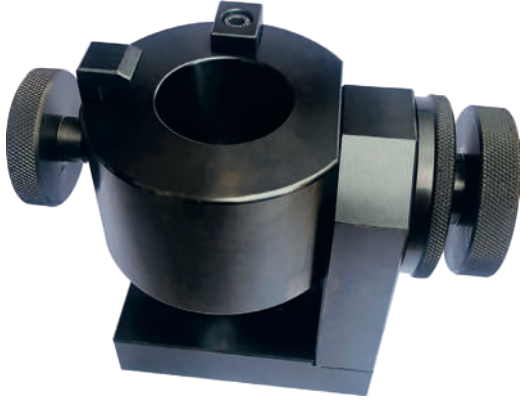


ÖZELLİKLER

- CNC TORNALARDA DELİK KATERLERİNİ VE SİLİNDİRİK ŞAFTLI TAKIMLARI BAĞLAMAK İÇİN KULLANILIR
- SALGI : MAX.0,01 mm

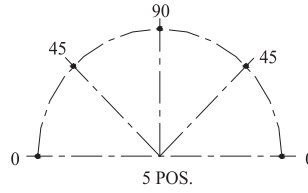
| KOD | D (mm) | d (mm) | D1 (mm) | L1 (mm) | L (mm) | FİYAT EUR |
|------|--------|--------|---------|---------|--------|-----------|
| 7410 | 20 | 8 | 20 | 5 | 40 | |
| 7411 | | 10 | | | | |
| 7412 | | 12 | | | | |
| 7414 | | 16 | | | | |
| 7420 | 25 | 8 | 32 | 13 | 50 | |
| 7421 | | 10 | | | | |
| 7422 | | 12 | | | | |
| 7424 | | 16 | | | | |
| 7425 | | 20 | | | | |
| 7430 | 32 | 8 | 39 | 14 | 70 | |
| 7431 | | 10 | | | | |
| 7432 | | 12 | | | | |
| 7434 | | 16 | | | | |
| 7435 | | 20 | | | | |
| 7436 | | 25 | | | | |
| 7440 | 40 | 8 | 46,5 | 15 | 80 | |
| 7441 | | 10 | | | | |
| 7442 | | 12 | | | | |
| 7444 | | 16 | | | | |
| 7445 | | 20 | | | | |
| 7446 | | 25 | | | | |
| 7447 | | 32 | | | | |
| 7450 | 50 | 8 | 58 | 15 | 100 | |
| 7451 | | 10 | | | | |
| 7452 | | 12 | | | | |
| 7454 | | 16 | | | | |
| 7455 | | 20 | | | | |
| 7456 | | 25 | | | | |
| 7457 | | 32 | | | | |
| 7458 | | 40 | | | | |

MONTAJ APARATLARI (ÇELİK)



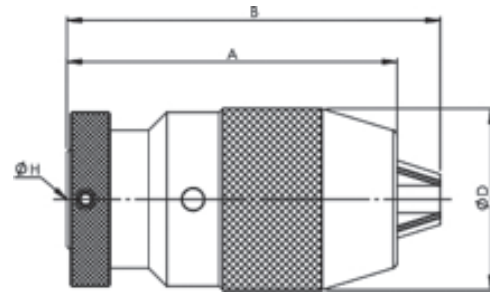
ÖZELLİKLER

- SAĞA VE SOLA 90 DERECE DÖNDÜRÜLEBİLİR
- HER 45 DERECE VE 90 DERECE SABİTLENEBİLİR



| KOD | TİP | D (mm) | d (mm) | H (mm) | A (mm) | L (mm) | FİYAT EUR |
|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| SK.30 | SK 30 | 88 | 11 | 127 | 50 | 105 | |
| SK.40 | SK 40 | 93 | 11 | 127 | 50 | 105 | |
| SK.50 | SK 50 | 118 | 11 | 172 | 50 | 105 | |

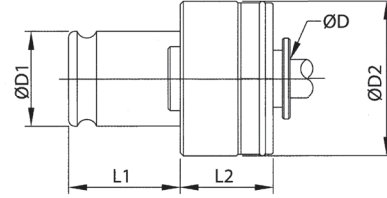
ELLE SIKMALI MANDRENLER



| KOD | KAPASİTE (mm) | KONİK (H) | A (mm) | B (mm) | ØD | FİYAT EUR |
|-----|------------------|-----------|-----------|-----------|----|-----------|
| 510 | 0,3-10 | B12 | 80 | 91 | 43 | |
| 513 | 0,3-13 | B16 | 90 | 102 | 50 | |
| 515 | 2,5-16 | B16 | 102 | 114 | 57 | |
| 516 | 2,5-16 | B16 | 102 | 114 | 57 | |
| 520 | 5-20 | B22 | 121 | 140 | 59 | |

ÖZELLİKLER

- TORK, KILAVUZU BELİRLİ PENSLERİN ETKİLERİNDEN KORUMAK AMACIYLA FABRİKA TARAFINDAN AYARLANMIŞTIR. EĞİTİMLİ KULLANICILAR TARAFINDAN KILAVUZ DAYANIMI VE MALZEMESİNE GÖRE UFAK DEĞİŞİKLİKLER YAPILABİLİR
- PENS, AYARLI TORKUN ÜSTÜNE ÇIKTIĞINDA ÇALIŞMAYI DURDURUR
- HER KILAVUZ SAP ÇAPI İÇİN BİR PENS GEREKLİDİR



EMNİYETLİ TİP KILAVUZ ADAPTÖRÜ Ø19

| KOD | KILAVUZ ÖLÇÜSÜ | KILAVUZ SAPI | | KAPASİTE | L1 (mm) | L2 (mm) | ØD1 (mm) | ØD2 (mm) | FİYAT EUR |
|---------|----------------|--------------|-----|----------|---------|---------|----------|----------|-----------|
| | | ØD | □ | | | | | | |
| 312.020 | M2 | 2.8 | 2.1 | M2~M16 | 22.5 | 25 | 19 | 32 | |
| 312.030 | M3 | 3.5 | 2.7 | | | | | | |
| 312.040 | M4 | 4.5 | 3.4 | | | | | | |
| 312.050 | M5 | 6.0 | 4.9 | | | | | | |
| 312.060 | M6 | 6.0 | 4.9 | | | | | | |
| 312.080 | M8 | 8.0 | 6.2 | | | | | | |
| 312.100 | M10 | 10.0 | 8.0 | | | | | | |
| 312.120 | M12 | 9.0 | 7.0 | | | | | | |
| 312.140 | M14 | 11.0 | 9.0 | | | | | | |
| 312.160 | M16 | 12.0 | 9.0 | | | | | | |

EMNİYETLİ TİP KILAVUZ ADAPTÖRÜ Ø31

| KOD | KILAVUZ ÖLÇÜSÜ | KILAVUZ SAPI | | KAPASİTE | L1 (mm) | L2 (mm) | ØD1 (mm) | ØD2 (mm) | FİYAT EUR |
|---------|----------------|--------------|------|----------|---------|---------|----------|----------|-----------|
| | | ØD | □ | | | | | | |
| 820.050 | M5 | 6.0 | 4.9 | M5~M36 | 35 | 30.5 | 31 | 50 | |
| 820.060 | M6 | 6.0 | 4.9 | | | | | | |
| 820.080 | M8 | 8.0 | 6.2 | | | | | | |
| 820.100 | M10 | 10.0 | 8.0 | | | | | | |
| 820.120 | M12 | 9.0 | 7.0 | | | | | | |
| 820.140 | M14 | 11.0 | 9.0 | | | | | | |
| 820.160 | M16 | 12.0 | 9.0 | | | | | | |
| 820.180 | M18 | 14.0 | 11.0 | | | | | | |
| 820.200 | M20 | 16.0 | 12.0 | | | | | | |
| 820.220 | M22 | 18.0 | 14.5 | | | | | | |
| 820.240 | M24 | 18.0 | 14.5 | | | | | | |
| 820.270 | M27 | 20.0 | 16.0 | | | | | | |
| 820.300 | M30 | 22.0 | 18.0 | | | | | | |
| 820.330 | M33 | 25.0 | 20.0 | | | | | | |
| 820.360 | M36 | 28.0 | 22.0 | | | | | | |

| KOD | AÇIKLAMA | FİYAT EUR |
|------------|-----------------------------|-----------|
| TC820/312 | TRE 2/1 REDÜKSİYON ADAPTÖRÜ | |
| TC1433/820 | TRE 3/2 REDÜKSİYON ADAPTÖRÜ | |

