



Drehmomenttabelle MULTIHÉLIX

Torque table MULTIHÉLIX

Tableau torque MULTIHÉLIX

| | | |
|--------------------|----------|-----------|
| Dok.-Nr.: VRZ-0021 | | Seite 1/2 |
| | Datum | Visum |
| Erstellt: | 07.02.11 | Heller |
| Freigabe: | 08.02.11 | Heller |

| Grösse Size Taille | Drehzahl Speed Vitesse n_1 (1/min) | | 500 | | | 1'000 | | | 2'000 | | | 3'000 | | |
|--------------------------|---|-------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|
| | a [mm] | i [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] |
| 0/1 M | 23.5 | 6 | 8.8 | 22.1 | 0.86 | 8.1 | 20.2 | 0.88 | 6.8 | 17.2 | 0.88 | 6.0 | 15.0 | 0.89 |
| | | 8 | 8.4 | 22.2 | 0.83 | 7.7 | 20.5 | 0.86 | 6.7 | 17.7 | 0.88 | 6.0 | 15.6 | 0.88 |
| | | 11 | 8.4 | 23.3 | 0.79 | 7.9 | 21.6 | 0.83 | 6.8 | 18.8 | 0.84 | 6.1 | 16.6 | 0.85 |
| | | 13 | 8.4 | 26.9 | 0.76 | 7.9 | 24.8 | 0.8 | 6.8 | 21.5 | 0.82 | 6.0 | 18.9 | 0.82 |
| | | 17 | 9.1 | 27.0 | 0.72 | 8.5 | 25.1 | 0.77 | 7.4 | 22.0 | 0.79 | 6.6 | 19.5 | 0.80 |
| | | 23 | 8.8 | 22.9 | 0.66 | 8.8 | 23.0 | 0.72 | 7.7 | 20.3 | 0.74 | 7.0 | 18.1 | 0.75 |
| | | 27 | 8.1 | 31.9 | 0.62 | 7.5 | 29.6 | 0.68 | 6.5 | 25.8 | 0.70 | 5.8 | 22.9 | 0.71 |
| | | 35 | 9.3 | 29.0 | 0.57 | 8.6 | 27.0 | 0.63 | 7.5 | 23.7 | 0.66 | 6.8 | 21.2 | 0.67 |
| | | 46 | 9.5 | 24.5 | 0.49 | 6.3 | 22.7 | 0.56 | 5.4 | 20.0 | 0.59 | 4.9 | 17.8 | 0.60 |
| | | 62 | 10.5 | 14.0 | 0.37 | 8.9 | 12.0 | 0.42 | 8.2 | 11.0 | 0.44 | 7.4 | 10.0 | 0.45 |
| 72 | 8.7 | 16.0 | 0.41 | 8.1 | 15.6 | 0.47 | 7.8 | 15.4 | 0.51 | 7.3 | 15.1 | 0.52 | | |

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|--------------------------|---|-------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|
| | a [mm] | i [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] |
| 1/1 M | 36.1 | 5 | 21.9 | 40.6 | 0.9 | 19.1 | 35.5 | 0.91 | 15.4 | 28.4 | 0.92 | 12.7 | 23.6 | 0.92 |
| | | 8.5 | 21.4 | 54.3 | 0.9 | 19.3 | 48.8 | 0.89 | 16.0 | 40.7 | 0.90 | 13.8 | 34.9 | 0.90 |
| | | 10 | 21.5 | 45.1 | 0.8 | 19.1 | 40.2 | 0.86 | 15.8 | 33.1 | 0.87 | 13.3 | 28.0 | 0.87 |
| | | 12 | 18.7 | 62.0 | 0.9 | 17.0 | 56.4 | 0.87 | 14.5 | 48.0 | 0.88 | 12.5 | 41.6 | 0.88 |
| | | 15 | 19.8 | 57.6 | 0.9 | 19.8 | 57.6 | 0.86 | 17.2 | 49.9 | 0.87 | 15.2 | 44.0 | 0.88 |
| | | 18 | 22.4 | 58.9 | 0.8 | 22.3 | 58.7 | 0.82 | 19.0 | 50.0 | 0.83 | 16.5 | 43.2 | 0.83 |
| | | 22.5 | 21.0 | 50.1 | 0.8 | 21.0 | 50.1 | 0.80 | 21.0 | 50.1 | 0.82 | 18.7 | 44.5 | 0.82 |
| | | 28.5 | 21.1 | 40.4 | 0.7 | 21.0 | 40.3 | 0.77 | 20.8 | 39.3 | 0.79 | 20.4 | 38.8 | 0.79 |
| | | 37 | 22.6 | 57.3 | 0.7 | 21.6 | 54.7 | 0.70 | 20.5 | 52.0 | 0.72 | 17.9 | 45.3 | 0.72 |
| | | 46 | 20.7 | 42.5 | 0.6 | 20.4 | 42.0 | 0.68 | 20.2 | 41.4 | 0.70 | 19.7 | 40.7 | 0.70 |
| | | 58 | 18.1 | 26.0 | 0.6 | 18.0 | 26.0 | 0.63 | 18.0 | 25.3 | 0.65 | 17.7 | 24.7 | 0.66 |
| | | 75 | 22.8 | 29.3 | 0.5 | 22.6 | 29.3 | 0.54 | 22.2 | 29.0 | 0.56 | 21.8 | 28.7 | 0.57 |
| 100 | 9.7 | 14.5 | 0.4 | 9.4 | 14.0 | 0.40 | 9.0 | 13.3 | 0.41 | 8.8 | 13.0 | 0.42 | | |



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| Erstellt: 07.02.11 | Heller |
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| Grösse Size Taille | Drehzahl Speed Vitesse n_1 (1/min) | | 500 | | | 1'000 | | | 2'000 | | | 3'000 | | |
|--------------------------|---|-------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|
| | a [mm] | i [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] |
| 2/1 M | 47.5 | 5 | 46.5 | 80.6 | 0.92 | 39.5 | 68.4 | 0.93 | 30.4 | 52.8 | 0.93 | 24.7 | 42.9 | 0.93 |
| | | 8.5 | 46.5 | 106.1 | 0.90 | 41.2 | 94.0 | 0.91 | 33.3 | 76.0 | 0.92 | 27.9 | 63.8 | 0.92 |
| | | 11.75 | 41.0 | 91.1 | 0.88 | 40.8 | 90.5 | 0.89 | 33.2 | 73.7 | 0.90 | 28.0 | 62.2 | 0.90 |
| | | 16 | 43.2 | 81.3 | 0.84 | 43.2 | 81.3 | 0.86 | 41.2 | 77.7 | 0.86 | 34.9 | 65.7 | 0.86 |
| | | 18 | 46.6 | 132.2 | 0.82 | 42.2 | 119.8 | 0.84 | 34.5 | 98.0 | 0.85 | 29.2 | 82.8 | 0.85 |
| | | 20.5 | 43.0 | 106.8 | 0.80 | 42.6 | 105.6 | 0.82 | 37.9 | 94.1 | 0.83 | 32.0 | 79.4 | 0.83 |
| | | 24.5 | 42.1 | 91.3 | 0.78 | 42.1 | 91.3 | 0.81 | 41.8 | 90.6 | 0.82 | 35.5 | 77.0 | 0.82 |
| | | 30 | 43.9 | 77.1 | 0.75 | 44.1 | 77.1 | 0.78 | 32.5 | 77.1 | 0.79 | 22.3 | 73.1 | 0.79 |
| | | 36 | 49.3 | 117.2 | 0.70 | 48.6 | 115.4 | 0.73 | 39.6 | 94.0 | 0.74 | 33.2 | 78.9 | 0.74 |
| | | 42 | 46.6 | 94.4 | 0.68 | 46.0 | 93.1 | 0.71 | 45.0 | 91.2 | 0.72 | 38.2 | 77.4 | 0.72 |
| | | 50 | 46.1 | 82.5 | 0.65 | 45.5 | 81.4 | 0.68 | 45.0 | 80.6 | 0.70 | 41.9 | 75.1 | 0.70 |
| | | 60 | 45.7 | 68.4 | 0.60 | 45.7 | 68.4 | 0.64 | 44.7 | 68.4 | 0.65 | 43.2 | 67.9 | 0.65 |
| 72 | 39.7 | 52.2 | 0.53 | 38.8 | 51.0 | 0.56 | 38.4 | 50.5 | 0.58 | 37.1 | 48.7 | 0.58 | | |
| 100 | 25.7 | 41.2 | 0.48 | 25.4 | 40.6 | 0.52 | 24.8 | 39.7 | 0.54 | 24.7 | 39.4 | 0.54 | | |

| Grösse Size Taille | Drehzahl Speed Vitesse n_1 (1/min) | | 500 | | | 1'000 | | | 2'000 | | | 3'000 | | |
|--------------------------|---|-------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|---------------------|---------------------|------------|
| | a [mm] | i [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] | T _{2D} [N] | T _{2A} [N] | η [-] |
| 3/1 M | 63 | 7 | 128.3 | 250.7 | 0.93 | 109.2 | 213.3 | 0.94 | 84.3 | 164.7 | 0.94 | 68.6 | 134.0 | 0.94 |
| | | 11.75 | 127.6 | 258.0 | 0.90 | 112.2 | 228.0 | 0.90 | 86.1 | 178.7 | 0.91 | 69.3 | 146.7 | 0.91 |
| | | 16 | 119.0 | 230.7 | 0.87 | 119.1 | 230.7 | 0.88 | 102.6 | 198.7 | 0.89 | 84.6 | 164.0 | 0.89 |
| | | 20 | 112.8 | 359.3 | 0.86 | 99.2 | 315.3 | 0.87 | 79.9 | 254.7 | 0.88 | 66.9 | 212.7 | 0.88 |
| | | 24.5 | 120.4 | 231.3 | 0.82 | 120.2 | 231.3 | 0.84 | 114.3 | 219.3 | 0.84 | 94.9 | 182.0 | 0.85 |
| | | 30 | 146.2 | 370.7 | 0.79 | 149.8 | 321.3 | 0.81 | 105.0 | 253.3 | 0.82 | 70.0 | 209.3 | 0.85 |
| | | 39 | 138.8 | 284.7 | 0.74 | 138.8 | 284.7 | 0.76 | 110.3 | 226.0 | 0.77 | 91.0 | 186.7 | 0.77 |
| | | 44 | 137.7 | 259.3 | 0.73 | 134.8 | 254.0 | 0.75 | 117.5 | 221.3 | 0.76 | 97.3 | 183.3 | 0.76 |
| | | 50 | 136.5 | 232.7 | 0.70 | 133.4 | 227.3 | 0.73 | 125.5 | 214.0 | 0.74 | 104.4 | 178.0 | 0.74 |
| | | 57 | 136.5 | 202.7 | 0.67 | 133.8 | 198.7 | 0.70 | 130.7 | 194.0 | 0.71 | 111.4 | 165.3 | 0.71 |
| 66 | 97.1 | 155.3 | 0.64 | 95.8 | 153.3 | 0.66 | 106.6 | 153.3 | 0.67 | 91.7 | 146.7 | 0.68 | | |