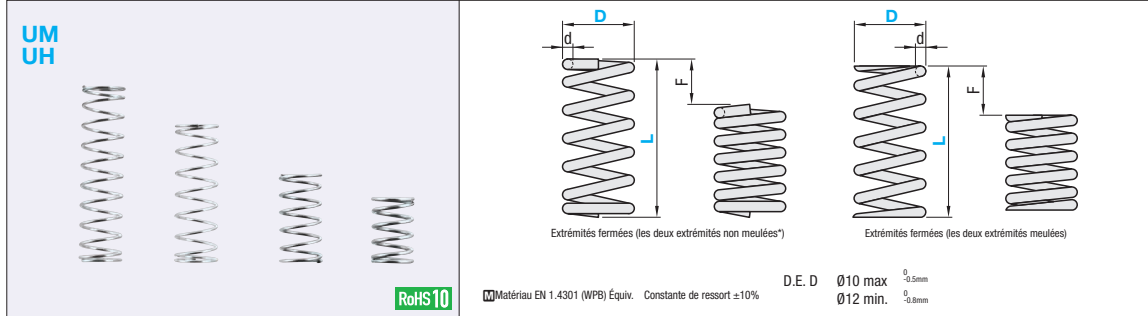


Ressorts hélicoïdaux ronds

Acier inoxydable, D.E. référencé



UM : Fmax. (Déformation admissible) = LxFa%

| Référence pièce Type D-L | d | Longueur comprimée | F max. | N{kgf} max. | Fa% | Prix unitaire |
|--------------------------|------|--------------------|--------|-------------|--------|---------------|
| UM 4- 5* | 0.4 | 2.2 | 1.75 | 3.4 | {0.35} | 35 |
| 10* | 0.5 | 4.9 | 3.5 | 6.8 | {0.7} | |
| 15 | 0.55 | 7.5 | 5.25 | 10.3 | {1.05} | |
| 20 | 0.6 | 11.1 | 7 | 13.7 | {1.4} | |
| 25 | 0.6 | 11.1 | 8.75 | 17.2 | {1.75} | |
| 30 | 0.65 | 16.3 | 10.5 | 20.6 | {2.1} | |
| UM 5- 5* | 0.45 | 2.25 | 1.75 | 3.4 | {0.35} | 35 |
| 10* | 0.5 | 3.13 | 3.5 | 6.8 | {0.7} | |
| 15 | 0.65 | 8.45 | 5.25 | 10.3 | {1.05} | |
| 20 | 0.65 | 8.45 | 7 | 13.7 | {1.4} | |
| 25 | 0.7 | 11.9 | 8.75 | 17.2 | {1.75} | |
| 30 | 0.7 | 11.9 | 10.5 | 20.6 | {2.1} | |
| 35 | 0.75 | 16.5 | 12.25 | 24.0 | {2.45} | |
| 40 | 0.8 | 23.2 | 14 | 27.5 | {2.8} | |
| 45 | 0.8 | 23.2 | 15.75 | 30.9 | {3.15} | |
| 50 | 0.85 | 31.45 | 17.5 | 34.3 | {3.5} | |
| UM 6- 5* | 0.55 | 2.7 | 1.7 | 4.9 | {0.5} | 35 |
| 10 | 0.7 | 5.6 | 3.5 | 10.8 | {1.1} | |
| 15 | 0.75 | 7.4 | 5.2 | 15.7 | {1.6} | |
| 20 | 0.75 | 7.4 | 7 | 20.6 | {2.1} | |
| 25 | 0.85 | 12.8 | 8.7 | 25.5 | {2.6} | |
| 30 | 0.85 | 12.8 | 10.5 | 31.4 | {3.2} | |
| 35 | 0.9 | 16.7 | 12.2 | 36.3 | {3.7} | |
| 40 | 0.9 | 16.8 | 14 | 41.2 | {4.2} | |
| 45 | 1.0 | 27.8 | 15.8 | 46.1 | {4.7} | |
| 50 | 1.0 | 28.0 | 17.5 | 52.0 | {5.3} | |
| 60 | 1.0 | 28.0 | 18 | 53.0 | {5.4} | |
| 70 | 1.1 | 46.2 | 20 | 58.8 | {6} | |
| UM 8- 10 | 0.85 | 6.4 | 3.5 | 10.8 | {1.1} | 35 |
| 15 | 0.9 | 7.9 | 5.2 | 15.7 | {1.6} | |
| 20 | 0.9 | 7.9 | 7 | 20.6 | {2.1} | |
| 25 | 0.9 | 7.9 | 8.7 | 25.5 | {2.6} | |
| 30 | 1.0 | 12.0 | 10.5 | 31.4 | {3.2} | |
| 35 | 1.0 | 12.0 | 12.2 | 36.3 | {3.7} | |
| 40 | 1.1 | 18.7 | 14 | 41.2 | {4.2} | |
| 45 | 1.1 | 18.7 | 15.8 | 46.1 | {4.7} | |
| 50 | 1.1 | 18.7 | 17.5 | 52.0 | {5.3} | |
| 60 | 1.2 | 28.2 | 21 | 61.8 | {6.3} | |
| 70 | 1.3 | 42.0 | 24.5 | 72.6 | {7.4} | |

Sur les types signalés par *, les 2 extrémités ne sont pas meulées.
Les valeurs de longueur comprimée sont données à titre de référence uniquement.
Elle peut varier selon le lot.
Nombre d'utilisations : 1 million

Alterations Référence pièce - (LKC)
UM6-30 - LKC

| Modifications | Code | Spéc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|---|------------------------|-----------|-----------------------------------|-----------------------------------|---|--------|------|-----|---|--------|------|---|--------|------|---|-------|------|----|-------|------|----|-------|------|----|------------|------|----|-------|------|--|-------|------|--|------------|------|
| | LKC | Affecte la tolérance de longueur et de constante du ressort. (Voir le tableau ci-dessous.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Référence pièce Type D</th> <th>L</th> <th>Tolérance</th> <th>Tolérance de constante du ressort</th> </tr> </thead> <tbody> <tr><td>4</td><td>15, 20</td><td>±0.4</td><td rowspan="10">±5%</td></tr> <tr><td>5</td><td>25, 30</td><td>±0.5</td></tr> <tr><td>6</td><td>15, 20</td><td>±0.4</td></tr> <tr><td>8</td><td>25-50</td><td>±0.5</td></tr> <tr><td>10</td><td>10-20</td><td>±0.4</td></tr> <tr><td>13</td><td>25-50</td><td>±0.5</td></tr> <tr><td>16</td><td>60, 70, 80</td><td>±0.8</td></tr> <tr><td>20</td><td>20-30</td><td>±0.5</td></tr> <tr><td></td><td>35-50</td><td>±0.5</td></tr> <tr><td></td><td>60, 70, 80</td><td>±0.8</td></tr> </tbody> </table> | Référence pièce Type D | L | Tolérance | Tolérance de constante du ressort | 4 | 15, 20 | ±0.4 | ±5% | 5 | 25, 30 | ±0.5 | 6 | 15, 20 | ±0.4 | 8 | 25-50 | ±0.5 | 10 | 10-20 | ±0.4 | 13 | 25-50 | ±0.5 | 16 | 60, 70, 80 | ±0.8 | 20 | 20-30 | ±0.5 | | 35-50 | ±0.5 | | 60, 70, 80 | ±0.8 |
| | | Référence pièce Type D | L | Tolérance | Tolérance de constante du ressort | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4 | 15, 20 | ±0.4 | ±5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5 | 25, 30 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | 15, 20 | ±0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8 | 25-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 | 10-20 | ±0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 13 | 25-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16 | 60, 70, 80 | ±0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 20-30 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60, 70, 80 | ±0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Les deux extrémités sont meulées. Pour toute commande supérieure aux quantités indiquées, consulter WOS.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UH: Fmax. (Déformation admissible) = LxFa%

| Référence pièce Type D-L | d | Longueur comprimée | F max. | N{kgf} max. | Fa% | Prix unitaire |
|--------------------------|------|--------------------|--------|-------------|--------|---------------|
| UH 4- 10* | 0.45 | 2.7 | 1.5 | 4.4 | {0.45} | 30 |
| 15 | 0.5 | 3.8 | 3 | 8.8 | {0.9} | |
| 20 | 0.6 | 8.1 | 4.5 | 13.2 | {1.35} | |
| 25 | 0.65 | 11.7 | 6 | 17.6 | {1.8} | |
| 30 | 0.7 | 16.8 | 7.5 | 22.1 | {2.25} | |
| UH 5- 5* | 0.55 | 3.3 | 1.5 | 4.4 | {0.45} | 30 |
| 10 | 0.6 | 4.65 | 3 | 8.8 | {0.9} | |
| 15 | 0.6 | 4.65 | 4.5 | 13.2 | {1.35} | |
| 20 | 0.75 | 11.81 | 6 | 17.6 | {1.8} | |
| 25 | 0.75 | 11.81 | 7.5 | 22.1 | {2.25} | |
| UH 10- 10 | 1.1 | 6.9 | 3 | 17.7 | {1.8} | 30 |
| 15 | 1.1 | 6.9 | 4.5 | 26.5 | {2.7} | |
| 20 | 1.2 | 9.3 | 6 | 35.3 | {3.6} | |
| 25 | 1.2 | 9.3 | 7.5 | 44.1 | {4.5} | |
| 30 | 1.3 | 12.7 | 9 | 53.0 | {5.4} | |
| UH 13- 15 | 1.5 | 9.2 | 4.5 | 44.1 | {4.5} | 30 |
| 20 | 1.5 | 9.2 | 6 | 58.8 | {6} | |
| 25 | 1.5 | 9.2 | 7.5 | 73.5 | {7.5} | |
| 30 | 1.8 | 18 | 9 | 88.3 | {9} | |
| 35 | 1.8 | 18 | 10.5 | 103.0 | {10.5} | |
| UH 16- 15 | 1.7 | 9.6 | 4.6 | 44.1 | {4.5} | 30 |
| 20 | 1.9 | 14 | 6 | 58.8 | {6} | |
| 25 | 1.9 | 14 | 7.5 | 73.5 | {7.5} | |
| 30 | 1.9 | 14 | 9 | 88.3 | {9} | |
| 35 | 1.9 | 14 | 10.5 | 103.0 | {10.5} | |
| UH 20- 20 | 2.3 | 13.8 | 7.5 | 110.8 | {11.3} | 30 |
| 25 | 2.3 | 13.8 | 9 | 132.4 | {13.5} | |
| 30 | 2.3 | 13.8 | 10.5 | 154.9 | {15.8} | |
| 35 | 2.5 | 18.8 | 12 | 176.5 | {18} | |
| 40 | 2.5 | 18.8 | 12 | 176.5 | {18} | |
| UH 25- 25 | 2.8 | 29.4 | 13.5 | 199.1 | {20.3} | 30 |
| 30 | 2.8 | 29.4 | 15 | 220.6 | {22.5} | |
| 35 | 3 | 40.5 | 18 | 264.8 | {27} | |
| 40 | 3 | 40.5 | 21 | 308.9 | {31.5} | |
| 45 | 3.2 | 54.4 | 24 | 353.0 | {36} | |

kgf (Charge)=N/mm (Constante de ressort) x 0.101972xL (Déformation) (kgf)=Nx0.101972

Sur les types signalés par *, les 2 extrémités ne sont pas meulées.
Les valeurs de longueur comprimée sont données à titre de référence uniquement.
Elle peut varier selon le lot.
Nombre d'utilisations : 1 million

Constante de ressort D12 s'applique aux types UY, UR, UF, UL et UBB uniquement. D14 s'applique uniquement au type UBB.

| Type | UV | UY | UR | UF | UL | UTT | UM | UH | UBB |
|-------|----------------------------|----------------------------|---------------------------|---------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|
| 2 | | 0.05{0.005} | 0.2{0.02} | 0.3{0.03} | 0.5{0.05} | | | | |
| 3 | | | | | | N/mm 1.5 (kgf/mm) {0.15} | | | |
| 4 | N/mm 0.05 (kgf/mm) {0.005} | N/mm 0.098 (kgf/mm) {0.01} | | | | | 2.0{0.2} | 2.9{0.3} | 4.9{0.5} |
| 5 | | | | | | | | | |
| 6 | | | N/mm 0.29 (kgf/mm) {0.03} | N/mm 0.49 (kgf/mm) {0.05} | N/mm 0.98 (kgf/mm) {0.1} | | | | |
| 8 | | | | | | | | | |
| 10 | | | | | | N/mm 2.0 (kgf/mm) {0.2} | | | |
| 12 | | N/mm 0.2 (kgf/mm) {0.02} | | | | | N/mm 2.9 (kgf/mm) {0.3} | N/mm 5.9 (kgf/mm) {0.6} | N/mm 9.8 (kgf/mm) {1.0} |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 16 | | | | | | | | | |
| 20 | | 0.3{0.03} | 0.5{0.05} | 0.98{0.1} | 2.9{0.3} | 3.9{0.4} | 4.9{0.5} | 14.7{1.5} | 29.4{3.0} |
| Fmax. | F=Lx70% | F=LxFa% | F=LxFa% | F=Lx45% | F=Lx40% | F=LxFa% | F=LxFa% | F=LxFa% | F=LxFa% |

Ordering Example Référence pièce
UM16-80
UH16-80

Alterations Référence pièce - (LKC)
UH20-25 - LKC

| Modifications | Code | Spéc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|---|------------------------|-----------|-----------------------------------|-----------------------------------|---|--------|------|-----|---|--------|------|---|--------|------|---|-------|------|----|-------|------|----|-------|------|----|------------|------|----|-------|------|--|-------|------|--|------------|------|
| | LKC | Affecte la tolérance de longueur et de constante du ressort. (Voir le tableau ci-dessous.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Référence pièce Type D | L | Tolérance | Tolérance de constante du ressort | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4 | 15, 20 | ±0.4 | ±5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5 | 25, 30 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | 15, 20 | ±0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8 | 25-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 | 10-20 | ±0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 13 | 25-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16 | 60, 70, 80 | ±0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 20-30 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35-50 | ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60, 70, 80 | ±0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Les deux extrémités sont meulées. Pour toute commande supérieure aux quantités indiquées, consulter WOS.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |