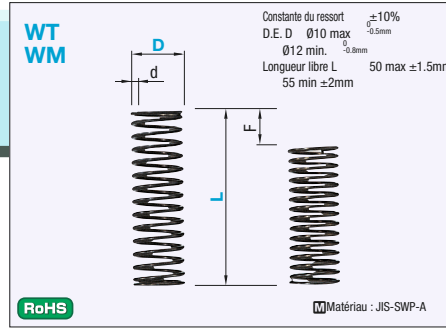


Ressorts hélicoïdaux ronds

WT, WM : D.E. référencé



Ordering Example
Référence pièce
WT13-60



| Constante du ressort | | Indisponibles : D12 et 14 pour le type WY et D12, 14 et 20 pour le type WT. | | | | | | | | | | | | |
|----------------------|---------|---|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-----------|--------|-------|--------------------------|--------------------------|----------------|--|
| Type | WY | WR | WF | WT | WM | WH | WB | | | | | | | |
| D | 2 | | | | | | | 0.5(0.05) | 1.5 | 2.0 | 2.9(0.3) | 3.9(0.4) | | |
| | 3 | | | | | | | | {0.15} | {0.2} | | | 4.9(0.5) | |
| | 4 | N/mm 0.1 (kgf/mm) {0.01} | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | |
| | 6 | | N/mm 0.3 (kgf/mm) {0.03} | N/mm 0.5 (kgf/mm) {0.05} | N/mm 1.0 (kgf/mm) {0.1} | N/mm 2.0 (kgf/mm) {0.2} | N/mm 2.9 (kgf/mm) {0.3} | | | | N/mm 5.9 (kgf/mm) {0.6} | N/mm 9.8 (kgf/mm) {1.0} | | |
| | 8 | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | |
| | 12 | N/mm 0.2 (kgf/mm) {0.02} | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | |
| | 20 | | N/mm 0.5 (kgf/mm) {0.05} | N/mm 1.0 (kgf/mm) {0.1} | N/mm 2.9 (kgf/mm) {0.3} | N/mm 3.9 (kgf/mm) {0.4} | N/mm 4.9 (kgf/mm) {0.5} | | | | N/mm 14.7 (kgf/mm) {1.5} | N/mm 19.6 (kgf/mm) {2.0} | N/mm 29.4(3.0) | |
| | 22 | | | | | | | | | | | | | |
| | 27 | | | | | | | | | | | | | |
| Fmax. | F=Lx75% | F=Lx60% | F=Lx45% | F=Lx40% | F=Lx40% | F=Lx35% | F=Lx30% | F=Lx25% | | | | | | |

WT : Fmax. (Déformation admissible) =Lx40% (Lx35%)

| d | Longueur comprimée | F max. | Charge N(kgf) max. | Référence pièce Type D-L | Prix unitaire 10 à 19 pièces |
|------|--------------------|--------|--------------------|--------------------------|------------------------------|
| 0.3 | 1.73 | 2 | 2.9(0.3) | WT3- 5* | |
| 0.4 | 5 | 4 | 5.9(0.6) | 10* | |
| 0.45 | 8.78 | 6 | 8.8(0.9) | 15* | |
| 0.45 | 8.78 | 8 | 11.8(1.2) | 20* | |
| 0.5 | 14.5 | 10 | 14.7(1.5) | 25* | |
| 0.4 | 2.7 | 2 | 2.9(0.3) | WT4- 5* | |
| 0.4 | 2.7 | 4 | 5.9(0.6) | 10* | |
| 0.5 | 6.5 | 6 | 8.8(0.9) | 15* | |
| 0.55 | 9.63 | 8 | 11.8(1.2) | 20 | |
| 0.55 | 9.63 | 10 | 14.7(1.5) | 25 | |
| 0.6 | 15 | 12 | 17.7(1.8) | 30 | |
| 0.6 | 15 | 14 | 20.6(2.1) | 35 | |
| 0.65 | 22.1 | 16 | 23.5(2.4) | 40 | |
| 0.45 | 2.36 | 2 | 3.9(0.4) | WT5- 5* | |
| 0.5 | 3.25 | 4 | 7.8(0.8) | 10* | |
| 0.6 | 6.3 | 6 | 11.8(1.2) | 15 | |
| 0.6 | 6.3 | 8 | 15.7(1.6) | 20 | |
| 0.7 | 12.6 | 10 | 19.6(2.0) | 25 | |
| 0.7 | 12.6 | 12 | 23.5(2.4) | 30 | |
| 0.75 | 17.3 | 14 | 27.5(2.8) | 35 | |
| 0.75 | 17.3 | 16 | 31.4(3.2) | (40) | |
| 0.8 | 24 | 18 | 35.3(3.6) | (45) | |
| 0.8 | 24 | 20 | 39.2(4.0) | (50) | |
| 0.85 | 32.3 | 22 | 43.1(4.4) | (55) | |
| 0.85 | 32.3 | 24 | 47.0(4.8) | (60) | |
| 0.85 | 32.3 | 26 | 50.9(5.2) | (65) | |
| 0.9 | 44.6 | 28 | 54.8(5.6) | (70) | |
| 0.5 | 2.38 | 2 | 3.9(0.4) | WT6- 5* | |
| 0.6 | 4.35 | 4 | 7.8(0.8) | 10 | |
| 0.6 | 4.35 | 6 | 11.8(1.2) | 15 | |
| 0.7 | 7.7 | 8 | 15.7(1.6) | 20 | |
| 0.7 | 7.7 | 10 | 19.6(2.0) | 25 | |
| 0.8 | 14 | 12 | 23.5(2.4) | 30 | |
| 0.8 | 14 | 14 | 27.5(2.8) | 35 | |
| 0.85 | 18.7 | 16 | 31.4(3.2) | 40 | |
| 0.85 | 18.7 | 18 | 35.3(3.6) | 45 | |
| 0.9 | 24.8 | 20 | 39.2(4.0) | 50 | |
| 0.9 | 24.8 | 22 | 43.1(4.4) | (55) | |
| 0.9 | 24.8 | 24 | 47.0(4.8) | (60) | |
| 0.9 | 24.8 | 26 | 50.9(5.2) | (65) | |
| 1 | 31 | 28 | 54.8(5.6) | (70) | |
| 1 | 31 | 30 | 58.7(6.0) | (75) | |
| 1 | 31 | 32 | 62.6(6.4) | (80) | |

* Méthode de calcul de la charge = Constante du ressort x Déformation (Unités SI) N = N/mmxFmm
kgf=kgf/mmxFmm
(kgf=Nx0.101972)

⚡ Déformation admissible de la taille (L)

- WT5-40Fmax.=Lx35%
- WT5-45Fmax.=Lx35%
- WT5-50Fmax.=Lx35%
- WT5-55Fmax.=Lx35%
- WT5-60Fmax.=Lx35%
- WT5-65Fmax.=Lx35%
- WT5-70Fmax.=Lx35%
- WT6-55Fmax.=Lx35%
- WT6-60Fmax.=Lx35%
- WT6-65Fmax.=Lx35%
- WT6-70Fmax.=Lx35%
- WT6-80Fmax.=Lx35%

| d | Longueur comprimée | F max. | Charge N(kgf) max. | Référence pièce Type D-L | Prix unitaire 10 à 19 pièces |
|------|--------------------|--------|--------------------|--------------------------|------------------------------|
| 0.7 | 4.38 | 4 | 7.8(0.8) | WT8- 10 | |
| 0.8 | 6.8 | 6 | 11.8(1.2) | 15 | |
| 0.8 | 6.8 | 8 | 15.7(1.6) | 20 | |
| 0.8 | 6.8 | 10 | 19.6(2.0) | 25 | |
| 0.9 | 10.8 | 12 | 23.5(2.4) | 30 | |
| 0.9 | 10.8 | 14 | 27.5(2.8) | 35 | |
| 1 | 17.5 | 16 | 31.4(3.2) | 40 | |
| 1 | 17.5 | 18 | 35.3(3.6) | 45 | |
| 1 | 17.5 | 20 | 39.2(4.0) | 50 | |
| 1.1 | 27.5 | 22 | 43.1(4.4) | 55 | |
| 1.1 | 27.5 | 24 | 47.0(4.8) | 60 | |
| 1.1 | 27.5 | 26 | 50.9(5.2) | 65 | |
| 1.1 | 27.5 | 28 | 54.8(5.6) | 70 | |
| 1.2 | 42 | 30 | 58.7(6.0) | 75 | |
| 1.2 | 42 | 32 | 62.6(6.4) | 80 | |
| 0.85 | 5.53 | 4 | 7.8(0.8) | WT10-10 | |
| 0.9 | 6.75 | 6 | 11.8(1.2) | 15 | |
| 0.9 | 6.75 | 8 | 15.7(1.6) | 20 | |
| 1 | 10 | 10 | 19.6(2.0) | 25 | |
| 1 | 10 | 12 | 23.5(2.4) | 30 | |
| 1 | 10 | 14 | 27.5(2.8) | 35 | |
| 1 | 10 | 16 | 31.4(3.2) | 40 | |
| 1.1 | 14.3 | 18 | 35.3(3.6) | 45 | |
| 1.1 | 14.3 | 20 | 39.2(4.0) | 50 | |
| 1.2 | 21.6 | 22 | 43.1(4.4) | 55 | |
| 1.2 | 21.6 | 24 | 47.0(4.8) | 60 | |
| 1.2 | 21.6 | 26 | 50.9(5.2) | 65 | |
| 1.3 | 32.5 | 28 | 54.8(5.6) | 70 | |
| 1.3 | 32.5 | 30 | 58.7(6.0) | 75 | |
| 1.3 | 32.5 | 32 | 62.6(6.4) | 80 | |
| 1 | 6 | 6 | 11.8(1.2) | WT13-15 | |
| 1.1 | 8.25 | 8 | 15.7(1.6) | 20 | |
| 1.1 | 8.25 | 10 | 19.6(2.0) | 25 | |
| 1.2 | 11.1 | 12 | 23.5(2.4) | 30 | |
| 1.2 | 11.1 | 14 | 27.5(2.8) | 35 | |
| 1.2 | 11.1 | 16 | 31.4(3.2) | 40 | |
| 1.2 | 11.1 | 18 | 35.3(3.6) | 45 | |
| 1.3 | 15.6 | 20 | 39.2(4.0) | 50 | |
| 1.3 | 15.6 | 22 | 43.1(4.4) | 55 | |
| 1.3 | 15.6 | 24 | 47.0(4.8) | 60 | |
| 1.4 | 21 | 26 | 50.9(5.2) | 65 | |
| 1.4 | 21 | 28 | 54.8(5.6) | 70 | |
| 1.4 | 21 | 30 | 58.7(6.4) | 75 | |
| 1.2 | 7.5 | 6 | 11.8(1.2) | WT16-15 | |
| 1.3 | 9.43 | 8 | 15.7(1.6) | 20 | |
| 1.4 | 12.6 | 10 | 19.6(2.0) | 25 | |
| 1.4 | 12.6 | 12 | 23.5(2.4) | 30 | |
| 1.4 | 12.6 | 14 | 27.5(2.8) | 35 | |
| 1.4 | 12.6 | 16 | 31.4(3.2) | 40 | |
| 1.6 | 22.4 | 18 | 35.3(3.6) | 45 | |
| 1.6 | 22.4 | 20 | 39.2(4.0) | 50 | |
| 1.6 | 22.4 | 22 | 43.1(4.4) | 55 | |
| 1.7 | 28.9 | 24 | 47.0(4.8) | 60 | |
| 1.7 | 28.9 | 26 | 50.9(5.2) | 65 | |
| 1.7 | 28.9 | 28 | 54.8(5.6) | 70 | |
| 1.7 | 28.9 | 30 | 58.7(6.4) | 75 | |
| 1.7 | 28.9 | 32 | 62.6(6.4) | 80 | |

⚡ Les valeurs de longueur comprimée sont données à titre de référence uniquement.

Elle peut varier selon le lot.

⚡ Nombre d'utilisations : 1 million

⚡ Présentation du produit **P327**

⚡ Utilisation des ressorts hélicoïdaux et précautions d'usage **P328**

⚡ Les 2 extrémités des ressorts de type WT signalés par * ne sont pas meulées.

WM: Fmax. (Déformation admissible) =Lx35%

| d | Longueur comprimée | F max. | Charge N(kgf) max. | Référence pièce Type D-L | Prix unitaire 10 à 19 pièces |
|------|--------------------|--------|--------------------|--------------------------|------------------------------|
| 0.35 | 2.5 | 1.8 | 3.4(0.4) | WM 3- 5* | |
| 0.38 | 3.3 | 3.5 | 6.9(0.7) | 10* | |
| 0.45 | 7 | 5.3 | 10.3(1.1) | 15* | |
| 0.5 | 11.5 | 7 | 13.7(1.4) | 20* | |
| 0.5 | 11.5 | 7.5 | 14.7(1.5) | (25) | |
| 0.55 | 20.4 | 9 | 17.7(1.8) | (30) | |
| 0.4 | 2.3 | 1.7 | 3.9(0.4) | WM 4- 5* | |
| 0.45 | 3.4 | 3.5 | 6.9(0.7) | 10* | |
| 0.5 | 5.1 | 5.2 | 10.8(1.1) | 15* | |
| 0.55 | 7.7 | 7 | 13.7(1.4) | 20 | |
| 0.6 | 11.7 | 8.7 | 17.7(1.8) | 25 | |
| 0.6 | 11.7 | 10.5 | 20.6(2.1) | 30 | |
| 0.65 | 17.6 | 12.2 | 24.0(2.5) | 35 | |
| 0.65 | 17.6 | 12 | 23.5(2.4) | (40) | |
| 0.5 | 2.8 | 1.7 | 4.9(0.5) | WM 5- 5* | |
| 0.6 | 4.2 | 3.5 | 9.8(1.0) | 10 | |
| 0.65 | 6.5 | 5.2 | 14.7(1.5) | 15 | |
| 0.65 | 6.5 | 7 | 20.6(2.1) | 20 | |
| 0.7 | 9.1 | 8.7 | 25.5(2.6) | 25 | |
| 0.75 | 12.7 | 10.5 | 30.4(3.1) | 30 | |
| 0.8 | 17.4 | 12.2 | 35.3(3.6) | 35 | |
| 0.85 | 23.8 | 14 | 41.2(4.2) | 40 | |
| 0.85 | 23.8 | 15.8 | 46.1(4.7) | 45 | |
| 0.9 | 23.8 | 15 | 43.5(4.5) | (50) | |
| 0.9 | 30 | 16.5 | 49.0(5.0) | (55) | |
| 0.9 | 30 | 18 | 53.0(5.4) | (60) | |
| 0.9 | 30 | 17.6 | 52.0(5.3) | (65) | |
| 0.9 | 30 | 19.6 | 58.8(6.0) | (70) | |
| 0.55 | 2.8 | 1.7 | 4.9(0.5) | WM 6- 5* | |
| 0.65 | 4.7 | 3.5 | 9.8(1.0) | 10 | |
| 0.75 | 8 | 5.2 | 14.7(1.5) | 15 | |
| 0.75 | 8 | 7 | 20.6(2.1) | 20 | |
| 0.85 | 13.6 | 8.7 | 25.5(2.6) | 25 | |
| 0.85 | 13.6 | 10.5 | 30.4(3.1) | 30 | |
| 0.9 | 18 | 12.2 | 35.3(3.6) | 35 | |
| 0.9 | 18 | 14 | 41.2(4.2) | 40 | |
| 0.9 | 18 | 15.8 | 46.1(4.7) | 45 | |
| 0.85 | 18 | 17.5 | 51.0(5.2) | 50 | |
| 1.0 | 31 | 19.2 | 55.9(5.7) | 55 | |
| 1.0 | 31 | 18 | 53.0(5.4) | (60) | |
| 1.0 | 31 | 18.8 | 54.9(5.6) | (65) | |
| 1.1 | 47.3 | 20 | 58.8(6.0) | (70) | |
| 1.1 | 48.4 | 22.4 | 65.9(6.7) | (80) | |
| 0.75 | 4.2 | 3.5 | 9.8(1.0) | WM 8- 10 | |
| 0.9 | 8.5 | 5.2 | 14.7(1.5) | 15 | |
| 0.9 | 8.5 | 7 | 20.6(2.1) | 20 | |
| 0.9 | 8.5 | 8.7 | 25.5(2.6) | 25 | |
| 0.9 | 8.5 | 10.5 | 30.4(3.1) | 30 | |
| 1.0 | 13 | 12.2 | 35.3(3.6) | 35 | |
| 1.0 | 13 | 14 | 41.2(4.2) | 40 | |
| 1.1 | 19.8 | 15.8 | 46.1(4.7) | 45 | |
| 1.1 | 19.8 | 17.5 | 51.0(5.2) | 50 | |
| 1.2 | 31.2 | 19.2 | 55.9(5.7) | 55 | |
| 1.2 | 31.2 | 21 | 61.8(6.3) | 60 | |
| 1.2 | 31.2 | 22.7 | 64.7(6.6) | 65 | |
| 1.2 | 31.2 | 24.5 | 71.6(7.3) | 70 | |
| 1.3 | 44.2 | 28 | 82.4(8.4) | 80 | |

* Méthode de calcul de la charge = Constante du ressort x Déformation (Unités SI) N = N/mmxFmm
kgf=kgf/mmxFmm
(kgf=Nx0.101972)

⚡ Les valeurs de longueur comprimée sont données à titre de référence uniquement.

Elle peut varier selon le lot.

⚡ Nombre d'utilisations : 1 million

⚡ Présentation du produit **P327**

⚡ Utilisation des ressorts hélicoïdaux et précautions d'usage **P328**

| d | Longueur comprimée | F max. | Charge N(kgf) max. | Référence pièce Type D-L | Prix unitaire 10 à 19 pièces |
|-----|--------------------|--------|--------------------|--------------------------|------------------------------|
| 0.9 | 5.2 | 3.5 | 9.8(1.0) | WM 10- 10 | |
| 1.0 | 7.7 | 5.2 | 14.7(1.5) | 15 | |
| 1.0 | 7.7 | 7 | 20.6(2.1) | 20 | |
| 1.1 | 11 | 8.7 | 25.5(2.6) | 25 | |
| 1.1 | 11</ | | | | |