

Pointes de centrage

Contre-pointe tournante
DIN 228



P. 146–149

Contre-pointe tournante
pour applications lourdes
DIN 228



P. 150–152

Contre-pointe tournante
DIN 228



P. 153

Contre-pointe tournante pour tubes
DIN 228



P. 154

Coffret de contre-pointes tournantes
à pointes interchangeables



P. 155–156

Contre-pointe fixe avec angle de pointe 60°
DIN 228

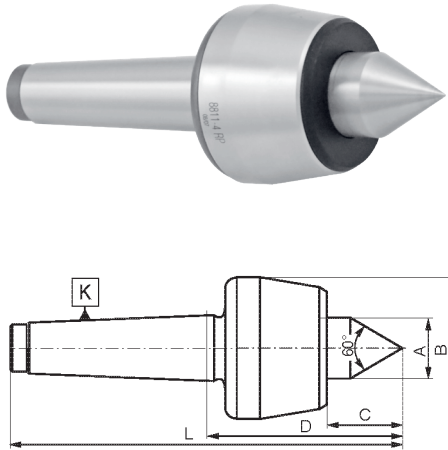


P. 157–159

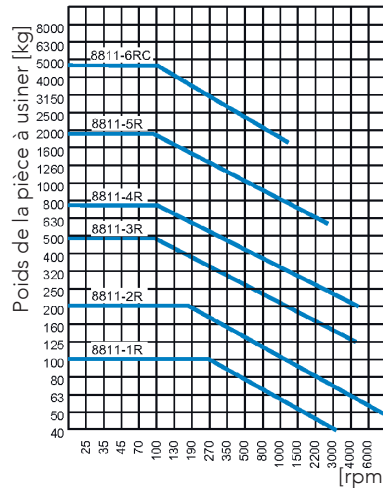
Contre-pointe tournante

DIN 228

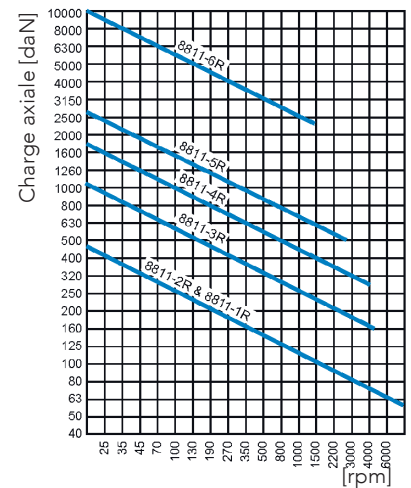
Type 8811 R



Charge radiale
Durée de vie du palier à roulement: 2000 h



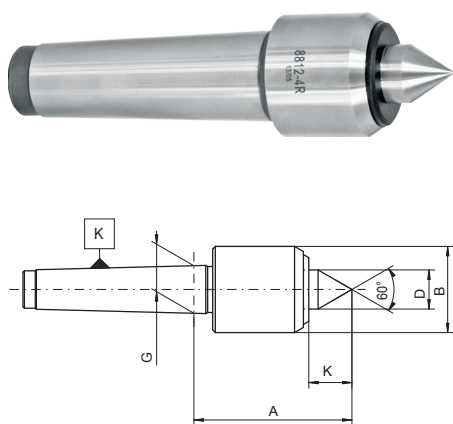
Charge axiale
Durée de vie du palier à roulement: 2000 h



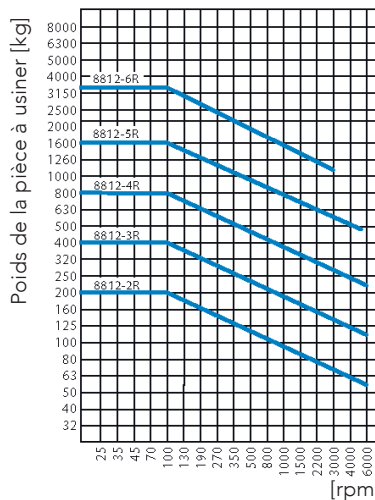
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | Excentricité maxi. | Code Article | A | B | C | D | L |
|-------|------------|------|--------------------|--|--------------|--------------------|--------------|------|-------|------|-------|-------|
| | | | Précision | | | | | | | | | |
| 1 | 100 | 7000 | - | | - | 0.005 | 800006761 | 15 | 36,0 | 17,0 | 60,5 | 114 |
| 2 | 200 | | 0.003 | | 800006762 | | 800006763 | 20 | 45,0 | 23,5 | 64,5 | 128,5 |
| 3RL* | 400 | 6300 | | | 800006766 | 0.010 | 800006623 | 22 | 50,0 | 27,5 | 70,0 | 151 |
| 3 | 500 | 5000 | | | 800006764 | | 800006765 | 25 | 60,0 | 30,5 | 79,0 | 160 |
| 4 | 800 | 3800 | | | 800006767 | | 800006624 | 32 | 70,0 | 40,0 | 101,5 | 204 |
| 5 | 2000 | 3000 | | | 800006768 | 800006625 | 40 | 90,0 | 49,5 | 128 | 257,5 | |
| 6 | 3500 | 2600 | - | | - | 0.010 | 800006769 | 50 | 105,0 | 57,5 | 152 | 334 |
| 6RC** | 5000 | 1500 | - | | - | | 800006770 | 62,4 | 140,0 | 67,0 | 194 | 376 |

*K Cône Morse

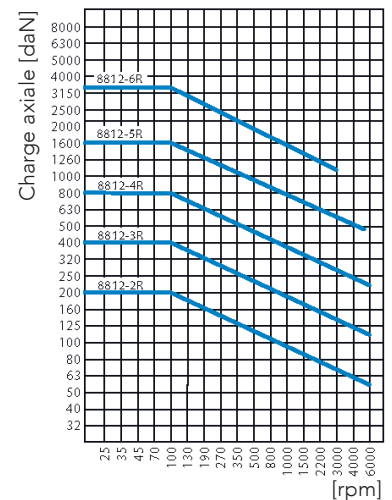
Type 8812 R, Contre-pointe tournante avec petit diamètre du corps



Charge radiale
Durée de vie du palier à roulement: 2000 h



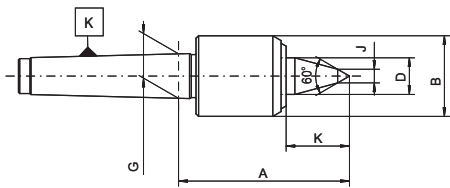
Charge axiale
Durée de vie du palier à roulement: 2000 h



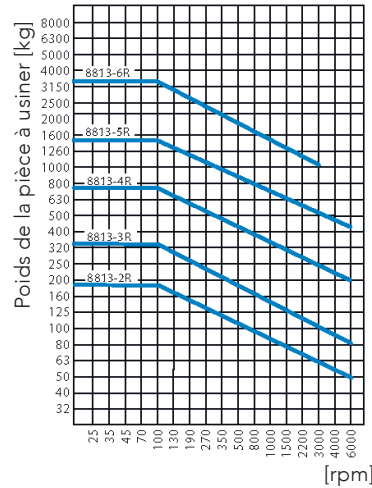
| *K MK | Poids max. | rpm | Excentricité maxi. | Code Article | A | B | D | G | K |
|-------|------------|------|--------------------|--------------|-----------|-----|----|--------|--------|
| 2 | 200 | 7000 | 0,005 | 800006024 | 62 | 32 | 15 | 17,780 | 18 |
| 3 | 400 | | | 800006705 | | | | 23,825 | |
| 4 | 800 | 6300 | 0,01 | 800006706 | 75,5 | 42 | 20 | 31,267 | 25 |
| 5 | 1600 | 4300 | | 800006707 | 104 | 58 | 30 | 44,399 | 34 |
| 6 | 3500 | 3000 | | 0,02 | 800006708 | 143 | 80 | 42 | 63,348 |

*K Cône Morse

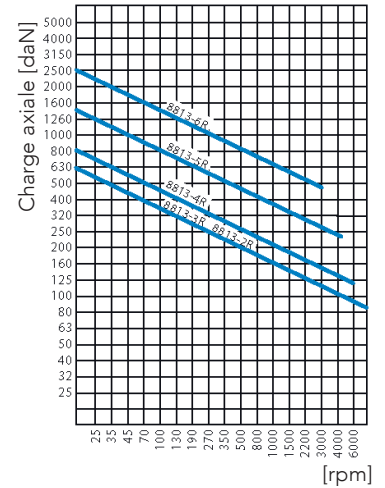
Type 8813 R Contre-pointe tournante avec petit diamètre du corps et pointe prolongée



Charge radiale
Durée de vie du palier à roulement: 2000 h



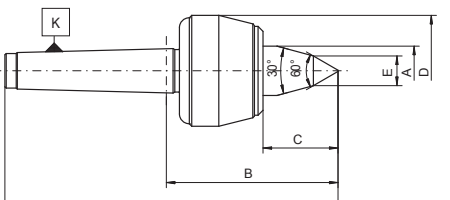
Charge axiale
Durée de vie du palier à roulement: 2000 h



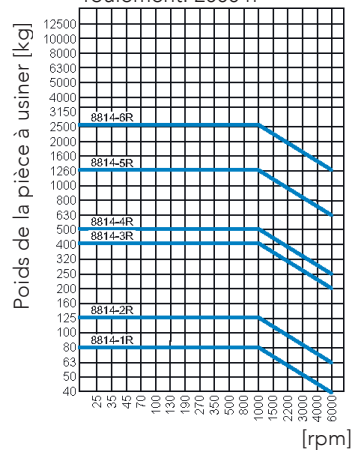
| *K MK | Poids max. | rpm | Excentricité maxi. | Code Article | A | B | D | G | K | J |
|-------|------------|------|--------------------|--------------|------|----|----|--------|----|----|
| 2 | 170 | 7000 | 0,008 | 800006709 | 73 | 32 | 15 | 17,780 | 29 | 10 |
| 3 | 340 | | | 800006710 | 74 | 34 | | 23,825 | 30 | 11 |
| 4 | 700 | | | 800006245 | 88,5 | 42 | | 31,267 | 38 | 13 |
| 5 | 1400 | 4300 | 0,01 | 800006711 | 119 | 58 | 30 | 44,399 | 49 | 14 |
| 6 | 3000 | 3000 | 0,02 | 800006712 | 164 | 80 | 42 | 63,348 | 70 | 18 |

*K Cône Morse

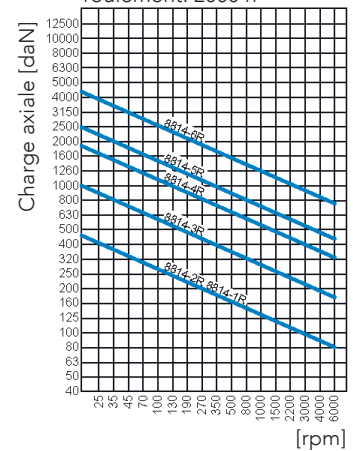
Type 8814 R, Contre-pointe tournante avec pointe prolongée



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



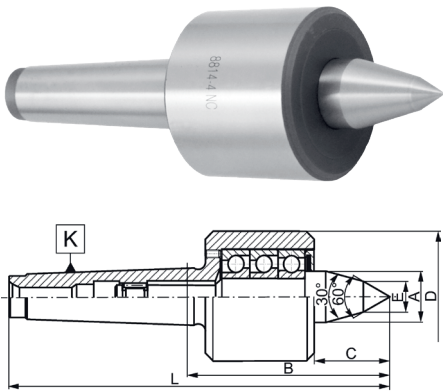
| K MK | Poids max. | rpm | Excentricité maxi. | Code Article | A | B | D | G | K | J |
|------|------------|------|--------------------|--------------|----|-------|------|-----|----|-------|
| 1 | 80 | 7000 | 0,010 | 800006536 | 15 | 66,5 | 23,0 | 36 | 9 | 120,0 |
| 2 | 140 | 7000 | 0,005 | 800006537 | 20 | 74,5 | 33,5 | 45 | 10 | 138,5 |
| 3 | 400 | 5000 | 0,005 | 800006538 | 25 | 92,0 | 43,5 | 60 | 12 | 173,0 |
| 4 | 500 | 3800 | 0,005 | 800006539 | 32 | 113,5 | 52,0 | 70 | 14 | 216,0 |
| 5 | 1200 | 3000 | 0,005 | 800005509 | 40 | 144,3 | 65,3 | 90 | 16 | 272,8 |
| 6 | 2500 | 2600 | 0,010 | 800006540 | 50 | 170,5 | 77,5 | 105 | 18 | 352,5 |

*K Cône Morse

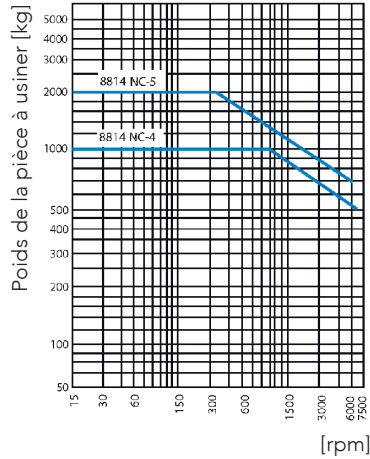
Contre-pointe tournante

DIN 228

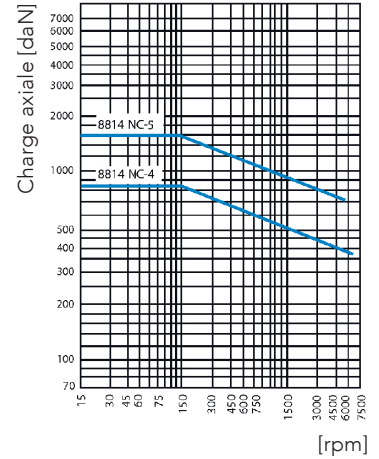
Type 8814 NC, Contre-pointe tournante pour tours NC à haute vitesse avec pointe prolongée



Charge radiale
Durée de vie du palier à roulement: 2000 h



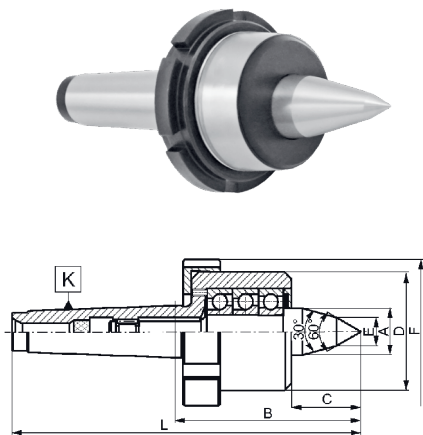
Charge axiale
Durée de vie du palier à roulement: 2000 h



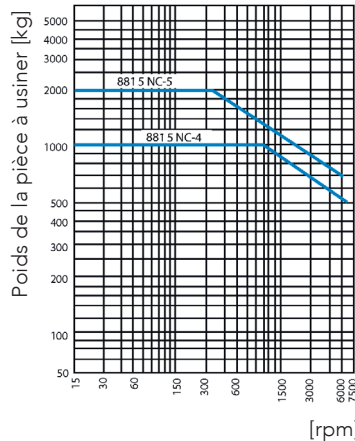
| *K MK | Poids max. | rpm | Précision | | Standard | | A | B | C | D | E | L |
|-------|------------|------|--------------------|--------------|--------------------|--------------|------|-------|------|----|----|-------|
| | | | Excentricité maxi. | Code Article | Excentricité maxi. | Code Article | | | | | | |
| 4 | 1000 | 7000 | 0,005 | 800002540 | 0,010 | 800002541 | 28,0 | 118,5 | 49 | 70 | 14 | 221,0 |
| 5 | 2000 | 6000 | | 800002542 | | 800002543 | 40,0 | 150,5 | 67,5 | 95 | 16 | 280,0 |

*K Cône Morse

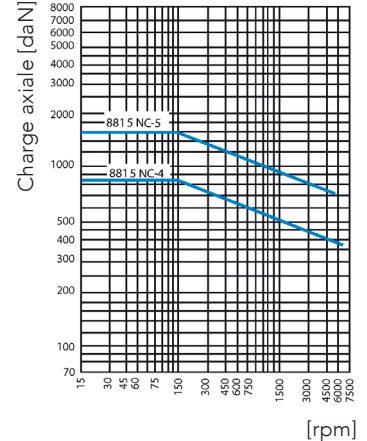
Type 8815 NC, Contre-pointe tournante pour tours NC avec pointe prolongée et écrou d'extraction



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



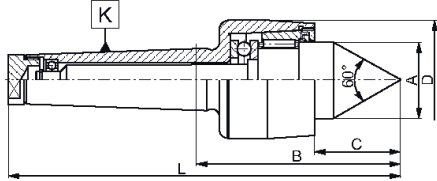
| *K MK | Poids max. | rpm | Précision | | Standard | | A | B | C | D | E | F | L |
|-------|------------|------|--------------------|--------------|--------------------|--------------|----|-------|------|----|----|-----|-------|
| | | | Excentricité maxi. | Code Article | Excentricité maxi. | Code Article | | | | | | | |
| 4 | 1000 | 7000 | 0,005 | 800003342 | 0,010 | 800003722 | 28 | 118,5 | 49,0 | 70 | 14 | 82 | 221,0 |
| 5 | 2000 | 6000 | | 800003343 | | 800003723 | 40 | 150,5 | 67,5 | 95 | 16 | 110 | 280,0 |

*K Cône Morse

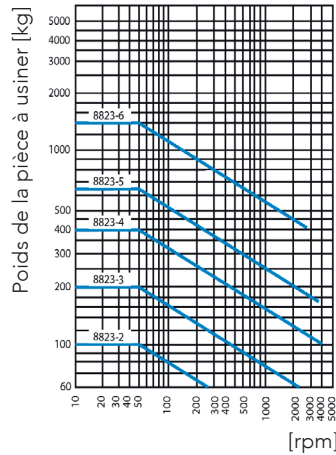
Type 8823, Contre-pointe tournante avec compensation radial



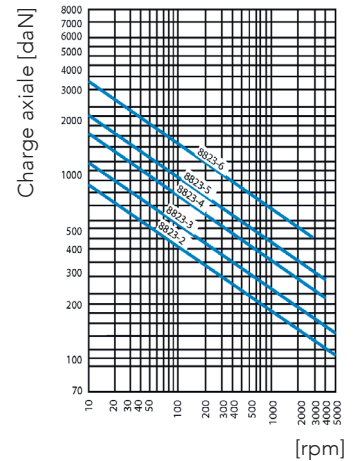
La conception spéciale permet un réglage du jeu radial



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



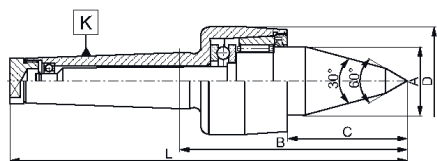
| K MK | Poids max. | rpm | Excentricité maxi. | Code Article | Excentricité maxi. | Code Article | A | B | C | D | L |
|------|------------|------|--------------------|--------------|--------------------|--------------|-------|-------|------|----|-------|
| | | | Précision | | Standard | | | | | | |
| 2 | 100 | 8000 | 0,003 | 800006771 | 0,006 | 800006619 | 24 | 73,0 | 26,5 | 44 | 137,5 |
| 3 | 200 | 6000 | | 800006772 | | 800006620 | 28 | 85,0 | 32,5 | 48 | 166,0 |
| 4 | 400 | 4500 | | 800006773 | | 800006621 | 38 | 94,5 | 43,5 | 60 | 196,5 |
| 5 | 650 | 4000 | | 800006774 | | 800006622 | 50 | 116,5 | 55,5 | 75 | 246,0 |
| 6 | 1400 | 3000 | | 800006775 | | 800006776 | 60,5 | 135,0 | 62,5 | 90 | 317,0 |
| | | | | | | | 0,008 | | | | |

*K Cône Morse

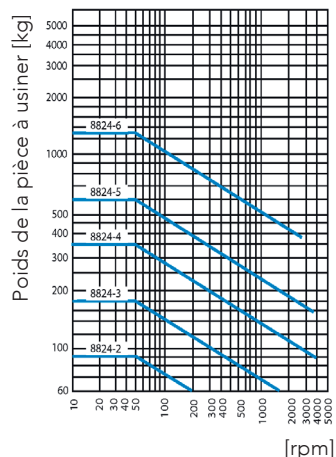
Type 8824, Contre-pointe tournante avec compensation radial



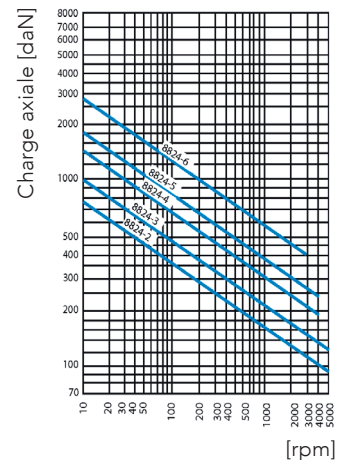
La conception spéciale permet un réglage du jeu radial



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



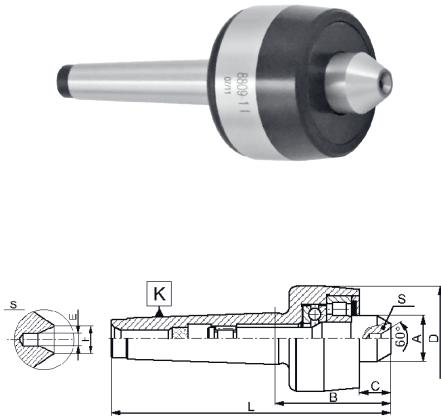
| *K MK | Poids max. | rpm | Excentricité maxi. | Code Article | A | B | C | D | L |
|-------|------------|------|--------------------|--------------|------|-------|------|----|-------|
| | | | Précision | | | | | | |
| 2 | 90 | 8000 | 0,015 | 800002588 | 24 | 85,0 | 38,5 | 44 | 149,5 |
| 3 | 180 | 6000 | | 800002589 | 28 | 100,0 | 47,5 | 48 | 181,0 |
| 4 | 350 | 4500 | | 800002590 | 38 | 117,5 | 66,5 | 60 | 219,5 |
| 5 | 600 | 4000 | | 800002591 | 50 | 147,5 | 86,5 | 75 | 277,0 |
| 6 | 1300 | 3000 | | 800002592 | 60,5 | 167,0 | 94,5 | 90 | 349,0 |

*K Cône Morse

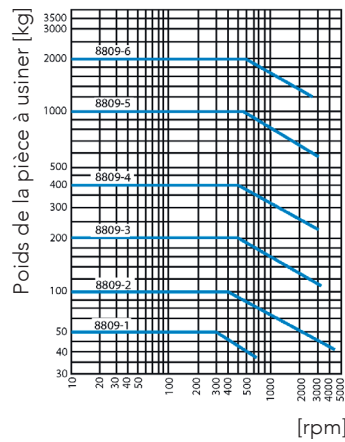
Contre-pointe tournante pour applications lourdes

DIN 228

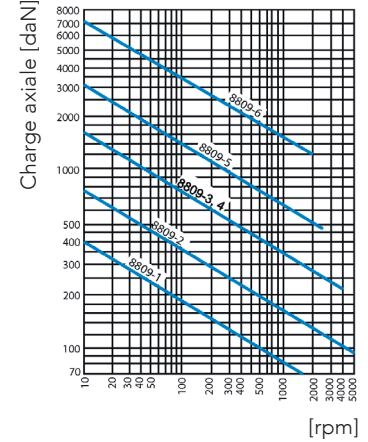
Type 8809, avec pointe creuse



Charge radiale
Durée de vie du palier à roulement: 2000 h



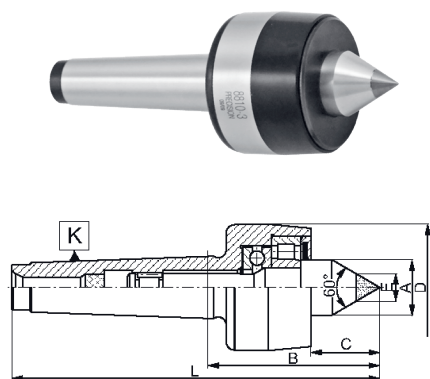
Charge axiale
Durée de vie du palier à roulement: 2000 h



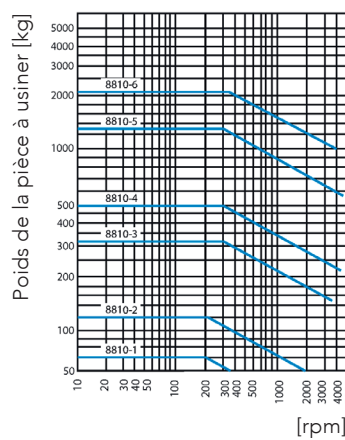
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | | A | B | C | D | L | E | F |
|-------|------------|------|--------------------|-----------|--------------|-----------|-------|------|------|-----|------|------|------|
| | | | Précision | Standard | | | | | | | | | |
| 1 | 50 | 5000 | 0,005 | 800002890 | 0,008 | 800002891 | 15 | 44,0 | 11,5 | 38 | 97,5 | 2,5 | 4,2 |
| 2 | 100 | | | | | 800002893 | 18 | 51,0 | 16,0 | 40 | 115 | | 5,3 |
| 3 | 200 | 4000 | 0,003 | 800002894 | 0,010 | 800002895 | 25 | 66,0 | 18,5 | 56 | 147 | 4,0 | 8,5 |
| 4 | 400 | 3000 | | 800002896 | | 32 | 71,0 | 19,5 | 64 | 173 | 6,3 | | |
| 5 | 1000 | 2500 | 0,005 | 800002898 | 0,010 | 800002899 | 40 | 94,5 | 31,0 | 85 | 224 | 6,3 | 13,2 |
| 6 | 2000 | 2000 | | 800002900 | | 62,4 | 131,0 | 44,0 | 130 | 313 | 10,0 | 21,2 | |

*K Cône Morse

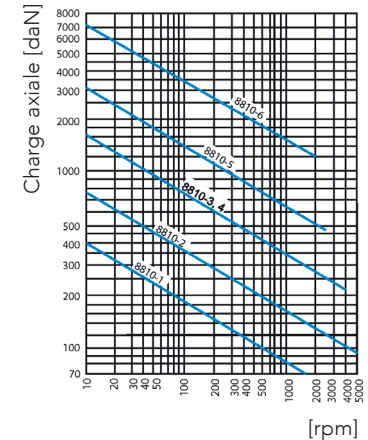
Type 8810
Contre-pointe tournante en métal dur



Charge radiale
Durée de vie du palier à roulement: 2000 h



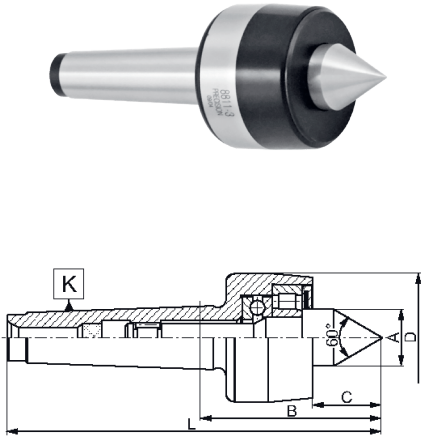
Charge axiale
Durée de vie du palier à roulement: 2000 h



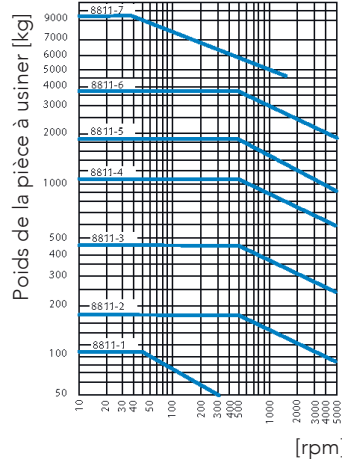
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | | A | B | C | D | E | L |
|-------|------------|------|--------------------|-----------|--------------|-----------|-------|-------|------|----|-------|-------|
| | | | Précision | Standard | | | | | | | | |
| 1 | 60 | 5000 | 0,005 | 800002477 | 0,008 | 800002478 | 15 | 49,5 | 17,0 | 38 | 7 | 103,0 |
| 2 | 120 | | | | | 800002479 | 18 | 56,5 | 21,5 | 40 | | 120,5 |
| 3 | 320 | 4000 | 0,003 | 800002481 | 0,010 | 800002482 | 25 | 75,0 | 27,5 | 56 | 11 | 156,0 |
| 4 | 500 | 3000 | | | | 800002483 | 32 | 85,0 | 33,5 | 64 | 14 | 187,0 |
| 5 | 1250 | 2500 | 0,005 | 800002485 | 0,010 | 800002486 | 40 | 108,0 | 44,0 | 85 | 18 | 237,0 |
| 6 | 2200 | 2000 | | 800002487 | | 62,4 | 151,5 | 64,0 | 130 | 18 | 333,5 | |

*K Cône Morse

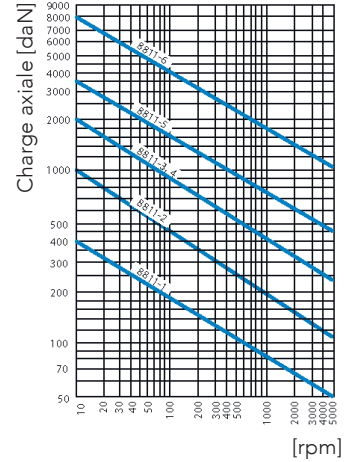
Type 8811



Charge radiale
Durée de vie du palier à roulement: 2000 h



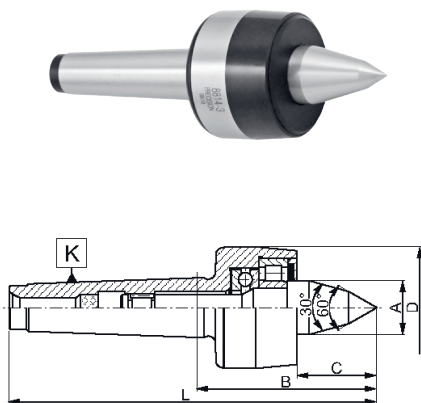
Charge axiale
Durée de vie du palier à roulement: 2000 h



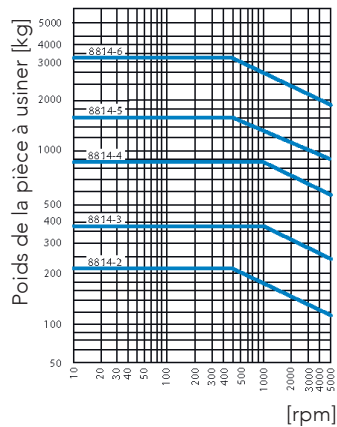
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | | A | B | C | D | L |
|-------|------------|------|--------------------|----------|--------------|-----------|------|-------|------|-----|-------|
| | | | Précision | Standard | | | | | | | |
| 1 | 100 | 5000 | 0,005 | 0,008 | 800006827 | 800006834 | 15 | 49,5 | 17,0 | 38 | 103,0 |
| 2 | 180 | 5000 | | | 800006828 | 800006835 | 18 | 56,5 | 21,5 | 40 | 120,5 |
| 3 | 450 | 4000 | 0,003 | 0,010 | 800006829 | 800006836 | 25 | 75,0 | 27,5 | 56 | 156,0 |
| 4 | 1000 | 3000 | | | 800006830 | 800006837 | 32 | 85,0 | 33,5 | 64 | 187,0 |
| 5 | 1900 | 2500 | 0,005 | 0,020 | 800006831 | 800006838 | 40 | 108,0 | 44,0 | 85 | 237,0 |
| 6 | 3700 | 2000 | | | 800006832 | 800006839 | 62,4 | 151,5 | 64,0 | 130 | 333,5 |
| 7 | 9500 | 1000 | 0,012 | | 800006833 | 800006840 | 75 | 196,5 | 73,5 | 150 | 447,0 |

*K Cône Morse

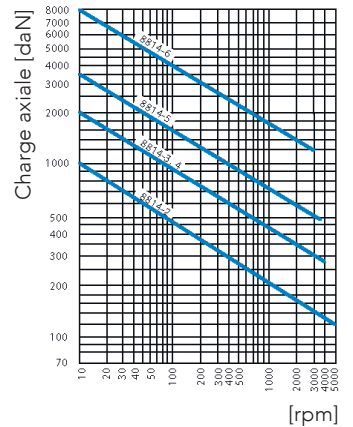
Type 8814, avec pointe prolongée



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



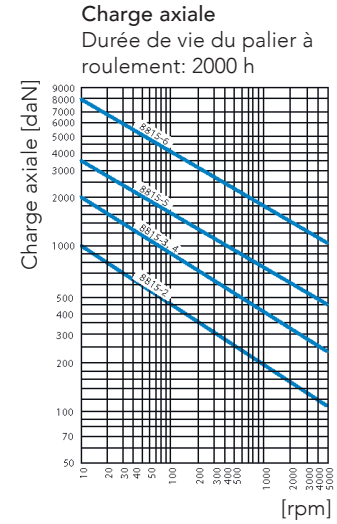
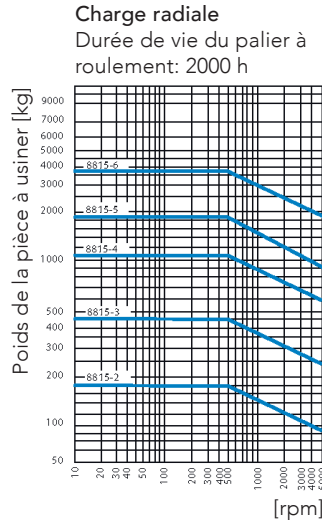
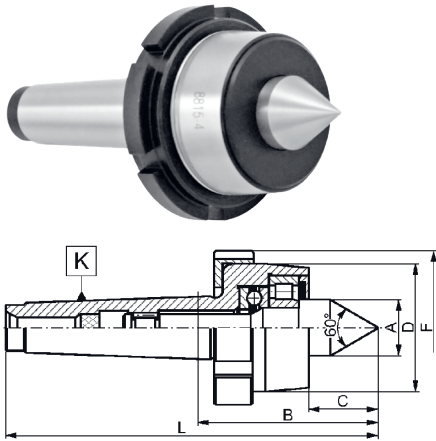
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | | A | B | C | D | L |
|-------|------------|------|--------------------|----------|--------------|-----------|------|-------|------|-----|-------|
| | | | Précision | Standard | | | | | | | |
| 2 | 230 | 5000 | 0,008 | 0,015 | 800006841 | 800006846 | 18,0 | 64,5 | 29,5 | 40 | 128,5 |
| 3 | 380 | 4000 | | | 800006842 | 800006847 | 25,0 | 88,0 | 40,5 | 56 | 169,0 |
| 4 | 850 | 3000 | | | 800006843 | 800006848 | 32,0 | 103,0 | 51,5 | 64 | 205,0 |
| 5 | 1600 | 2500 | 0,010 | 0,020 | 800006844 | 800006849 | 40,0 | 130,0 | 66,0 | 85 | 259,0 |
| 6 | 3150 | 2000 | | | 800006845 | 800006850 | 62,4 | 178,0 | 92,0 | 130 | 360,5 |

*K Cône Morse

Contre-pointe tournante pour applications lourdes

DIN 228

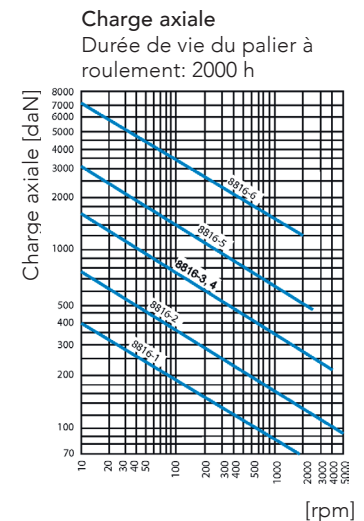
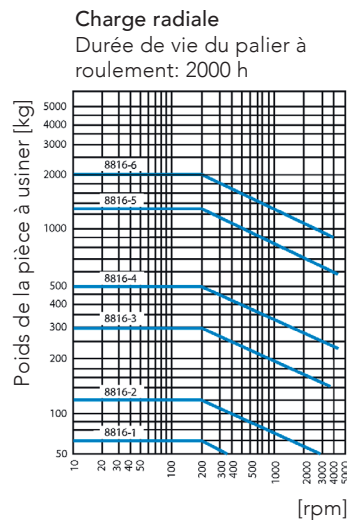
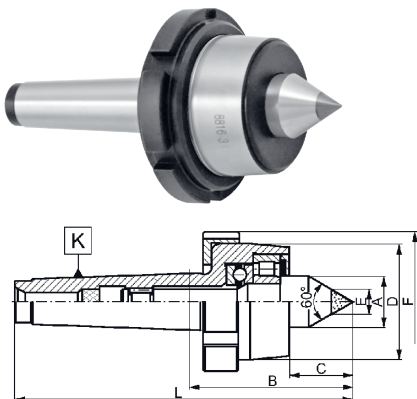
Type 8815, avec écrou d'extraction



| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | Excentricité maxi. | | A | B | C | D | F | L |
|-------|------------|------|--------------------|-----------|--------------|--------------------|----------|------|-------|-------|------|-----|-------|
| | | | Précision | Standard | | Code Article | Standard | | | | | | |
| 1 | 100 | 5000 | 0,005 | Précision | 800006851 | 0,008 | Standard | 15 | 49,5 | 17,0 | 38 | 50 | 103,0 |
| 2 | 180 | | | | | | | 18 | 56,5 | 21,5 | 40 | 52 | 120,5 |
| 3 | 450 | 4000 | 0,003 | Précision | 800006853 | 0,010 | Standard | 25 | 75,0 | 27,5 | 56 | 68 | 156,0 |
| 4 | 1000 | | | | | | | 32 | 85,0 | 33,5 | 64 | 76 | 187,0 |
| 5 | 1900 | 2500 | 0,005 | Précision | 800006855 | 0,010 | Standard | 40 | 108,0 | 44,0 | 85 | 100 | 237,0 |
| 6 | 3700 | | | | | | | 2000 | 62,4 | 151,5 | 64,0 | 130 | 150 |

*K Cône Morse

Type 8816, lourdes avec écrou d'extraction et contre-point en métal dur



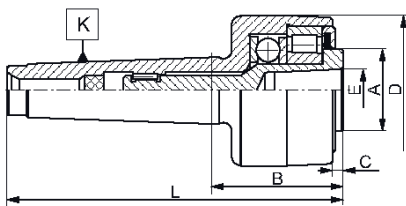
| *K MK | Poids max. | rpm | Excentricité maxi. | | Code Article | Excentricité maxi. | | A | B | C | D | F | E | L |
|-------|------------|------|--------------------|-----------|--------------|--------------------|----------|------|-------|-------|------|-----|----|-------|
| | | | Précision | Standard | | Code Article | Standard | | | | | | | |
| 1 | 60 | 5000 | 0,005 | Précision | 800002561 | 0,008 | Standard | 15 | 49,5 | 17,0 | 38 | 50 | 7 | 103,0 |
| 2 | 120 | | | | | | | 18 | 56,5 | 21,5 | 40 | 52 | | 120,5 |
| 3 | 300 | 4000 | 0,003 | Précision | 800002565 | 0,010 | Standard | 25 | 75,0 | 27,5 | 56 | 68 | 11 | 156,0 |
| 4 | 500 | | | | | | | 32 | 85,0 | 33,5 | 64 | 76 | | 187,0 |
| 5 | 1250 | 2500 | 0,005 | Précision | 800002569 | 0,010 | Standard | 40 | 108,0 | 44,0 | 85 | 100 | 18 | 237,0 |
| 6 | 2000 | | | | | | | 2000 | 62,4 | 151,5 | 64,0 | 130 | | 150 |

*K Cône Morse

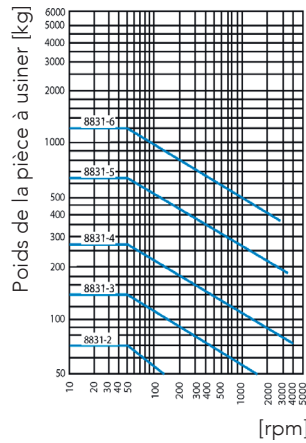
Contre-pointe tournante

DIN 228

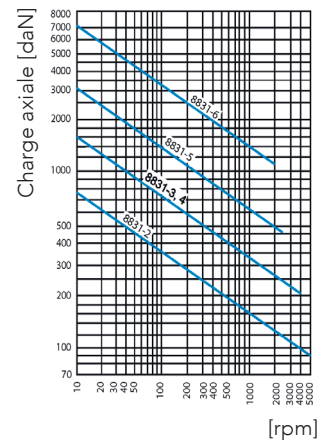
Type 8831, à pointes interchangeables



Charge radiale
Durée de vie du palier à roulement: 2000 h



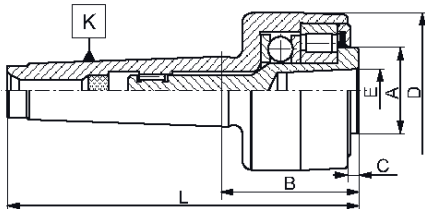
Charge axiale
Durée de vie du palier à roulement: 2000 h



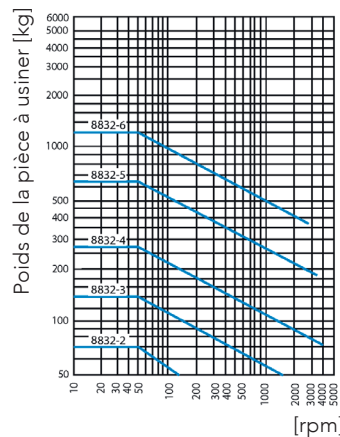
| *K MK | Excentricité maxi. | | Code Article | Excentricité maxi. | | A | B | C | D | L | E |
|-------|--------------------|--|--------------|--------------------|-----------|------|----|-----|-----|-------|----|
| | Précision | | | Standard | | | | | | | |
| 2 | 0,010 | | 800002620 | 0,020 | 800002621 | 18 | 39 | 4,0 | 40 | 103,0 | 7 |
| 3 | | | 800002622 | | 800002623 | 25 | 52 | 4,5 | 56 | 133,0 | 12 |
| 4 | | | 800002624 | | 800002625 | 32 | 57 | 5,5 | 64 | 159,0 | 15 |
| 5 | 0,015 | | 800002626 | 0,030 | 800002627 | 40 | 70 | 6,0 | 85 | 199,0 | 22 |
| 6 | | | 800002628 | | 800002629 | 62,4 | 94 | 6,5 | 130 | 276,0 | 28 |

*K Cône Morse

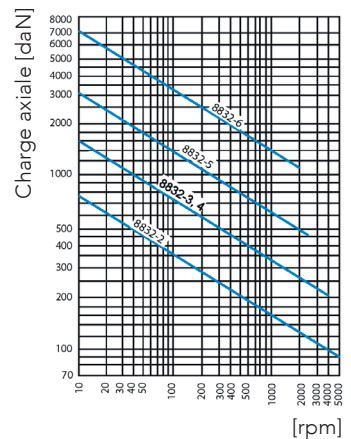
Type 8832, à pointes interchangeables



Charge radiale
Durée de vie du palier à roulement: 2000 h



Charge axiale
Durée de vie du palier à roulement: 2000 h



| *K MK | Excentricité maxi. | | Code Article | Excentricité maxi. | | A | B | C | D | L | E |
|-------|--------------------|--|--------------|--------------------|-----------|------|----|-----|-----|-------|----|
| | Précision | | | Standard | | | | | | | |
| 2 | 0,010 | | 800002645 | 0,020 | 800002646 | 22 | 41 | 3,0 | 45 | 105,0 | 10 |
| 3 | | | 800002647 | | 800002648 | 25 | 52 | 4,5 | 56 | 133,0 | 15 |
| 4 | | | 800002649 | | 800002650 | 32 | 57 | 5,5 | 64 | 159,0 | 20 |
| 5 | 0,015 | | 800002651 | 0,030 | 800002652 | 40 | 70 | 6,0 | 85 | 199,0 | 25 |
| 6 | | | 800002653 | | 800002654 | 62,4 | 94 | 6,5 | 130 | 276,0 | 30 |

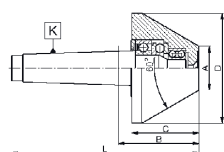
*K Cône Morse

Contre-pointe tournante pour tubes

DIN 228



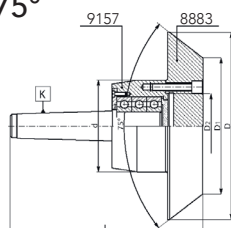
Type 8825, Cône tronqué 60°



| Taille | *K MK | Poids max.. | rpm | Excentricité maxi | Code Article. | A | B | C | D | L |
|--------|-----------|-------------|-----------|-------------------|---------------|-----------|-------|-----------|-------|-------|
| 1 | 1 | 100 | 5000 | 0,008 | 800002598 | 20 | 40,5 | 35 | 50 | 94,0 |
| 2 | 2 | 180 | | | 800002599 | 30 | 41,5 | | 60 | 105,5 |
| 2-1 | | 300 | 800002600 | | 59,0 | | 53 | 80 | 123,0 | |
| 3 | 3 | 350 | 800002601 | | | 40 | | | | 67,0 |
| 3-1 | | 550 | 800002602 | | 50 | | 76,0 | 70 | 120 | |
| 3-2 | 4 | 600 | 3000 | | | 800002603 | | | | 40 |
| 4 | | | | 4 | 700 | | 0,010 | 800002604 | 50 | |
| 4-1 | 800002605 | 120 | | | | | | | | |
| 4-2 | 800002606 | | 140 | | | | | | | |
| 5 | 5 | 750 | | 2000 | 0,020 | 800002607 | 50 | 120 | | |
| 5-1 | | | 800002608 | | | 100 | | | 170 | 207,0 |
| 6 | 6 | 2000 | 1000 | 0,050 | 800002609 | | 180 | 116,0 | | |

*K Cône Morse

Type 8882, Cône tronqué 75°

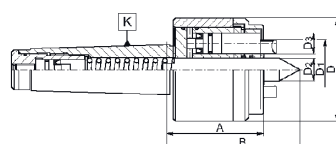


| *K MK | d | D | D1 | D2 | L | Poids max.. | rpm | Excentricité maxi | un jeu | Cône tronqué | | Tournant du corps de base |
|-------|-----|-----|-----------|-----------|-----|-------------|------|-------------------|-----------|--------------|-----------|---------------------------|
| | | | | | | | | | | Code Article | | Code Article |
| 3 | 80 | 150 | 95 | 56 | 180 | 700 | 4000 | 0,05 | 800002954 | 800002967 | 800002984 | |
| | | 200 | 145 | | | | | | | 800002955 | 800002968 | 800002984 |
| 4 | 100 | 150 | 95 | 70 | 206 | 1000 | 3500 | 0,05 | 800002956 | 800002969 | 800002985 | |
| | | 200 | 145 | | | | | | | 800002957 | 800002970 | 800002985 |
| | | 250 | 195 | | | | | | | 800002958 | 800002971 | 800002985 |
| | 125 | 200 | 145 | 95 | 215 | 1500 | 3200 | | | 800002959 | 800002972 | 800002986 |
| | | 250 | 195 | | | | | | | 800002960 | 800002973 | 800002986 |
| | | 300 | 245 | | | | | | | 800002961 | 800002974 | 800002986 |
| 5 | 125 | 200 | 145 | 242 | 245 | 1800 | 3000 | 0,05 | 800002962 | - | 800002987 | |
| | | 250 | 195 | | | | | | | | 800002963 | 800002987 |
| | 300 | 245 | 800002964 | 800002987 | | | | | | | | |
| | 160 | 250 | 195 | 125 | 245 | 1800 | 3000 | | | 800002965 | 800002975 | 800002988 |
| | | 300 | 245 | | | | | | | 800002966 | 800002976 | 800002988 |

*K Cône Morse



Type 8410, Entraîneur frontal hydraulique

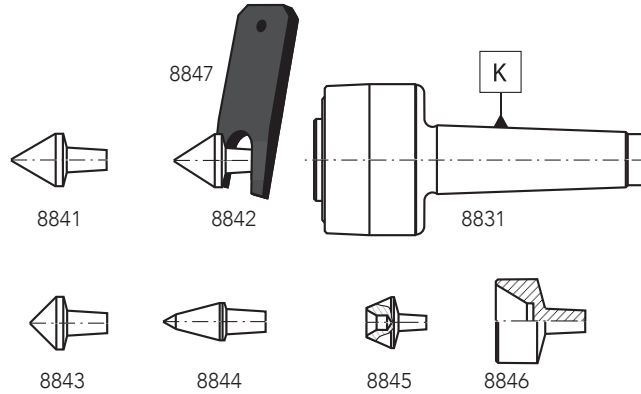


| Code Article | D1 | *K MK | D | D2 | D3 | A | B | Excentricité maxi | Poids max. |
|--------------|----|-------|-----|----|----|----|-----|-------------------|------------|
| 800002740 | 27 | 4 | 68 | 12 | 12 | 64 | 80 | 0,02 | 55 |
| 800002741 | | 5 | | | | | | | |
| 800002742 | 40 | 4 | 81 | 14 | 12 | 67 | 84 | 0,02 | 65 |
| 800002743 | | 5 | | | | | | | |
| 800002744 | 50 | 5 | 90 | 20 | 18 | 86 | 113 | 0,03 | 100 |
| 800002745 | 63 | | 100 | | | | | | |

*K Cône Morse

Coffret de contre-pointes tournantes à pointes interchangeable

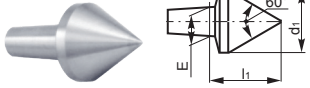
Type 8831-KPL avec pointes interchangeables



| *K MK | Poids max. | rpm. | Excentricité maxi | | Code Article | |
|-------|------------|------|-------------------|----------|--------------|-----------|
| | | | Précision | Standard | | |
| 2 | 70 | 5000 | 0,010 | | 800002610 | 800002611 |
| 3 | 120 | 4000 | | | 800002612 | 800002613 |
| 4 | 280 | 3000 | | | 800002614 | 800002615 |
| 5 | 650 | 2500 | 0,015 | | 800002616 | 800002617 |
| 6 | 1200 | 2000 | | | 800002618 | 800002619 |

*K Cône Morse

Type 8841



| Code Article. | W* | d1 | E | l1 |
|---------------|----|----|----|------|
| 800002660 | 2 | 18 | 7 | 21,0 |
| 800002661 | 3 | 25 | 12 | 28,0 |
| 800002662 | 4 | 28 | 15 | 30,5 |
| 800002663 | 5 | 40 | 22 | 42,5 |
| 800002664 | 6 | 60 | 28 | 61,5 |

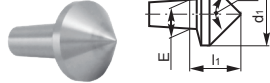
*Type

Type 8842



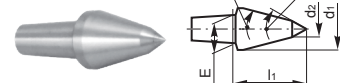
| Code Article. | W* | d1 | E | l1 |
|---------------|----|----|----|------|
| 800002665 | 2 | 18 | 7 | 17,5 |
| 800002666 | 3 | 25 | 12 | 23,0 |
| 800002667 | 4 | 28 | 15 | 25,0 |
| 800002668 | 5 | 40 | 22 | 34,0 |
| 800002669 | 6 | 60 | 28 | 50,5 |

Type 8843



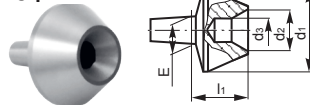
| Code Article | W* | d1 | E | l1 |
|--------------|----|----|----|------|
| 800002670 | 2 | 18 | 7 | 15,0 |
| 800002671 | 3 | 25 | 12 | 19,0 |
| 800002672 | 4 | 28 | 15 | 21,0 |
| 800002673 | 5 | 40 | 22 | 28,0 |
| 800002674 | 6 | 60 | 28 | 40,0 |

Type 8844



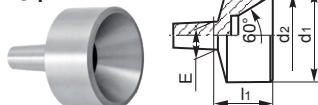
| Code Article | W* | d1 | d2 | E | l1 |
|--------------|----|----|----|----|------|
| 800002675 | 2 | 15 | 6 | 7 | 27,0 |
| 800002676 | 3 | 18 | 8 | 12 | 31,0 |
| 800002677 | 4 | 25 | 12 | 15 | 40,5 |
| 800002678 | 5 | 28 | 13 | 22 | 45,5 |
| 800002679 | 6 | 40 | 18 | 28 | 63,5 |

Type 8845



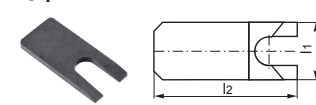
| Code Article | W* | d1 | d2 | d3 | E | l1 |
|--------------|----|-----|----|----|----|------|
| 800002680 | 2 | 28 | 12 | 6 | 7 | 18,5 |
| 800002681 | 3 | 40 | 19 | | 12 | 24,0 |
| 800002682 | 4 | 55 | 22 | 10 | 15 | 36,5 |
| 800002683 | 5 | 70 | 32 | | 22 | 42,0 |
| 800002684 | 6 | 100 | 50 | 15 | 28 | 56,0 |

Type 8846



| Code Article | W* | d1 | d2 | E | l1 |
|--------------|----|-----|----|----|------|
| 800002904 | 2 | 28 | 24 | 7 | 21,5 |
| 800002905 | 3 | 40 | 35 | 12 | 26,5 |
| 800002906 | 4 | 55 | 48 | 15 | 39,0 |
| 800002907 | 5 | 70 | 63 | 22 | 47,0 |
| 800002908 | 6 | 100 | 90 | 28 | 62,0 |

Type 8847

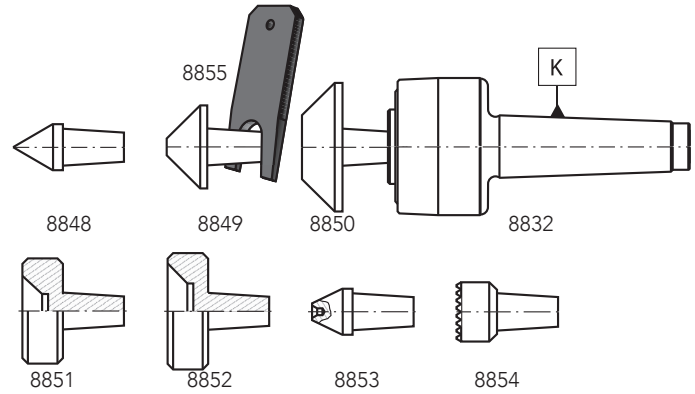


| Code Article | W* | l1 | l2 |
|--------------|----|----|-----|
| 800002909 | 2 | 20 | 50 |
| 800002910 | 3 | 30 | 70 |
| 800002911 | 4 | 45 | 100 |
| 800002912 | 5 | 55 | 120 |
| 800002913 | 6 | 65 | 160 |

Coffret de contre-pointes tournantes à pointes interchangeables

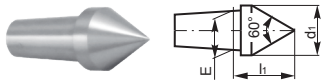


Type 8832-KPL , avec pointes interchangeables



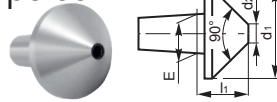
| K Cône Morse | Poids max. | rpm | Excentricité maxi. | | Code Article | |
|--------------|------------|------|--------------------|----------|--------------|-----------|
| | | | Précision | Standard | | |
| 2 | 70 | 5000 | 0,010 | 0,020 | 800002635 | 800002636 |
| 3 | 120 | 4000 | | | 800002637 | 800002638 |
| 4 | 280 | 3000 | | | 800002639 | 800002640 |
| 5 | 650 | 2500 | 0,015 | 0,030 | 800002641 | 800002642 |
| 6 | 1200 | 2000 | | | 800002643 | 800002644 |

Type 8848



| Code Article | W* | d1 | E | l1 |
|--------------|----|----|----|----|
| 800002914 | 2 | 15 | 10 | 19 |
| 800002915 | 3 | 20 | 15 | 25 |
| 800002916 | 4 | 25 | 20 | 30 |
| 800002917 | 5 | 32 | 25 | 35 |
| 800002918 | 6 | 36 | 30 | 44 |

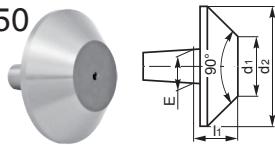
Type 8849



| Code Article | W* | d1 | d2 | E | l1 |
|--------------|----|----|----|----|----|
| 800002919 | 2 | 22 | 3 | 10 | 15 |
| 800002920 | 3 | 36 | 6 | 15 | 22 |
| 800002921 | 4 | 45 | 10 | 20 | 25 |
| 800002922 | 5 | 56 | 14 | 25 | 30 |
| 800002923 | 6 | 70 | 18 | 30 | 36 |

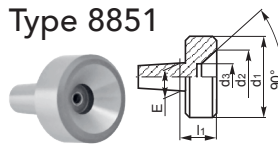
*Type

Type 8850



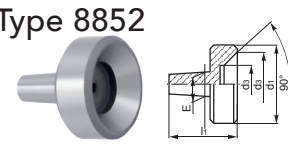
| Code Article | W* | d1 | d2 | E | l1 |
|--------------|----|----|-----|----|----|
| 800002924 | 2 | 18 | 37 | 10 | 15 |
| 800002925 | 3 | 33 | 63 | 15 | 22 |
| 800002926 | 4 | 35 | 70 | 20 | 25 |
| 800002927 | 5 | 38 | 80 | 25 | 30 |
| 800002928 | 6 | 50 | 100 | 30 | 36 |

Type 8851



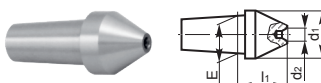
| Code Article | W* | d1 | d2 | d3 | E | l1 |
|--------------|----|----|----|----|----|----|
| 800002929 | 2 | 22 | 18 | 8 | 10 | 15 |
| 800002930 | 3 | 36 | 28 | 12 | 15 | 22 |
| 800002931 | 4 | 45 | 37 | 17 | 20 | 25 |
| 800002932 | 5 | 56 | 44 | 20 | 25 | 30 |
| 800002933 | 6 | 70 | 58 | 24 | 30 | 36 |

Type 8852



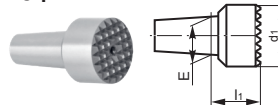
| Code Article | W* | d1 | d2 | d3 | E | l1 |
|--------------|----|-----|----|----|----|----|
| 800002934 | 2 | 30 | 25 | 15 | 10 | 15 |
| 800002935 | 3 | 45 | 38 | 22 | 15 | 22 |
| 800002936 | 4 | 63 | 53 | 30 | 20 | 25 |
| 800002937 | 5 | 70 | 60 | 36 | 25 | 30 |
| 800002938 | 6 | 100 | 88 | 54 | 30 | 36 |

Type 8853



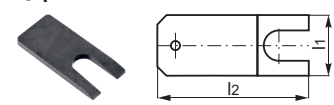
| Code Article. | W* | d1 | E | l1 |
|---------------|----|----|----|----|
| 800002914 | 2 | 15 | 10 | 19 |
| 800002915 | 3 | 20 | 15 | 25 |
| 800002916 | 4 | 25 | 20 | 30 |
| 800002917 | 5 | 32 | 25 | 35 |
| 800002918 | 6 | 36 | 30 | 44 |

Type 8854



| Code Article | W* | d1 | E | l1 |
|--------------|----|----|----|----|
| 800002944 | 2 | 18 | 10 | 15 |
| 800002945 | 3 | 25 | 15 | 22 |
| 800002946 | 4 | 32 | 20 | 25 |
| 800002947 | 5 | 45 | 25 | 30 |
| 800002948 | 6 | 56 | 30 | 36 |

Type 8855



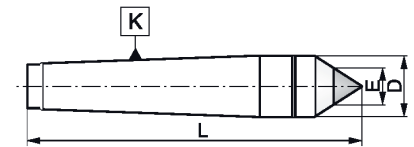
| Code Article | W* | l1 | l2 |
|--------------|----|----|-----|
| 800002949 | 2 | 20 | 60 |
| 800002950 | 3 | 30 | 80 |
| 800002951 | 4 | 40 | 100 |
| 800002952 | 5 | 50 | 120 |
| 800002953 | 6 | 60 | 160 |

Contre-pointe fixe avec angle de pointe 60°

DIN 228



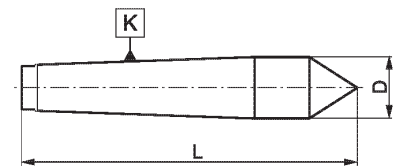
Type 8711, avec métal dur



| Code Article | K Cône Morse | L | D | E |
|--------------|--------------|-----|------|----|
| 800002824 | 0 | 70 | 9,2 | 5 |
| 800002825 | 1 | 80 | 12,2 | 7 |
| 800002826 | 2 | 100 | 18,0 | 7 |
| 800002827 | 3 | 125 | 24,1 | 11 |
| 800002828 | 4 | 160 | 31,6 | 14 |
| 800002829 | 5 | 200 | 44,7 | 18 |
| 800002830 | 6 | 270 | 63,8 | 18 |



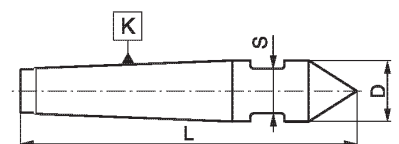
Type 8712



| Code Article | K Cône Morse | L | D |
|--------------|--------------|-----|------|
| 800002831 | 0 | 70 | 9,2 |
| 800002832 | 1 | 80 | 12,2 |
| 800002833 | 2 | 100 | 18,0 |
| 800002834 | 3 | 125 | 24,1 |
| 800002835 | 4 | 160 | 31,6 |
| 800002836 | 5 | 200 | 44,7 |
| 800002837 | 6 | 270 | 63,8 |
| 800002838 | 7 | 360 | 83,5 |



Type 8720, avec méplat de clé



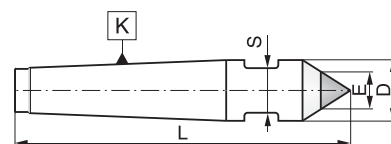
| Code Article | K Cône Morse | L | D | S |
|--------------|--------------|-----|------|----|
| 800002839 | 0 | 78 | 9,2 | 7 |
| 800002840 | 1 | 90 | 12,2 | 10 |
| 800002841 | 2 | 112 | 18,0 | 13 |
| 800002842 | 3 | 138 | 24,1 | 19 |
| 800002843 | 4 | 175 | 31,6 | 24 |
| 800002844 | 5 | 217 | 44,7 | 36 |
| 800002845 | 6 | 290 | 63,8 | 55 |

Contre-pointe fixe avec angle de pointe 60°

DIN 228



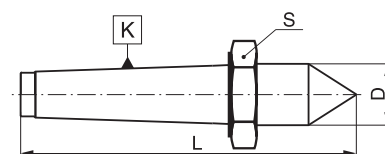
Type 8721, en métal dur
avec méplat de clé



| Code Article | K MK | L | D | E | S |
|--------------|------|-----|------|----|----|
| 800002846 | 0 | 78 | 9,2 | 5 | 7 |
| 800002847 | 1 | 90 | 12,2 | 7 | 10 |
| 800002848 | 2 | 112 | 18,0 | 7 | 13 |
| 800002849 | 3 | 138 | 24,1 | 11 | 19 |
| 800002850 | 4 | 175 | 31,6 | 14 | 24 |
| 800002851 | 5 | 217 | 44,7 | 18 | 36 |
| 800002852 | 6 | 290 | 63,8 | 18 | 55 |



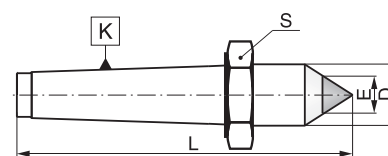
Type 8725
avec écrou d'extraction



| Code Article | K MK | L | D | E | S |
|--------------|------|-----|------|----|----|
| 800002846 | 0 | 78 | 9,2 | 5 | 7 |
| 800002847 | 1 | 90 | 12,2 | 7 | 10 |
| 800002848 | 2 | 112 | 18,0 | 7 | 13 |
| 800002849 | 3 | 138 | 24,1 | 11 | 19 |
| 800002850 | 4 | 175 | 31,6 | 14 | 24 |
| 800002851 | 5 | 217 | 44,7 | 18 | 36 |
| 800002852 | 6 | 290 | 63,8 | 18 | 55 |



Type 8726, en métal dur
avec écrou d'extraction

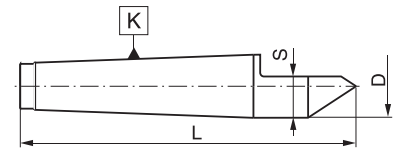


| Code Article | K MK | L | D | E | S | |
|--------------|------|-----|------|----|-----|----------|
| 800002860 | 0 | 78 | 9,2 | 5 | 19 | S-0772/0 |
| 800002861 | 1 | 90 | 12,2 | 7 | 24 | S-0774/0 |
| 800002862 | 2 | 112 | 18,0 | 7 | 32 | S-0776/0 |
| 800002863 | 3 | 138 | 24,1 | 11 | 41 | S-0778/0 |
| 800002864 | 4 | 175 | 31,6 | 14 | 55 | S-0780/0 |
| 800002865 | 5 | 217 | 44,7 | 18 | 75 | S-0782/0 |
| 800002866 | 6 | 290 | 63,8 | 18 | 100 | S-0784/0 |

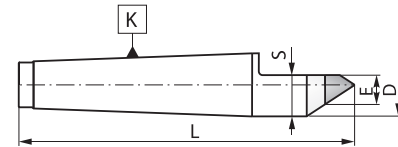




Type 8730, demi-pointe fixe



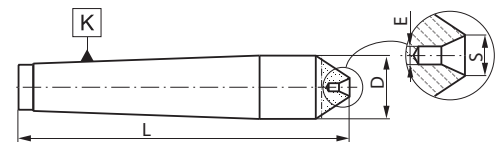
| Code Article | K MK | L | D | S |
|--------------|------|-----|------|------|
| 800002867 | 0 | 70 | 9,2 | 5,6 |
| 800002868 | 1 | 80 | 12,2 | 7,6 |
| 800002869 | 2 | 100 | 18,0 | 11,0 |
| 800002870 | 3 | 125 | 24,1 | 15,0 |
| 800002871 | 4 | 160 | 31,6 | 20,8 |
| 800002872 | 5 | 200 | 44,7 | 29,3 |
| 800002873 | 6 | 270 | 63,8 | 42,6 |

Type 8731, demi-pointe fixe
en métal dur

| Code Article. | K MK | L | D | E | S |
|---------------|------|-----|------|----|------|
| 800002874 | 0 | 70 | 9,2 | 5 | 7,8 |
| 800002875 | 1 | 80 | 12,2 | 7 | 10,3 |
| 800002876 | 2 | 100 | 18,0 | | 13,0 |
| 800002877 | 3 | 125 | 24,1 | 11 | 18,3 |
| 800002878 | 4 | 160 | 31,6 | 14 | 23,5 |
| 800002879 | 5 | 200 | 44,7 | 18 | 32,0 |
| 800002880 | 6 | 270 | 63,8 | 18 | 41,7 |



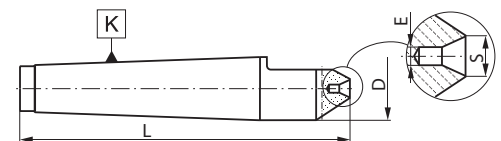
Type 8735, avec pointe creuse



| Code Article | K MK | L | D | E | S |
|--------------|------|-----|------|-----|-------|
| 800002881 | 0 | 66 | 9,2 | 1,0 | 2,12 |
| 800002882 | 1 | 74 | 12,2 | 1,6 | 3,35 |
| 800002883 | 2 | 94 | 18,0 | 2,5 | 5,30 |
| 800002884 | 3 | 115 | 24,1 | 4,0 | 8,50 |
| 800002885 | 4 | 146 | 31,6 | 6,3 | 13,20 |



Type 8740, avec pointe creuse



| Code Article. | K MK | L | D | E | S |
|---------------|------|-----|------|-----|------|
| 800002886 | 0 | 66 | 9,2 | 1,0 | 2,20 |
| 800002887 | 1 | 74 | 12,2 | 1,6 | 3,35 |
| 800002888 | 2 | 94 | 18,0 | 2,5 | 5,30 |
| 800002889 | 3 | 115 | 24,1 | 4,0 | 8,50 |