

## ABACUS

ACTIONNEUR DE  
MONTAGE EXTERNE  
VERSIONS 230V et 24V

Life  
made  
easy



# ABACUS

## Caractéristiques techniques

Déverrouillage d'urgence manuel avec poignée en aluminium



Corps monobloc en aluminium moulé sous pression

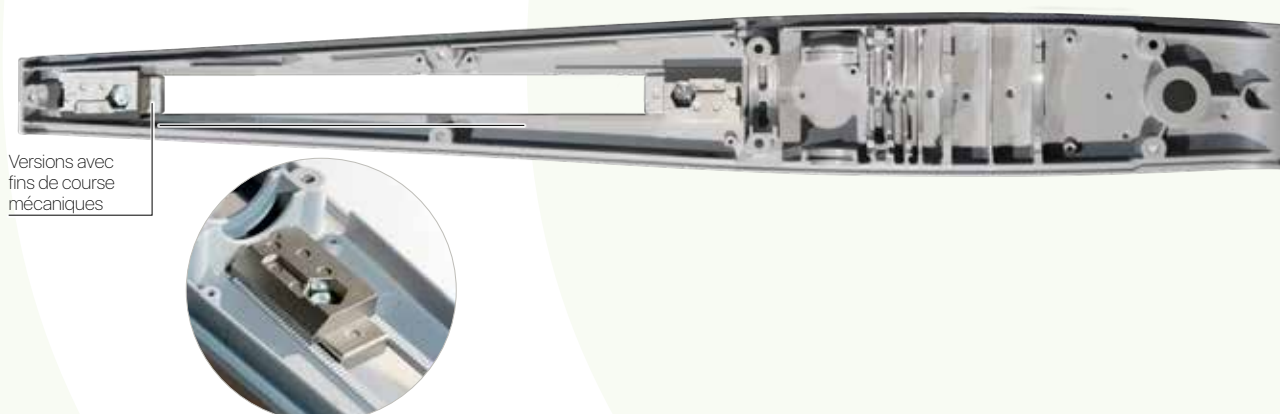
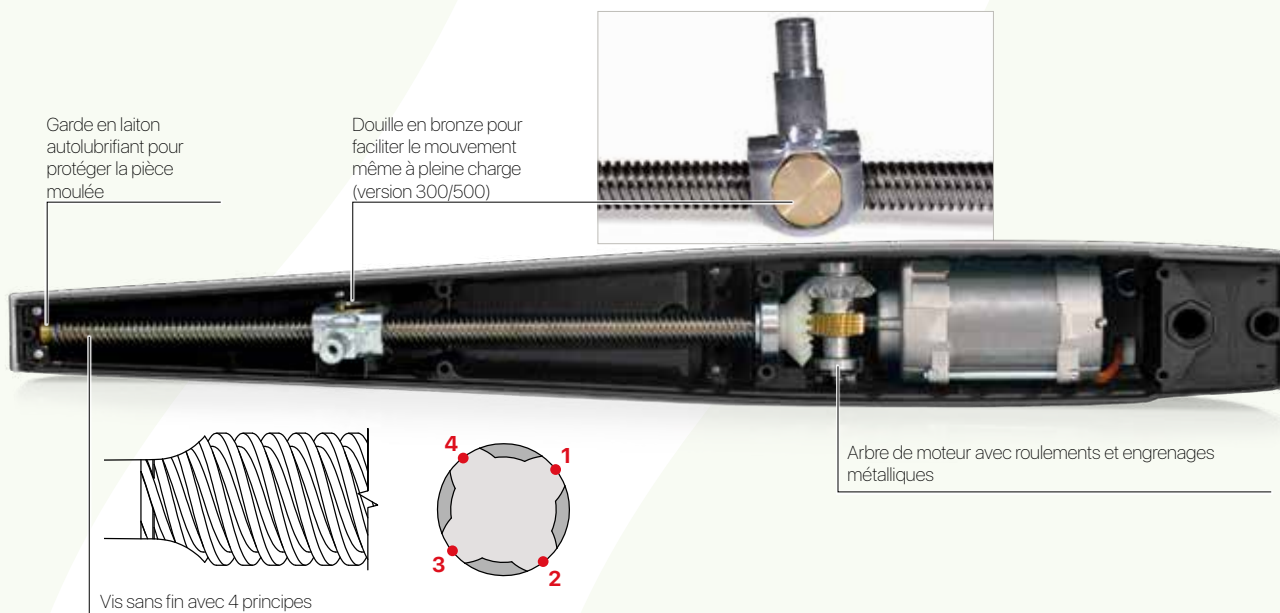
Profil d'actionneur en aluminium

Profil d'actionneur en aluminium



Chaque produit est régulièrement testé à la fin de la chaîne de montage





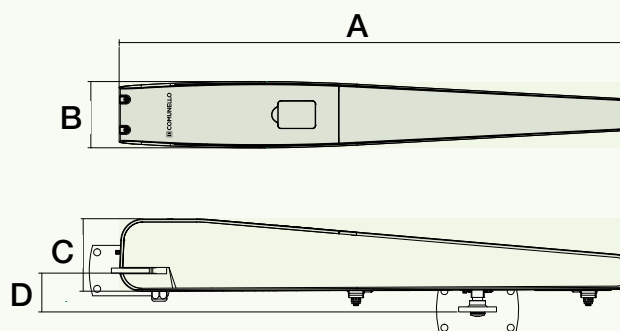
# ABACUS

## Caractéristiques techniques



### DIMENSIONS (mm)

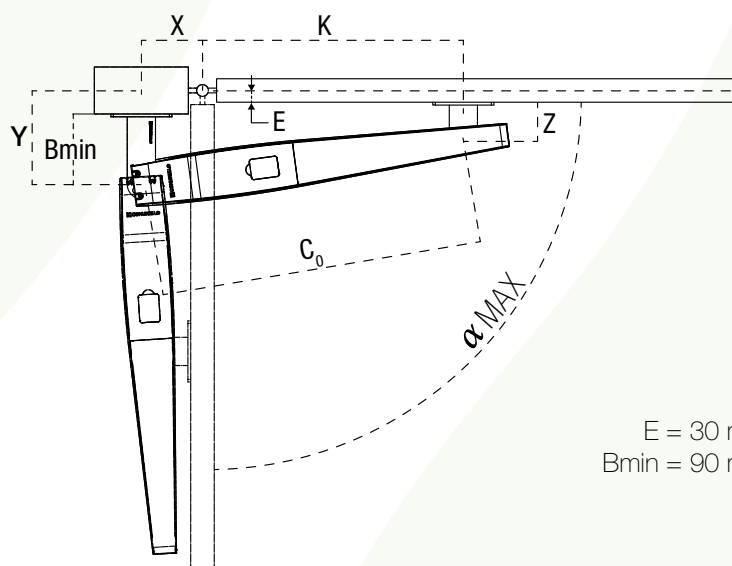
|   | ABACUS 220 | ABACUS 300 | ABACUS 500 |
|---|------------|------------|------------|
| A | 765        | 805        | 955        |
| B | 95         | 105        | 105        |
| C | 95         | 115        | 115        |
| D | 61,3       | 61,5       | 61,5       |



### CARACTÉRISTIQUES TECHNIQUES

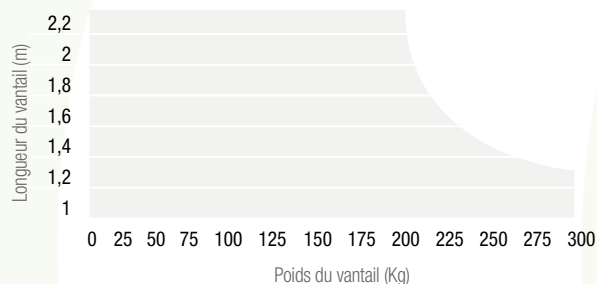
Disponible avec fins de course mécaniques ou électroniques et en versions avec encodeur

|                          | ABACUS 220 24V | ABACUS 220 230V     | ABACUS 300 24V | ABACUS 300 230V     | ABACUS 500 24V | ABACUS 500 230V     |
|--------------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|
| Tension                  | 24 VDC         | 230 VAC             | 24 VDC         | 230 VAC             | 24 VDC         | 230 VAC             |
| Puissance absorbée       | 70 W           | 180 W               | 110 W          | 280 W               | 110 W          | 280 W               |
| Absorption maximale      | 3 A            | 0,8 A               | 5 A            | 1,2 A               | 5 A            | 1,2 A               |
| Poussée maximale         | 1500 N         | 1400 N              | 1800 N         | 2000 N              | 1800 N         | 2000 N              |
| Course max.              | 296 mm         | 296 mm              | 296 mm         | 296 mm              | 446 mm         | 446 mm              |
| Travail intermittent     | Usage intensif | 50%                 | Usage intensif | 50%                 | Usage intensif | 50%                 |
| Degré de protection (IP) | IP44           | IP44                | IP44           | IP44                | IP44           | IP44                |
| Classe d'isolation       | 2              | 1 (mise à la masse) | 2              | 1 (mise à la masse) | 2              | 1 (mise à la masse) |
| Temp. de fonctionnement  | -20°C / +50°C  | -20°C / +50°C       | -20°C / +50°C  | -20°C / +50°C       | -20°C / +50°C  | -20°C / +50°C       |
| Vitesse sans charge      | 18 mm/s        | 16 mm/s             | 21 mm/s        | 16 mm/s             | 21 mm/s        | 16 mm/s             |
| Poids                    | 8 kg           | 8,6 kg              | 10,1 kg        | 10,7 kg             | 10,7 kg        | 11,2 kg             |



E = 30 mm  
Bmin = 90 mm

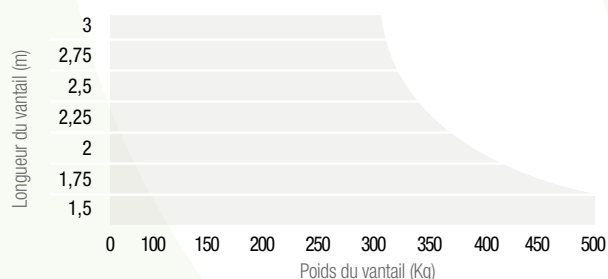
## LIMITES D'UTILISATION **ABACUS 220**



| AS220 |   |                 |       |                 |       |                 |       |                 |       |                 |       |                 |       |                 |       |
|-------|---|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
|       | X | 80              |       | 100             |       | 120             |       | 140             |       | 160             |       | 180             |       | 200             |       |
| Y     |   | K               | Z     | K               | Z     | K               | Z     | K               | Z     | K               | Z     | K               | Z     | K               | Z     |
|       |   | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ | $\alpha_{\max}$ | $C_0$ |
| 100   |   | 568             | 55    | 548             | 60    | 528             | 65    | 508             | 75    | 488             | 85    | 468             | 95    | 448             | 110   |
|       |   | 98°             | 648,5 | 107°            | 648,5 | 115°            | 648,5 | 118°            | 648,5 | 103°            | 648,5 | 95°             | 648,5 | 90°             | 648,5 |
| 120   |   | 567             | 60    | 549             | 65    | 529             | 75    | 509             | 85    | 489             | 90    | 469             | 105   |                 |       |
|       |   | 97°             | 649   | 105°            | 649   | 112°            | 649   | 106°            | 649   | 96°             | 649   | 90°             | 649   |                 |       |
| 140   |   | 566             | 65    | 546             | 70    | 526             | 80    | 506             | 90    | 488             | 100   |                 |       |                 |       |
|       |   | 96°             | 649   | 104°            | 649   | 110°            | 649   | 95°             | 649   | 89°             | 649   |                 |       |                 |       |
| 160   |   | 564             | 70    | 546             | 75    | 527             | 85    | 508             | 95    |                 |       |                 |       |                 |       |
|       |   | 95°             | 649   | 102°            | 649   | 95°             | 649   | 88°             | 649   |                 |       |                 |       |                 |       |
| 180   |   | 564             | 75    | 544             | 85    | 526             | 95    |                 |       |                 |       |                 |       |                 |       |
|       |   | 95°             | 649   | 96°             | 649   | 87°             | 649   |                 |       |                 |       |                 |       |                 |       |

AC 80  
AC 85

## LIMITES D'UTILISATION **ABACUS 300**



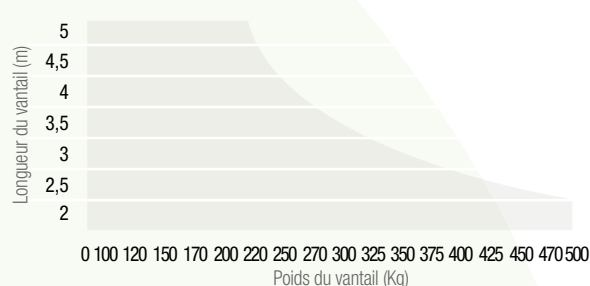
| A5300 |   |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|-------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|       | X | 80             |                | 100            |                | 120            |                | 140            |                | 160            |                | 180            |                | 200            |                |
| Y     |   | K              | Z              | K              | Z              | K              | Z              | K              | Z              | K              | Z              | K              | Z              | K              | Z              |
|       |   | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> | $\alpha_{max}$ | C <sub>0</sub> |
| 100   |   | 605            | 65             | 585            | 65             | 565            | 70             | 545            | 75             | 525            | 80             | 505            | 95             | 488            | 102,5          |
|       |   | 96°            | 685            | 105°           | 685            | 114°           | 685            | 115°           | 685            | 101°           | 685            | 94°            | 685            | 90°            | 688            |
| 120   |   | 608            | 75             | 588            | 70             | 568            | 70             | 548            | 75             | 528            | 85             | 508            | 102,5          |                |                |
|       |   | 95°            | 688            | 104°           | 688            | 110°           | 688            | 105°           | 688            | 95°            | 688            | 90°            | 688            |                |                |
| 140   |   | 607            | 65             | 586            | 65             | 567            | 75             | 547            | 80             | 529            | 90             |                |                |                |                |
|       |   | 95°            | 688            | 105°           | 688            | 110°           | 688            | 96°            | 688            | 90°            | 688            |                |                |                |                |
| 160   |   | 605            | 70             | 584            | 75             | 566            | 80             |                |                |                |                |                |                |                |                |
|       |   | 94°            | 688            | 100°           | 688            | 95°            | 688            |                |                |                |                |                |                |                |                |
| 180   |   | 600            | 75             | 580            | 80             |                |                |                |                |                |                |                |                |                |                |
|       |   | 89°            | 685            | 90°            | 680            |                |                |                |                |                |                |                |                |                |                |
| 200   |   | 600            | 80             |                |                |                |                |                |                |                |                |                |                |                |                |
|       |   | 90°            | 685            |                |                |                |                |                |                |                |                |                |                |                |                |

NON RECOMMAN

AC 80

NON RECOMMANDÉ  
AC 80

## LIMITES D'UTILISATION **ABACUS 500**



|     |     | ASS00            |                 |                  |                 |                  |                 |                  |                 |                  |                 |                  |                 |                  |                 |                  |                 |                  |                 |                  |                 |     |  |
|-----|-----|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|-----|--|
|     | X   | 80               |                 | 100              |                 | 120              |                 | 140              |                 | 160              |                 | 180              |                 | 200              |                 | 220              |                 | 240              |                 | 260              |                 |     |  |
| Y   |     | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> | K <sub>max</sub> | Z <sub>C0</sub> |     |  |
| 100 |     | 758              | 60              | 738              | 60              | 718              | 60              | 698              | 65              | 678              | 75              | 658              | 85              | 638              | 95              | 618              | 102,5           | 597              | 120             | 577              | 135             |     |  |
|     | 95° | 838              | 104°            | 838              | 113°            | 838              | 120°            | 838              | 127°            | 838              | 130°            | 838              | 135°            | 838              | 133°            | 838              |                 |                  | 118°            | 837              | 118°            | 837 |  |
| 120 |     | 757              | 60              | 737              | 60              | 717              | 65              | 698              | 70              | 678              | 80              | 658              | 90              | 638              | 100             |                  |                 | 598              | 125             | 577              | 135             |     |  |
|     | 94° | 837              | 102°            | 837              | 110°            | 837              | 116°            | 838              | 123°            | 838              | 128°            | 838              | 132°            | 838              |                 |                  |                 | 112°             | 837             | 105°             | 837             |     |  |
| 140 |     | 756              | 65              | 736              | 60              | 716              | 75              | 696              | 80              | 676              | 85              | 656              | 90              | 636              | 102,5           |                  |                 | 596              | 135             | 576              | 140             |     |  |
|     | 94° | 836              | 102°            | 836              | 108°            | 836              | 115°            | 836              | 120°            | 836              | 125°            | 836              | 129°            | 836              |                 |                  |                 | 107°             | 836             | 101°             | 836             |     |  |
| 160 |     | 756              | 65              | 736              | 70              | 716              | 80              | 696              | 90              | 676              | 95              | 656              | 102,5           |                  |                 |                  |                 | 596              | 135             | 576              | 145             |     |  |
|     | 93° | 836              | 100°            | 836              | 106°            | 836              | 112°            | 836              | 118°            | 836              | 122°            | 836              |                 |                  |                 |                  |                 | 107°             | 836             | 96°              | 836             |     |  |
| 180 |     | 753              | 70              | 733              | 75              | 713              | 80              | 693              | 90              | 673              | 95              | 653              | 102,5           | 633              | 115             | 613              | 125             | 593              | 140             |                  |                 |     |  |
|     | 93° | 838              | 99°             | 838              | 104°            | 838              | 110°            | 838              | 115°            | 838              | 119°            | 838              | 109°            | 838              | 100°            | 838              | 95°             | 838              |                 |                  |                 |     |  |
| 200 |     | 756              | 75              | 736              | 80              | 716              | 90              | 696              | 102,5           | 676              | 110             | 656              | 120             | 637              | 130             | 617              | 140             |                  |                 |                  |                 |     |  |
|     | 93° | 838              | 98°             | 838              | 104°            | 838              | 108°            | 838              | 113°            | 838              | 117°            | 838              | 103°            | 838              | 97°             | 838              |                 |                  |                 |                  |                 |     |  |
| 220 |     | 748              | 80              | 728              | 90              | 708              | 100             | 688              | 110             | 673              | 115             | 653              | 120             | 633              | 130             | 613              | 140             |                  |                 |                  |                 |     |  |
|     | 93° | 837              | 98°             | 837              | 102°            | 837              | 107°            | 838              | 111°            | 838              | 115°            | 838              | 95°             | 838              | 90°             | 835              |                 |                  |                 |                  |                 |     |  |
| 240 |     | 748              | 85              | 728              | 95              | 709              | 100             | 692              | 110             | 672              | 120             | 654              | 130             | 635              | 140             | 615              | 145             |                  |                 |                  |                 |     |  |
|     | 93° | 838              | 98°             | 838              | 102°            | 837              | 106°            | 838              | 108°            | 838              | 97°             | 838              | 90°             | 838              | 89°             | 838              |                 |                  |                 |                  |                 |     |  |

AC 85 AC 80 AC 80 + AC 85 NON RECOMMANDÉ



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