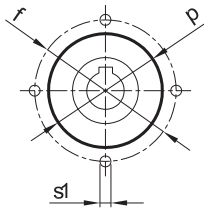
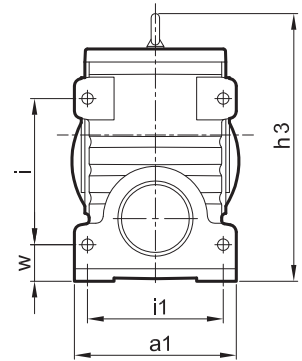
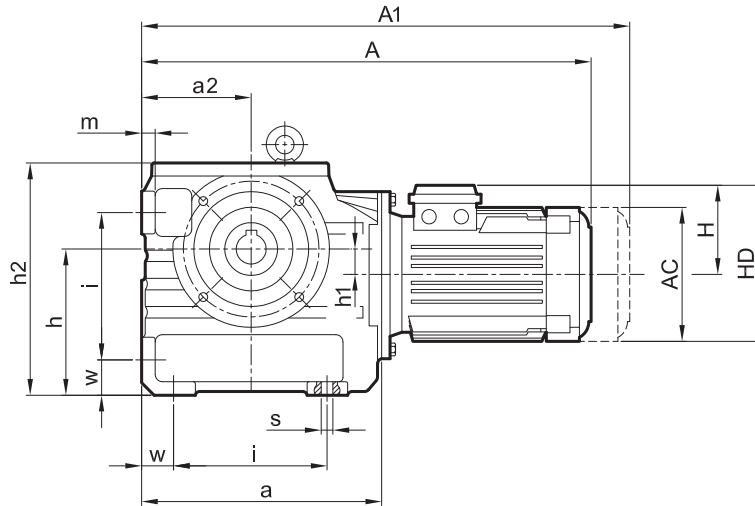


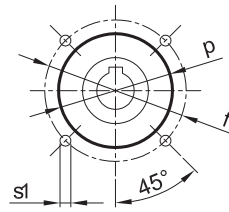
The worm gear units, IRSD series remains one the best solution for simple applications in need of high ratios. The design of the gearbox makes it very cost effective.

The combination of helical and worm gears offer various options of torque and speed in a reduced housing. With a reduced noise and increased efficiency compared to simple worm gear units, the IRSD Series offers a great solution for various applications.

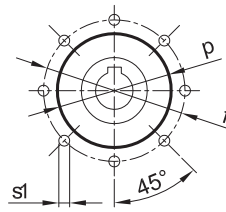
*Les réducteurs à vis sans fin de la série IRSD combinent un train d'engrenage hélicoïdale à une roue et vis sans fin. Cette combinaison permet d'obtenir un rendement élevé et un fonctionnement silencieux. A la fois compacts et résistants les réducteurs de la série IRSD permettent une économie d'espace et d'énergie pour vos applications et installations. Les réducteurs de la série IRSD sont disponibles dans plus d'une centaine de configurations différentes.*



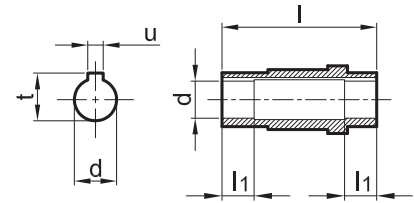
Şekil 1  
Figure 1



Şekil 2  
Figure 2



Şekil 3  
Figure 3



#### Output Shaft Applications / Spécificités de l'arbre de sortie

IRSDM Type Gearboxes have solid shaft output.  
*Les motoréducteurs du type IRSDM dispose d'arbre de sortie solides.*

#### Range of Ratios / Rapports de réduction

1/20...1/370

#### Applicable Motor Power / Puissance moteur applicable

0,09 kW ... 11 kW

#### Mounting Positions / Position de montage

You can choose from Foot and Flange mounting options according to your need.  
*Disponible monté sur pied ou pendulaire, en fonction de vos besoins.*

#### Input Options / Options d'entrée

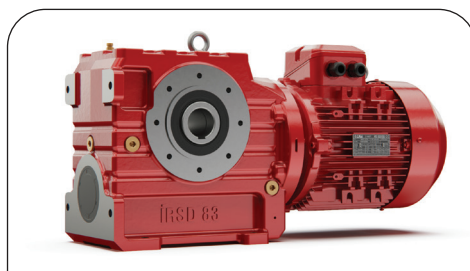
Without motor, with PAM flange [IRSDP]  
*Sans moteur, avec bride PAM*

With motor [IRSDM]  
*Avec moteur*

With motor, with PAM flange [IRSDPM]  
*Avec moteur, avec bride PAM*

#### Brake Types / Types de freins

24V DC or 220v AC electromagnetic brakes.  
*Freins électromagnétiques 24V DC ou 220V AC.*



| Type<br>Type | Torque (Max)<br>Couple (Max) | Shaft Diameter<br>Diamètre de l'arbre de sortie |
|--------------|------------------------------|-------------------------------------------------|
| IRSD 43      | 125 Nm                       | Ø 20                                            |
| IRSD 53      | 415 Nm                       | Ø 25                                            |
| IRSD 63      | 825 Nm                       | Ø 30                                            |
| IRSD 73      | 1465 Nm                      | Ø 40                                            |
| IRSD 83      | 2650 Nm                      | Ø 50                                            |
| IRSD 161     | 4820 Nm                      | Ø 70                                            |

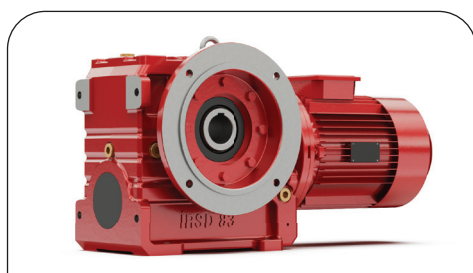
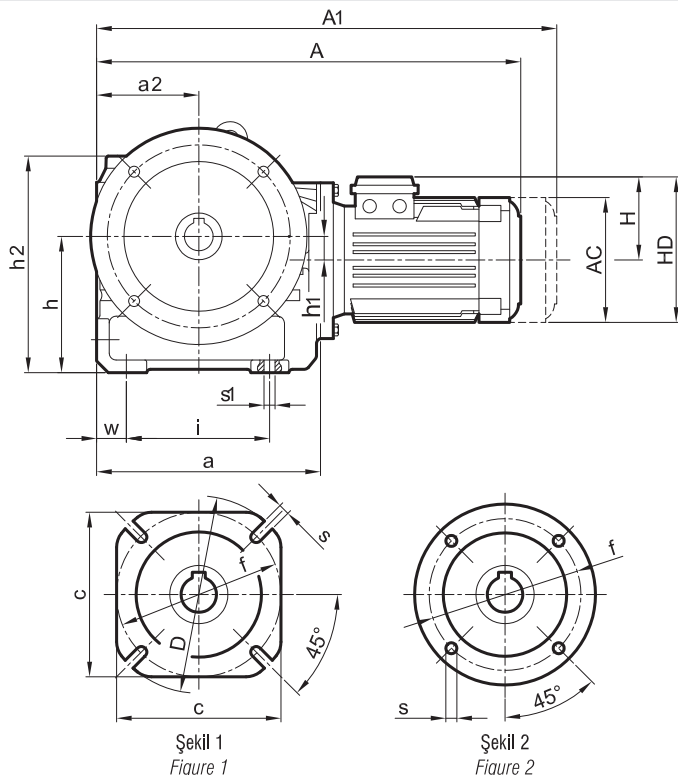


| Type      | Motor | A   | A1    | H   | HD  | AC  | Ød | l   | t    | u  | l1  | h   | h1   | h2  | h3  | Øs | m  | w    | i   | a   | Figure | Øp  | Øf  | Øs1 | i1  | a1  | a2  |
|-----------|-------|-----|-------|-----|-----|-----|----|-----|------|----|-----|-----|------|-----|-----|----|----|------|-----|-----|--------|-----|-----|-----|-----|-----|-----|
| IRSDM 43  | 63 M  | 409 | 462,5 | 108 | 171 | 125 | 20 | 110 | 22,8 | 6  | 35  | 95  | 12   | 163 | 189 | 10 | 10 | 25   | 100 | 176 | 1      | 74  | 86  | M6  | 85  | 104 | 75  |
|           | 71 M  | 405 | 458,5 | 123 | 194 | 139 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 80 M  | 476 | 537   | 136 | 216 | 158 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 S  | 467 | 534   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 L  | 531 | 598   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
| IRSDM 53  | 71 M  | 434 | 487,5 | 123 | 194 | 139 | 25 | 135 | 28,3 | 8  | 45  | 118 | 17,5 | 190 | 225 | 12 | 12 | 30,5 | 120 | 205 | 2      | 85  | 100 | M8  | 100 | 125 | 96  |
|           | 80 M  | 504 | 565   | 136 | 216 | 158 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 S  | 496 | 563   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 L  | 560 | 627   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 100 L | 600 | 677   | 161 | 261 | 195 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
| IRSDM 63  | 71 M  | 452 | 505,5 | 123 | 194 | 139 | 30 | 150 | 33,3 | 8  | 50  | 140 | 25   | 223 | 260 | 12 | 13 | 35   | 140 | 230 | 2      | 110 | 130 | M10 | 140 | 155 | 105 |
|           | 80 M  | 524 | 585   | 136 | 216 | 158 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 S  | 517 | 584   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 L  | 581 | 648   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 100 L | 620 | 697   | 161 | 261 | 195 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 112 M | 592 | 686,5 | 170 | 282 | 220 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
| IRSDM 73  | 71 M  | 488 | 541,5 | 123 | 194 | 139 | 40 | 184 | 43,3 | 12 | 61  | 173 | 33   | 275 | 311 | 14 | 16 | 48   | 160 | 275 | 2      | 130 | 165 | M10 | 150 | 178 | 125 |
|           | 80 M  | 561 | 622   | 136 | 216 | 158 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 S  | 554 | 621   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 L  | 618 | 685   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 100 L | 659 | 736   | 161 | 261 | 195 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 112 M | 634 | 728,5 | 170 | 282 | 220 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 S | 705 | 808,5 | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 M | 750 | 853,5 | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
| IRSDM 83  | 80 M  | 631 | 692   | 136 | 216 | 158 | 50 | 220 | 53,8 | 14 | 73  | 217 | 40   | 344 | 390 | 14 | 20 | 64   | 215 | 355 | 3      | 130 | 165 | M10 | 195 | 225 | 166 |
|           | 90 S  | 622 | 689   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 90 L  | 686 | 753   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 100 L | 726 | 803   | 161 | 261 | 195 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 112 M | 700 | 794,5 | 170 | 282 | 220 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 S | 770 | 874   | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 M | 815 | 919   | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 160 M | 923 | 1040  | 240 | 400 | 315 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
| IRSDM 161 | 90 S  | 794 | 861   | 141 | 231 | 176 | 70 | 305 | 74,9 | 20 | 100 | 269 | 70   | 439 | 496 | 20 | 28 | 75   | 250 | 443 | -      | -   | -   | -   | 230 | 285 | 191 |
|           | 90 L  | 832 | 899   | 141 | 231 | 176 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 100 L | 873 | 950   | 161 | 261 | 195 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 112 M | 845 | 939,5 | 170 | 282 | 220 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 S | 939 | 1043  | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |
|           | 132 M | 980 | 1084  | 193 | 325 | 262 |    |     |      |    |     |     |      |     |     |    |    |      |     |     |        |     |     |     |     |     |     |

The worm gear units, IRSD series remains one the best solution for simple applications in need of high ratios. The design of the gearbox makes it very cost effective.

The combination of helical and worm gears offer various options of torque and speed in a reduced housing. With a reduced noise and increased efficiency compared to simple worm gear units, the IRSD Series offers a great solution for various applications.

*Les réducteurs à vis sans fin de la série IRSD combinent un train d'engrenage hélicoïdale à une roue et vis sans fin. Cette combinaison permet d'obtenir un rendement élevé et un fonctionnement silencieux. A la fois compacts et résistants les réducteurs de la série IRSD permettent une économie d'espace et d'énergie pour vos applications et installations. Les réducteurs de la série IRSD sont disponibles dans plus d'une centaine de configurations différentes.*



| Type<br>Type | Torque (Max)<br>Couple (Max) | Shaft Diameter<br>Diamètre de l'arbre de sortie |
|--------------|------------------------------|-------------------------------------------------|
| IRSD 43      | 125 Nm                       | Ø 20                                            |
| IRSD 53      | 415 Nm                       | Ø 25                                            |
| IRSD 63      | 825 Nm                       | Ø 30                                            |
| IRSD 73      | 1465 Nm                      | Ø 40                                            |
| IRSD 83      | 2650 Nm                      | Ø 50                                            |
| IRSD 161     | 4820 Nm                      | Ø 70                                            |

#### Output Shaft Applications / Spécificités de l'arbre de sortie

IRSDFM Type Gearboxes have solid shaft output.  
*Les motoréducteurs du type IRSDFM dispose d'arbre de sortie solides.*

#### Range of Ratios / Rapports de réduction

1/20...1/370

#### Applicable Motor Power / Puissance moteur applicable

0,09 kW ... 11 kW

#### Mounting Positions / Position de montage

You can choose from Foot and Flange mounting options according to your need.  
*Disponible monté sur pied ou pendulaire, en fonction de vos besoins.*

#### Input Options / Options d'entrée

Without motor, with PAM flange [IRSDFP]  
*Sans moteur, avec bride PAM*

With motor [IRSDFM]  
*Avec moteur*

With motor, with PAM flange [IRSDFPM]  
*Avec moteur, avec bride PAM*

#### Brake Types / Types de freins

24V DC or 220v AC electromagnetic brakes.  
*Freins électromagnétiques 24V DC ou 220V AC.*



| Type       | Motor | A   | A1   | H   | HD  | AC  | Ød | l   | t    | u  | l1  | h   | h1 | h2  | h3  | Øs1 | w  | i   | i1  | a   | Øp  | Figure | c   | Øf  | ØD  | Øs | m  | n   | a1  | a2  | b  | b1    |
|------------|-------|-----|------|-----|-----|-----|----|-----|------|----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|--------|-----|-----|-----|----|----|-----|-----|-----|----|-------|
| IRSDFM 43  | 63 M  | 409 | 463  | 108 | 171 | 125 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 71 M  | 405 | 459  | 123 | 194 | 139 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 80 M  | 476 | 537  | 136 | 216 | 158 | 20 | 110 | 22,8 | 6  | 35  | 95  | 12 | 163 | 189 | 10  | 25 | 100 | 85  | 176 | 110 | 1      | 130 | 130 | 160 | 9  | 10 | 3,5 | 104 | 75  | 75 | 74,5  |
|            | 90 S  | 467 | 534  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 L  | 531 | 598  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
| IRSDFM 53  | 71 M  | 434 | 488  | 123 | 194 | 139 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 80 M  | 504 | 565  | 136 | 216 | 158 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 S  | 496 | 563  | 141 | 231 | 176 | 25 | 135 | 28,3 | 8  | 45  | 118 | 18 | 190 | 225 | 12  | 31 | 120 | 100 | 205 | 110 | 2      | -   | 130 | 160 | 9  | 10 | 3,5 | 125 | 96  | 34 | 101,5 |
|            | 90 L  | 560 | 627  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 100 L | 600 | 677  | 161 | 261 | 195 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
| IRSDFM 63  | 71 M  | 452 | 506  | 123 | 194 | 139 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 80 M  | 524 | 585  | 136 | 216 | 158 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 S  | 517 | 584  | 141 | 231 | 176 | 30 | 150 | 33,3 | 8  | 50  | 140 | 25 | 223 | 260 | 12  | 35 | 140 | 130 | 230 | 130 | 2      | -   | 165 | 200 | 12 | 12 | 3,5 | 155 | 105 | 42 | 117   |
|            | 90 L  | 581 | 648  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 100 L | 620 | 697  | 161 | 261 | 195 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 112 M | 592 | 687  | 170 | 282 | 220 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
| IRSDFM 73  | 71 M  | 488 | 542  | 123 | 194 | 139 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 80 M  | 561 | 622  | 136 | 216 | 158 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 S  | 554 | 621  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 L  | 618 | 685  | 141 | 231 | 176 | 40 | 184 | 43,3 | 12 | 61  | 173 | 33 | 275 | 311 | 14  | 48 | 160 | 150 | 275 | 180 | 2      | -   | 215 | 250 | 14 | 13 | 4   | 178 | 125 | 51 | 143   |
|            | 100 L | 659 | 736  | 161 | 261 | 195 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 112 M | 634 | 729  | 170 | 282 | 220 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 S | 705 | 809  | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 M | 750 | 854  | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
| IRSDFM 83  | 80 M  | 631 | 692  | 136 | 216 | 158 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 S  | 622 | 689  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 L  | 686 | 753  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 100 L | 726 | 803  | 161 | 261 | 195 | 50 | 220 | 53,8 | 14 | 73  | 217 | 40 | 344 | 390 | 14  | 64 | 215 | 195 | 355 | 230 | 2      | -   | 265 | 300 | 14 | 16 | 4   | 225 | 166 | 41 | 151   |
|            | 112 M | 700 | 795  | 170 | 282 | 220 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 S | 770 | 874  | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 M | 815 | 919  | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 160 M | 923 | 1040 | 240 | 400 | 315 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
| IRSDFM 161 | 90 S  | 794 | 861  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 90 L  | 832 | 899  | 141 | 231 | 176 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 100 L | 873 | 950  | 161 | 261 | 195 | 70 | 305 | 74,9 | 20 | 100 | 269 | 70 | 439 | 496 | 20  | 75 | 250 | 230 | 443 | 250 | 2      | -   | 300 | 350 | 19 | 22 | 5   | 285 | 191 | 65 | 218   |
|            | 112 M | 845 | 940  | 170 | 282 | 220 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 S | 939 | 1043 | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |
|            | 132 M | 980 | 1084 | 193 | 325 | 262 |    |     |      |    |     |     |    |     |     |     |    |     |     |     |     |        |     |     |     |    |    |     |     |     |    |       |