## General data

| KRP5 | | | | M | R |
|---|---|---|---|---|---|
| Weight | **m** | kg | 1 Stage | | |
| | | | 2 Stages | 334 | 430 |
| Efficiency | **η** | % | 1 Stage | | |
| | | | 2 Stages | 93 | 91 |
| Backlash | **J** | arcmin | Standard | 3 | 4 |
| | | | Reduced | 1 | 2 |
| Color | | | | RAL2012 | |

## Pinion features

| Tooth type | | | Helical | Straight |
|---|---|---|---|---|
| Module | **Mo** | mm | 8 | 8 |
| Helix angle (left) | **β** | deg | 19°31'42" | 0 |
| Number of teeth | **Z2** | - | 15 | 16 |
| Pressure angle | **α** | deg | 20° | 20° |
| Theoretical pitch diameter | **D02** | mm | 127,32 | 128 |
| Addendum modification factor | **x0** | - | 0,355 | 0,313 |
| Pinion quality grade | **Q** | (ISO 1328) | 6 | 6 |
| Surface hardness | **HRC** | HRC | 61-63 | 61-63 |

## Rack features

| Version | | | Helical | Straight |
|---|---|---|---|---|
| Standard | **F2B** | N | 114380 | 91220 |
| | **F2NOT** | N | 174205 | 148960 |
| | **Material** | | C45E | DIN 1.1191 |
| Reinforced | **F2B** | N | N/A | N/A |
| | **F2NOT** | N | N/A | N/A |
| | **Material** | | 16MnCr5 | |
| Available length | **L** | mm | 500, 1000, 2000 | |
| Dimensions | | | see details p113-115 | |

## Drive linear features

| Ratio | | | 5 | 7 | 10 | 17 | 21 | 31 | 46 | 61 | 91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nominal feed force | **F2N** | N | | | | | 73830 | 105247 | 86396 | 86396 | 86396 |
| Peak acceleration feed force | **F2B** | N | | | | | 118128 | 157870 | 138234 | 138234 | 138234 |
| Max. acceleration feed force | **F2B_max** | N | | | | | 236255 | 315740 | 276469 | 276469 | 276469 |
| E-stop force | **F2NOT** | N | | | | | 180647 | 180647 | 180647 | 180647 | 180647 |
| Max. linear speed | **V2B** | m/min | | | | | 76 | 52 | 35 | 26 | 18 |
| Nominal linear speed | **V2N** | m/min | | | | | 19 | 13 | 9 | 7 | 4 |
| Linear stiffness on the rack | **K2T +M** | N/µm | | | | | 623 | 623 | 545 | 598 | 500 |
| | **K2T +R** | N/µm | | | | | 623 | 622 | 545 | 595 | 483 |
| Inertia | **I +M** | kg.mm² | | | | | 2916 | 2204 | 1851 | 1228 | 1133 |
| | **I +R** | kg.mm² | | | | | 17640 | 16928 | 16575 | 15964 | 15870 |

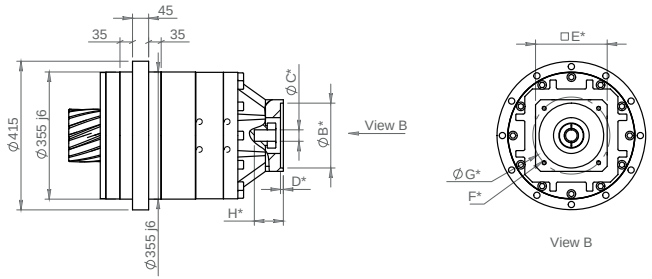
## KRP ratings

| Ratio | | | 5 | 7 | 10 | 17 | 21 | 31 | 46 | 61 | 91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nominal ouput torque | **T2N** | Nm | | | | | 4700 | 6700 | 5500 | 5500 | 5500 |
| Max. ouput torque | **T2B** | Nm | | | | | 7520 | 10050 | 8800 | 8800 | 8800 |
| No load torque | **T01 +R** | Nm | | | | | 5,2 | 5,2 | 5,2 | 5,2 | 5,2 |
| No load torque | **T01 +M** | Nm | | | | | 4 | 4 | 4 | 4 | 4 |
| E-stop torque | **T2NOT** | Nm | | | | | 11500 | 11500 | 11500 | 11500 | 11500 |
| Max. input speed | **n1B** | rpm | | | | | 4000 | 4000 | 4000 | 4000 | 4000 |
| Nominal input speed | **n1N** | rpm | | | | | 1000 | 1000 | 1000 | 1000 | 1000 |
| Radial stiffness | **K2R** | N/µm | | | | | 1550 | 1550 | 1550 | 1550 | 1550 |
| Axial stiffness | **K2A** | N/µm | | | | | 5484 | 5484 | 5484 | 5484 | 5484 |
| Torsional stiffness | **C2t +R** | Nm/ rad | | | | | 4812845 | 4802532 | 3781521 | 4427818 | 3107723 |
| | | Nm/arcmin | | | | | 1400 | 1397 | 1100 | 1288 | 904 |
| | **C2t +M** | Nm/ rad | | | | | 4812845 | 4812845 | 3781521 | 4469071 | 3279610 |
| | | Nm/arcmin | | | | | 1400 | 1400 | 1100 | 1300 | 954 |

Dimensions and main data for information only - Please consult us and / or refer to Products Datasheets
For accurate selection, contact your local supplier

REDEX
The Machine Drives Company

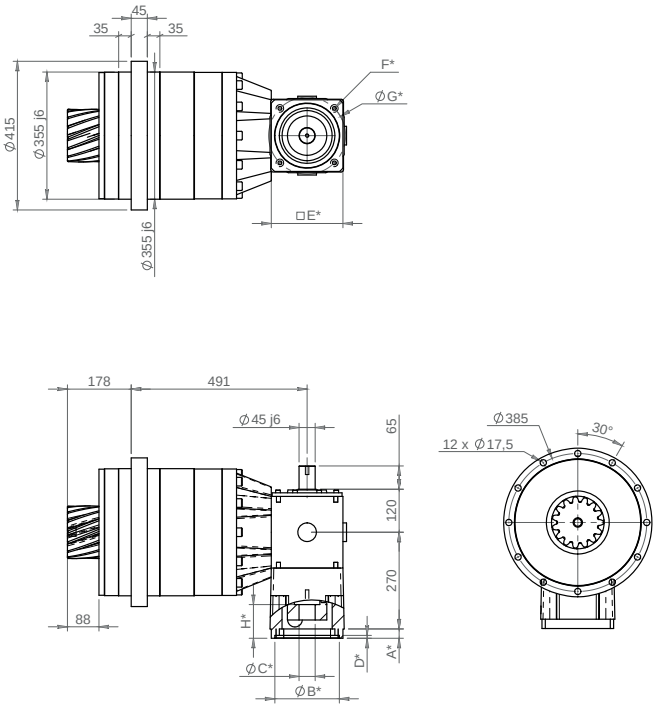
## DIMENSIONS - TYPE **M**




| | IFC 140 22/32 | IFC 200 22/48 | IFC 260 35/48 |
|---|---|---|---|
| **A** | 42 | 50 | 51 |
| **E** | 140 | 200 | 260 |
| **H** | 73 | 81 | 82 |

*B C D F G According to motor dimensions
Tapping depth =1.5x0 thread

## DIMENSIONS - TYPE **R**




| | MF5 200 | MF5 260 |
|---|---|---|
| **A** | 26 | 26 |
| **E** | 200 | 260 |
| **H** | 110 | 110 |

*B C D F G According to motor dimensions
Tapping depth =1.5x0 thread

Dimensions and main data for information only - Please consult us and / or refer to Products Datasheets
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