

## PROPERTIES

FEATURES

- high clamping pressure
- self centering on shaft
- very high concentricity

MATERIAL

- Hubs: up to size 450 high strength aluminum; size 800 steel
- Elastomer: wear resistant thermally stable TPU


## DESIGN

Two concentrically machined hubs with curved jaws and conical clamping rings.
$\qquad$



## MODEL MEL6

| SIZE |  | 10 |  |  | 20 |  |  | 60 |  |  | 150 |  |  | 300 |  |  | 450 |  |  | 800 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type (Elastomer insert) |  | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| Rated torque (Nm) | $\mathrm{T}_{\text {KN }}$ | 12.5 | 16 | 4 | 17 | 21 | 6 | 60 | 75 | 20 | 160 | 200 | 42 | 325 | 405 | 84 | 530 | 660 | 95 | 950 | 1100 | 240 |
| Max. torque ( Nm ) | $T_{\text {Kmax }}$ | 25 | 32 | 6 | 34 | 42 | 12 | 120 | 150 | 35 | 320 | 400 | 85 | 650 | 810 | 170 | 1060 | 1350 | 190 | 1900 | 2150 | 400 |
| Overall length (mm) | A | 42 |  |  | 56 |  |  | 64 |  |  | 76 |  |  | 96 |  |  | 110 |  |  | 138 |  |  |
| Outside diameter (mm) | $B / B_{1}$ | 32 |  |  | 43 |  |  | 56 |  |  | 66.5 |  |  | 82 |  |  | 102 |  |  | 136.5 |  |  |
| Mounting length (mm) | C | 15 |  |  | 20 |  |  | 23 |  |  | 28 |  |  | 36 |  |  | 42 |  |  | 53 |  |  |
| Inside diameter range H7 (mm) | $D_{1 / 2}$ | 6-16 |  |  | 8-24 |  |  | 12-32 |  |  | 19-35 |  |  | 20-45 |  |  | 28-55 |  |  | 32-80 |  |  |
| Inside diameter of elastomer (mm) | $\mathrm{D}_{\mathrm{E}}$ | 14.2 |  |  | 19.2 |  |  | 26.2 |  |  | 29.2 |  |  | 36.2 |  |  | 46.2 |  |  | 60.5 |  |  |
| Clamping screw (ISO 4762) | E | 3x M3 |  |  | 6x M4 |  |  | 4x M5 |  |  | 8x M5 |  |  | 8x M6 |  |  | 8x M8 |  |  | 8x M10 |  |  |
| Tightening torque of the clamping screw |  | 2 |  |  | 3 |  |  | 6 |  |  | 7 |  |  | 12 |  |  | 35 |  |  | 55 |  |  |
| Distance (mm) | F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Moment of inertia per hub ( $10^{-3} \mathrm{kgm}^{2}$ ) | $\mathrm{J}_{1} / \mathrm{J}_{2}$ | 0.004 |  |  | 0.015 |  |  | 0.05 |  |  | 0.1 |  |  | 0.3 |  |  | 0.85 |  |  | 9.2 |  |  |
| Approx. weight (kg) |  | 0.08 |  |  | 0.12 |  |  | 0.3 |  |  | 0.5 |  |  | 0.9 |  |  | 1.5 |  |  | 9.6 |  |  |
| Speed standard $\left(\mathrm{min}^{-1}\right)$ |  | 20,000 |  |  | 19,000 |  |  | 14,000 |  |  | 13,000 |  |  | 10,000 |  |  | 9,000 |  |  | 4,000 |  |  |
| Speed balanced $\quad\left(10^{3} \mathrm{~min}^{-1}\right)$ |  | 53 | 63 | 40 | 45 | 60 | 35 | 31 | 31 | 25 | 22 | 26 | 18 | 22 | 26 | 16 | 16 | 17 | 12 | 13 | 13 | 8 |

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages $72+73$.

| ORDERING EXAMPLE | MEL6 | 60 | A | 19 | 22.23 | XX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model | - |  |  |  |  | Special designation only (e.g. special bore tolerance). |
| Size |  | $\bigcirc$ |  |  |  |  |
| Elastomer insert type |  |  | - |  |  |  |
| Bore D1 H7 |  |  |  | $\bigcirc$ |  |  |
| Bore D2 H7 |  |  |  |  | $\bigcirc$ |  |
| For custom features place an XX at the end of the part number and describe the special requirements (e.g. EK6 / $60 / \mathrm{A} / 19 / 22.23 / \mathrm{XX}$; XX=finely balanced ISO G2.5 / 30,000 rpm) |  |  |  |  |  |  |

# MEL6 <br> WITH CONICAL CLAMPING RING 

1,950-25,000 Nm



## PROPERTIES

FEATURES
high clamping pressure

- self centering on shaft
- very high concentricity

MATERIAL
Hubs: GGG40
Elastomer: wear resistant thermally stable TPU

## DESIGN

Two concentrically machined hubs with curved jaws and conical clamping rings.
Elastomer insert consist of 5 segments.


## MODEL MEL6

| SIZE |  | 2500 | 4500 |  | 9500 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type (Elastomer insert) |  | A | A | B | A | B |
| Rated torque (Nm) | $\mathrm{T}_{\mathrm{KN}}$ | 1950 | 5000 | 6200 | 10000 | 12500 |
| Max. torque (Nm) | $T_{\text {Kmax }}$ | 3900 | 10000 | 12400 | 20000 | 25000 |
| Overall length (mm) | A | 177 | 227 |  | 282 |  |
| Outside diameter (mm) | $B / B_{1}$ | 160/159 | 225 / 208 |  | 290/285 |  |
| Mounting length (mm) | C | 70 | 90 |  | 112 |  |
| Inside diameter range H7 (mm) | $\mathrm{D}_{1 / 2}$ | 40-95 | 50-130 |  | 60-170 |  |
| Inside diameter of elastomer (mm) | $\mathrm{D}_{\mathrm{E}}$ | 80 | 111 |  | 145 |  |
| Clamping screw (ISO 4762) | E | 10x M10 | 10x M12 |  | 10x M16 |  |
| Tightening torque of the clamping screw |  | 60 | 100 |  | 160 |  |
| Distance (mm) | F | 51 | 66 |  | 80 |  |
| Moment of inertia per hub ( $10^{-3} \mathrm{kgm}^{2}$ ) | $\mathrm{J}_{1} / J_{2}$ | 31.7 | 135.7 |  | 469.2 |  |
| Approx. weight (kg) |  | 15 | 35 |  | 73 |  |
| Speed standard ( $\left.\mathrm{min}^{-1}\right)$ |  | 3,500 | 3,000 |  | 2,000 |  |
| Speed balanced $\quad\left(10^{3} \mathrm{~min}^{-1}\right)$ |  | 10 | 8 | 8 | 6.5 | 6.5 |

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages $72+73$.

| ORDERING EXAMPLE | MEL 6 | 2500 | A | 50.8 | 80 | XX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model | - |  |  |  |  | Special designation only (e.g. special bore tolerance). |
| Size |  | - |  |  |  |  |
| Elastomer insert type |  |  | - |  |  |  |
| Bore D1 H7 |  |  |  | $\bigcirc$ |  |  |
| Bore D2 H7 |  |  |  |  | - |  |

