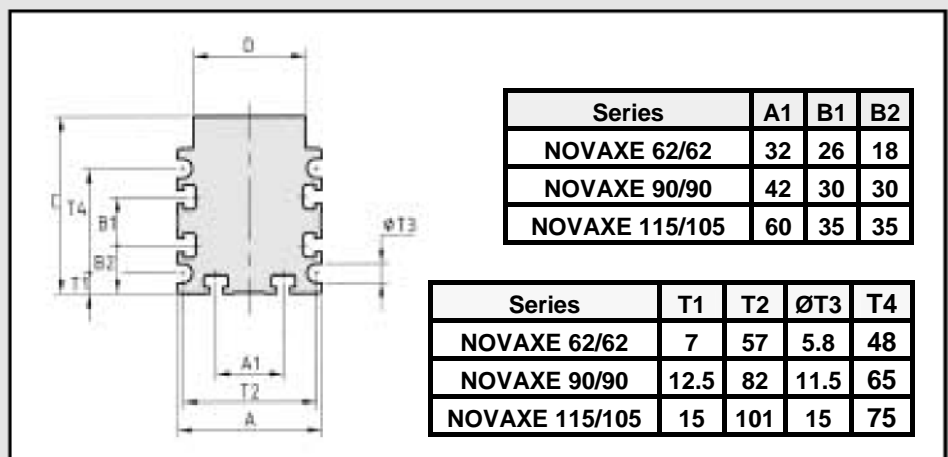
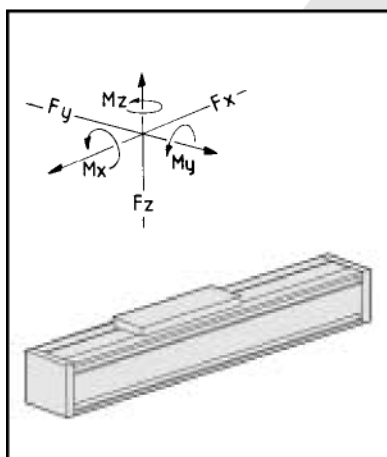
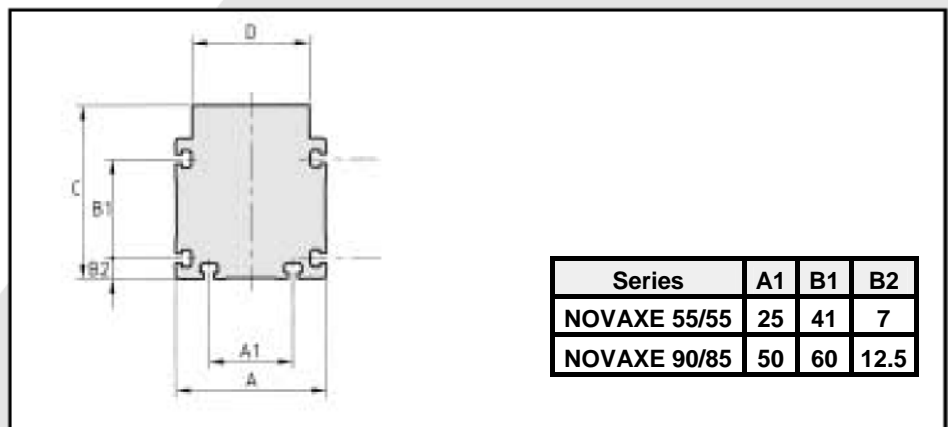
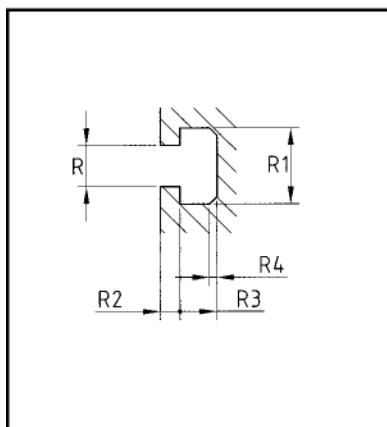
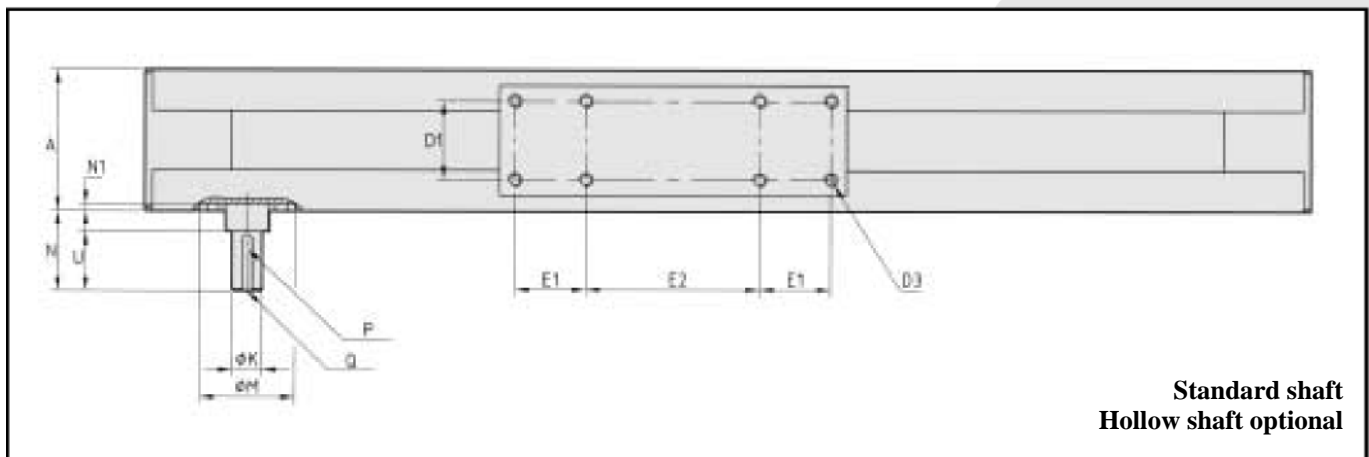
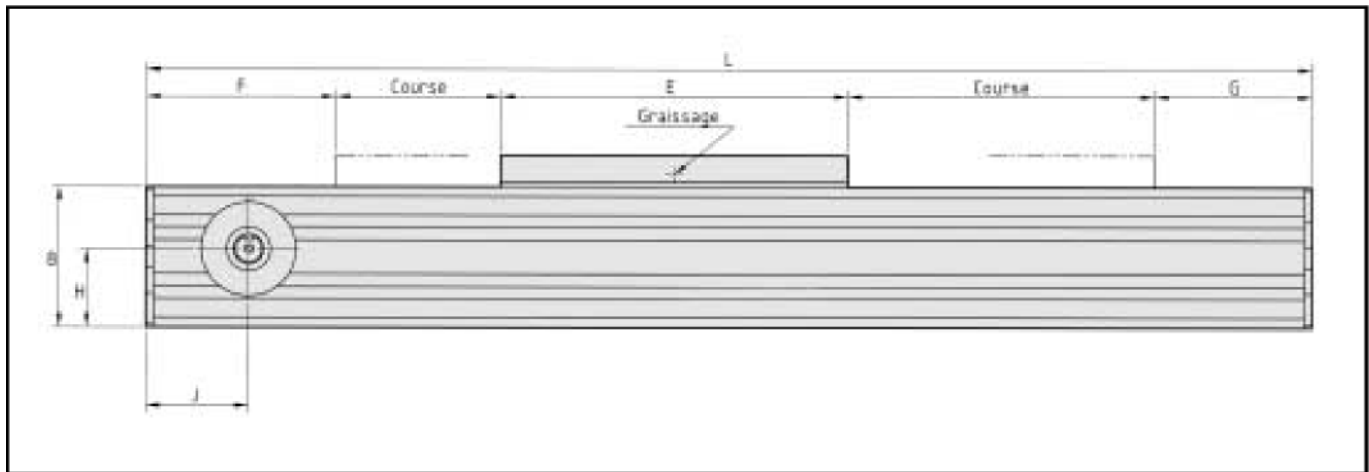




NOVAXE SERIES

International name: KNOV

- **Toothed belt drive**
- **Profile rail guide with 2 guiding carriages**
 - Precise driving without clearance
 - Profile made of anodised extruded aluminium
 - Toothed belt reverse units running in ball bearings, lubricated for the whole service life
 - Toothed belt wiper
 - T-slots



DIMENSIONS (mm)

| Series | A | B | C | D | D1 | D3 | E | E1 | E2 | F | G | H |
|----------------|-----|-----|-----|----|----|------|-----|----|-----|-----|-----|----|
| NOVAXE 55/55 | 55 | 55 | 67 | 42 | 30 | 8M6 | 150 | 30 | 70 | 85 | 75 | 30 |
| NOVAXE 62/62 | 62 | 62 | 76 | 48 | 34 | 8M6 | 150 | 30 | 70 | 95 | 80 | 35 |
| NOVAXE 90/85 | 90 | 85 | 105 | 70 | 50 | 8M8 | 220 | 45 | 110 | 120 | 95 | 45 |
| NOVAXE 90/90 | 90 | 90 | 110 | 70 | 50 | 8M8 | 220 | 45 | 110 | 120 | 100 | 50 |
| NOVAXE 115/105 | 115 | 105 | 125 | 80 | 60 | 8M10 | 250 | 50 | 130 | 135 | 115 | 57 |

| Series | J | ØK | ØM | N | N1 | P | Q | R | R1 | R2 | R3 | R4 | U |
|----------------|----|----|----|----|-----|-------|-------|---|------|-----|-----|-------|----|
| NOVAXE 55/55 | 45 | 12 | 42 | 37 | 2,5 | 4 x 4 | M4/16 | 5 | 8.5 | 2.5 | 5 | 1 x 1 | 28 |
| NOVAXE 62/62 | 50 | 15 | 47 | 38 | 2,5 | 5 x 5 | M4/16 | 6 | 10.5 | 3.5 | 5.5 | 1 x 1 | 28 |
| NOVAXE 90/85 | 65 | 19 | 62 | 49 | 2,5 | 6 x 6 | M5/20 | 6 | 10.5 | 4 | 6 | 2 x 2 | 38 |
| NOVAXE 90/90 | 65 | 19 | 68 | 50 | 2,5 | 6 x 6 | M5/20 | 8 | 15.5 | 4 | 7.5 | 2 x 2 | 38 |
| NOVAXE 115/105 | 75 | 25 | 80 | 62 | 4 | 8 x 7 | M6/25 | 8 | 15.5 | 4 | 7.5 | 2 x 2 | 48 |

TECHNICAL DATA

| Series | Long | | | Travel per revolution | Belt | Total weight | Weight of carriage |
|----------------|------|----|-----|-----------------------|----------|------------------|--------------------|
| | E | E1 | E2 | mm | | Kg | Kg |
| NOVAXE 55/55 | 220 | 40 | 110 | 120 | 20 AT 5 | c x 0.006 + 1.8 | 0.54 |
| NOVAXE 62/62 | 220 | 40 | 110 | 140 | 25 AT 5 | c x 0.007 + 2.9 | 0.7 |
| NOVAXE 90/85 | 350 | 50 | 200 | 190 | 50 AT 5 | c x 0.012 + 8.5 | 2.3 |
| NOVAXE 90/90 | 350 | 50 | 200 | 200 | 50 AT 5 | c x 0.013 + 9.8 | 2.5 |
| NOVAXE 115/105 | 400 | 65 | 220 | 240 | 50 AT 10 | c x 0.017 + 13.3 | 3.4 |

*Ref. XXL for long table part

c = Stroke (mm)

| Series | Pulley mass moment of inertia | Moment of inertia | | Permissible load |
|----------------|-------------------------------|--------------------------|--------------------------|------------------|
| | Kg.m ² | Iyy (mm ⁴) | Izz (mm ⁴) | Fx dyn. (N) |
| NOVAXE 55/55 | 4.40 x 10 ⁻⁵ | 36.3 x 10 ⁴ | 46.5 x 10 ⁴ | 466 |
| NOVAXE 62/62 | 9.72 x 10 ⁻⁵ | 62.6 x 10 ⁴ | 76.15 x 10 ⁴ | 597 |
| NOVAXE 90/85 | 5.96 x 10 ⁻⁴ | 204 x 10 ⁴ | 315.44 x 10 ⁴ | 1,140 |
| NOVAXE 90/90 | 7.32 x 10 ⁻⁴ | 247 x 10 ⁴ | 300 x 10 ⁴ | 1,140 |
| NOVAXE 115/105 | 1.52 x 10 ⁻³ | 484.19 x 10 ⁴ | 720.6 x 10 ⁴ | 2,470 |

| Series | Guide | | Load capacity | | Static moment (Nm) | |
|----------------|-------|----------|---------------|--------------|--------------------|---------|
| | Size | Quantity | Dyn. C (N) | Stat. Co (N) | Mox | Moy/Moz |
| NOVAXE 55/55 | 15 | 2 | 6,050 | 7,450 | 86 | 113 |
| NOVAXE 62/62 | 15 | 2 | 6,050 | 7,450 | 86 | 113 |
| NOVAXE 90/85 | 20 | 2 | 13,400 | 24,800 | 182 | 375 |
| NOVAXE 90/90 | 20 | 2 | 13,400 | 24,800 | 182 | 375 |
| NOVAXE 115/105 | 25 | 2 | 20,800 | 36,000 | 350 | 766 |

SPEED:

- Up to 3.5m/s (continuous operation)
- Up to 5m/s (short term)

ACCELERATION:

Maximum 50 m/s²

REPEATABILITY:

± 0.1mm

LUBRICATION:

The guides are to ber e-lubricated at least twice a year by using the NLGI 2 roller bearing grease fitted with lithium based soap.

TEMPERATURE:

From -10°C to +80°C

For other temperatures, please contact us.

SEE "OPTIONS ANDACCESSORIES" FOR:

- Second, following carriage
- Long carriage
- Double motor shaft
- Compact flange
- Hollow shaft coupling

MOTOR SHAFT POSITION:

See page 14-2.

| REFERENCES | | | | | |
|--|--------------|-----------|-----|-----|-----|
| | NOVAXE 90/85 | 2000/2435 | SAD | A10 | A15 |
| Series | | | | | |
| Stroke / total length (mm) | | | | | |
| Motor shaft position (ex. standard shaft: top right) | | | | | |
| Options and accessories (ex. A10: flange; A15: coupling) | | | | | |