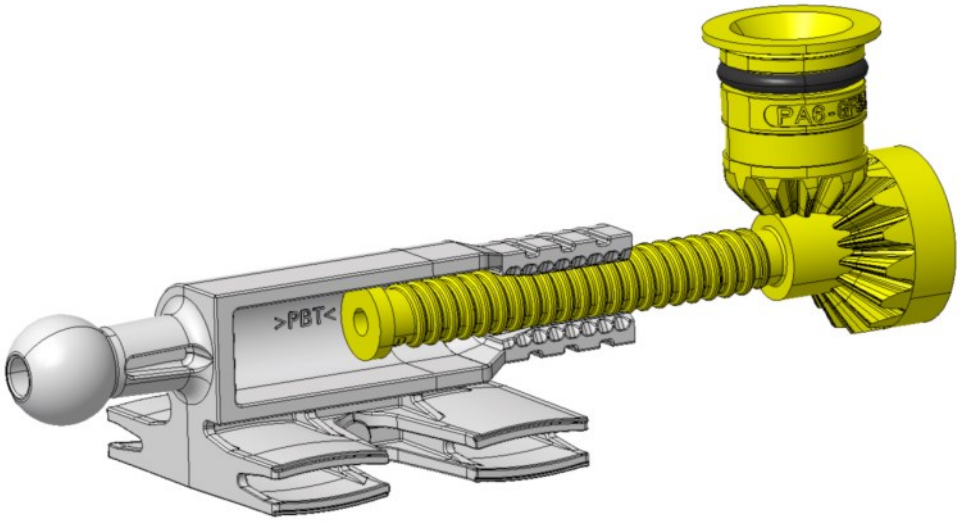
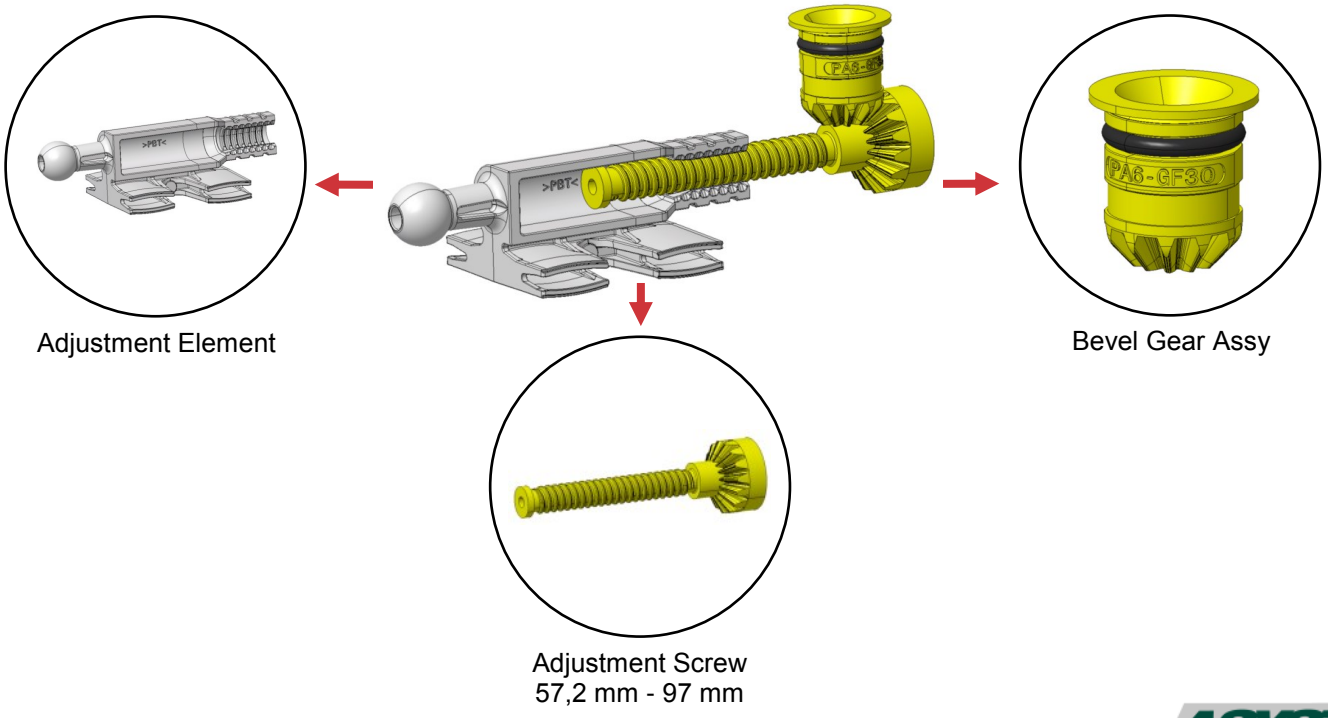
COMPONENT Adjustment System

Aiming of headlamp light modules



Benefits:

- EJOT developed robust thread and gearing geometry
- Operation temperature: - 40°C to + 80°C
- Overload protection (Clutching)
- Assembly in cleanroom possible
- Automated 100 % testing of torque
- Preset: according customer specification
- EJOT supplied mating geometry
- Adjustment torque: < 0,4 Nm
- Over detent torque: < 0,7 Nm
- Axial push through force: > 250 N
- Multiple over detents (clutching function) without damage to the threads of the threaded partners
- For higher temperature use of metal screw possible



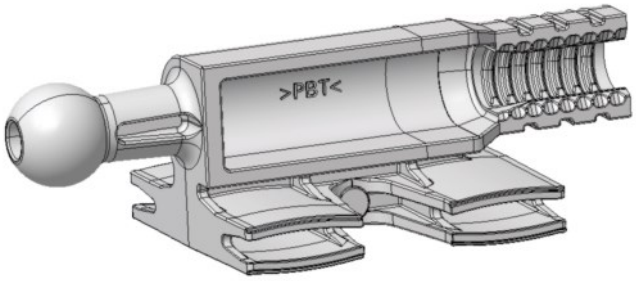
Adjustment Element

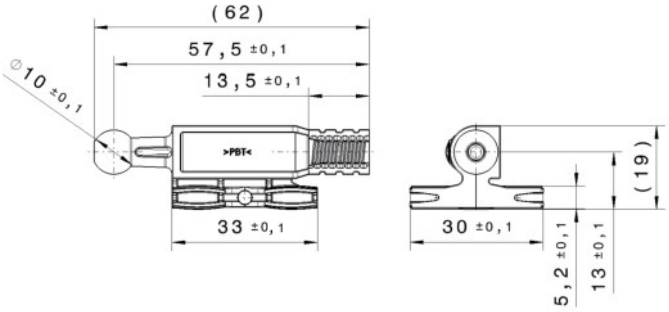
Bevel Gear Assy

Adjustment Screw
57,2 mm - 97 mm

Adjustment Element

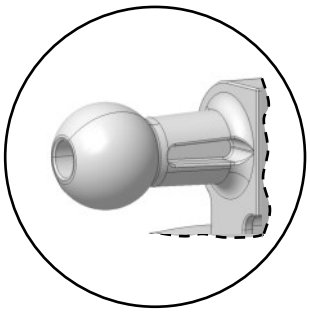
Part. No: 860 2844 700



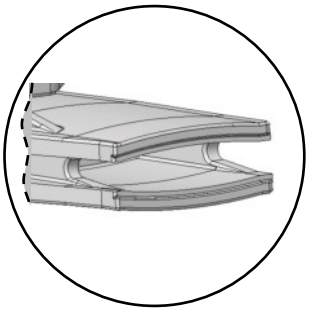


Benefits:

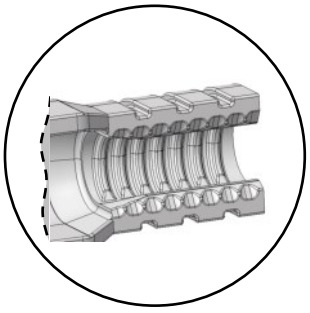
- EJOT developed robust thread geometry
- Material: PBT unfilled / filled (10% - 30 % GF)
- Thread pitch of clutch: 1,7 mm
- Operation temperature: - 40°C to + 80°C
- Overload protection
- Adjustment torque: < 0,4 Nm (with EJOT Screw at room temperature)
- Clutching torque: < 0,7 Nm (with EJOT Screw at room temperature)
- Axial push through force: > 250 N (with EJOT Screw at room temperature)



Ø10mm Ball



Wing Geometry



Clutch & Thread

Adjustment Screw

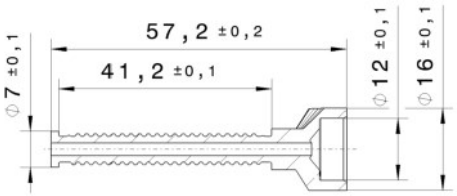
57,2 mm - 860 2430 700
Yellow

67,0 mm - 860 2861 700
Green

77,0 mm - 860 2862 700
Grey

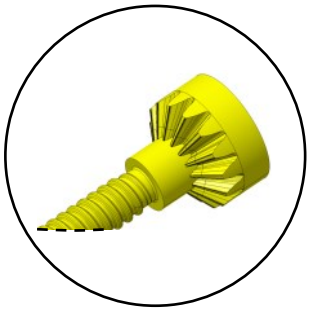
87,0 mm - 860 2863 700
Natural

97,0 mm - 860 2864 700
Black

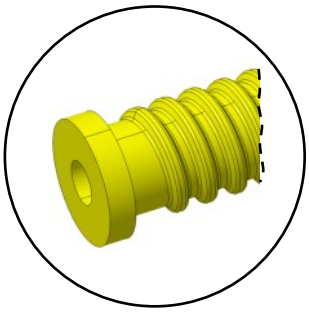


Benefits:

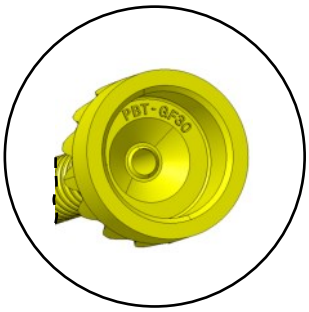
- EJOT developed robust thread geometry
- Material: PBT GF 30 (or GF 50 / POM)
- Robust gearing
- Thread pitch: 1,7 mm
- Spindle size range: 40 mm - 100 mm
- Operation temperature: - 40°C to + 80°C
- End stop
- Integrated bearing
- Available also in steel with pressed on drive gear → Spindle size range: 40 mm - 110 mm
- For higher temperature use of metal screw possible



Gearing & Threads



End stop

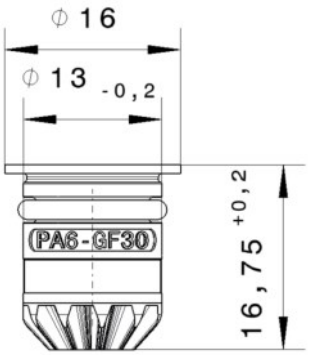


Bearing

Metall Screw with pressed on drive gear (available upon request)

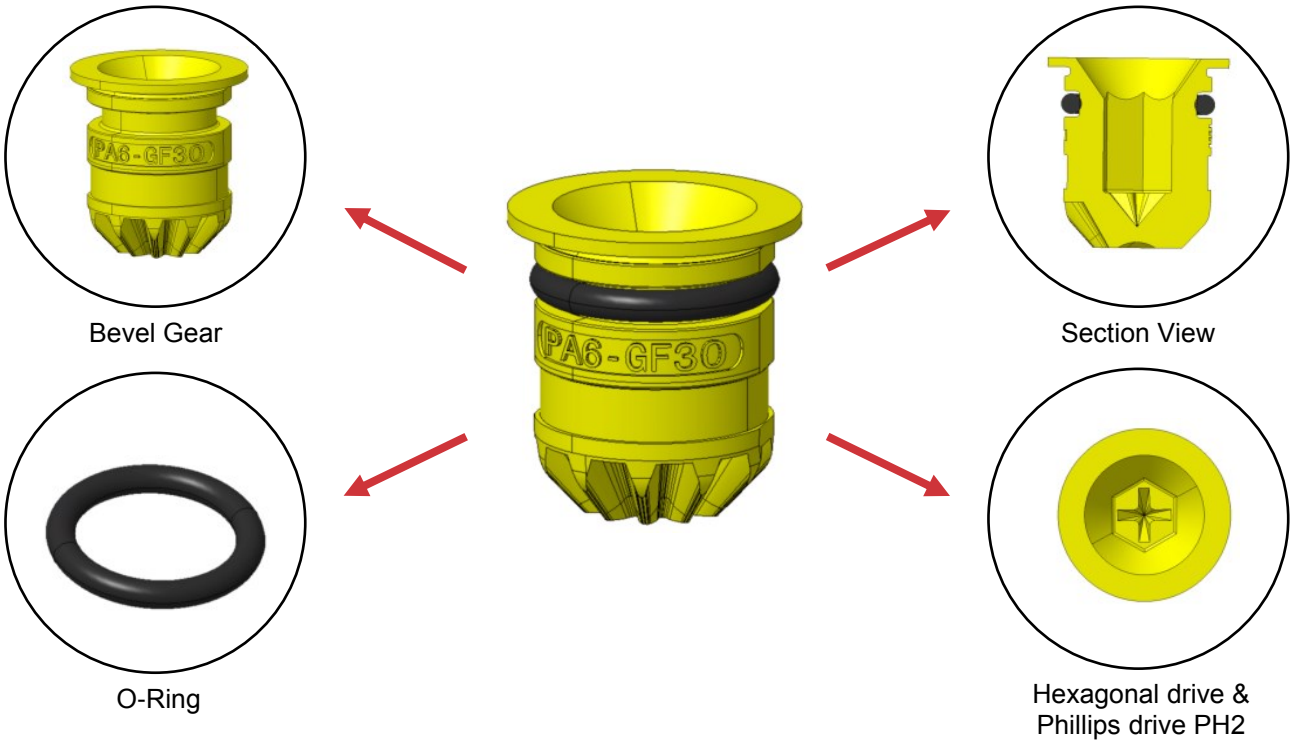
Bevel Gear Assy

Part. No: 860 2435 701



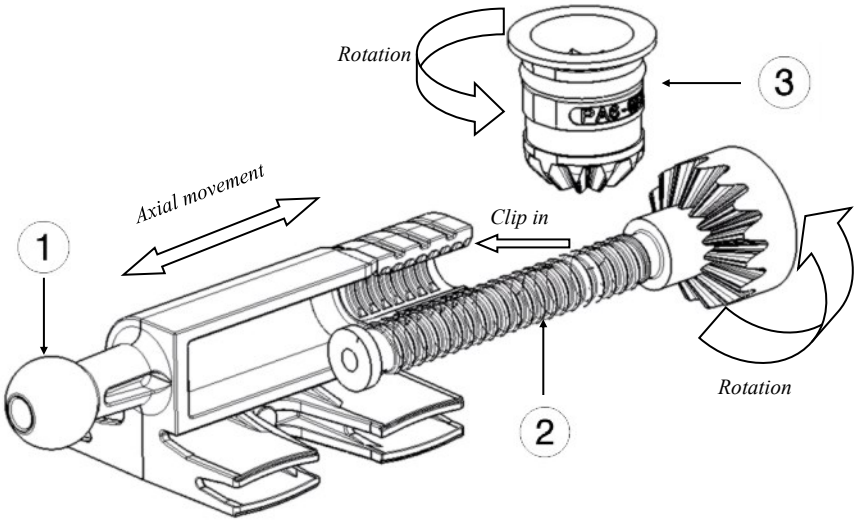
Benefits:

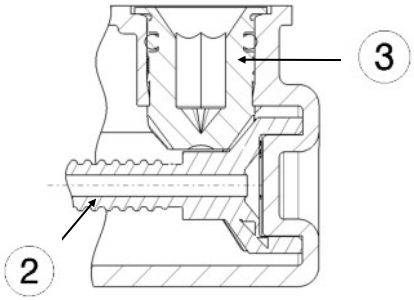
- Robust Gearing
- Operation temperature: - 40°C to + 80°C
- Sealing function
- Easy to install into the housing
- Insertion funnel for adjusting tool
- Long bearing shaft → No tilt (cam out)
- Drive options:
  → Internal hexagon drive, wrench size 6 or 7 mm
  → Phillips drive PH 2
  → Size and type of the drive are customizable according to customer requirements
- Large O-Ring cross section → sealing function
- Automated O-Ring assembly → 100 % check



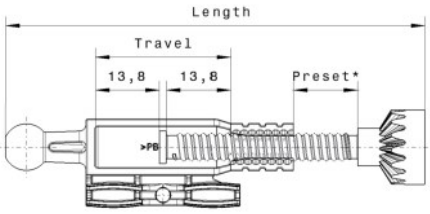
Sketches / Drawings:

① → Adjustment Element
② → Adjustment Screw
③ → Bevel Gear Assy





Mounting position in Headlamp (according to mating geomtery specification)



Assembly Description:

- Fully automated assembly at room temperature into the adjustment element (Pos.2 into Pos.1)
- Automated adjustment of the preset dimension and automated 100% testing of push through force
- Module adjustment by transferring torque from Pos.3 to Pos.2 in axial direction

Overview of available assembly groups :

① Part No. ② Assembly	① Part No. Adjustment Element	② Part No. Screw	Lenghth of Screw	Travel	Preset *	Length over all
860 2870 701	860 2844 700	860 2430 700	57,2 mm	29,1 mm	14,6 mm	90,4 mm
860 2871 701		860 2861 700	67,0 mm		23,7 mm	100,2 mm
860 2872 701		860 2862 700	77,0 mm		33,7 mm	110,2 mm
860 2873 701		860 2863 700	87,0 mm		43.7 mm	120,2 mm
860 2874 701		860 2864 700	97,0 mm		53,7 mm	130,2 mm

Part No. Bevel Gear Assy ③
860 2435 701

* Preset can be modified to customer specific requirements !

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