Mould making

Guiding elements and locks

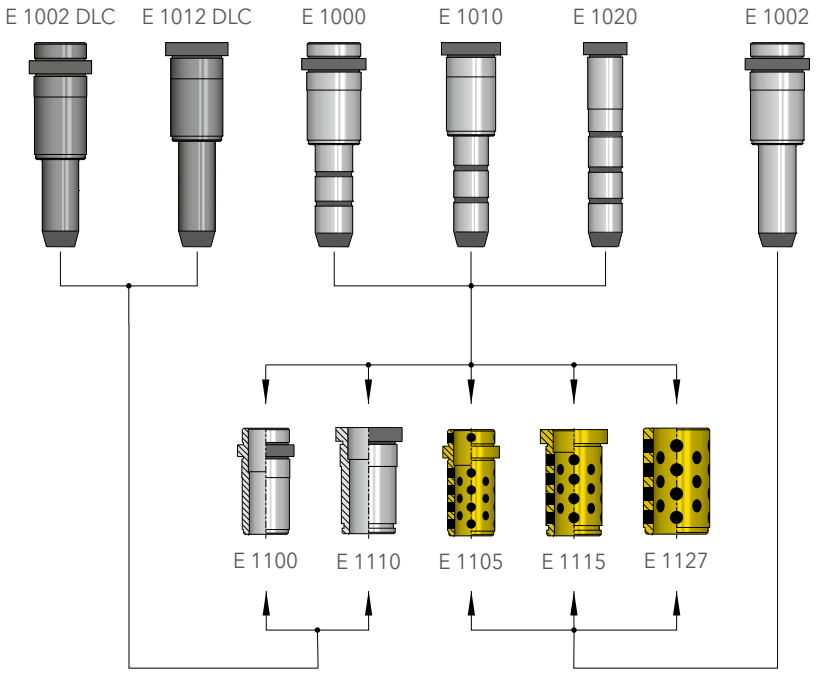
AVAILABLE IMMEDIATELY

Your ideal foundation for precise injection moulds

- Durable thanks to the highest quality standards
- Reliable availability
- Perfectly coordinated range

www.meusburger.com

Standard guiding system



QUALITY MADE IN AUSTRIA

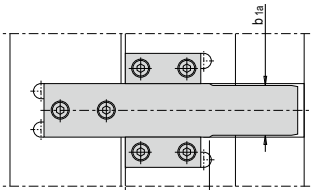
Advantages

› Guiding system with two fitting diameters for an optimal fit in the guiding hole
› The second fitting diameter (k5) enables easy assembly and removal
› High-quality guiding elements matched to our extensive range of cavity plates

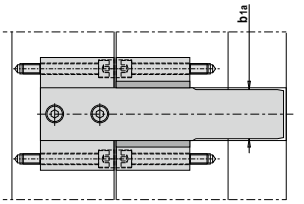
Flat guiding units

Type		Characteristics
E 1080		› High wear resistance up to 300 °C › Precise positioning without play › Vertical machining of the installation spaces
E 1320		› Space-saving version › Lateral machining of the installation spaces › Horizontal installation
E 1315		› Precise and robust › Vertical machining of the installation spaces › Interchangeable gliding plates

If necessary, increase guide clearance b1a.



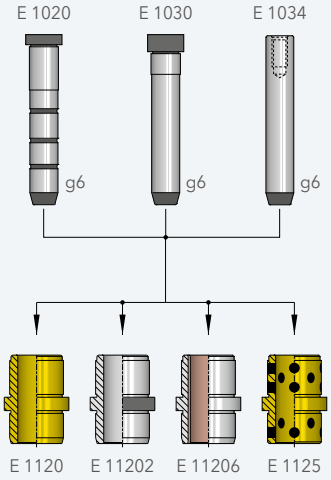
Installation example E 1320



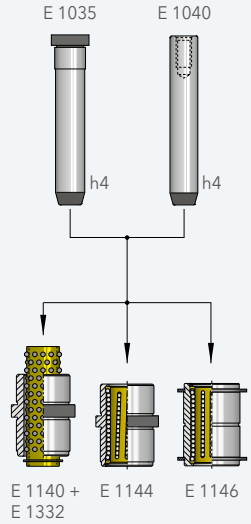
Installation example E 1315

Ejector set guiding

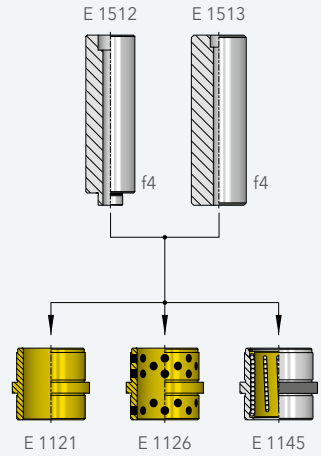
Sliding guide



Bearing guide



Guiding via support pillars



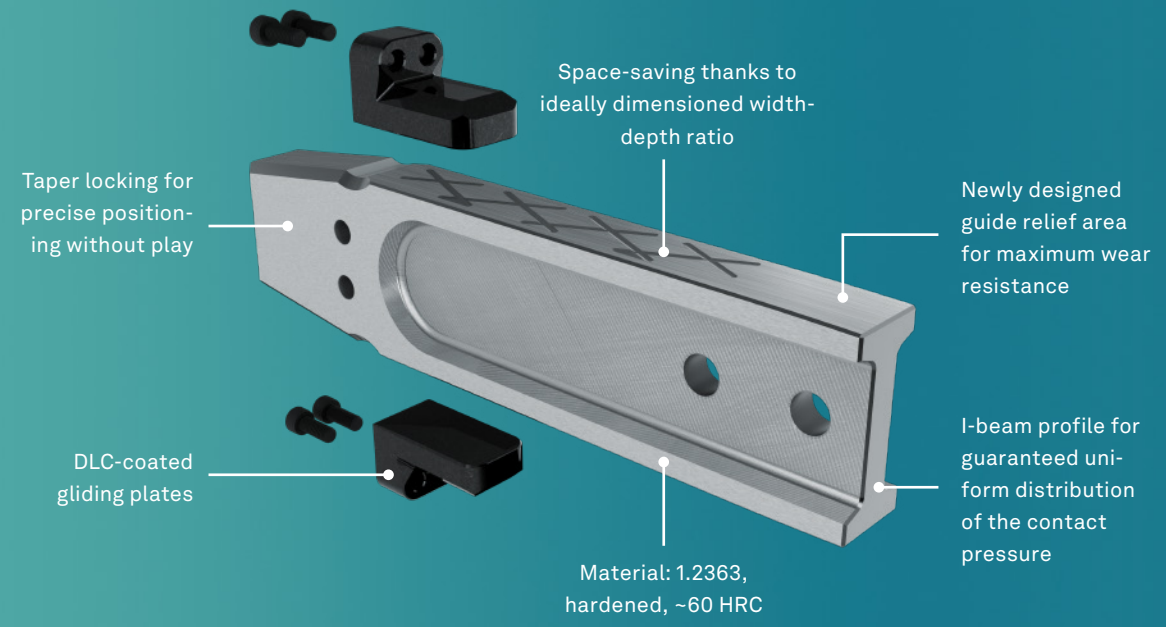
Type		V [1]	FQ [2]	Characteristics	Lubrication
E 1144 E 1140 + E 1332		high	low	› Without play › Maximum precision › Minimal wear	High-performance oil VLS 250
E 11206		moderate	medium	› Self-lubricating through sintered layer › Good emergency operating features	Relubrication with high-performance oil VLS 250
E 1120		moderate	medium	› Common guide bush in the ejector set	High-performance grease VGS 180
E 1125		moderate	medium	› Self-lubricating › Optimum lubrication through graphite inserts › Initial lubrication for wear reduction	Initially with high-performance grease VGM 160
E 11202		moderate	high	› Cleanroom compatible with DLC-coated guide pillars › Cost-effective	High-performance grease VGS 180

1) V: Speed of the ejector set during demoulding
2) FQ: Permissible shear force

High-performance flat guiding unit E 1080

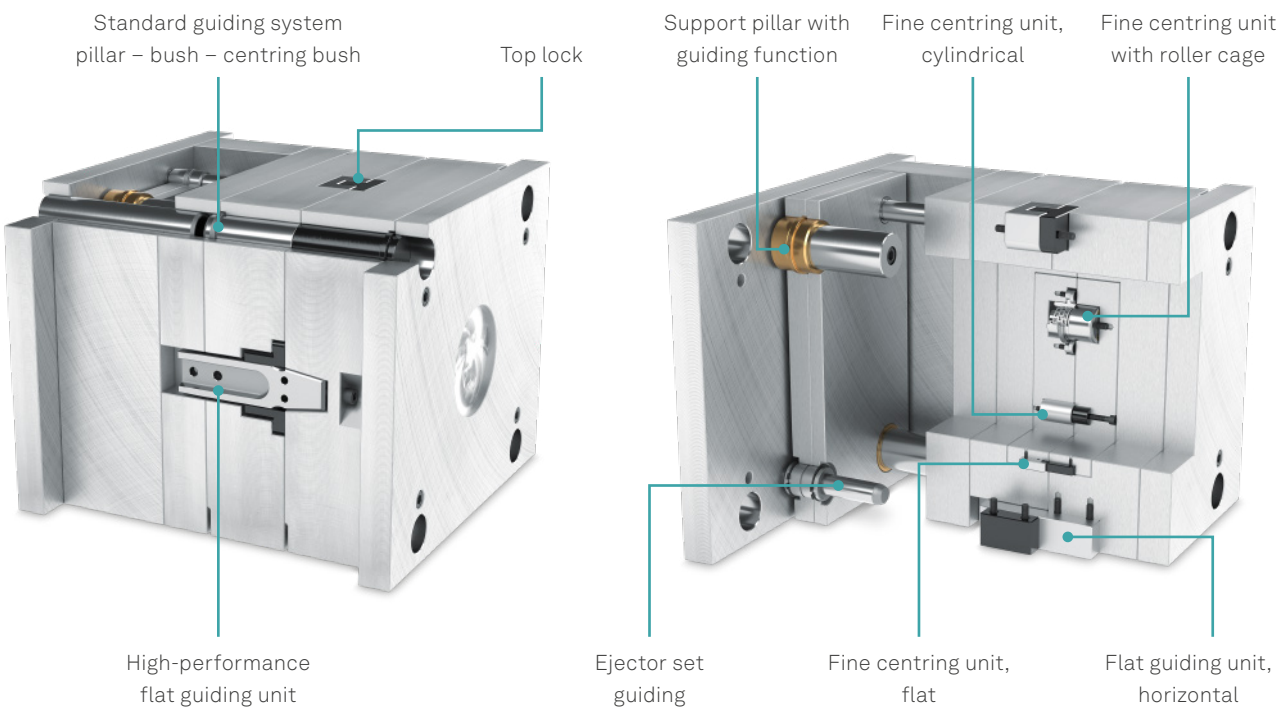
m _ EXCLUSIVE

› Maximum load capacity in minimal installation spaces
› Perfect precision thanks to positive taper locking
› Maximum wear resistance even in case of mould temperatures of up to 300 °C



Find further information at:
www.meusburger.com/e1080-en

Installation examples – Sectional view

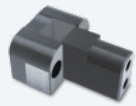


Discover our complete range in the portal:
www.meusburger.com/guiding-mould-making

Locks

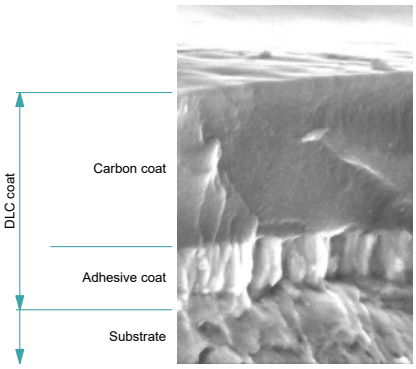
› Very low friction due to DLC coating
› Integrated collision protection through clearance on the side
› Removal groove for easier dismantling (E 1304, E 13045, E 1308)
› Withdrawal thread facilitates removal (E 1306, E 1310, E 1352)

Meusburger locks can be replaced individually. E 1310 and E 1352 are interchangeable.

Type		Characteristics	Position location
E 1304		› Precise and robust final centring › Optimal compensation of thermal expansion	outside
E 13045		› Space-saving variant thanks to slim centring section › Optimal compensation of thermal expansion	outside
E 1308		› Space-saving through horizontal installation › High accuracy, since both recesses can be produced in one clamping	outside
E 1310		› Centres at end position via the conical shank › Easy machining due to cylindrical installation space	inside
E 1352		› Long guiding › Easy machining due to cylindrical installation space, anti-rotation blocking required › Optimal compensation of thermal expansion	inside
E 1355		› Ideal for continuous operation thanks to low-wear, high-precision roller centring › Centring without play through optimally designed preload › Can be used in cleanrooms as it is virtually wear-free	inside
E 1306		› High-precision centring through extremely tight tolerances › Optimally suited also for small moulds and inserts	inside
E 1311		› High-precision centring through extremely tight tolerances › Optimally suited also for small moulds and inserts › Simple and space-saving installation	inside
E 13070 + E 13076		› Optimally suited for inserts › Space-saving – minimal installation space › High-precision centring through extremely tight tolerances › Customisable fastening	inside

General information

DLC coating

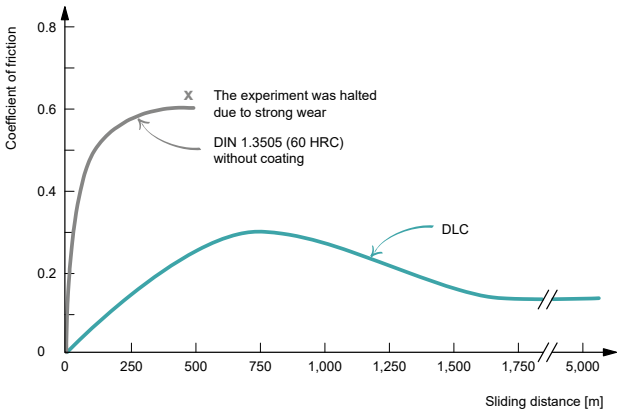


Advantages

- Increased corrosion resistance and service life
- Best dry-running properties enable use in cleanrooms
- Minimised wear thanks to excellent sliding properties

Characteristics

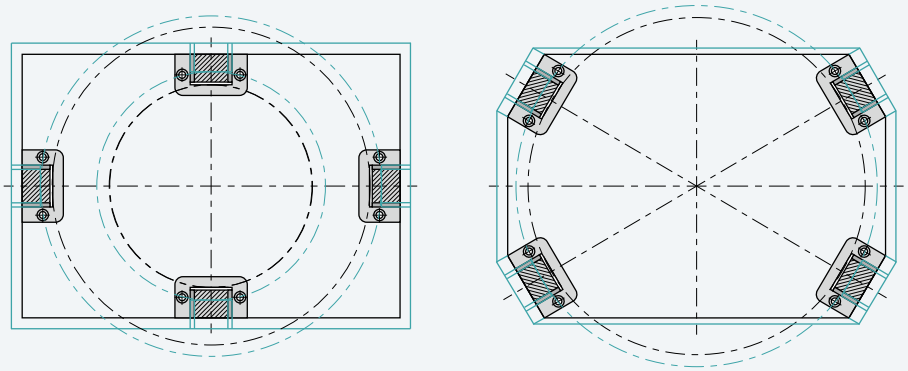
› Hardness:	~ 3000 HV
› Coating thickness:	~ 2 µm
› Coefficient of friction against steel:	0.1 – 0.15
› Colour:	black grey



Lubrication can increase service life.

Thermal expansion of a mould base

If the heating is uniform, the plates expand from the centre in a ring shape. Flat guiding units and locks, which are aligned to the centre of the plate, compensate for thermal expansion.



Ideally, always position flat guiding units and locks symmetrically with the mould centre.

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Standards for your success.