



TECHNOLOGY IN MOTION

INSTINCT by MACO

SYSTEM FOLDER – TIMBER DOUBLE-SIDED FLUSH
PIVOT DOOR – INSTALLATION IN FRAME

instinct^o
by MACO



maco.eu/instinct

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Important information

To assemble and install the INSTINCT by MACO system, you need the following documents:

- › Operating and maintenance instructions
- › System folder for the corresponding door profile
- › Assembly instructions

Operating and maintenance instructions

The operating and maintenance instructions contain important information on project planning, installation, commissioning, operation and maintenance of the INSTINCT by MACO system. This document must be handed over to the client/end user in the course of delivery.

System folder

The system folder contains profile-specific information on the milling and drilling patterns as well as information and notes on cable installation in the profile. In addition, please also note the fabrication guidelines of the profile manufacturer!

Assembly instructions

The assembly instructions contain profile-independent information for correct assembly of the INSTINCT by MACO system. These instructions include the work steps in the factory and the work steps on the construction site.

Profile details and matching components

PROFILE SYSTEM	Installation of the closures:	in the frame profile
	Opening direction:	opens inwards
	Tested sash profile:	Double-sided flush Timber reference system with double rebate and 5 mm rebate gap - frame width / frame height 100 mm
	Tested frame profile:	Double-sided flush Timber reference system with double rebate and 5 mm rebate gap - frame width / frame height 100 mm
MATCHING COMPONENTS	Matching closures:	Housing shape C - Part No. 501_3_
	Matching closure covers:	Part No. 50212_
	Recommended screw type(s):	4 x DIN 7982 CT / 4,2 x 38
	Matching striker plates:	flush mounted, milled - Part No. 50371_
	Matching striker plate covers:	Part No. 50471_
	Recommended screw type(s):	4 x DIN 7982 CT / 4,2 x 38
MINIMUM SASH WIDTH	Minimum width per side:	≥ 200 mm

Basic design and tolerances

Basic setting of the locking cam:	9 mm
Basic design of the rebate gap:	5 mm
Minimum rebate gap:	≥ 3 mm
Maximum rebate gap:	≤ 7 mm
IMPORTANT: Compatibility assessment applies to door hinges with standard turning curves. If the turning curve deviates, the basic setting of the locking cam may have to be adjusted.	
Reducing the minimum rebate gap (by tightening the locking cam screw) is:	
☐ Possible	☒ Not possible
IMPORTANT: The maximum rebate gap is reduced by tightening the locking cam screw.	
Increasing the minimum rebate gap (by loosening the locking cam screw) is:	
☒ Possible	☐ Not possible
IMPORTANT: The minimum rebate gap is increased by loosening the locking cam screw.	

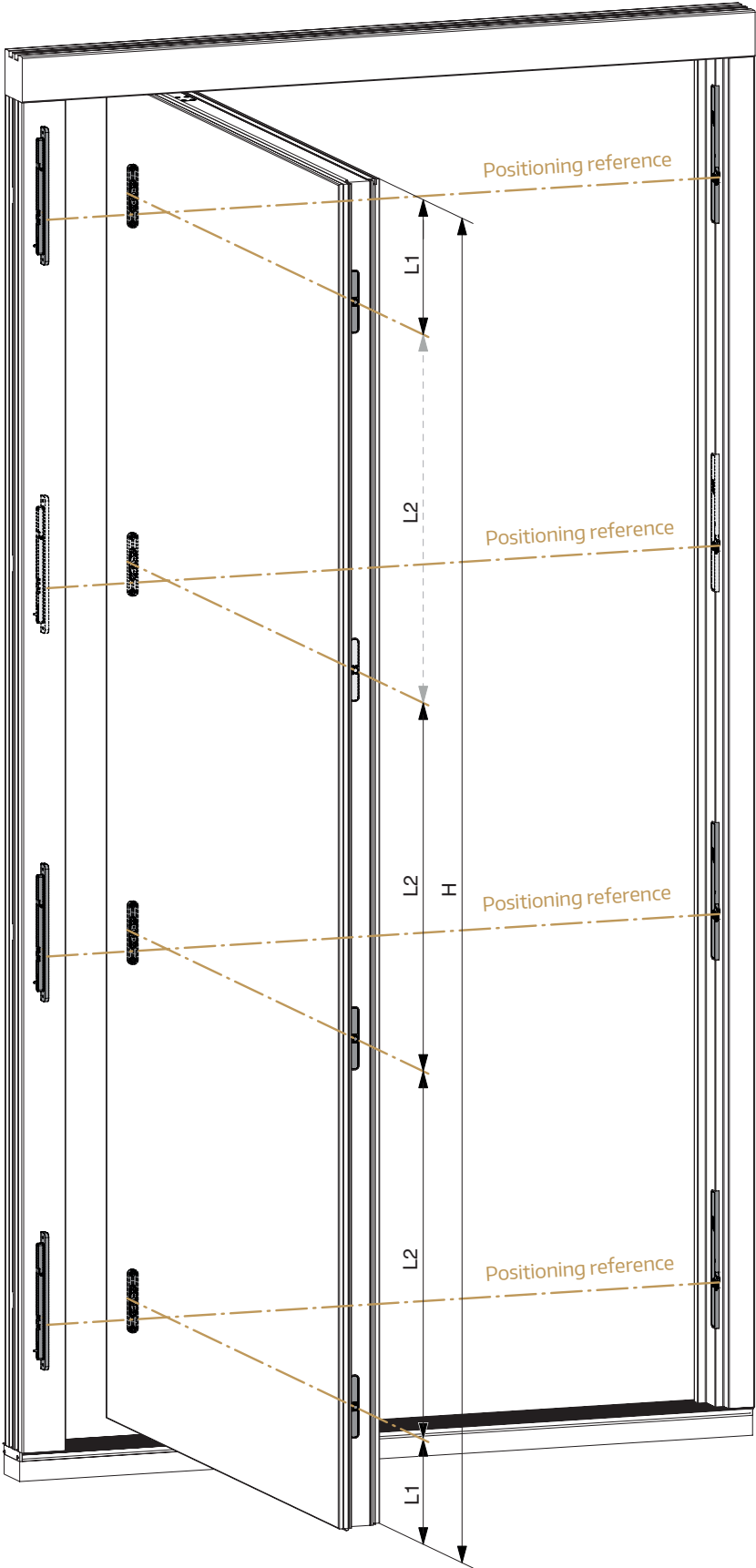
DESIGN & TOLERANCES

MINIMUM REBATE GAP

MAXIMUM REBATE GAP

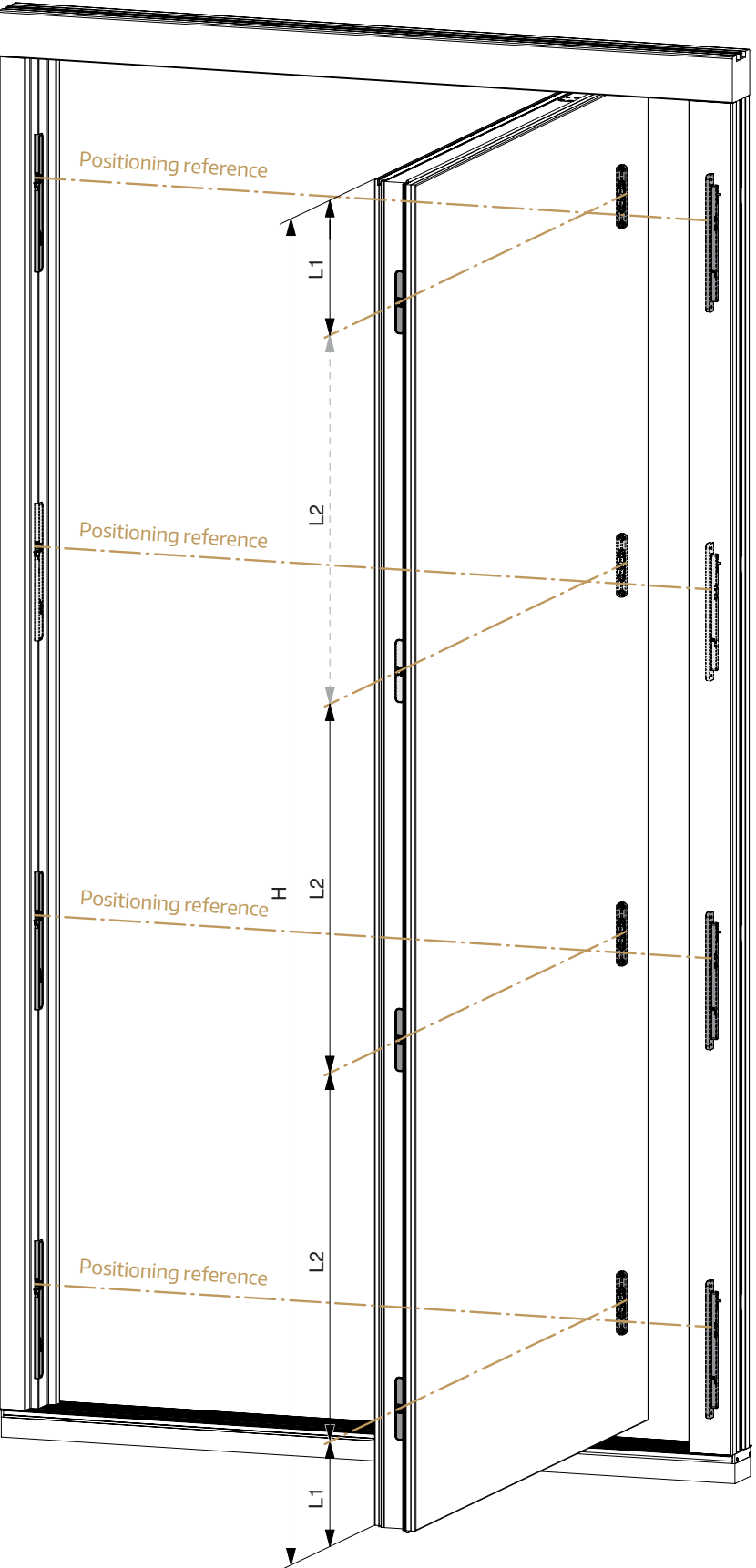
Recommended positioning

DIN L



Recommended positioning

DIN R



RECOMMENDED CONFIGURATION

In the minimum configuration, 3 closures are recommended.
From a door height of 2500 mm, 4 closures are recommended.
An additional horizontal closure is optional.

EXAMPLE DISTANCES*

Door height	Qty	L1	L2
2000	3	240	760
2100	3	240	810
2200	3	240	860
2300	3	240	910
2400	3	240	960
2500	4	240	673
2600	4	240	706
2700	4	240	740
2800	4	240	773

*Figures in mm.
Table valid for DIN L and DIN R.
The values in this table are examples and serve as guidance for the installation of the INSTINCT closures.

Calculation for L2 with 3 Closures:

$$\frac{\text{Door height} - (2 \times L1)}{2}$$

Calculation for L2 with 4 Closures:

$$\frac{\text{Door height} - (2 \times L1)}{3}$$

RECOMMENDED CABLE LENGTHS*

L2	Cable length	Item number
L2 ≤ 400	600	509006
L2 ≤ 500	700	509007
L2 ≤ 600	800	509008
L2 ≤ 700	900	509009
L2 ≤ 800	1000	509010
L2 > 800	1100	509011

*Figures in mm

The required cable lengths may differ depending on the position of the cable routing.

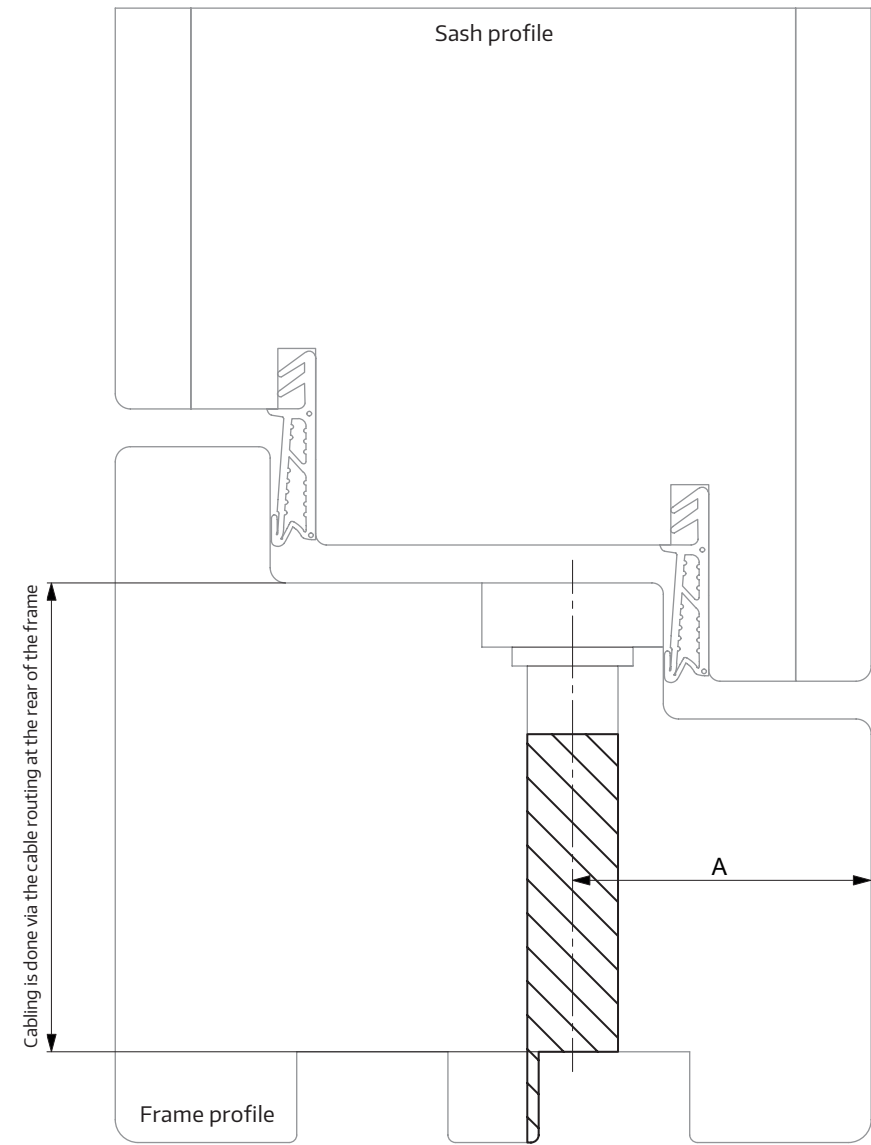
For the integration of the INSTINCT Bluetooth module or the INSTINCT interface, system cables with a length of 200 (Part No. 509002), 300 (Part No. 509003) or 500 mm (Part No. 509005) are available. A system cable with a length of 2500 mm (Part No. 509025) or the system cable connector (Part No. 509000) is also available to connect the closures on both sides.

The detailed cabling scheme can be found on page 14.

Milling pattern cross-section D-D

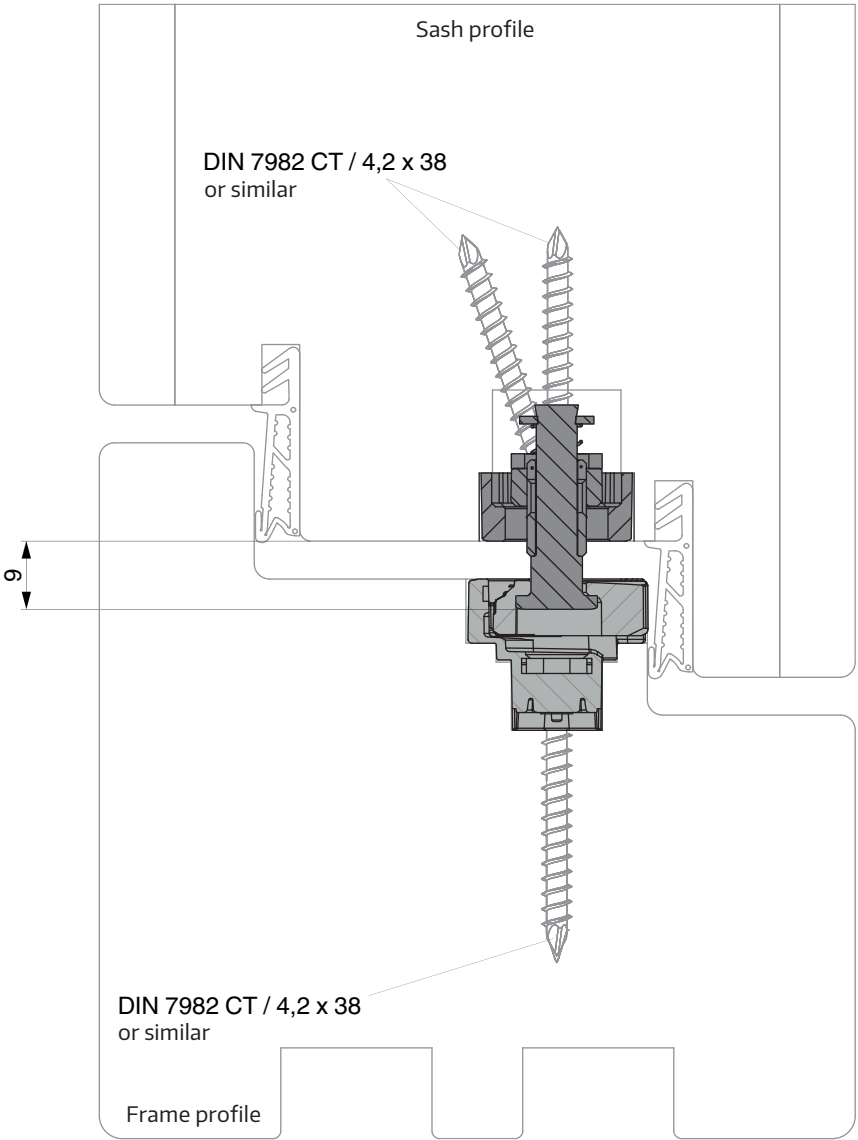
DIN R, M 1:1

optional milling
INSTINCT Interface 509310
INSTINCT Bluetooth-Modul 509320
openDoor Touchkey dLine Controller 480489



Basic adjustment of the striker plate

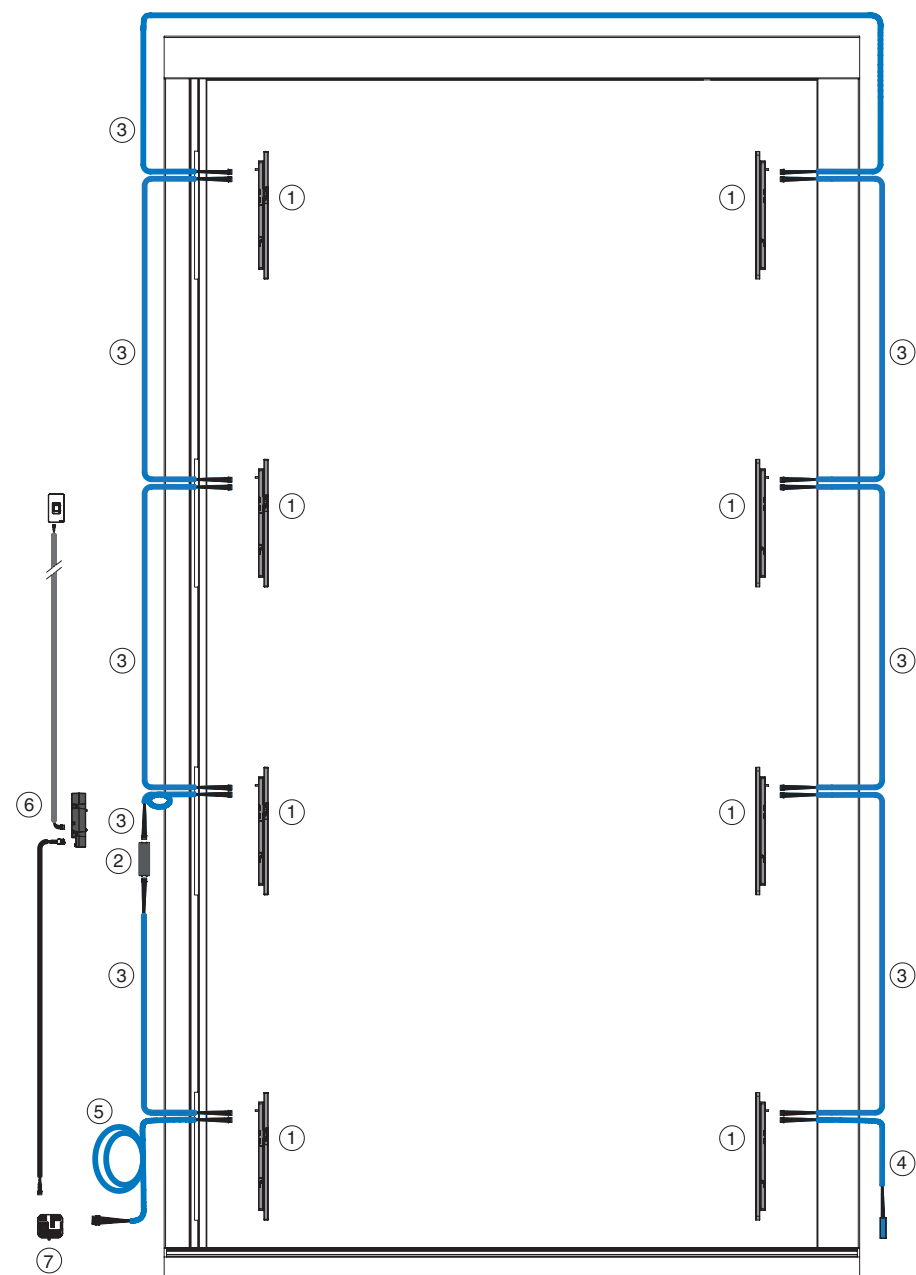
Cross-section A-A, M 1:1



Cabling overview

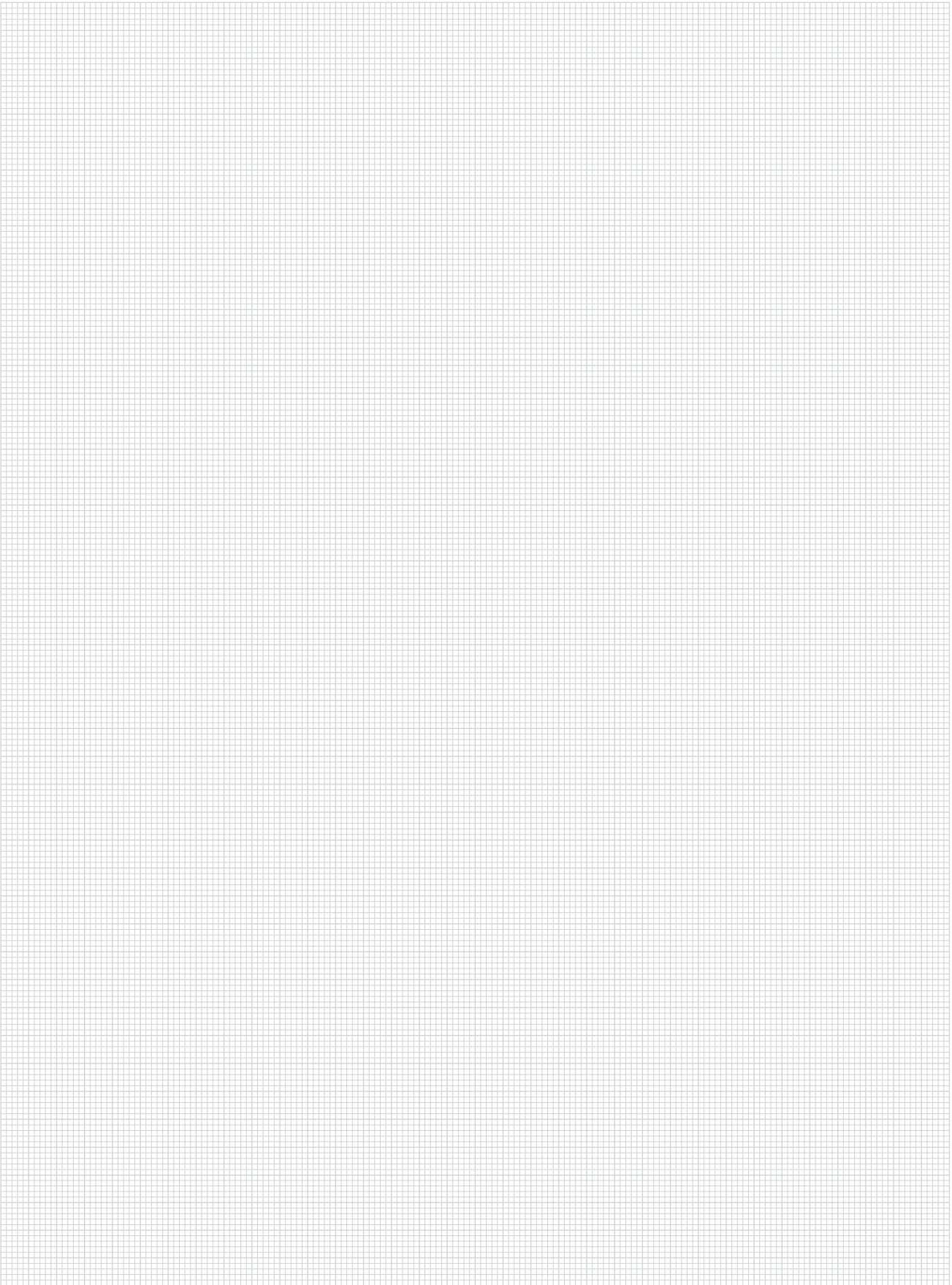
NOTE
The cables are routed through a cable duct in the door frame.

For vertical closure points



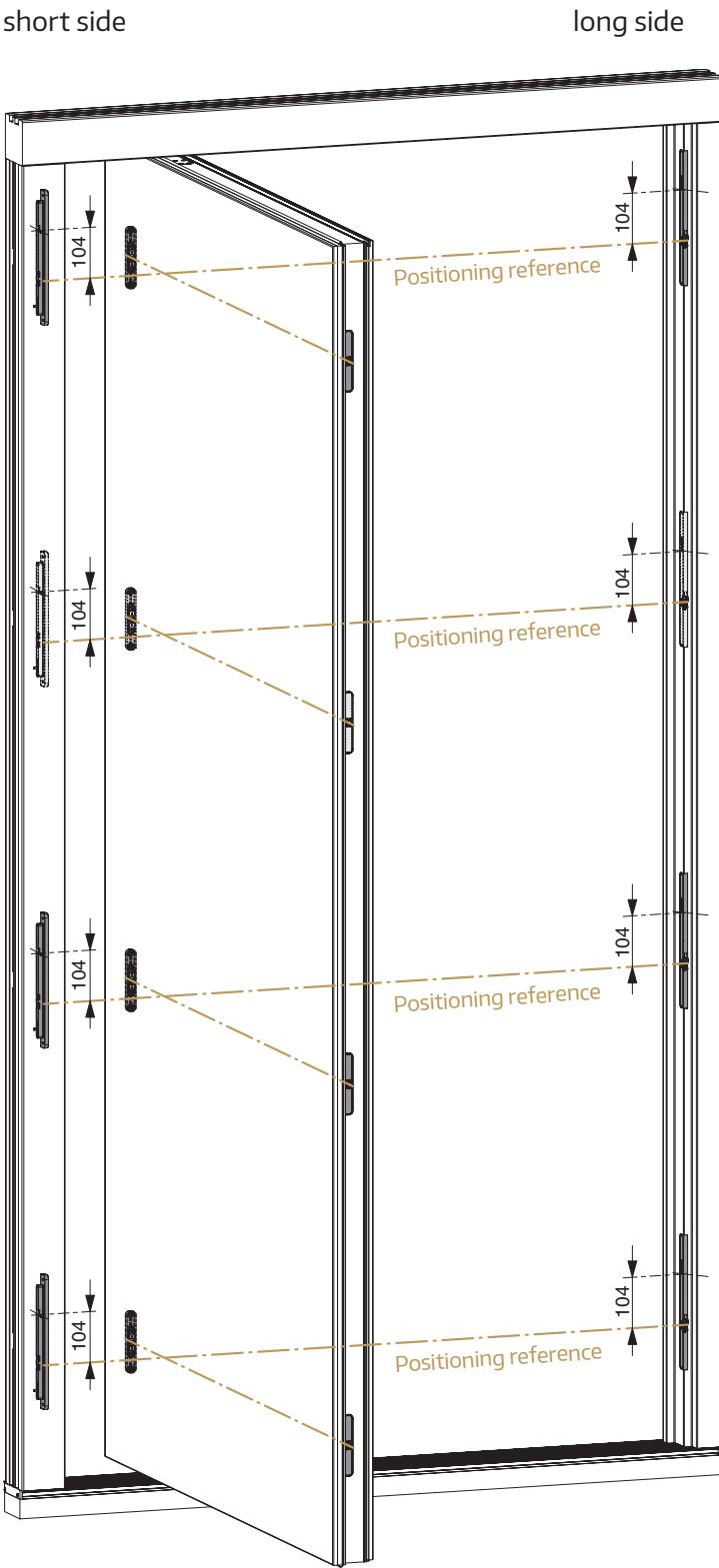
- ① INSTINCT Guard/Guard+
- ② INSTINCT Bluetooth module (optional)
- ③ INSTINCT system cable
- ④ INSTINCT connection cable (with or without acoustic module)
- ⑤ INSTINCT system cable for frame-side mounting 6000 mm
- ⑥ MACO openDoor Touchkey dLine / MACO openDoor Keypad (optional)
- ⑦ INSTINCT Gateway

Notes



Emergency release positions left

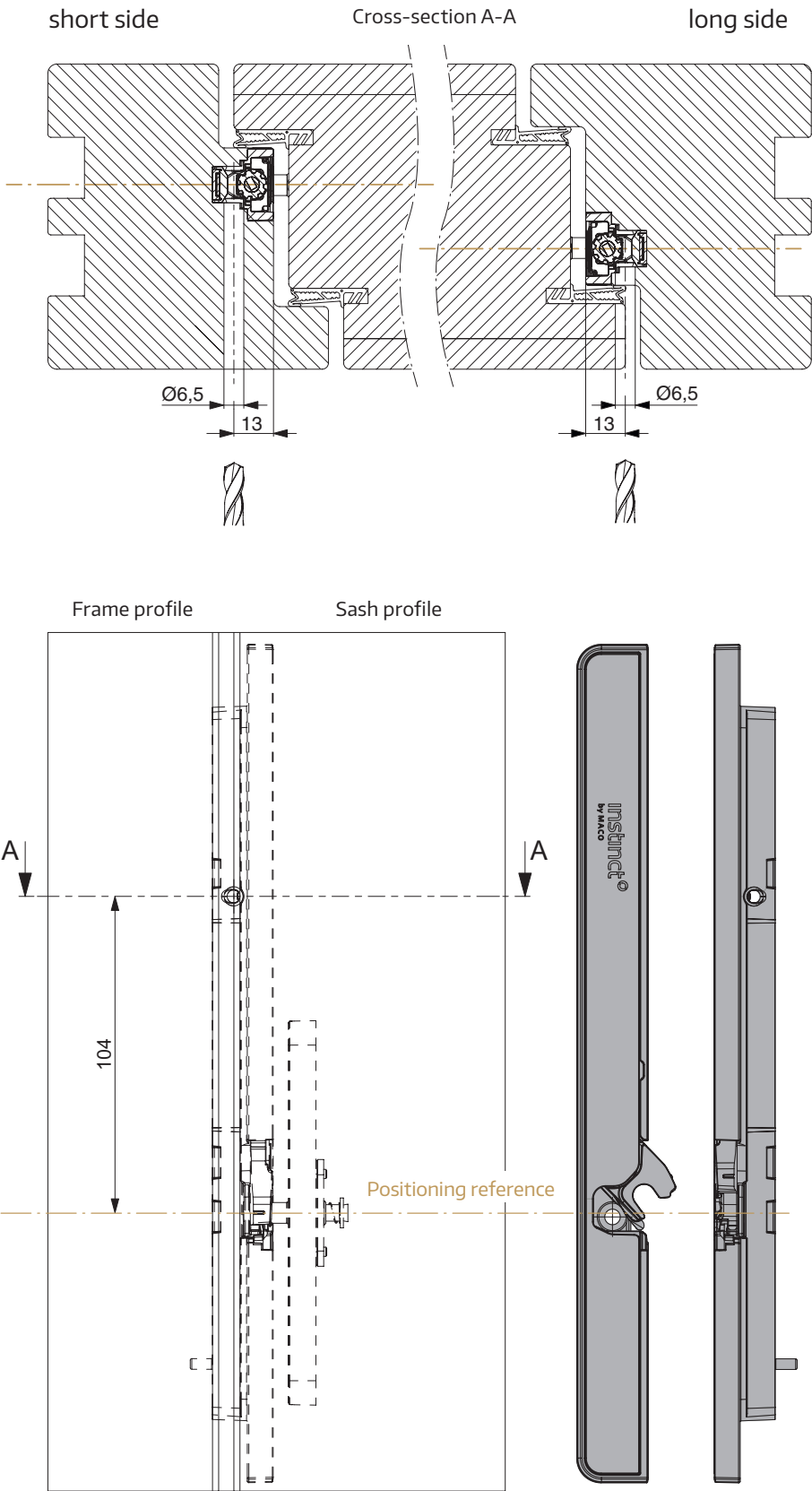
DIN L



Direction of rotation for emergency release:

Emergency release drill pattern left

DIN L



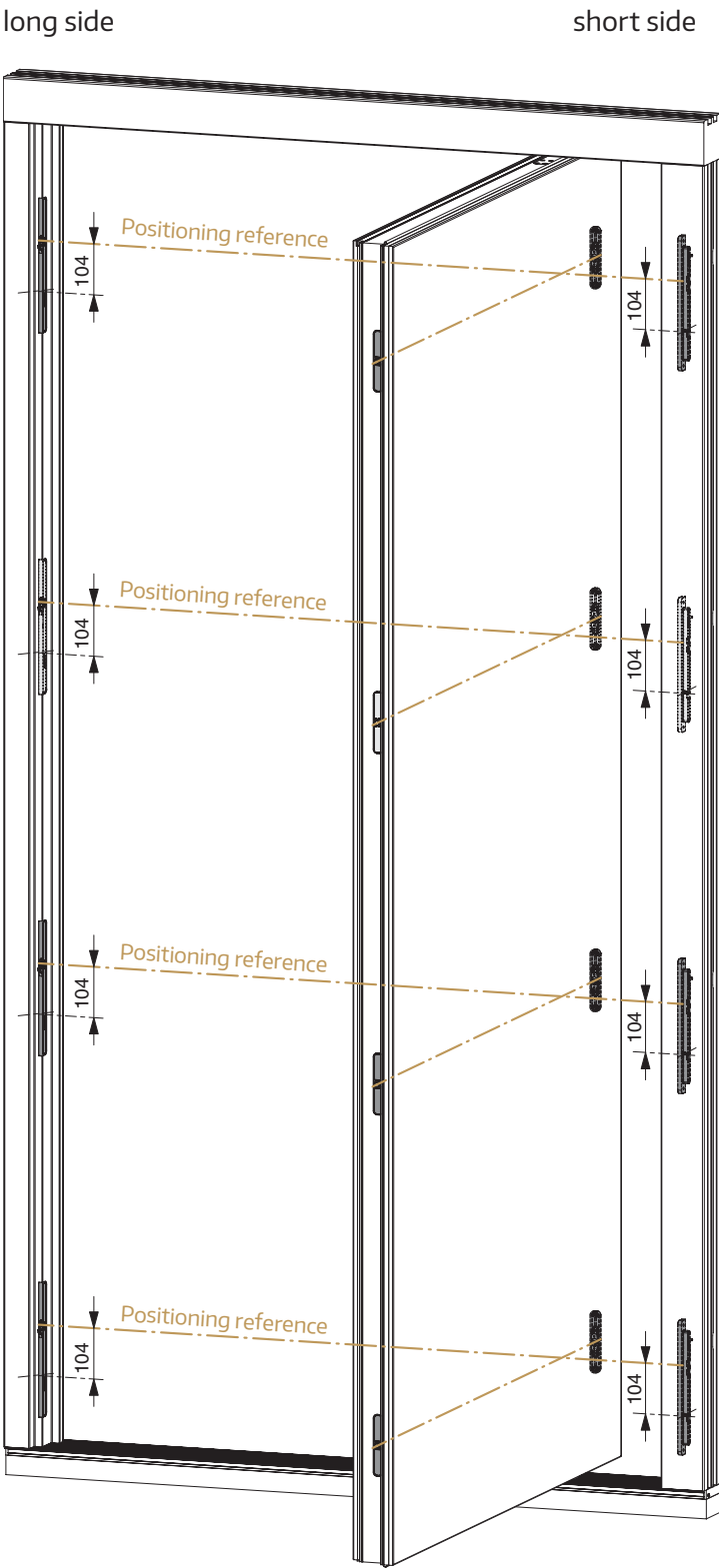
NOTE

In the event of a defect, it is possible to mechanically open each individual locking point from the inside via an emergency release.

For this purpose, the unlocking tool (Part No. 509520) as well as an -key with ball head (4 mm) is required.

Emergency release positions right

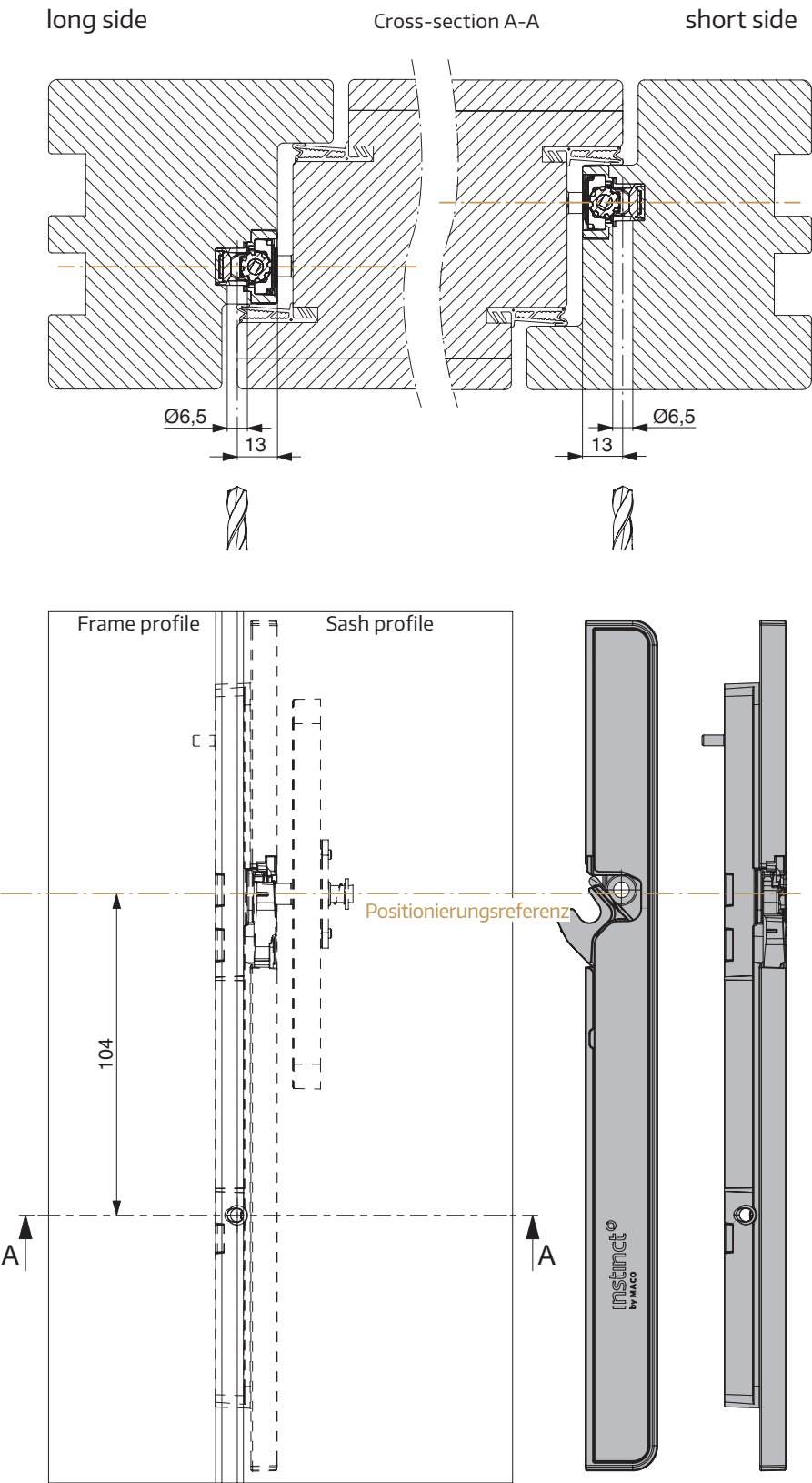
DIN R



Direction of rotation for emergency release:

Emergency release drill pattern right

DIN R



NOTE

In the event of a defect, it is possible to mechanically open each individual locking point from the inside via an emergency release.

For this purpose, the unlocking tool (Part No. 509520) as well as an -key with ball head (4 mm) is required.

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» If I had asked people
what they wanted,
they would have said
faster horses. «

Henry Ford

