6. Bestelsleutels

4.8.1 Ordering key system

LLTH	S	25	A	2	T2	1000	P5	HD	S0	A	B0	D4	E0	M	S1	C	M

Size
15, 20, 25, 30, 35, 45

Carriage type [1)]
SA Flanged carriage, short length, standard height
A Flanged carriage, standard length, standard height
LA Flanged carriage, extended length, standard height
SU Slim-line carriage, short length, standard height
U Slim-line carriage, standard length, standard height
LU Slim-line carriage, extended length, standard height
R Slim-line carriage, standard length, extended height
LR Slim-line carriage, extended length, extended height

Number of carriages per rail
1, 2, 4, 6, …

Preload class
T0 Zero preload
T1 Light preload, 2 % C
T2 Medium preload, 8 % C

Rail length
80 mm up to maximum rail length (1 mm steps)

Precision class
P5 Standard
P3 Medium
P1 High

Coating [2) 3) 4) 5) 11)] (no code for standard: non coated rails and carriages)
HD Thin dense chrome rail with non coated carriage, available in Europe
HA Thin dense chrome rail with non coated carriage, available in USA/CAN
HT Trivalent chrome rail with non coated carriage.
HDN Thin dense chrome rail with nickel plated carriage, available in Europe
HAN Thin dense chrome rail with nickel plated carriage, available in USA/CAN
HTN Trivalent chrome rail with nickel plated carriage

Sealing [9) 10)] (no code for standard sealing)
S0 Low friction shield

Jointed rail track [6)] (if not selected – no code)
A Yes

Prepared for bellows (if not selected – no code)
B0 Rails prepared for bellows (for ordering the bellow see ordering key bellows), available in Europe

Rail
D Rail, if customized according to drawing number
D4 Rail with blind holes
D6 [7)] Rail with metal plugs

Distance between end face and the center of the first mounting hole of the rail
E0 If no “E” specified, the holes at both rail ends will be positioned equidistantly from either end of the rail (shortest possible “E” dimension)
Exx “E” dimension to be specified, for calculation and minimum “E” dimension (↳ **page 57**)

LLTH	S	25	A	2	T2	1000	P5	HD	S0	A	B0	D4	E0	M	S1	C	M

Carriage mounted on rail (if not selected – no code)
M Yes

Additional seals, when part of a system (other and separate available parts see ordering key accessories)
S1 Scraper plate
S3 Seal kit, additional front seal with scraper plate
S7 Additional front seal
S6 Lube element
61 Lube element + Scraper plate
63 Lube element + Seal kit, additional front seal with scraper plate
67 Lube element + Additional front seal

Quantity of additional seals
C (2) seals per carriage
S (2) seals per system, outer surface of carriages to have seal mounted

Additional seals mounted on carriage [8] (if not selected – no code)
M Yes

[1] Not all combinations of preload / precision class available for each carriage type. Please refer to **pages 38 to 53**.
[2] Available coated carriage types refer to **page 22** (**table7**).
[3] Only available in preload classes T1 and precision class P5.
[4] Please note: a system with coated rail can have a slightly higher preload and friction. This will be partly eliminated after a short running time. Be aware, that the end of the rail is not normally coated.
[5] For size 15 and 20, only carriages with low friction S0 shield shall be used. If seal function is needed, a combination with additional front seal S7 is recommended.
[6] Jointed rail code should be selected if the ordered rail length exceeds the maximum standard rail length (defined in dimension tables, **pages 38 to 53**). Availability defined in **table 8, page 23**.
[7] Available for size 25–45. Mounting tool needs to be ordered separately (↳ **ordering key accessories**).
[8] Additional seals can only be mounted on carriage if full system is ordered (Carriage mounted on rail = Yes).
[9] Not for size 35 and 45.
[10] LLTH 15 and 20 HN are always equipped with S0 as STANDARD.
[11] Without lubricant, corrosion protected only.

4.8.2 Ordering key carriages

LLTH	C	25	A	T2	P5	HN	S0

Size
15, 20, 25, 30, 35, 45

Carriage type [1]
SA Flanged carriage, short length, standard height
A Flanged carriage, standard length, standard height
LA Flanged carriage, extended length, standard height
SU Slim-line carriage, short length, standard height
U Slim-line carriage, standard length, standard height
LU Slim-line carriage, extended length, standard height
R Slim-line carriage, standard length, extended height
LR Slim-line carriage, extended length, extended height

Preload class
T0 Zero preload
T1 Light preload, 2 % C
T2 Medium preload, 8 % C

Precision class
P5 Standard
P3 Medium
P1 High

Coating [2] [3] [4] [7] (no code for standard: non coated carriage)
HN Nickel plated carriage

Sealing [5] [6] (no code for standard sealing)
S0 Low friction shield

[1] Not all combinations of preload / precision class available for each carriage type. Please refer to **pages 38 to 53**.
[2] Only available for preload class T1, precision class P5. For an overview of the available carriages with coating, please refer to **page 22**, **table 7**.
[3] Please note: a system with coated rails can have a slightly higher preload and friction. This will be partly eliminated after a short running time.
[4] For size 15 and 20, only carriages with low friction S0 shield shall be used. If seal function is needed, a combination with additional front seal S7 is recommended.
[5] Not for size 35 and 45.
[6] LLTH 15 and 20 HN are always equipped with S0 as STANDARD.
[7] Without lubricant, corrosion protected only.

4.8.3 Ordering key rails

LLTH	R	25	1000	P5	HD	A	B0	D4	E0

Size
15, 20, 25, 30, 35, 45

Rail length
80 mm up to maximum rail length (1 mm steps)

Precision class
P5 Standard
P3 Medium
P1 High

Coating [1) 2)] (no code for standard: non coated rail)
HD Thin dense chrome rail, available in Europe
HA Thin dense chrome rail, available in USA/CAN
HT Trivalent chrome rail, available world wide

Jointed rail track [3)]
A Yes

Prepared for Bellows
B0 Rails prepared for bellows. To order, see “ordering key bellows.”, available in Europe

Rail [4)]
D Rail, if customized according to drawing number
D4 Rail with blind holes
D6 [5)] Rail with metal plugs

Distance between end face and the center of the first mounting hole of the rail
E0 If no “E” specified, the holes at both rail ends will be positioned equidistantly from either end of the rail (shortest possible “E” dimension)
Exx “E” dimension to be specified, for calculation and minimum “E” dimension, (↳ **page 57**)

[1)] Only available in precision class P5.
[2)] Please note: a system with coated rail can have a slightly higher preload and friction. This will be partly eliminated after a short running time. Be aware that, as standard, the end of the rail is not coated.
[3)] Jointed rail code should be selected if the ordered rail length exceeds the maximum standard rail length (defined in dimension tables, **pages 38 to 53**). Availability defined in **table 8, page 23**.
[4)] Plastic and metal plugs available as spare parts. Please contact Ewellix for further information.
[5)] Available for sizes 25–45. Mounting tool needs to be ordered separately (see ↳ **ordering key accessories**).

4.8.4 Ordering key accessories (delivered separately)

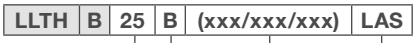
LLTH	Z	25	S1

Size
15, 20, 25, 30, 35, 45

Accessories (will be delivered as single units)
S0 [1)] Low friction shield
S1 Scraper plate
S3 Seal kit, additional front seal with scraper plate
S7 Additional front seal
PL Adapter plate, used for side lubrication
VN UA [2)] Lubrication connector
D6 [3)] Mounting tool for metal plugs
S6 Lube element
61 Lube element + Scraper plate
63 Lube element + Seal kit, additional front seal with scraper plate
67 Lube element + Additional front seal

[1)] Available for sizes 15–30 to replace standard front seal.
[2)] Fits for all types of carriages (↳ **page 37**), but not in combination with additional seals (S1/S3/S7).
[3)] Available for sizes 25–45.

4.8.5 Ordering key bellows



Size
15, 20, 25, 30, 35, 45

Bellows [1]
B Combination of bellows to cover the complete system
B2 Kit, type 2 (carriage to the end of the rail)
B4 Kit, type 4 (between two carriages)
B9 Bellow as spare part (without any fastening system)

Bellows: definition of number of folds (max 150 folds per single bellow)
xxx Number of folds
/ Splitting of sections
- No bellows in this section

Bellows material
STD Standard material “PUR”, (temperature resistance +90 °C)
LAS [2] Special material suitable for laser applications – self fading, (temperature resistance +160 °C)
WEL [3] Special material suitable for welding applications, (temperature resistance +260 °C)

The bellows is only available in Europe.
[1] Will be delivered unmounted
[2] Available for sizes 15-30
[3] Available for sizes 35-45