KS 100 Eck

The KS 100 Eck was designed for the easy and cost-effective shoring of circular and masonry manholes. Based on the KS 100 standard box, it has extra panels at the corners as a safeguard against soil pressure, e.g. when constructing manholes.

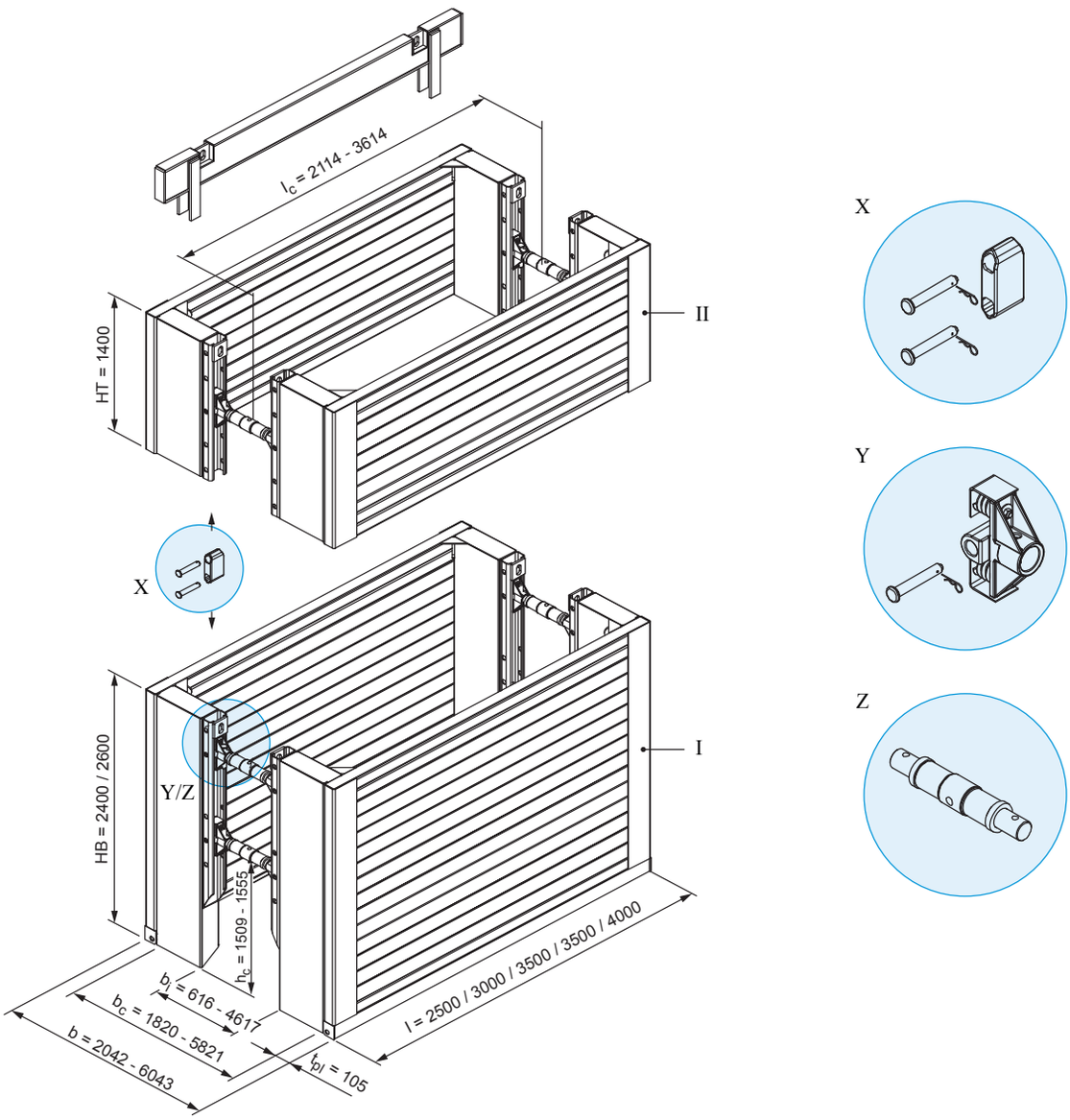
The sizes have been selected to ensure that conventionally available circular manholes can be handled up to a diameter of 3 m. The maximum pipe culvert height for the installation of supply and discharge lines also matches the usual dimensions.

Basic data

Shoring length	2,50 m - 4,00 m
Height base unit	2,40 m / 2,60 m
Height top unit	1,40 m
Pipe culvert height	max. 1,56 m
Shoring depth	max. 4,00 m
Trench width	variable, see page 92/93

Advantages
- Simple, cost-effective shoring for circular and masonry manholes
- Extra panels on the corners to safeguard against soil pressure

KS 100 Eck



(All dimensions in mm)

I	Base unit	l_c	Pipe culvert length	t_{pl}	Thickness
II	Top unit	b	Shoring / trench width	X	Connector
HB	Height base unit	b_c	Inner width	Y	Mushroom spring with pin
HT	Height top unit	b_i	Inner culvert width	Z	Spindle 98x...
l	Length	h_c	Pipe culvert height		

Base units

Art. No.	l [m]	h [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
135 120	**3,50**	2,40	0,105	1,52	3,114	1.060,0	2.401,0 *	8,40	44,12
135 100	**2,50**	2,60	0,105	1,56	2,114	950,0	2.145,0 *	6,50	61,61
135 110	**3,00**	2,60	0,105	1,56	2,614	1.041,0	2.347,0 *	7,80	51,34
135 130	**3,50**	2,60	0,105	1,56	3,114	1.160,0	2.549,0 *	9,10	44,12
135 140	**4,00**	2,60	0,105	1,56	3,614	1.340,0	2.945,0 *	10,40	33,02

* with spindle 98x700

Top units

Art. No.	l [m]	h [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
135 240	**2,50**	1,40	0,105	-	3,614	655,0	1.485,0 *	3,50	61,61
135 250	**3,00**	1,40	0,105	-	3,614	720,0	1.511,0 *	4,20	51,34
135 260	**3,50**	1,40	0,105	-	3,614	831,0	1.837,0 *	4,90	44,12
135 270	**4,00**	1,40	0,105	-	3,614	940,0	2.055,0 *	5,60	33,02

* with spindle 98x700

Shoring widths for spindle 98x550

Extension bar	l [m]	b_i [m]	b_c [m]	b [m]
	without	0,616 - 0,816	1,820 - 2,020	2,042 - 2,242
139 430	0,30	0,916 - 1,116	2,120 - 2,320	2,342 - 2,542
139 445	0,50	1,116 - 1,316	2,320 - 2,520	2,542 - 2,742
139 385	1,00	1,616 - 1,816	2,820 - 3,020	3,042 - 3,242
139 400	1,50	2,116 - 2,316	3,320 - 3,520	3,542 - 3,742
139 420	2,00	2,616 - 2,816	3,820 - 4,020	4,042 - 4,242
139 425	2,50	3,116 - 3,316	4,320 - 4,520	4,542 - 4,742

Shoring widths for spindle 98x700

Extension bar	l [m]	b_i [m]	b_c [m]	b [m]
	without	0,792 - 1,132	1,996 - 2,336	2,218 - 2,558
139 430	0,30	1,092 - 1,432	2,296 - 2,636	2,518 - 2,858
139 445	0,50	1,292 - 1,632	2,496 - 2,836	2,718 - 3,058
139 385	1,00	1,792 - 2,132	2,996 - 3,336	3,218 - 3,558
139 400	1,50	2,292 - 2,632	3,496 - 3,836	3,718 - 4,058
139 420	2,00	2,792 - 3,132	3,996 - 4,336	4,218 - 4,558
139 425	2,50	3,292 - 3,632	4,496 - 4,836	4,718 - 5,058

Shoring widths for spindle 98x817

Extension bars	l [m]	b_i [m]	b_c [m]	b [m]
0	0,00	0,717 - 1,117	1,921 - 2,321	2,143 - 2,543
1	0,50	1,217 - 1,617	2,421 - 2,821	2,643 - 3,043
2	1,00	1,717 - 2,117	2,921 - 3,321	3,143 - 3,543
3	1,50	2,217 - 2,617	3,421 - 3,821	3,643 - 4,043
4	2,00	2,717 - 3,117	3,921 - 4,321	4,143 - 4,543
5	2,50	3,217 - 3,617	4,421 - 4,821	4,643 - 5,043
6	3,00	3,717 - 4,117	4,921 - 5,321	5,143 - 5,543
7	3,50	4,217 - 4,617	5,421 - 5,821	5,643 - 6,043

A maximum of 7 extension bars with a length of 500 mm may be used.

l	Length	h	Height	G	Weight
l_c	Pipe culvert length	h_c	Pipe culvert height	G / VP	Weight per shoring panel
b	Shoring / trench width	t_{pl}	Thickness	G / Box	Weight per shoring box
b_c	Inner width	A	Area	eh	Earth pressure max.

Accessories/Spares see page 107