Magnum-Boxes

The boxes of the Medium and Magnum class keep the project running smoothly and cost-effectively, particularly when pipes with large diameters or lengths have to be laid. The edge-supported box system scores with a large pipe clearance between the bottom strut and the shoring panel below it. This simplifies the installation of pipes with nominal widths up to 2,500 mm. For construction projects involving pipes greater than 6 m in length, the Magnum boxes with large panel lengths are an ideal choice.

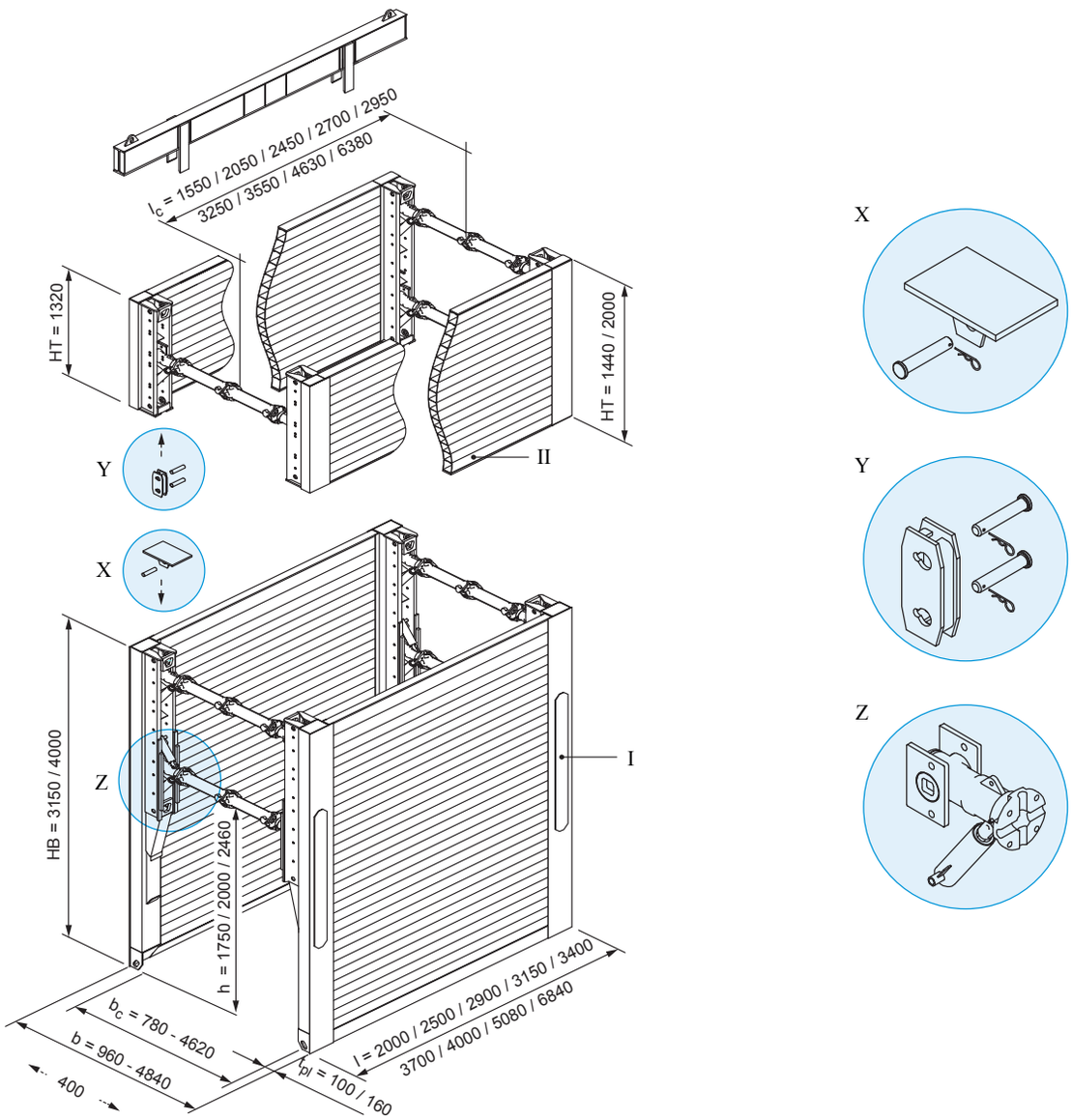
The top panels of the Magnum boxes are compatible with the Medium shoring system and can be also used there as top panels. The strut system is identical to that of Lightweight and Medium shoring with full compatibility.

Basic data

Shoring length	2,00 m - 6,84 m
Height base unit	3,15 m / 4,00 m
Height top unit	1,32 m / 1,44 m / 2,00 m
Pipe culvert height	1,75 m / 2,00 m / 2,46 m
Weight	1860 kg - 7130 kg
Trench width	variable, see page 64

Advantages
- Cost-effective shoring solution, e.g. for laying large or long pipes
- Strut system compatible with Lightweight and Medium shoring
- Top panels compatible with Medium shoring

Magnum-Boxes



(All dimensions in mm)

I	Base unit	l_c	Pipe culvert length	X	Pressure plate
II	Top unit	b	Shoring / trench width	Y	Connector
HB	Height base unit	b_c	Inner width	Z	Spreader with bearing plate and shock absorber
HT	Height top unit	h_c	Pipe culvert height		
l	Length	t_{pl}	Thickness		

Base units (Height 3,15 m)

Art. No.	l [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
802 036	**2,00**	0,10	2,01	1,55	930,0	1.860,0	6,30	73,1
802 040	**2,50**	0,10	2,01	2,05	1.042,0	2.084,0	7,50	58,5
802 050	**2,90**	0,10	2,01	2,45	1.138,0	2.276,0	8,70	50,4
802 175	**3,40**	0,10	2,01	2,95	1.260,0	2.520,0	10,20	43,0
802 210	**3,70**	0,10	2,01	3,25	1.428,0	2.856,0	11,10	39,5
802 300	**4,00**	0,10	2,01	3,55	1.579,0	3.158,0	12,00	36,5
802 425	**5,08**	0,12	2,01	4,63	1.918,0	3.836,0	15,24	28,6
802 460	**6,84**	0,16	1,75	6,38	3.565,0	7.130,0	21,55	25,08

Base units (Height 4,00 m)

Art. No.	l [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
802 100	**3,15**	0,08	2,46	2,70	1.385,0	2.770,0	12,60	46,0
802 197 A	**3,40**	0,09	2,46	2,95	1.568,0	3.136,0	13,60	41,0

Top units (Height 1,32 m)

Art. No.	l [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
800 550	**2,00**	0,10	-	1,55	463,0	926,0	2,64	165,0
800 600	**2,50**	0,10	-	2,05	531,0	1.062,0	3,30	99,3
800 650	**2,90**	0,10	-	2,45	578,0	1.156,0	3,83	71,5
802 560	**3,15**	0,08	-	2,70	670,0	1.340,0	4,16	60,7
800 700	**3,40**	0,10	-	2,95	658,0	1.316,0	4,49	50,5
800 800	**3,70**	0,10	-	3,25	692,0	1.384,0	4,88	42,1
800 900	**4,00**	0,10	-	3,55	775,0	1.550,0	5,28	43,8
802 814	**5,08**	0,12	-	4,63	1.110,0	2.220,0	6,71	34,2

Top units (Height 1,44 m)

Art. No.	l [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
802 815	**6,84**	0,16	-	6,38	1.505,0	3.010,0	9,85	25,8

Top units (Height 2,00 m)

Art. No.	l [m]	t_{pl} [m]	h_c [m]	l_c [m]	G / VP [kg]	G / Box [kg]	A [m²]	eh [kN/m²]
802 680	**2,00**	0,10	-	1,55	697,0	1.394,0	4,00	165,0
802 690	**2,50**	0,10	-	2,05	785,0	1.570,0	5,00	99,3
802 550	**2,90**	0,10	-	2,45	840,0	1.680,0	5,80	71,5
802 600	**3,15**	0,08	-	2,70	860,0	1.720,0	6,30	60,7
802 700	**3,40**	0,10	-	2,95	930,0	1.860,0	6,80	50,5
802 750	**3,70**	0,10	-	3,25	990,0	1980,0	7,40	42,1
802 751	**4,00**	0,10	-	3,55	1.085,0	2.170,0	8,00	43,8

Trench widths (for cast iron tubular extension bars l = 0.55 m)

			for base element h = 3,15 m				for base element h = 4,00 m	
			Element l = 4,00 m	Element l = 5,08 m	Element l = 6,84 m		Element l = 3,15 m	Element l = 3,40 m
$Anz._{ZwSt.}$	$l_{ZwSt.}$ [m]	b_c [m]	b [m]	b [m]	b [m]	b_c [m]	b [m]	b [m]
0	0,000	0,78 - 1,22	0,98 - 1,42	1,02 - 1,46	1,10 - 1,54	0,88 - 1.32	1,04 - 1,48	1,08 - 1,52
1	0,550	1,33 - 1,77	1,53 - 1,97	1,57 - 2,01	1,65 - 2,09	1,43 - 1,87	1,59 - 2,03	1,63 - 2,07
2	1,100	1,88 - 2,32	2,08 - 2,52	2,12 - 2,56	2,20 - 2,64	1,98 - 2,42	2,14 - 2,58	2,18 - 2,62
3	1,650	2,43 - 2,87	2,63 - 3,07	2,67 - 3,11	2,75 - 3,19	2,53 - 2,97	2,69 - 3,13	2,73 - 3,17
4	2,200	2,98 - 3,42	3,18 - 3,62	3,22 - 3,66	3,30 - 3,74	3,08 - 3,52	3,24 - 3,68	3,28 - 3,72
5	2,750	3,53 - 3,97	3,73 - 4,17	3,77 - 4,21	3,85 - 4,29	3,63 - 4,07	3,79 - 4,23	3,83 - 4,27
max. 6	3,300	4,08 - 4,52	4,28 - 4,72	4,32 - 4,76	4,40 - 4,84	4,18 - 4,62	4,34 - 4,78	4,38 - 4,82

From-to sizes dependent on spindle adjustment range.
Other trench widths possible by combining the two different extension bar lengths l = 0.25 m and l = 0.55 m.
Larger trench widths available on request.

Trench widths (for extension bars HEB 180)

			for base element h = 3.15 m				for base element h = 4.00 m	
			Element l = 4.00 m	Element l = 5,08 m	Element l = 6.84 m		Element l = 3.15 m	Element l = 3.40 m
$Anz._{ZwSt.}$	$l_{ZwSt.}$ [m]	b_c [m]	b [m]	b [m]	b [m]	b_c [m]	b [m]	b [m]
0	0,000	0,78 - 1,22	0,98 - 1,42	1,02 - 1,46	1,10 - 1,54	0,88 - 1.32	1,04 - 1,48	1,08 - 1,52
1	0,275	1,055 - 1,495	1,255 - 1,695	1,295 - 1,735	1,375 - 1,815	1,155 - 1,595	1,315 - 1,755	1,355 - 1,795
1	0,550	1,33 - 1,77	1,53 - 1,97	1,57 - 2,01	1,65 - 2,09	1,43 - 1,87	1,59 - 2,03	1,63 - 2,07
1	1,100	1,88 - 2,32	2,08 - 2,52	2,12 - 2,56	2,20 - 2,64	1,98 - 2,42	2,14 - 2,58	2,18 - 2,62
1	1,650	2,43 - 2,87	2,63 - 3,07	2,67 - 3,11	2,75 - 3,19	2,53 - 2,97	2,69 - 3,13	2,73 - 3,17
1	2,200	2,98 - 3,42	3,18 - 3,62	3,22 - 3,66	3,30 - 3,74	3,08 - 3,52	3,24 - 3,68	3,28 - 3,72
1	3,300	4,08 - 4,52	4,28 - 4,72	4,32 - 4,76	4,40 - 4,84	4,18 - 4,62	4,34 - 4,78	4,38 - 4,82

From-to dimensions depend on the spindle adjustment range.
Other trench widths are possible by combining different HEB lengths.
Larger trench widths are available on request.

$Anz_{ZwSt.}$	Number of extension bars	b_c	Inner width	G / VP	Weight per shoring panel
$l_{ZwSt.}$	Total extension bar length	h_c	Vertical clearance	G / Box	Weight per shoring box
l	Length	t_{pl}	Panel thickness	eh	Max. soil pressure
l_c	Max. pipe length	A	Area		
b	Shoring / trench width	G	Weight		

Accessories/Spares see page 75