

Trench Shoring

Hydraulic Brace System


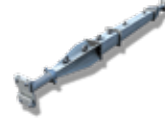

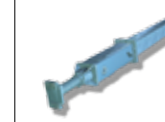
Used for unstable soil; flexible design for varying pit sizes



- Adjustable hydraulics reduce installation/removal times
- No sloping required
- Fully adjustable rams — no cutting or welding
- Pinned corners adjust to fit any excavation; can shore a clear excavation of over 2,500 sq. ft. in plan area or more when you use Mabey bracing struts (right)
- Ready to use off the truck

Struts

Used with hydraulic brace system

JC STRUT	MECHANICAL BRACING STRUT	HYDRAULIC BRACING STRUT	SUPER STRUT
			
<ul style="list-style-type: none"> • Size Range: 1.64' – 20.00' • Support up to 100 kips • Manually operated 	<ul style="list-style-type: none"> • Size Range: 7.48' – 26.21' • Support up to 90 kips • Manually operated 	<ul style="list-style-type: none"> • Size Range: 5.4' – 30.0' • Support up to 81 kips • Hydraulically powered 	<ul style="list-style-type: none"> • Size Range: 13.3' – 64.4' • Support up to 281 kips • Hydraulically-assisted removal

Steel Sheetpile: Used with hydraulic brace system

- Suitable for permanent and temporary applications
- Available in a variety of sizes and lengths
- Both overlapping and interlocking sheets available
- Corner sheets available for interlocking sheets

Sheeting Mode	Thickness	Width	Height	Section Modulus
S64	0.250"	27.75"	5.91"	7.89 in ³ /lin.ft
XZ85	0.335"	25.00"	14.06"	30.20 in ³ /lin.ft



Slide Rail System



- Ideal for crowded sites
- Installed using the "Dig and Push" method
- Provides solid support for trench walls and adjacent structures
- Restoration is lessened because the system is installed from the top down and removed from the bottom up
- Panels are lifted separately as the trench is backfilled and compacted
- The system consists of five basic components: Panels, Corner Posts, Spreader Posts, Roller Beams, and Spreader Beams
- A variety of panel sizes are available
- Rolling spreader frame permits vertical movement of spreader for greater access and maximum clearance
- External walers can be used to eliminate Spreader Beams in applications where clear excavations are required
- Smooth panels for easy install/removal

Vertical Shoring System



- Can be installed without piling or boards in Type A or B soil
- Available in four standard heights: 1.5', 3.5', 5', 7'
- High-yield aluminum alloy construction allows installation to be completed by hand
- A range of hydraulic cylinders allows for trench widths from 22" - 110"
- Fin Form panels available to protect trench sides in loose soils
- Hinged design allows for fast tear down and transport

Excavator Mounted Vibrator Piling Unit



- Minimal height to maximize pile length
- Slim design to drive sheet piling
- High power-to-weight ratio
- Universal joint suspension for easy alignment of piling
- Environmentally friendly — low noise and directional vibration
- All models are easily connected to your excavator

PERFORMANCE	UNITS	EMV70	EMV300	EMV400	EMV450
Static Movement	lbs	60	400	545	606
Frequency	VPM	3,000	2,400	2,460	2,460
Centrifugal Force	lbs	15,730	67,420	91,340	100,000
Min. Hydraulic Pressure	PSI	3,480	3,480	3,480	3,915
Max. Hydraulic Pressure	PSI	5,076	5,076	5,076	5,076
Max. Pile Weight	lbs	1,760	1,760	1,760	2,240
Excavator Weight	Ton	5.5-17	13-39	27-50	27-50



Quick-Release Piling Shackle

- Unique ground release design ensures a safe, "feet on the ground" approach to piling
- Shackle can be released without placing a worker at the top of the piling
- Pin capacity is 8 or 11 tons

Excavator Mounted Drill



- Delivers over 15,000 lb ft. of torque
- Quick connection to most excavators
- Compact, low profile allows you to easily drill under obstructions or on inclines
- Light and maneuverable with a high power-to-weight ratio
- Standard hexagonal drive shaft fits most excavators

Engineering & Field Support

Mabey's in-house engineers provide architectural or structural engineering support with PE certification when called for by your project. Clients also rely on our technical field support to provide on-site installation and expert knowledge.

If you have an engineering or technical question, **Ask Doug:** mabey.com/ask-our-engineers



Trench Shoring

Heavy Duty Trench Box

Pictured with high arch spreaders



- Tubular strut box
- Lengths from 6' to 30'
- Panels in heights of 6', 8' and 10'
- Wall thickness, 4", 6" or 8"
- High arch spreaders available for large pipe laying and jacking operations
- 4' extensions to excavate up to 42' in type C soil

Manhole Box



- Adjustable and stackable
- 4" thick double-wall construction
- Panels available in 8', 10', and 12' lengths
- 5" spreader pipes allow for standard trench widths of 8', 10', or 12'
- Rated up to 25' deep in Type C soil
- Optional cutout panels allow for easy access around utilities

Trench Shields

MOD Series

ATS Series



- Stacks flat, fits in standard pick-up truck
- Foam-filled makes box lightweight
- 2- and 4-sided configurations
- Panel height: 2' high, stackable in varying depths
- Panels lengths: 4', 6', 8', 10', 12' and 14'
- Panels from 4'x8' to 6'x16'



- Adjustable mechanical struts allow inside-box dimensions between 18" and 88"
- Lightweight, foam-filled panels easily moved by loaders / backhoes
- 2.5" thick walks

QuickBridges® *Temporary or permanent applications for short spans*

- Lifted directly from the delivery vehicle to prepared foundations – makes for fast installation
- For temporary or permanent applications
- Units come in 20', 30', 40' lengths and a standard width of 5.65'. Can be used in single or multi-span roles for bridges, ramps, or platforms
- Usage: public highways, sites, footbridge, off-road
- Complete with anti-skid surfacing



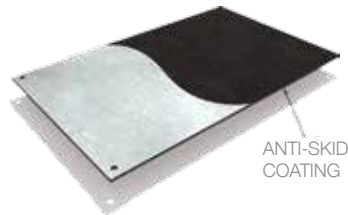
- Designed to meet AASHTO HS25-44 load specifications
- Capable of higher loads in off-road situations
- Pedestrian and vehicular railings are available



Stone Boxes: 5-15 cubic yards



Steel Road Plates



SIZE (FT)	WEIGHT (LBS)
8 x 4	1,330
8 x 8	2,660
8 x 10	3,325
8 x 12	3,990
8 x 16	5,320
8 x 20	6,540

- Standard lifting holes for safe, controlled placement
- Made of high quality, 1" thick A36 certified steel
- 1.5" thick plates (available in CA only)
- Optional anti-skid surface

Trench Crossing Units



SIZE (FT)	WEIGHT (LBS)
14.8 x 5.65	5,069

- Designed to cross wider trenches than Road Plates
- Spans up to 13.8 ft.
- Custom design and manufacture also available
- Supports up to a 48,000 lb axle load

Mabey Matting & Installation



- Length: 14' ; Width: 8'
- Weight: 1,000 lbs per mat
- 600 psi weight-bearing capacity
- Mabey Mats are made in the U.S.A.
- Minimal ground preparation necessary and loader is only equipment needed
- Mabey Mats are buoyant
- Durable, overlapping design
- Skid resistant and composite won't splinter, warp or rot
- Driving on Mabey Mats keeps rocks and soil out of vehicle tires and wheel wells. Saves clean-up and decontamination time.
- Anti-static properties keep people and vehicles safe.
- Minimal surface pressure lessens the impact on soils and vegetation.

Mabey's professional matting crews have installed hundreds of miles of matting. Their expertise allows them to expedite installation and removal of roadways and workpads, safely and efficiently with these benefits:

- Installation in all kinds of terrain and extreme weather conditions
- Crews install to meet your schedule day or night
- Minimal impact to the environment
- Mabey's expert installation team can help avoid installation damage charges

800-956-2239
mabey.com