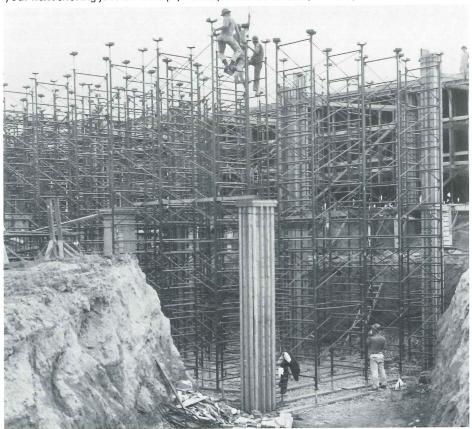


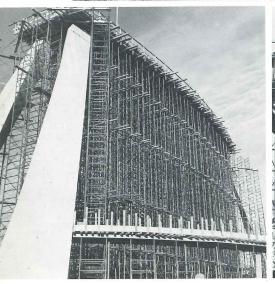
Advance 10M Heavy-Duty and 15M Hi-Capacity Shoring

... A standard of excellence in the shoring industry. Exclusive design features make ADVANCE Shoring the finest of its kind. Fast! Easy to use! Strong! Durable and long-lasting!

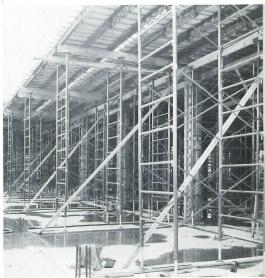
Integral locking devices assemble without tools and loose parts, resulting in reduced costs and increased job profits.

Around the world, modern construction techniques require the versatility and time-saving features of ADVANCE Shoring. Call Beaver-Advance for engineering assistance on your next shoring job. We'll help you keep costs down and profits up.

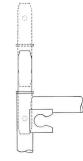






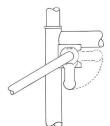


Advance Shoring Features



Stack Coupling Release

The Stack Coupling Release provides for quick and easy removal or replacement of Stack Couplings. To operate, simply press release, twist Stack Coupling and pull out. No bolts or other loose parts to get lost.



Cam Locks

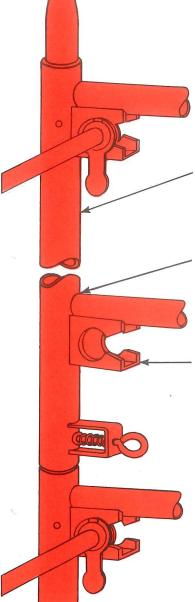
All braces are connected to panels by means of Cam Locks, welded to the ends of each brace. To assemble, hold lever in a horizontal position, slide into cam box on panel and turn lever down. Brace is securely locked to the panel without tools or loose parts.



Stack Locks

The Stack Lock securely locks vertical tiers of Advance Shoring together. No bolts or other loose parts to get lost since the Stack Lock is welded to the bottom of each panel leg.

To operate, pull out Stack Lock and slip bottom of panel leg over stack coupling on panel below. Then release Stack Lock so that it enters the hole in the stack coupling.



Leg Tubing

Advance Shoring Panels are fabricated from high strength, electric welded steel tubing for high load capacity and resistance to damage.

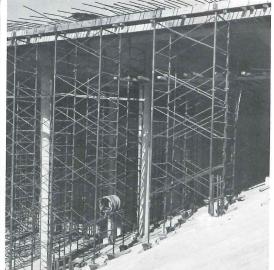
Coped Connections

All main girt to leg connections are coped and electric welded for maximum strength and durability.

Cam Box Location

Cam Boxes are welded into corners of girt and leg junction, providing increased panel strength and rigidity.



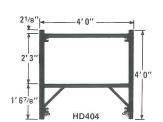




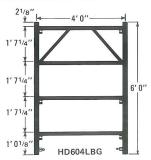
Advance 10M Heavy-Duty Shoring

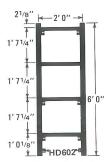
[10,000 lbs. per leg allowable load*]

Panels



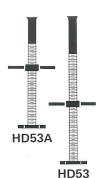






Advance 10M Heavy-Duty Shoring Panels have legs of 21/2" O.D. high strength tubing with an allowable load rating of 10,000 lbs. per leg.* Advance 10M Panels have a standard width of 4' and are available in heights of 4', 5' and 6'. Load bearing girt models (LBG) are available for supporting formwork directly on the top girt. Panels are also available in widths of 2', 3' and 5' and in heights other than 4', 5' and 6'. All 10M Panels are assembled with standard cross braces. All Shoring towers erected from 5' and 6' high panels also require stringer braces in the base section.

Accessories



Adjustable Bases

Adjustable Bases are used for leveling 10M panels and to obtain additional height. They can be inverted and used in the top of a 10M panel for adjusting and stripping formwork. They are available in four models,

Part No.	Adjustment
HD53	24"
HD53P	24" (Plated)
HD53A	17''
TIDES V D	17" (Plated)

Stack Couplings

cross bracing.

Stack Couplings are used to vertically connect and align tiers of 10M panels. They lock into the tops of panel legs by means of self-contained stack cou-





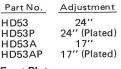
HD59

HD56

HD58

Brace Brackets

Brace Brackets are used to attach cross or lateral towers of 10M shoring. HD54 fits around shore



Foot Plates

Shoring Heads

as required.



Foot Plates, HD55, may be used at the bottom of a 10M panel leg to distribute load into footings. They can be inverted and used in the top of a 10M panel leg as a bearing surface for shoring

Shoring Heads, HD57, bolt

to Advance 10M adjustable

bases or foot plates to provide a saddle for various

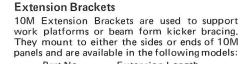
sizes of form lumber. Holes

in the unit's sides provide a

means of nailing lumber in

place. Shoring heads are al-

so available in special sizes



pling releases. Model HD51 contains a 3/16"

thick collar to evenly distribute loads from one

panel leg to another. Model HD51S has an ex-

tended collar to provide a nailing plate for tying

shoring towers together with wood stringer or

Extension

Brackets

cis alla ale ava	nable in the following inc
Part No.	Extension Length
HD62A	20''
HD62B	24''
HD62C	30''
HD63	Adjustable to 20",
	24'' and 30''

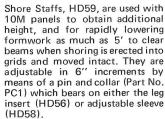
Extension Brackets are not to be used for supporting shoring loads.



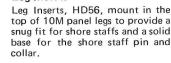
HD54

wood bracing between Bracket HD52 fits around 10M panel legs. Bracket staffs.

Shore Staffs



Leg Inserts



Adjustable Sleeves

Adjustable Sleeves, HD58, are used with shore staffs to obtain up to an additional 6" of fine adjustment for leveling and stripping forms. They insert into the top of 10M panel legs and secure in place by means of a self-contained lock/ release mechanism



Braces

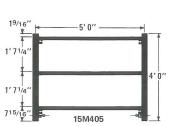
Cross Braces

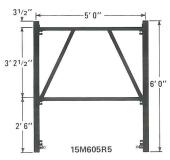
All Cross Braces are fabricated from 1" O.D. high strength tubing with selfcontained cam locks at brace ends for fast panel attachment, without tools. All 10M and 15M panels, 4' or greater in height, assemble with 4X Series Cross Braces, which are available for standard spans of 2½', 4', 5', 6', 7', 8' and 10'.

Advance 15M Hi-Capacity Shoring

[15,000 lbs. per leg allowable load*]







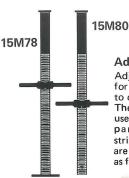
Advance 15M Hi-Capacity Shoring Panels have legs of 3" O.D. high strength tubing with an allowable load rating of 15,000 lbs. per leg. Advance 15M Panels have a standard width of 5' and are available in heights of 4', 5' and 6'. A load bearing girt model (LBG) is available for





supporting formwork directly on the top girt. Panels are also available in widths of 2% and 4' with heights of 4', 5' and 6'. All 15M Panels are assembled with standard cross braces. All shoring towers erected from 5'and 6' high panels also require stringer braces in the base section.

Accessories



Adjustable Bases

Adjustable Bases are used for leveling 15M panels and to obtain additional height. They can be inverted and used in the top of a 15M panel for adjusting and stripping formwork. They are available in four models, as follows:

Part No.

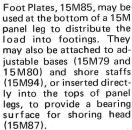
15M77 15M78 15M79 15M80

Description

With Base Plate (Plated) With Base Plate (Unplated) Without Base Plate (Plated) Without Base Plate (Unplated)

All models have 24" of adjustment.







Shoring Heads

Shoring Heads are used to provide a saddle for various sizes of form lumber. Bolt-on type, 15M87, bolts to base plate type adjustable bases (15M77 and 15M78) or to foot plates (15M85). Stem type, 15M88, attaches to adjustable bases (15M79 and 15M80), shore staffs (15M94), or inserts directly into the tops of 15M panel legs. Both models have holes in their sides to provide a means of nailing lumber in place.



Adjustable Sleeves

Adjustable Sleeves, 15M89, are used with shore staffs to obtain up to an additional 6" of fine adjustment for leveling and stripping forms. They mount over the top of the leg on any 5' and 6' high, 15M panel. They cannot be used with a 4' high, 15M panel.



15M92

15M93

Retaining Pins and Clips

Retaining Pins 15M92, and Retaining Pin Clips, 15M93, are used to connect foot plates (15M85) and shoring heads (15M88) to adjustable bases (15M79 and 15M80) or shore staffs (15M94). They may also be used to lock the foot plates and shoring heads into the tops of 15M panel legs.



15M81

Brace Brackets

Brace Brackets are used to attach cross or lateral wood bracing between towers of 15M shoring. Bracket 15M81 fits around 15M panel legs. Advance 10M Bracket, HD54, is used with 15M shore staffs.



Shore Staffs, 15M94, are used with 15M panels to obtain additional height and for rapidly lowering formwork as much as 5' to clear beams when shoring is erected into grids and moved intact. They are adjustable in 6" increments by means of pin and collar (15M91).



Pin and Collar Assemblies

Pin and Collar Assemblies, 15M91, are used to position shore staffs at their desired elevation. Shore staff load is transferred through pin to the collar, which bears on the adjustable sleeve (15M89).

15M94



Stack Couplings

Stack Couplings, 15M75, are used to vertically connect and align tiers of 15M panels. They lock into the tops of panel legs by means of self-contained stack coupling releases.

Stringer Braces

15M85

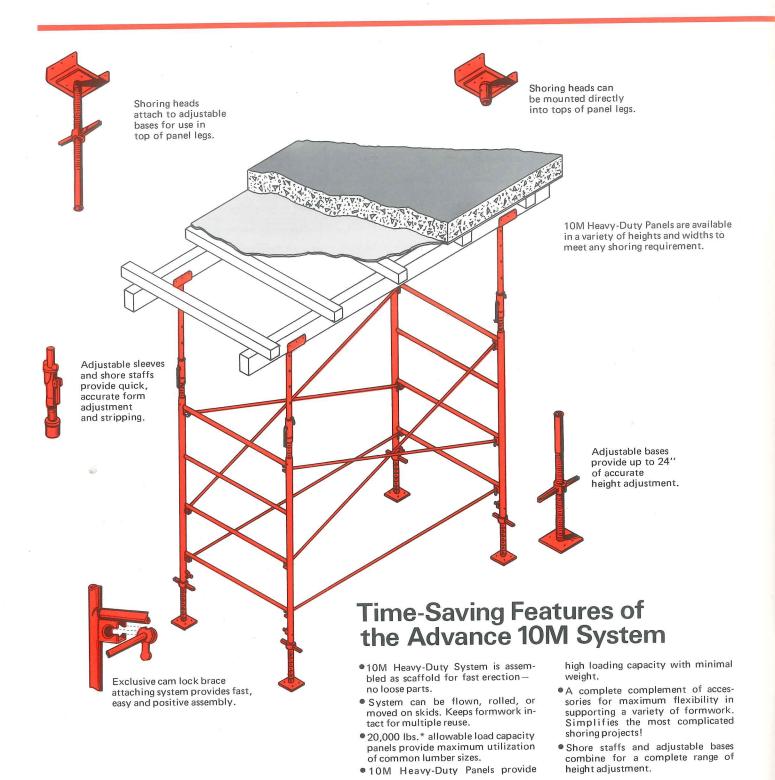
Stringer Braces are fabricated from 1" O.D. high strength tubing with self-contained cam locks at brace ends. They are used to provide stability in the base section of shoring towers constructed from 5' or 6' high panels. They are available for standard spans of 2½', 4', 5', 6', 7', 8' and 10'.

Horizontal Braces

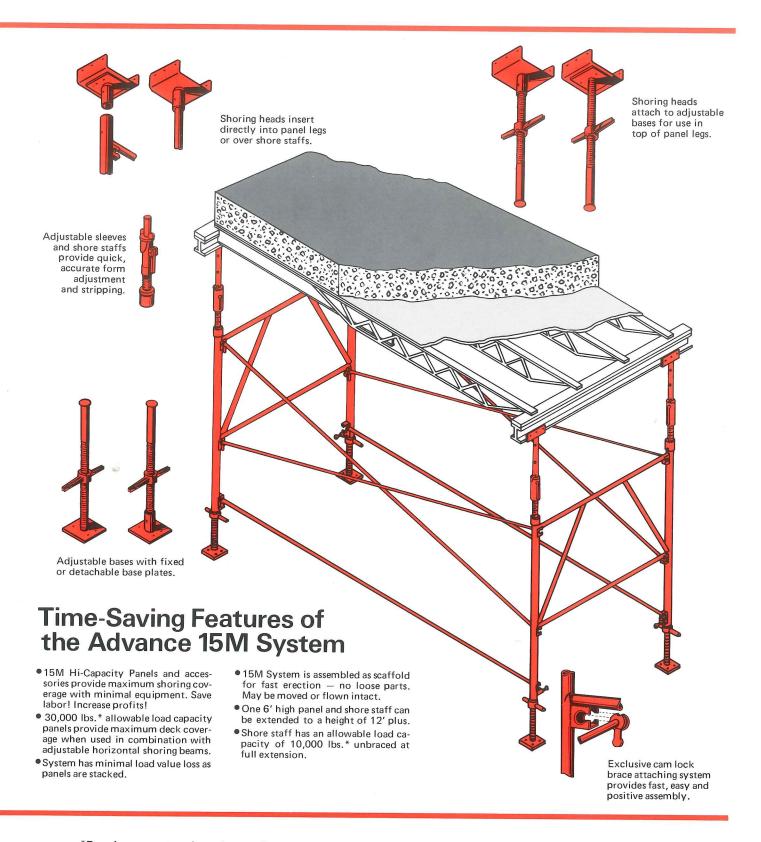
Horizontal Braces are fabricated from 1¼" O.D. high strength tubing with a self-contained locking mechanism at brace ends. They are placed in a horizontal, diagonal position across bays or sections of shoring towers to provide extra rigidity.

*Based on tests conducted according to the Scaffolding and Shoring Institute's recommended testing procedures. Allowable panel leg loads vary according to panel size, height to which shoring is erected, and adjustable base and shore staff extension. Consult Beaver-Advance for load ratings of panels and accessories under specific conditions.

Shoring with 10M



Shoring with 15M



^{*}Based on tests conducted according to the Scaffolding and Shoring Institute's recommended testing procedures. Allowable panel leg loads vary according to panel size, height to which shoring is erected, and adjustable base and shore staff extension. Consult Beaver-Advance for load ratings of panels and accessories under specific conditions.

Steel Frame Shoring Safety Rules

As recommended by Scaffolding and Shoring Institute

(See separate Scaffolding Safety Rules and Recommended Steel Frame Shoring Erection Procedure).

Following are some common sense rules designed to promote safety in the use of steel frame shoring equipment. These rules are illustrative and suggestive only, and are intended to deal only with some of the many practices and conditions encountered in the use of steel frame shoring. The rules do not purport to be all-inclusive or to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. They are not intended to conflict with, or supersede, any state, local, or federal statute or regulation; reference to such specific provisions should be made by the user. (See Rule II.)

- I. POST THESE SHORING SAFETY RULES in a conspicuous place and be sure that all persons who erect, dismantle or use, shoring frames are aware of them.
- II. FOLLOW ALL STATE, LOCAL AND FEDERAL CODES, ORDINANCES and REGULATIONS pertaining to shoring.
- III. INSPECT ALL EQUIPMENT BEFORE USING. Never use any equipment that is damaged.
- IV. A SHORING LAYOUT Shall be available on the jobsite at all times.
- V. INSPECT ERECTED SHORING AND FORMING: a) Immediately prior to pour; b) During pour; c) After pour until concrete is set.
- VI. CONSULT YOUR SHORING EQUIPMENT SUPPLIER WHEN IN DOUBT. Shoring is his business, NEVER TAKE CHANCES.
- A. USE MANUFACTURER'S RECOMMENDED SAFE WORKING LOADS CONSISTENT WITH the type of SHORING FRAME and the height from supporting sill to formwork.
- B. DO NOT EXCEED THE SHORE FRAME SPACINGS OR TOWER HEIGHTS as shown on the shoring layout.
- C. SHORING LOAD SHOULD BE CARRIED ON LEGS. Consult your shoring supplier for SHORING FRAMES that are designed for taking loads on top horizontal.
- D. IF MOTORIZED CONCRETE EQUIPMENT is to be used, be sure that the shoring layout has been designed for use with this equipment and such fact is noted on the layout.
- E. PROVIDE AND MAINTAIN A SOLID FOOTING to distribute maximum loads properly.
- F. USE ADJUSTMENT SCREWS to adjust to uneven grade conditions.
- G. USE ADJUSTMENT SCREWS to level-off, to accurately position the falsework and for easy stripping.
- H. KEEP SCREW EXTENSIONS to a minimum for maximum load carrying capacity (follow manufacturer's recommendation of screw extension).
- I. MAKE CERTAIN THAT ALL ADJUSTMENT SCREWS are firmly in contact with sills, formwork and frame legs.

- J. PLUMB AND LEVEL ALL SHORING FRAMES as the erection proceeds. DO NOT force braces on frames to fit level the shoring towers until proper fit can be made easily. CHECK PLUMB AND LEVEL OF SHORING TOWERS just prior to pour.
- K. FASTEN ALL BRACES SECURELY.
- L. TIE HIGH TOWERS OF SHORING FRAMES TOGETH-ER with sufficient braces to make a rigid, solid unit (see manufacturer's recommendations).
- M. EXERCISE CAUTION in erecting or dismantling free standing shoring towers to prevent tipping.
- N. DO NOT CLIMB CROSS BRACES.
- O. AVOID ECCENTRIC LOADS ON U-HEADS, top plates and similar members by centering stringers on those members.
- P. USE SPECIAL PRECAUTIONS when shoring from or to sloped surfaces.
- O. USE LUMBER STRESSES as shown on layout and consistent with age, type and condition of the available lumber to be used. Use only lumber that is in good condition.
- R. RESHORING PROCEDURE SHOULD BE APPROVED BY A QUALIFIED ENGINEER.
- S. DO NOT REMOVE BRACES OR BACK-OFF ON AD-JUSTMENT SCREWS until proper authority is given.

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