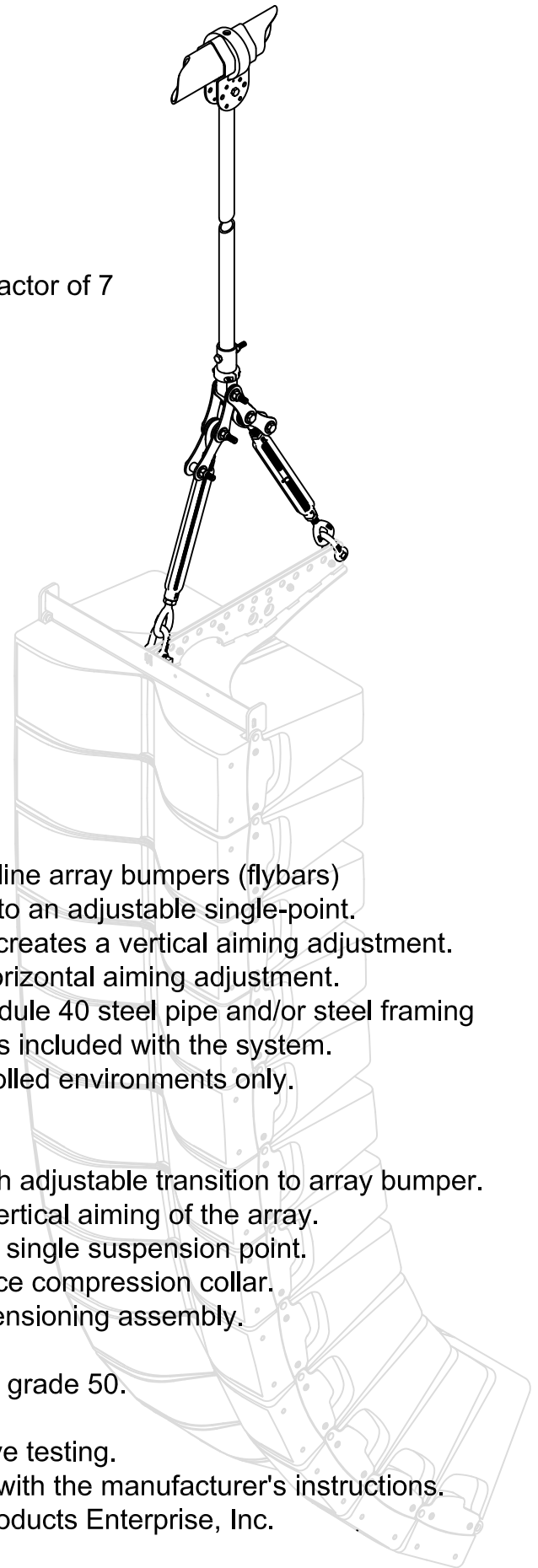


# BUMPER Boost™

Line Array Bumper Accessory

- 1000 pound Working Load Limit with a minimum safety factor of 7
- Vertical and Horizontal array aiming under load
- Integrated pick points for hoist

[www.aperigging.com](http://www.aperigging.com)



## DESCRIPTION

BUMPER Boost™ is an adjustable transition assembly for line array bumpers (flybars). It enables a transition from two fixed points on the bumper to an adjustable single-point. Adjusting the leg lengths forming the transition, effectively creates a vertical aiming adjustment. A swivel in line with the single suspension point enables horizontal aiming adjustment. The system is used in conjunction with user-provided schedule 40 steel pipe and/or steel framing systems like Unistrut. A safety cable tensioning assembly is included with the system. APE systems are intended for indoor, non corrosive, controlled environments only.

## A & E SPECIFICATIONS

The line array suspension system shall be single-point, with adjustable transition to array bumper. Adjustable leg lengths forming the transition shall control vertical aiming of the array. Horizontal array aiming shall be via a swivel in line with the single suspension point. The swivel, once adjusted, shall be lockable with a two piece compression collar. Slack in safety cable shall be removed using an included tensioning assembly. Its machined components shall be AISI 1018 CF steel. Its sheet metal components shall be ASTM A-1011 HSLAS grade 50. All cap screws shall be grade 8 minimum. All published load ratings shall be established by destructive testing. The system shall be fitted to the array in strict accordance with the manufacturer's instructions. The system shall be a BUMPER Boost™ by Advantage Products Enterprise, Inc.

# BUMPER Boost™

Working Load Limit 1000 lbs. with a minimum safety factor of 7

The distance between the shackle pins must not exceed 20 inches.

The Pipe Stem will always be directly above the CG of the array, regardless of vertical aiming angle.

Review next page to determine if the BUMPER Boost™ suits your application.

## Gimbal Assembly

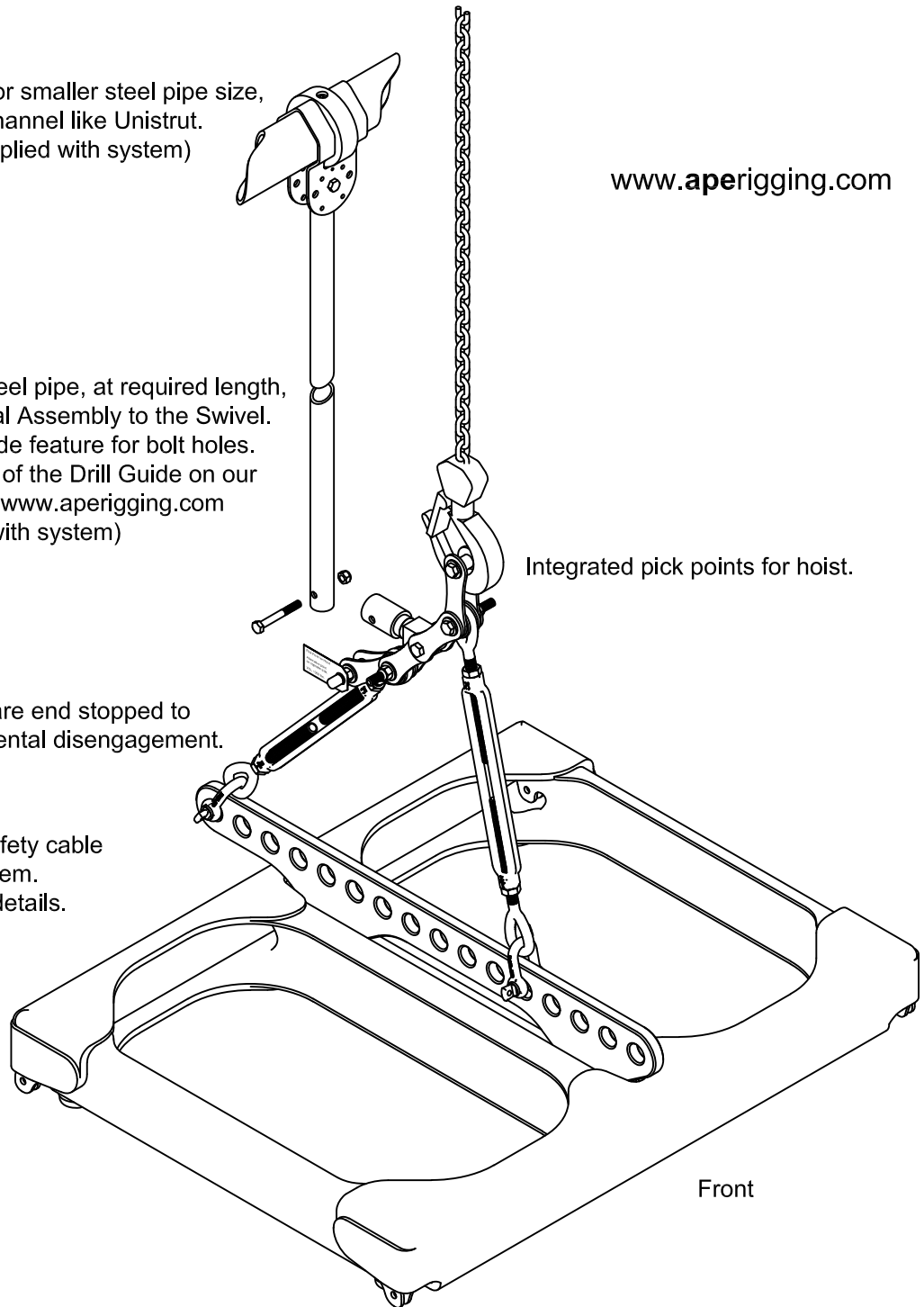
Accepts 2" (2.375" O.D.) or smaller steel pipe size, as well as Strut System channel like Unistrut. (pipe and channel not supplied with system)

## Pipe Stem

3/4" schedule 40 steel pipe, at required length, connects the Gimbal Assembly to the Swivel. Gimbal has drill guide feature for bolt holes. See the proper use of the Drill Guide on our website homepage [www.aperigging.com](http://www.aperigging.com) (pipe not supplied with system)

Turnbuckles are end stopped to prevent accidental disengagement.

A tensioning assembly for safety cable is also included with this system. See product instructions for details.



[www.aperigging.com](http://www.aperigging.com)

Integrated pick points for hoist.

Front

System requires two suspension points on the bumper that are positioned along the centerline similar to those shown.

# BUMPER Boost™

Review the array manufacturer's array modeling software (EASE or similar) to find the Center of Gravity (CG) of your array.

The BUMPER Boost™ requires two shackle points, one forward of the line shown and one behind.

The line represents points in space that are directly above the Center of Gravity (CG) of the array. Each shackle should be as far from the line as possible, without exceeding the 20" max spacing specified on page 2.

For line arrays that will require a rear pull up to accomplish the required down angle, the use of the BUMPER Boost™ may not be an option without the use of adaptors.

Contact APE with the exact details of your array so we can determine if there is a workaround.

The Pipe Stem will always be directly above the CG of the array, regardless of vertical aiming angle.

