

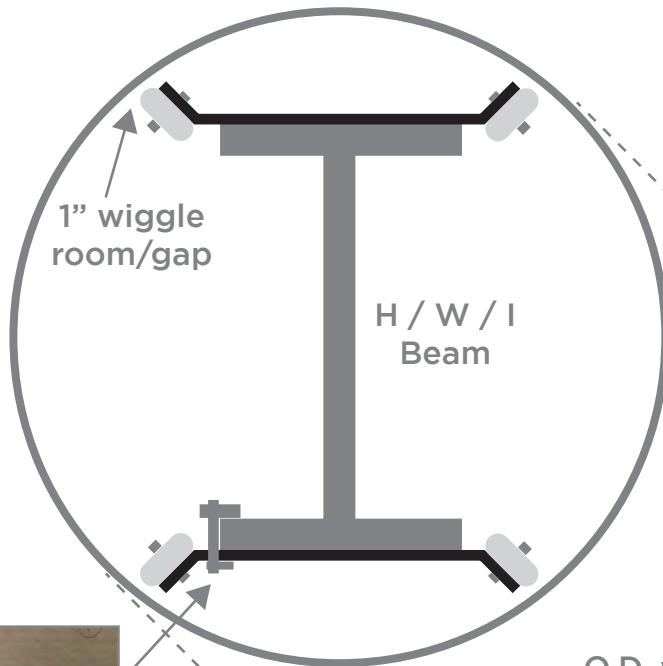


pile protection tops

Option 3 Centralizer for "H" "W" or "I" Beams

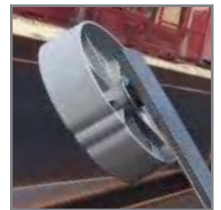
A system to center beams with "legs" welded or bolted on and with wheels bolted onto the bent flanges.

You provide the beam width and depth, we'll determine what size legs, bent angles, and wheels you need to center your beam smoothly into your shaft.



If bolting on with clamp tabs, please specify flange thickness for bolt/nut/washer fit and count.
Ex: W27x102

O.D. with casing wall thickness or Shaft I.D.



We use HD Wheels with a 2" thickness for strength due to beam weight.

**Feel free to use or produce your own "Legs," tabs, and bolts.
And please come to us for your spacer wheel needs!**

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Centering your W, H or I beams in large diameter shafts, caissons or secant piles.

“OP3” or “Option 3” has evolved from a customer’s simple question – “How would you center an H, I or W beam within a vertical shaft?” I thought it over for some time and tested steel rings welded onto the FLANGE side of beam, then the DEPTH edges placed on top of each other. (See Fig. 1) This works ok, but with uncased shafts they can cut or dig into walls in soft soil conditions. That design evolved into a ring bent at the correct angle to weld to the WEB and outer edges of the FLANGE producing more lateral strength (See Fig. 2). Same possible issue, too thin of contact edge gouging into uncased walls of soft soil.

NOW “OP3”: Using HD spacer/cage wheels

System One: If given beam and shaft size are within the needed range of cover (2” to 6”), axle bolts for wheels can be welded on or holes drilled through flange for mounting. Again, off set on top of each other if wheel diameter is larger than the flange width. (See Fig. 3).

System Two: When reach or cover between beam and shaft wall needs extended, a flat arm can be used for placement of wheels (See Fig. 4). Small issue, only the corner of the HD wheel makes contact with the shaft wall.

System Three: Arms that are bent/broke at the correct angle allowing the HD wheels set flush to the shaft walls, greatly eliminating contamination in uncased shafts.

See drawing and images on first page.

We can fabricate ARMS to your specifications; plus supply nuts, bolts, nuts and washers if needed. You’re welcome to produce them on your own if it better fits timing, costs and eliminating freight. We just ask that you use us (PPT) as your wheel supplier.



Fig. 1

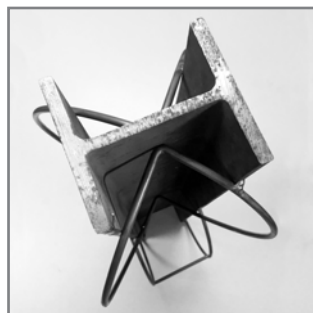


Fig. 2

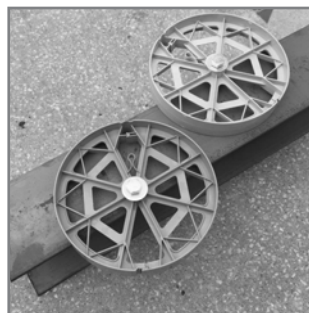


Fig. 3



Fig. 4

**PPT has helped design and produce several of these systems
in a wide range of sizes and applications with very good results.
Please call with any questions or email needs for a fast accurate estimate.**