



ISI cone screens are a rugged and reliable self-cleaning screen solution for challenging intake conditions. Designed to provide maximum screen area for any given water depth, we offer cone screens in a wide variety of sizes and drive types to suit the needs of your site.

The mechanical brushing action prevents debris buildup, sedimentation, biofouling, and increased head loss at the screen. ISI cone screens are a proven technology for irrigation, municipal, and industrial water supplies.



HOW IT WORKS

The screen unit consists of a conical-shaped wedgewire screen, an external brush cleaning system, and brush drive assembly with controls. Gravity, siphon, or pumping is used to convey water through the screen.

The screen is sized to achieve low approach and through-screen velocities to meet head loss and fish protection requirements and minimize debris accumulation.

Screen configurations can be customized to include steel or concrete bases, piping, and slide gates as appropriate for the site.

Brush-cleaning frequency and duration is programmed to meet site conditions using the provided control panel (excluding turbine drive screens).

Flow rates up to 60 cfs (26,930 gpm; 38.8 MGD; 6,116 m³/h) from a single screen with the opportunity to have multiple screens at a site.

Screen slot sizes ranging from 0.5 to 9-mm.

Brush-cleaning drive types to best suit site conditions: electric, hydraulic (can be solar powered), and turbine.

Screen materials including Type 304 and 316 stainless steel with custom materials available (e.g., 2507 super duplex stainless steel).

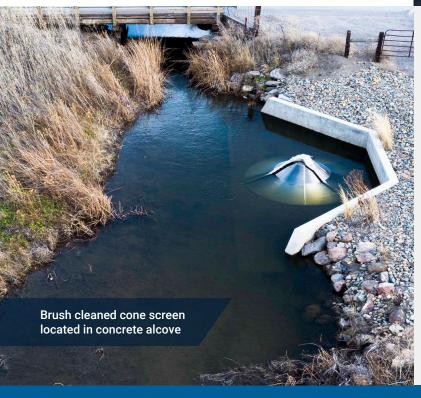
Sized to be compliant with state, federal, and international fish protection requirements.

Optional riverine flow baffle distributes flow evenly across the screen surface.

Control panel to match customer equipment and remote monitoring and control needs.

Sediment jetting systems and screen depth adjustment rings provided as optional equipment.

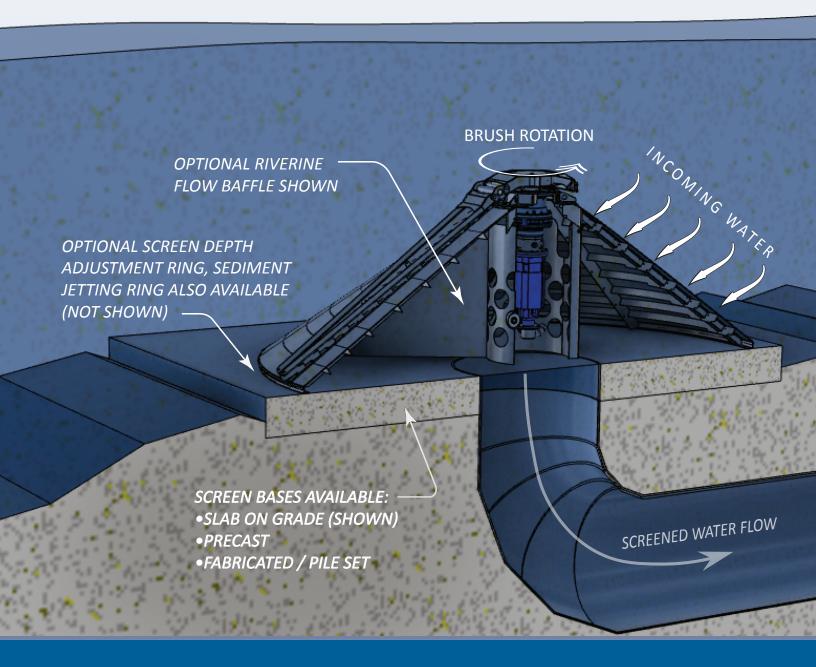




BENEFITS

- ideal solution for shallow water rivers and streams, tidal estuaries, backwater areas, silty conditions, and heavy debris.
- **Designed to exceed** fish protection requirements
- **Protects pump** and other downstream equipment from clogging debris
- **Low head loss,** low maintenance, and minimal power input
- **Easy installation** and removal

SCREEN DESIGN & OPERATION



DESIGN AND OPERATION SUPPORT

Working with ISI means access to over 25 years of experience in intake screen design and fabrication including design-build project delivery. Detailed documentation on operation and maintenance provided with all ISI screens.

On-site installation guidance and operator training available.

