

HAYER & BOECKER



NIAGARA

T-CLASS VIBRATING SCREEN



HAYER & BOECKER NIAGARA

T-CLASS SPECIFICATIONS



The premium Niagara T-Class two-bearing vibrating screen offers a high degree of versatility and can be configured to almost any application and customer preference.

- Concentric shaft assembly provides a range of speed and stroke combinations to accommodate a variety of loads and tonnages.
- Pre-engineered components allow for easy re-configuration based on customer requirements and material applications.
- Robust body design, featuring non-welded side plates, promotes machine longevity.
- The flanged shaft housing features Huck bolts on either side to maintain the factory seal between the shaft housing and side plate.
- Reinforcing plate, formed with 90 degree vertical edges, creates side plate stiffness by tying the upper and lower decks together to resist side plate deflection.

APPLICATIONS

Scalping
Dedusting
Classifying
(wet or dry)

INDUSTRIES

Aggregates
Mining
Minerals

T-CLASS SPECIFICATIONS

SPECIFICATIONS

| CLASS | WIDTH | LENGTH | DECKS | CUT RANGE | TOP SIZE | CAPACITY IN TPH | BEARINGS | INCLINATION | LUBRICATION | ACCELERATION |
|-------------------|-------|--------|-------|--------------|-----------|-----------------|----------|-------------|-------------|--------------|
| T | 4' | 8' | 1-3 | 4" - 20 mesh | 4" minus | Up to 300 | 2 | 20° | Grease | 3.8 - 4.2g |
| | | 12' | | | | | | | | |
| | 5' | 12' | | | | | | | | |
| | | 16' | | | | | | | | |
| | 6' | 12' | | | | | | | | |
| | | 16' | | | | | | | | |
| | | 20' | | | | | | | | |
| | 8' | 16' | 1 | 6" - 20 mesh | 16" minus | Up to 800 | | | | |
| 20' | | | | | | | | | | |
| 24' | | | | | | | | | | |
| T (Twin Shaft) | 8' | 24' | 2-3 | 6" - 20 mesh | 16" minus | Up to 1200 | 2 + 2 | 20° | Grease | 3.8 - 4.2g |
| | 10' | 20' | 2 | | | | | | | |
| | 10' | 24' | | | | | | | | |

SCREEN MEDIA

The T-Class can be engineered with a flat deck for modular screen media panels, including pin & sleeve, snap-in, groove or bolt-down fastening systems; a cambered deck for side-tensioned screen media with a single or double crown; or end-tensioned screen media. Proper screen media selection virtually eliminates blinding and pegging. Blending screen media on a single deck helps increase production and extend periods between screen change-outs.

| | MODULAR FOR FLAT-DECK | SIDE-TENSIONED FOR CAMBERED DECK | END-TENSIONED |
|-------------------------|-----------------------|----------------------------------|---------------|
| POLYURETHANE | • | • | |
| HYBRID | • | • | |
| PERFORATED PLATE | • | • | |
| RUBBER | • | • | |
| WOVEN WIRE | • | • | • |
| SELF-CLEANING | • | • | • |



NIAFLOW PLANT SIMULATION SOFTWARE

NIAflow is a tool used to design new mineral processing plants, or optimize existing plants, to predict production based on input tonnage, material characteristics and equipment set-up. Download your free copy at www.niaflow.com.

T-CLASS VIBRATING SCREEN ANATOMY

REINFORCING PLATES

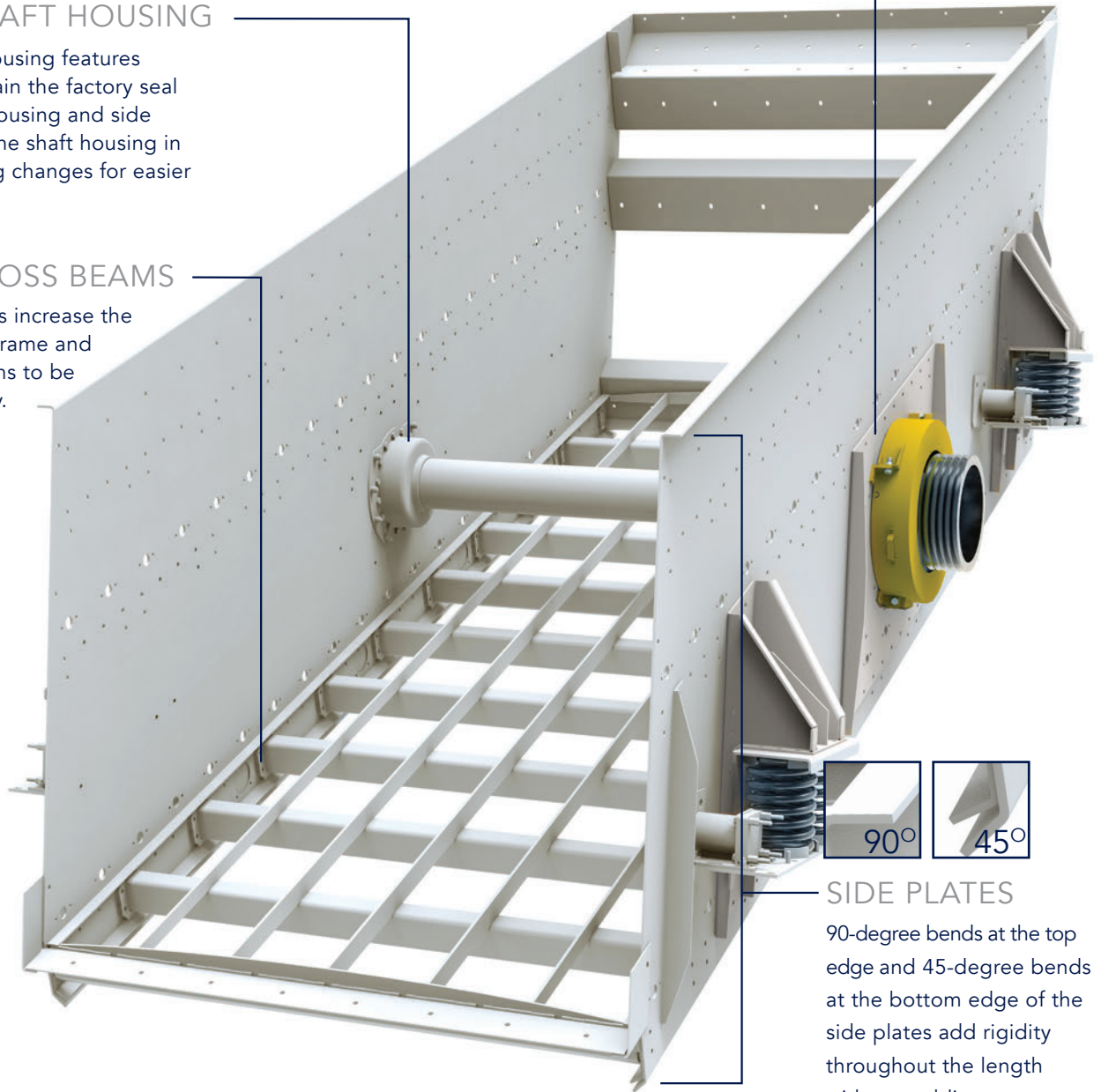
Reinforcing plates are located behind the bearing housing to sandwich the reinforcing plate, side-plate, shaft housing and flanged cross beam together without welding, adding strength.

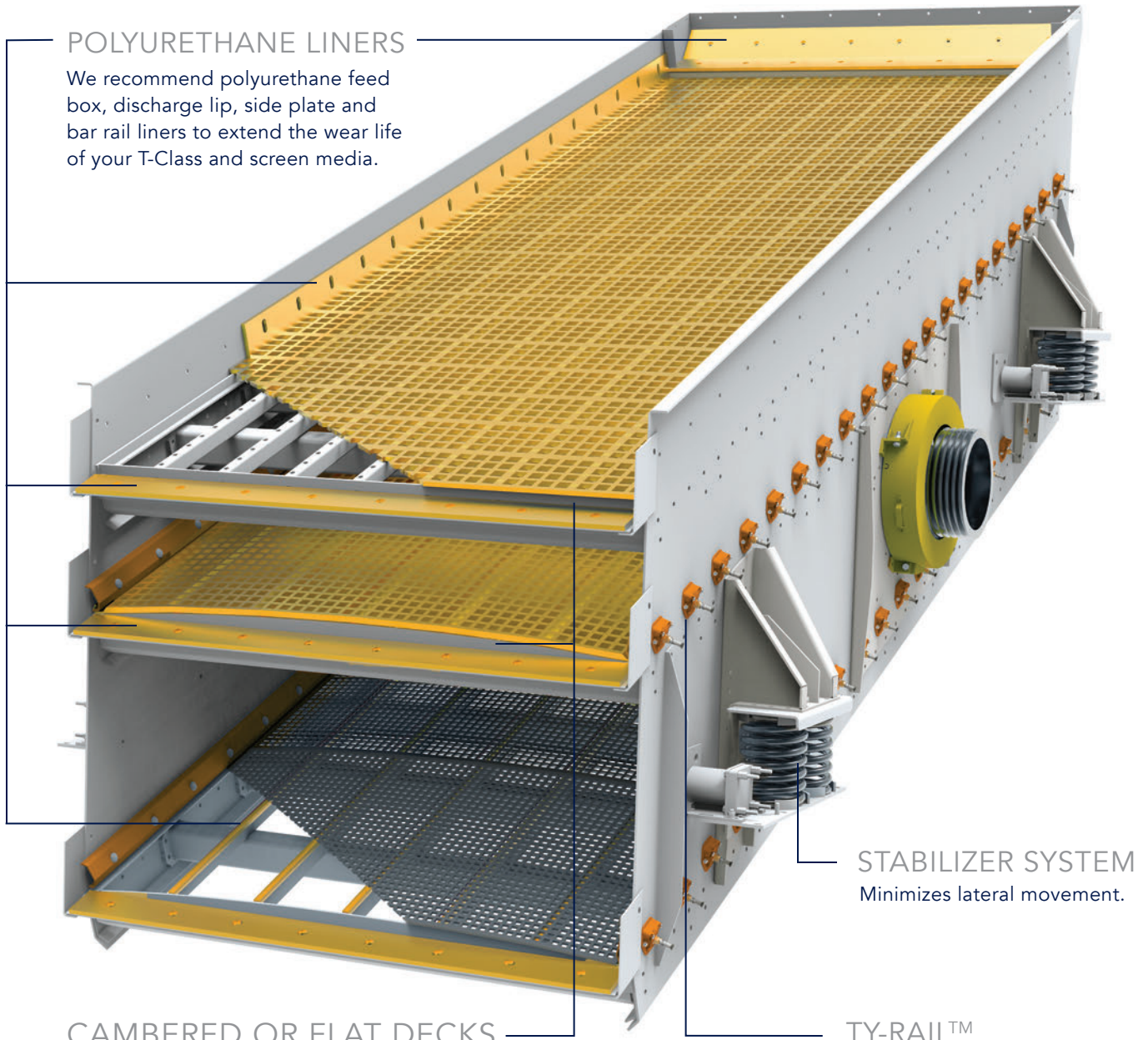
FLANGED SHAFT HOUSING

The flanged shaft housing features Huck bolts to maintain the factory seal between the shaft housing and side plate. It also holds the shaft housing in place during bearing changes for easier maintenance.

FLANGED CROSS BEAMS

Flanged cross beams increase the rigidity of the deck frame and allow the cross beams to be changed individually.





POLYURETHANE LINERS

We recommend polyurethane feed box, discharge lip, side plate and bar rail liners to extend the wear life of your T-Class and screen media.

CAMBERED OR FLAT DECKS

The T-Class can be customized with cambered or flat decks to accommodate virtually any combination of tensioned or modular screen media.

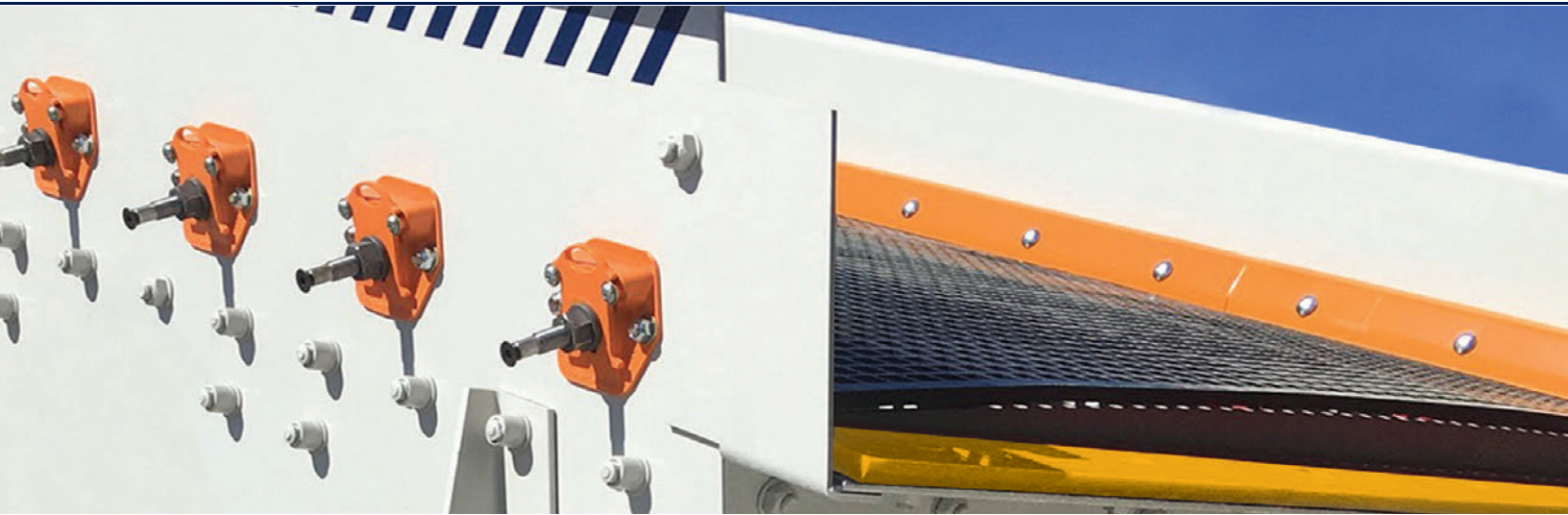
STABILIZER SYSTEM

Minimizes lateral movement.

TY-RAIL™

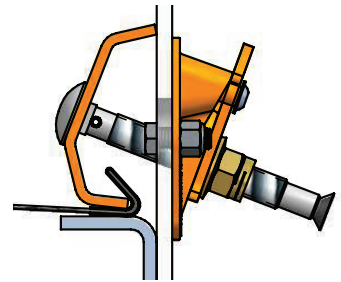
All cambered decks come complete with the patented Ty-Rail quick-tensioning system.

T-CLASS ACCESSORIES



TY-RAIL™

Every side-tensioned deck on an T-Class machine is engineered with Ty-Rail. The patented quick-tensioning system cuts screen change-out time in half; drastically reducing costly downtime, and improving productivity and profit, for a fast return on investment.



UPGRADE OPTIONS

■ POLYURETHANE LINERS

Polyurethane feed box, side plate, discharge lip and bar rail liners extend the wear life of your T-Class and screen media.

■ SPRAY SYSTEM

Effectively wash or rinse dirty or contaminated materials during the screening process.

■ DUST SEAL

Reduce dust emissions on vibrating screens.

■ BASE FRAME

Available if required for machine support.

■ BALL TRAYS

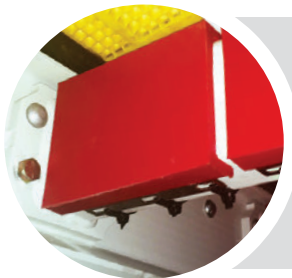
Minimize blinding and pegging, and ensure sharper cuts; best for classification of fine and agglomerated material; available for wire cloth screen media applications only.

■ LUBRICATION SYSTEM

Automated system supplies lubricant at required intervals to eliminate manual greasing.

■ FINES HOPPER

Fits beneath the vibrating screen to collect under-size material.



ZIP GUARD

Installing Zip Guard liners on the cross beams of your T-Class machine will reduce wear; extending the life of your machine and minimizing maintenance time.

T-CLASS SERVICE



PULSE VIBRATION ANALYSIS SERVICE

Enhance screening operations with Pulse, Haver & Boecker Niagara's innovation in vibration analysis technology. Pulse is designed for analyzing the health of all vibrating screen brands. It detects irregularities that could translate into diminished performance, decreased efficiency, increased operating costs and imminent breakdowns. We use Pulse to understand an operation's screening challenges, then work with our customers to optimize the screening operation.

- Detailed reports contain OEM recommendations for maximizing screening efficiency and minimizing unscheduled downtime.
- Onsite training gives maintenance departments the skills and confidence necessary to maintain a productive operation.

UPTIME 3-YEAR WARRANTY

The industry's only 3-year warranty program offers preventative services and repair coverage on new equipment purchases with approved applications.

- Full-service approach to equipment optimization — from parts inspection and equipment assessment to screen media evaluation.
- Complete with two regularly scheduled annual service visits by Haver & Boecker Niagara certified technicians who use Pulse vibration analysis and implement a comprehensive asset management program tailored to the equipment and environment.



PORTABLE PLANT



WHY USE AN INCLINED MACHINE ON A PORTABLE PLANT?

A circular motion inclined vibrating screen uses gravity to help move material down the screen deck, reducing pegging as well as energy and horsepower requirements. There are differences in the rate of material travel between an inclined and horizontal machine. At 45 to 50 feet per minute (and at a specific tonnage) a horizontal screen will experience diminished capacity due to a greater bed depth. Alternatively, on a 20-degree incline and at 70 to 75 feet per minute travel rate, an inclined screen will deliver up to 25% more capacity than a linear-stroke horizontal machine.

FEATURES

- Custom-built chassis combines a vibrating screen along with periphery equipment, such as crushers and conveyors
- Hydraulic system allows for set-up in 30 minutes, positioning the screen at an optimal angle of 20 degrees
- Optional end-tension bottom deck available for easier maintenance and increased throughput

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