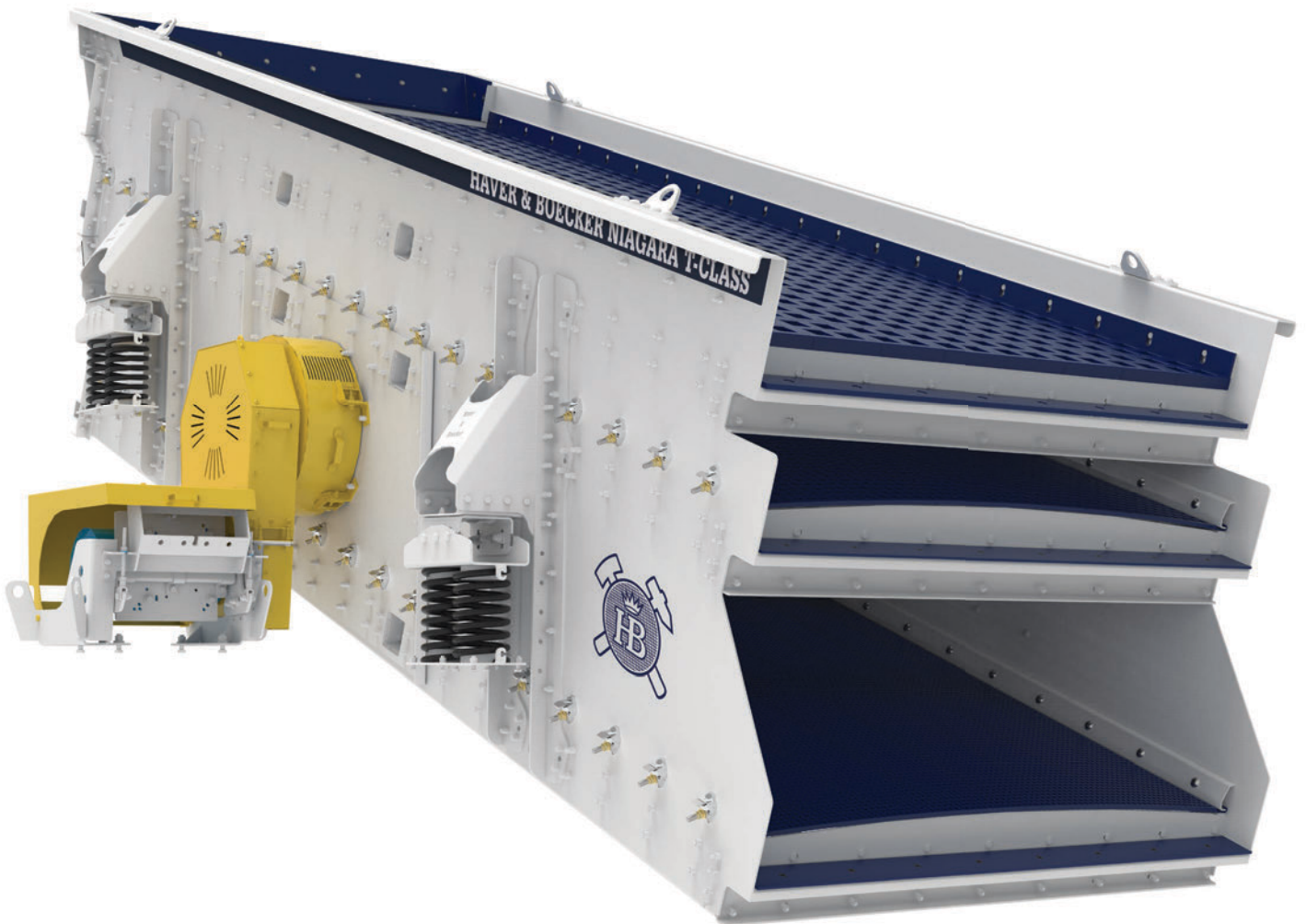


**HAYER & BOECKER**



NIAGARA

## **T-CLASS** VIBRATING SCREEN

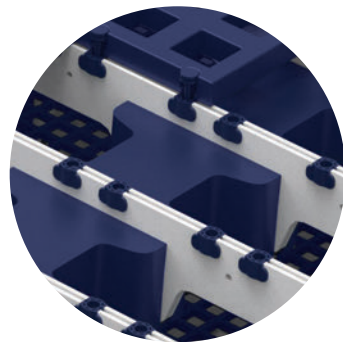


The Niagara T-Class concentric vibrating screen offers versatility in virtually any application.



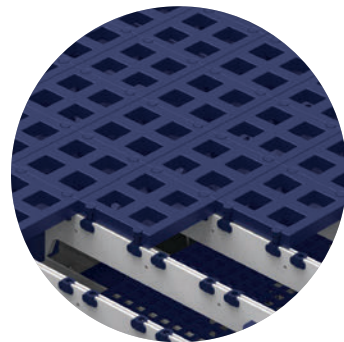
### MAINTENANCE FRIENDLY DECK FRAME

- Lockbolted to withstand high-vibration and ensure the machine's structural integrity.



### DROP GUARD

- Provides 100% cross beam protection and requires no tools or hardware for installation or removal.



### MULTIPLE SCREEN MEDIA HOLD-DOWN SYSTEMS

- Offered in a variety of configurations to adapt to virtually any modular screen media.

## MAINTENANCE-FRIENDLY DECK FRAME

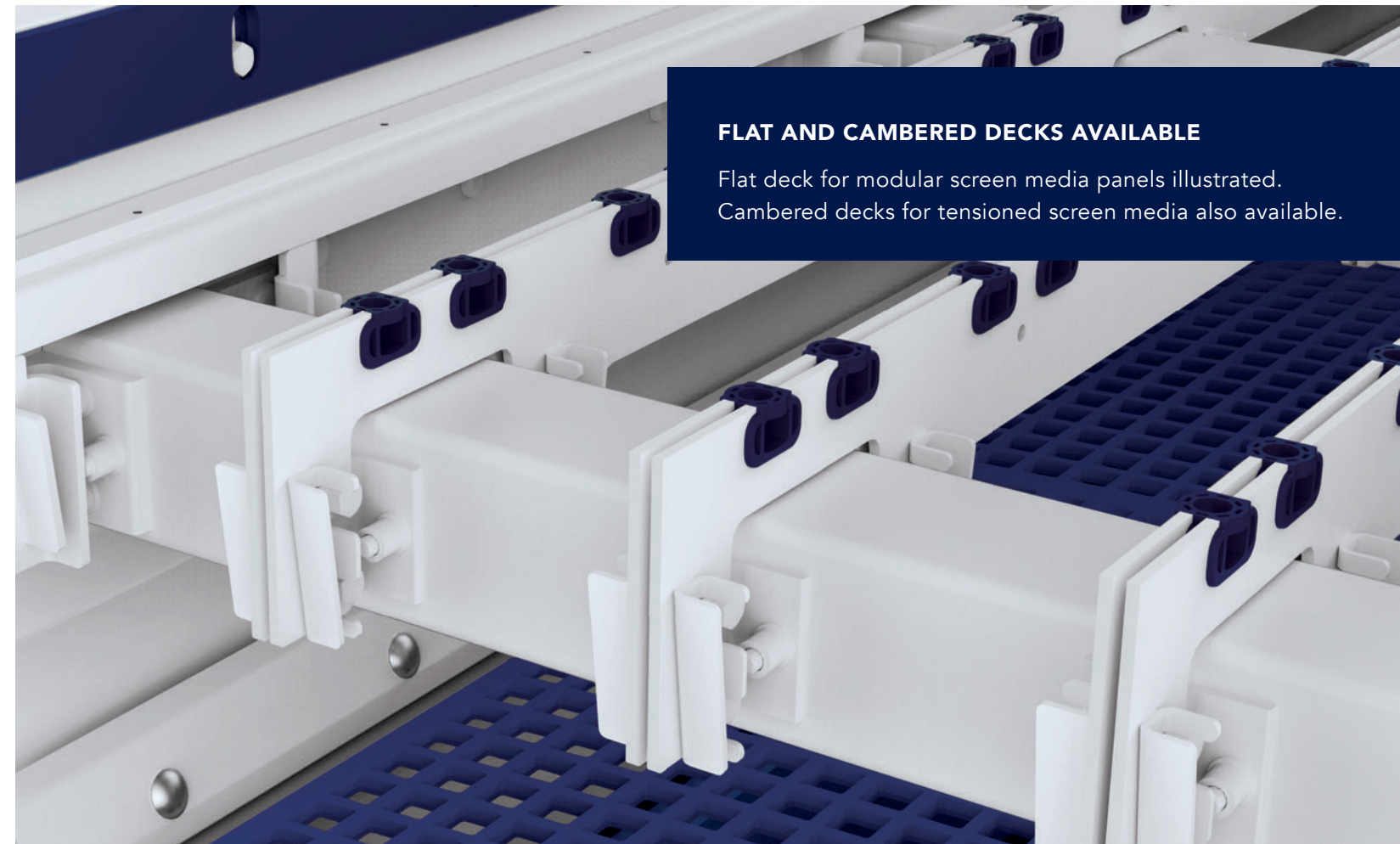
The T-Class' deck frame is lockbolted rather than welded. Lockbolts are proven to be more effective than welding in the demanding, load-bearing, high-vibration operation of a vibrating screen to ensure the machine's structural integrity.

Bar rails are fastened to the cross beams with lockbolts, making them easy to exchange if they become worn.

Cross beams are positioned every four feet rather than every two feet for optimal material movement through the vibrating screen with less wear.

Fastening with vibration-resistant lockbolts instead of welding offers five key benefits to maintain your vibrating screen:

- **SAFETY**  
Eliminates potential welding accidents from cutting or grinding, and the chance of fire.
- **SAVING**  
Does not require a costly, skilled welder for installation.
- **SIMPLICITY**  
Easy to install.
- **STRUCTURAL INTEGRITY**  
Provides a high level of vibration resistance, ensuring strong joints with no welding fatigue.
- **SPEED**  
Up to 50% faster installation and maintenance.

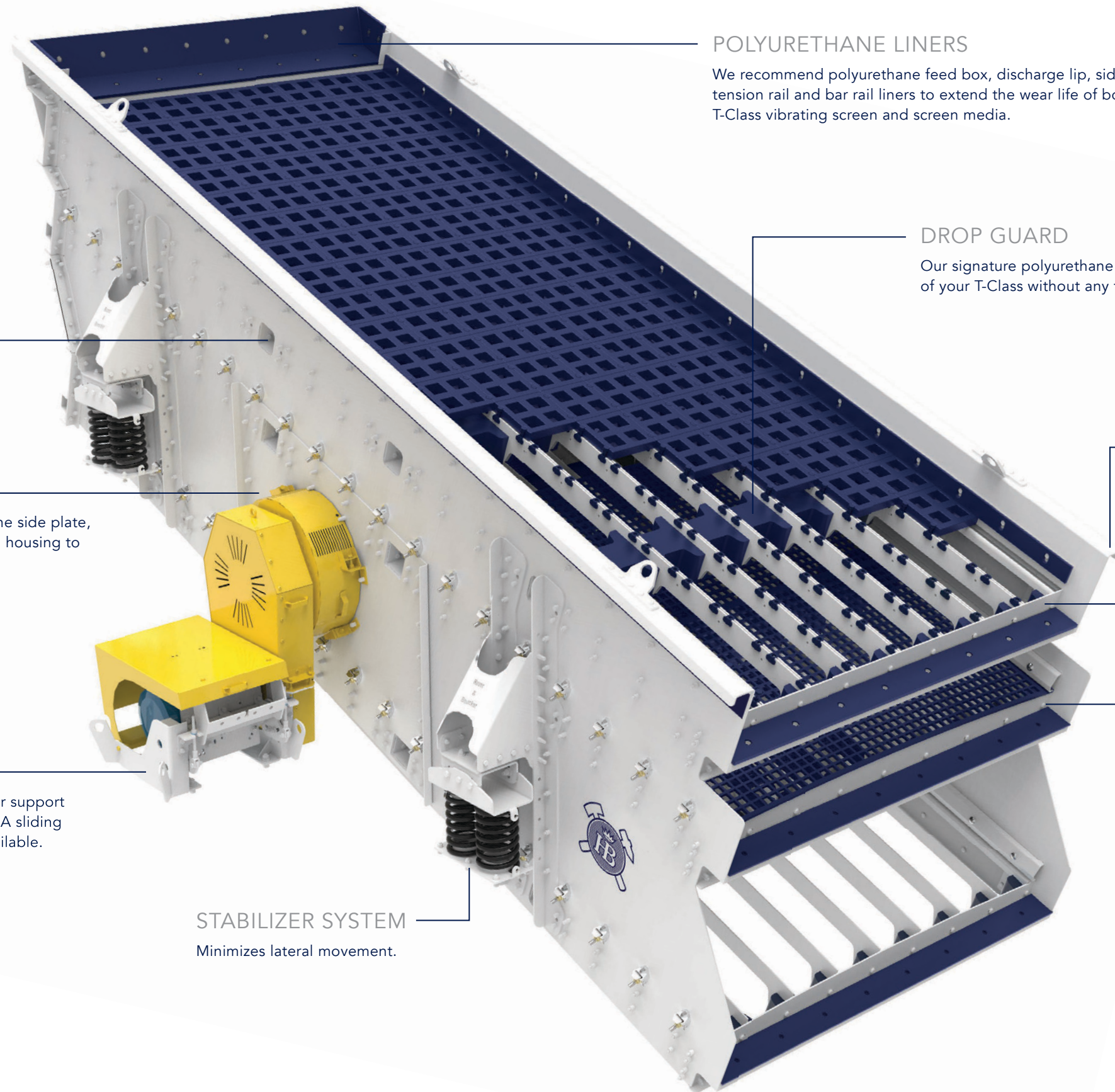


### FLAT AND CAMBERED DECKS AVAILABLE

Flat deck for modular screen media panels illustrated. Cambered decks for tensioned screen media also available.



# T-CLASS VIBRATING SCREEN ANATOMY



## POLYURETHANE LINERS

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

## DROP GUARD

Our signature polyurethane liners protect the cross beams of your T-Class without any tools or installation hardware.

## LOCKBOLT SECURED

Proven more effective in the demanding, load-bearing, high-vibration operation of vibrating screens to ensure structural integrity.

## REINFORCING PLATES

Reinforcing plates are sandwiched together with the side plate, shaft housing and cross beams behind the bearing housing to add strength to the side plate without welding.

## SIDE PLATES

180-degree bends at the top edge and 45-degree bends at the bottom edge add rigidity throughout the length of the side plates without welding.

## 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.

## MOTOR SUPPORT

We recommend a pivoting motor support to maintain proper belt tension. A sliding motor support option is also available.

## STABILIZER SYSTEM

Minimizes lateral movement.

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



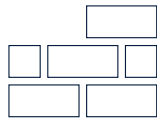
**MINING**



**FERTILIZER & SALT**



**AGGREGATES & MINERALS**



**CEMENT & BUILDING PRODUCTS**

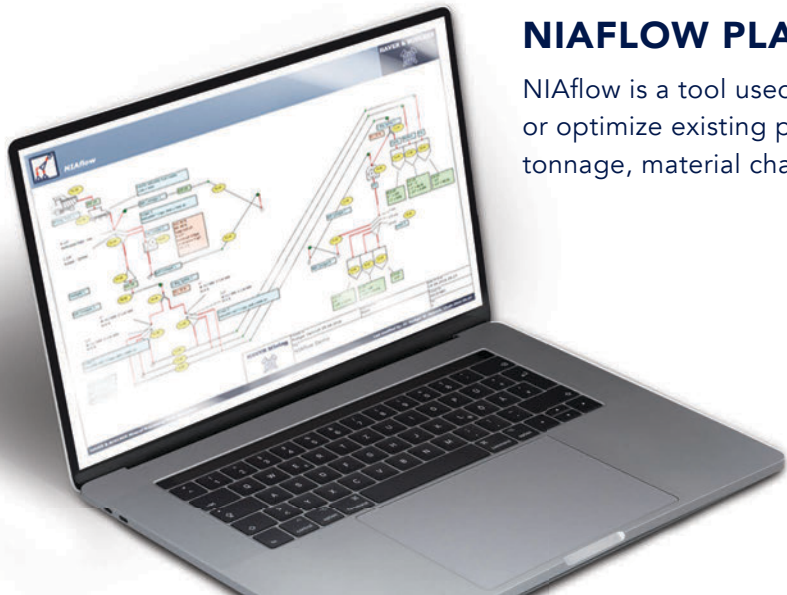


**RECYCLING**

The T-Class has successfully optimized screening in numerous industries and applications. Our engineering team works with our signature NIAflow plant simulation software to size the T-Class according to your specifications.

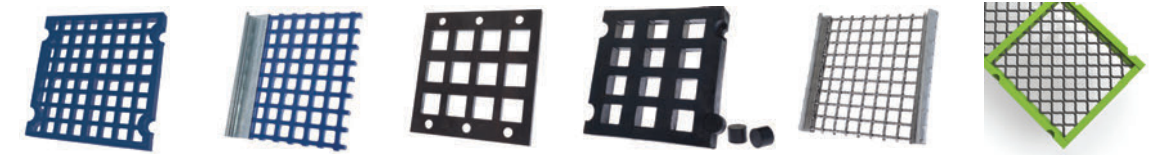
## NIAFLOW PLANT SIMULATION SOFTWARE

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 setup.



## SCREEN MEDIA OPTIONS

All T-Class vibrating screens can be engineered with flat decks for modular screen media panels, including pin & sleeve, snap-in, groove or bolt-down fastening systems; cambered decks for side-tensioned screen media, with a single or double crown; end-tensioned screen media; or a combination of all three.



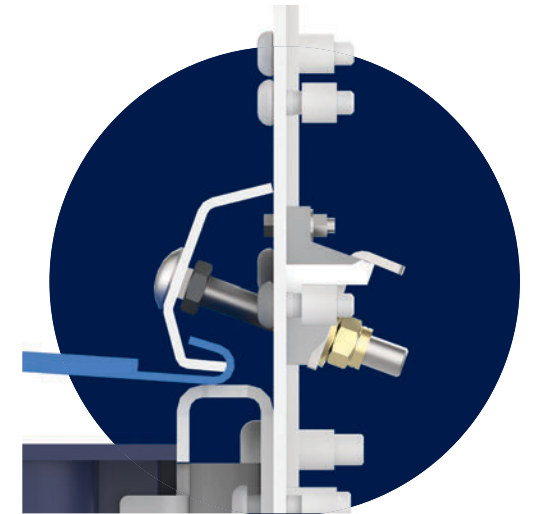
	POLYURETHANE	HYBRID	PERFORATED PLATE	RUBBER	WOVEN WIRE	SELF-CLEANING
<b>MODULAR/FLAT-DECK</b>	●	●	●	●	●	●
<b>SIDE-TENSIONED/CAMBERED DECK</b>	●	●	●	●	●	●
<b>END-TENSIONED BOTTOM DECK</b>					●	●

## TY-RAIL™ FOR SIDE-TENSIONED MEDIA ON CAMBERED DECKS

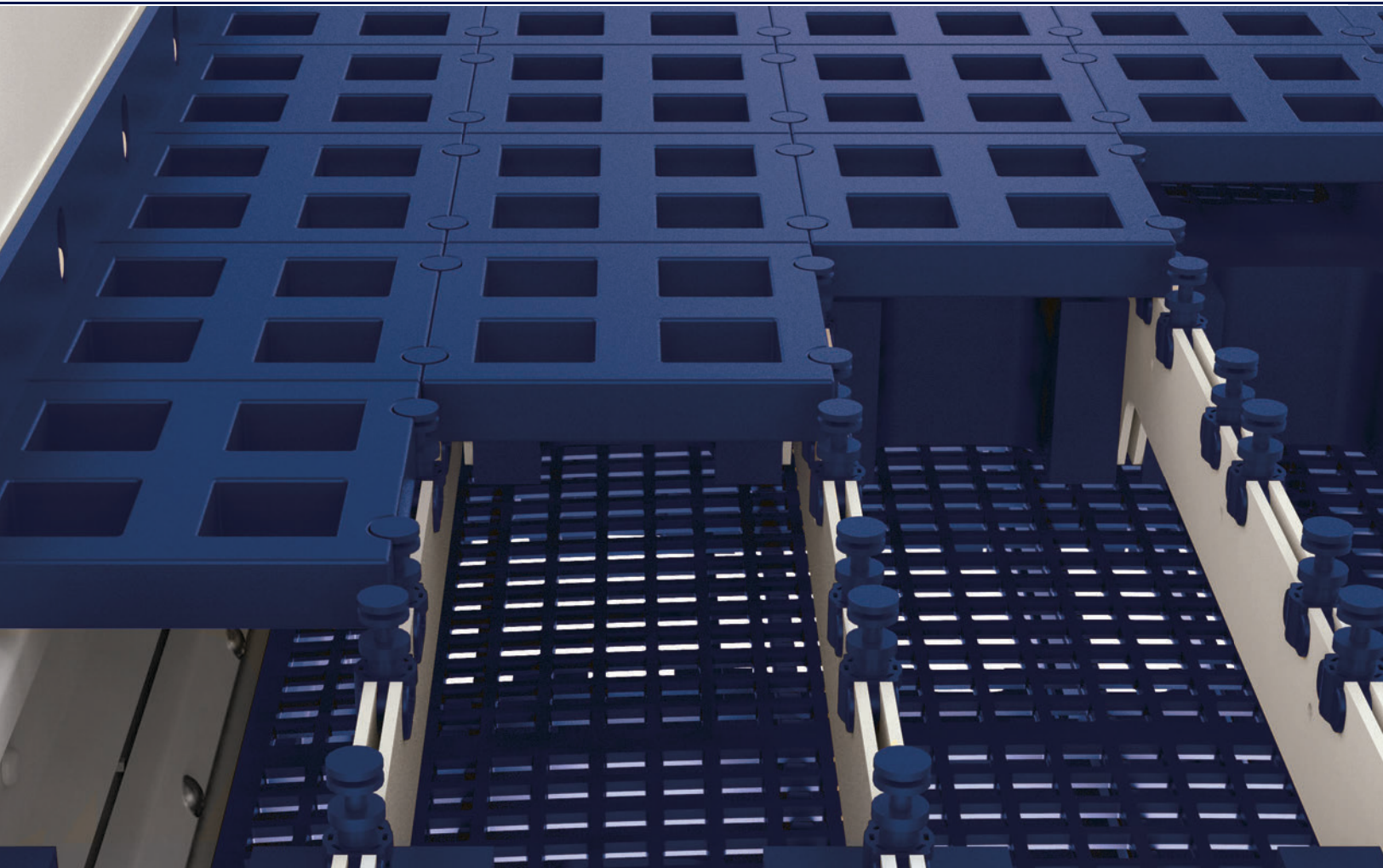
Every side-tensioned deck on an T-Class is engineered with Ty-Rail. Each rail, and all of the hardware, work together as a single, removable assembly. The patented, quick-tensioning system cuts screen change-out time in half, drastically reducing costly downtime, and improving productivity and profit.

### HOW IT WORKS

1. Loosen tension bolts and shift locking plates up.
2. Lift the tension rail out.
3. Change the screen media section.
4. Move tension rail back into place.
5. Shift the locking plates down and tighten tension bolts.

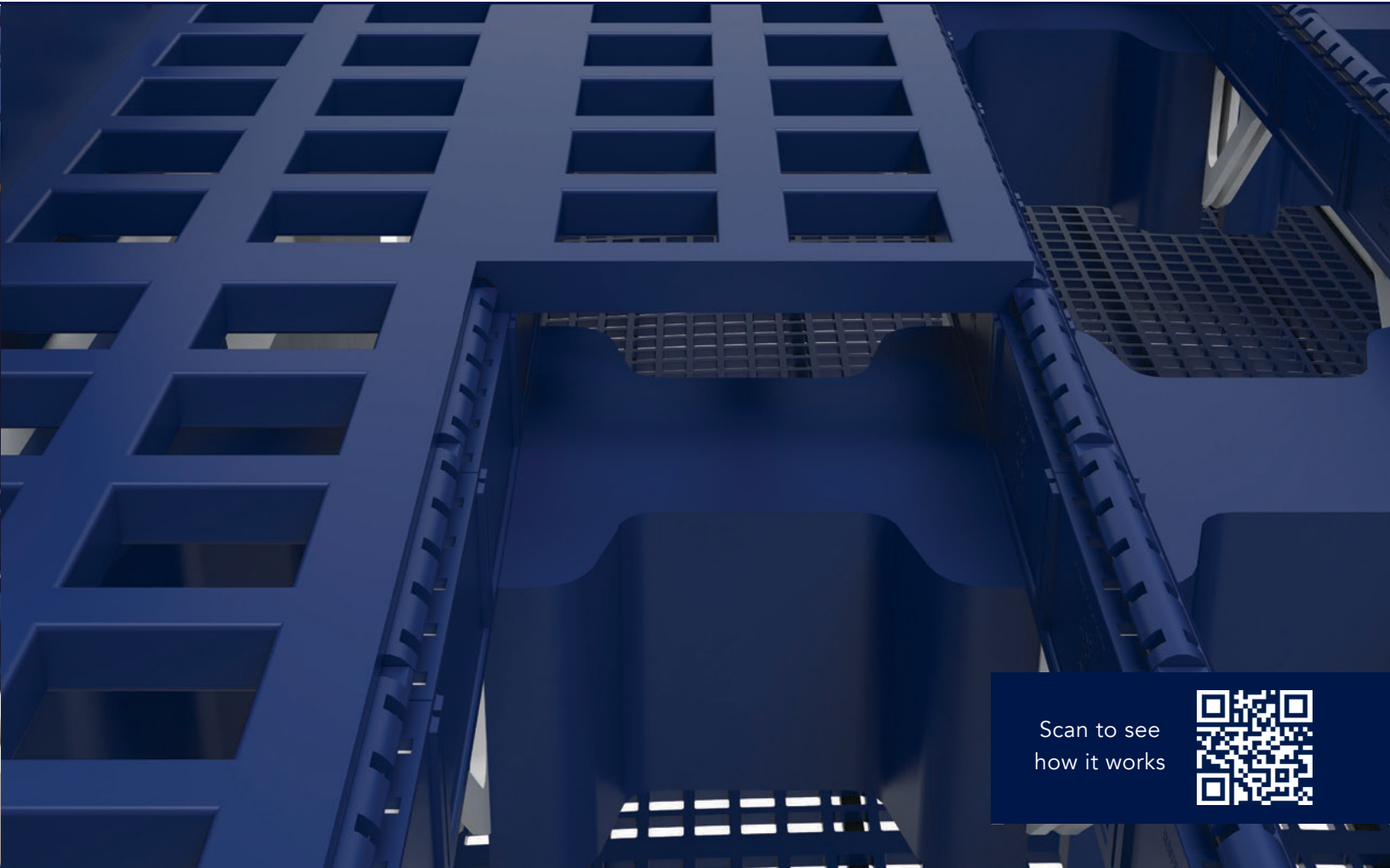






**PIN & ANCHOR DECK FRAME FOR MODULAR PIN STYLE PANELS**

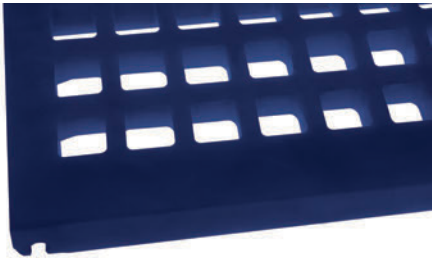
Every pin style flat deck on an T-Class is engineered with our pin & anchor deck frame. The polyurethane anchors prevent premature wear on the deck frame and are easy to replace. The deck frame is adaptable to virtually any pin style modular screen media.



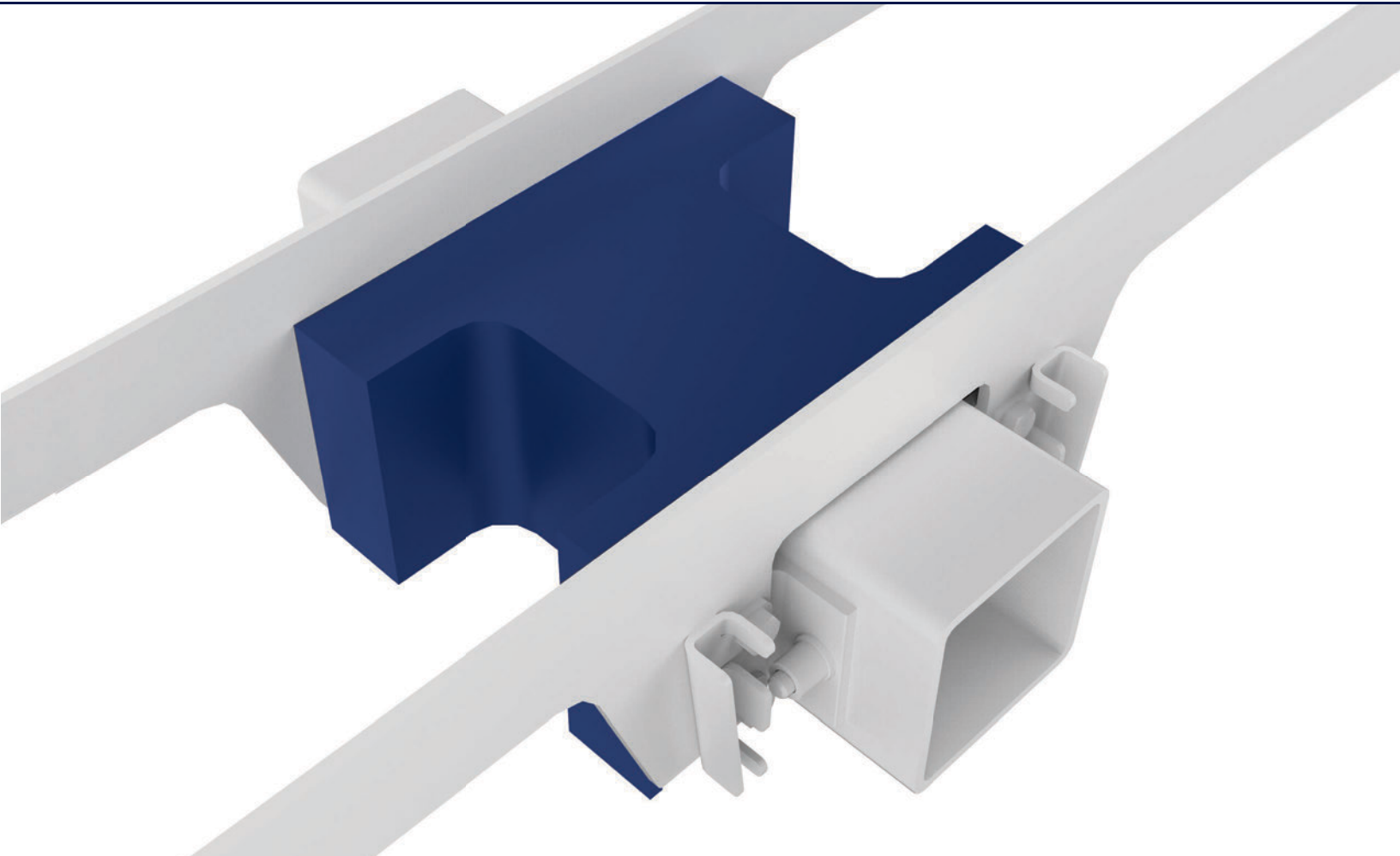
**CAP & SLIDE DECK FRAME FOR MODULAR GROOVE STYLE PANELS**

Each groove style flat deck on a T-Class is engineered with our cap & slide deck frame. The specialty deck frame offers full rail protection and easy installation. It is adaptable to virtually any groove style modular screen media.

**ADDITIONAL MODULAR PANEL HOLD DOWN SYSTEMS AVAILABLE**







### NIAGARA DROP GUARD

The revolutionary Niagara Drop Guard polyurethane liner will protect the cross beams of your T-Class to reduce wear and extend the life of your machine. Best of all, the liners require no tools or hardware for installation or removal.

### ■ POLYURETHANE LINERS

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

### ■ SPRAY SYSTEM

The T-Class can effectively be used for wet screening applications with the addition of a spray system.

### ■ STATIONARY DUST ENCLOSURE

Reduces dust emissions.

### ■ AUTO 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.

### ■ BALL TRAYS

Reduce blinding and pegging and ensure sharp cuts; best for classification of fine material; available for wire cloth screen media applications only.

### PULSE IMPACT TEST

The Pulse Impact Test ensures each machine is properly calibrated to avoid operating in resonance for efficient operation. Operating in resonance can diminish productivity, incur damage to vibrating screens and pose safety risks.

### PULSE VIBRATION ANALYSIS

Pulse Vibration Analysis (Pulse VA) is designed to examine the health of any vibrating screen by detecting irregularities that could translate into diminished performance, decreased efficiency, increased operating costs and imminent breakdowns.

### PULSE CONDITION MONITORING

Pulse Condition Monitoring (Pulse CM) is the next level in the Pulse portfolio. Similar to Pulse VA, the condition monitoring software analyzes data to help users get the most out of their equipment. Unlike vibration analysis, Pulse CM is installed permanently on each vibrating screen for 24/7 equipment monitoring.



# T-CLASS VIBRATING SCREEN



## PROCHECK

PROcheck is Haver & Boecker Niagara's consultative process designed to help operations maximize productivity, proficiency and profits. We will work with your team to find the best blend of processing technologies to help solve material handling challenges and improve your bottom line.

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