

HAVER & BOECKER



NIAGARA

TY-RAIL™ QUICK-TENSIONING SYSTEM



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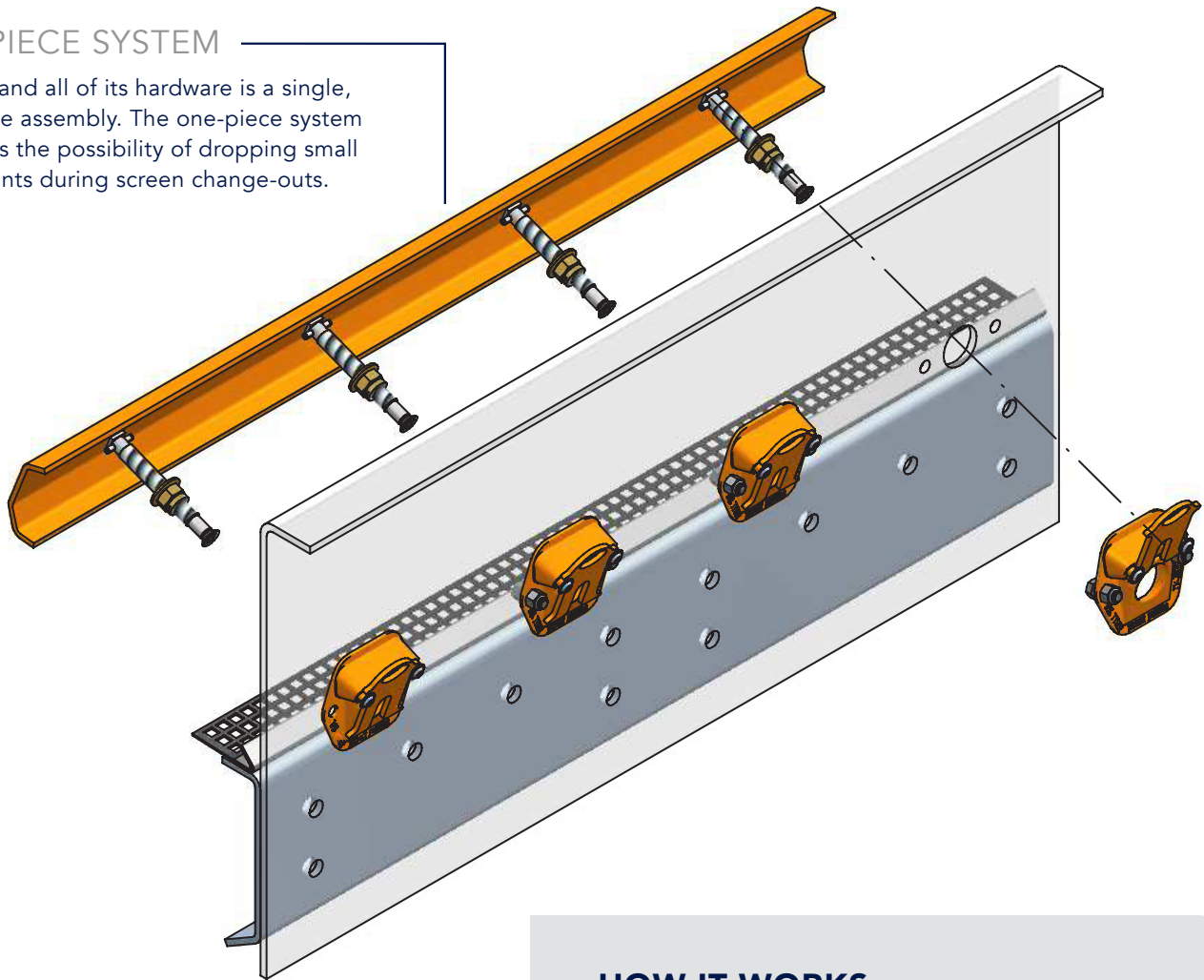
TY-RAIL™ QUICK-TENSIONING SYSTEM

The patented Ty-Rail™ 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.

Ty-Rail is designed to fit Niagara and Tyler side-tensioned vibrating screens and is standard on each machine. Ty-Rail can also be installed when refurbishing older Niagara or Tyler machines that have 3-bend tension rails.

ONE-PIECE SYSTEM

Each rail and all of its hardware is a single, removable assembly. The one-piece system eliminates the possibility of dropping small components during screen change-outs.



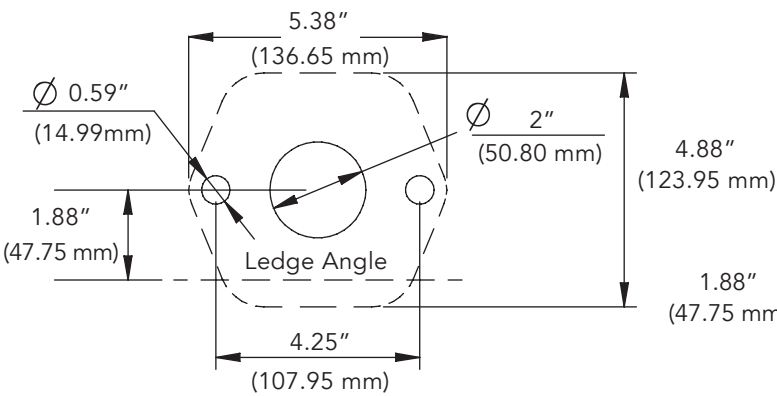
HOW IT WORKS

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

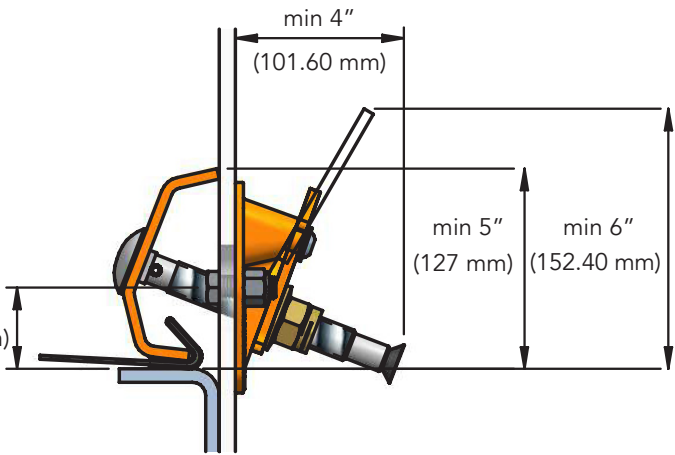
MEASUREMENT GUIDE

To determine if Ty-Rail can be installed on other brands of vibrating screens, please consult the measurement guide below.

BOLT PATTERN ON SIDE-PLATE

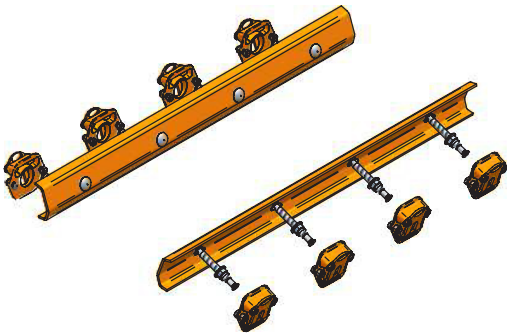
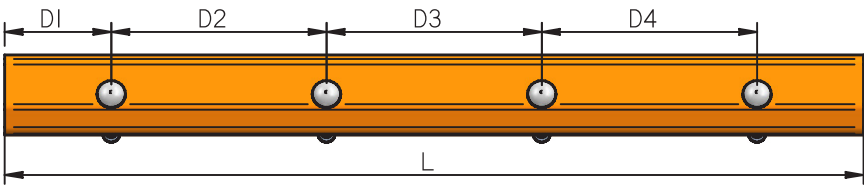


INSTALLATION AND OPERATION CLEARANCE



TY-RAIL ORDERING INFORMATION

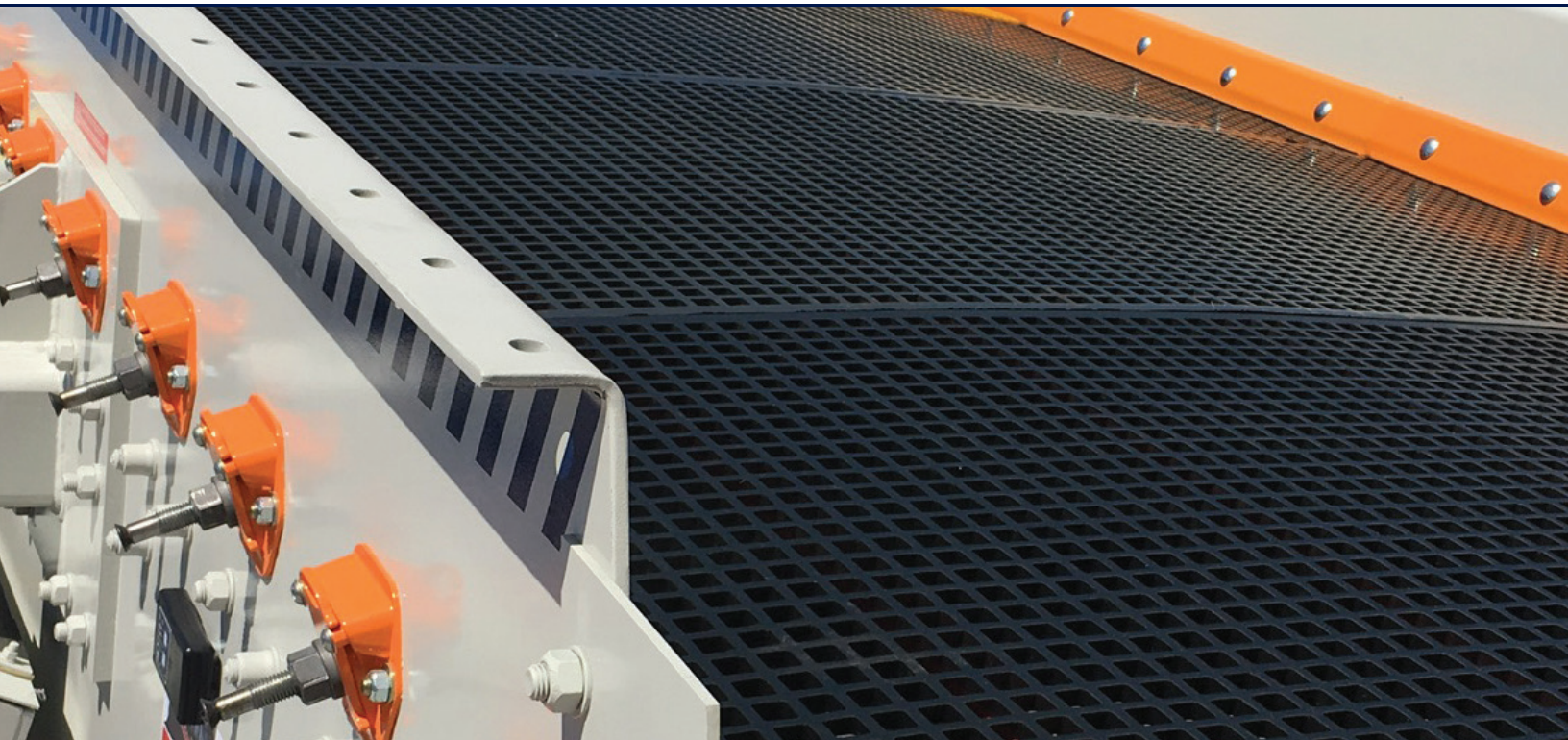
Each Ty-Rail kit contains two tensions rails along with all of the bolts and angle boxes required to tension one 4-foot (1.22m) or 5-foot (1.52m) section.



| | TENSION RAIL DIMENSIONS | | | | | | |
|-------------------|-------------------------|----|----|----|----|----|----|
| | L | D1 | D2 | D3 | D4 | D5 | D6 |
| SCREEN POSITION 1 | | | | | | | |
| SCREEN POSITION 2 | | | | | | | |
| SCREEN POSITION 3 | | | | | | | |
| SCREEN POSITION 4 | | | | | | | |
| SCREEN POSITION 5 | | | | | | | |
| SCREEN POSITION 6 | | | | | | | |

Standard tension rails are available in 48" (1,219.20mm) and 60" (1,524mm) length with 12" (304.80mm) spacing.

TY-RAIL™ QUICK-TENSIONING SYSTEM



CALCULATE ROI WITH TY-RAIL

CALCULATE ADDITIONAL TONS PER YEAR WITH TY-RAIL

$$\begin{array}{ccccccc} \text{_____} & \times 30 = & \text{_____} & \div 60 = & \text{_____} & \times & \text{_____} \text{ TPH} = \text{_____} \\ \text{HOW MANY SCREEN SECTIONS} & & \text{MULTIPLY BY 30 TO DETERMINE} & & \text{DIVIDE BY 60 TO DETERMINE} & & \text{HOW MANY TONS PER HOUR} \\ \text{DO YOU CHANGE OUT PER YEAR?} & & \text{MINUTES SAVED} & & \text{HOURS SAVED} & & \text{DOES YOUR OPERATION PRODUCE?} & & \text{ADDITIONAL TONS} \\ & & & & & & & & \text{PER YEAR WITH TY-RAIL} \end{array}$$

CALCULATE ADDITIONAL SALES PER YEAR WITH TY-RAIL

$$\begin{array}{ccc} \text{_____} & \times & \text{_____} = \text{_____} \\ \text{ENTER YOUR ADDITIONAL} & & \text{WHAT IS YOUR SELLING} & & \text{THE TOTAL EQUALS THE ADDITIONAL SALES} \\ \text{TONS PER YEAR FROM THE} & & \text{PRICE PER TON?} & & \text{PER YEAR YOU CAN ACHIEVE WITH TY-RAIL} \\ \text{CALCULATION ABOVE} & & & & \end{array}$$

Calculation assumes one screen change-out takes one hour.

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