Chain Tension Meter

Wastewater Screen Chain Tension Support

UPGRADE YOUR WASTEWATER SCREENS WITH OUR NEW PATENTED TENSION MEASURING SYSTEM

Load Cell Installed

Our MS Bar Screens require little maintenance. However, one key task is maintaining the optimal chain tension.

Adjusting to the correct chain tension can be difficult. Tightening the chain too much or too little can be detrimental, especially on larger bar screens. It increases wear and tear and can even lead to severe damage to the equipment. Headworks now offers a device to determine if your chain tension is adjusted correctly. Even smaller Screens can be challenging, as the tension is typically adjusted by "hand" without a visible, measurable value.

Headworks has engineered the "Chain Tension Meter" to eliminate these guesses.

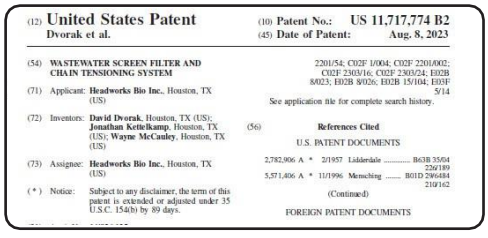
With this new device, you won't have to worry about overtightening or leaving too much slack in the chain. Be confident in your maintenance by knowing your chain is properly functional.

HOW DOES HEADWORKS' CHAIN TENSION METER WORK

The chain tension meter utilizes a load cell mounted between the drive shaft and the frame of the take-up system on both sides of the screen. Each system will be calibrated for the specific installation.

When tensioning the chain becomes necessary, the load cells will be mounted on each side of the screen. Only the digital display needs to be moved from one side to the other to check the chain's tension. During tensioning, the digital display indicates the present load and directs the maintenance state to the perfect tension.

The digital display shows the actual chain tension (lbs) and guides the user to the desired value.



(12) **United States Patent**
Dvorak et al.

(10) **Patent No.: US 11,717,774 B2**
(45) **Date of Patent: Aug. 8, 2023**

(54) **WASTEWATER SCREEN FILTER AND CHAIN TENSIONING SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 89 days.

2201/54; C02F 1/004; C02F 2201/002; C02F 2303/16; C02F 2303/24; E02B 8/023; E02B 8/026; E02B 15/104; E03F 5/14

See application file for complete search history.

(56) **References Cited**

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(Continued)

FOREIGN PATENT DOCUMENTS

APPLICATIONS

MS1 Bar Screen

MS2 Bar Screen

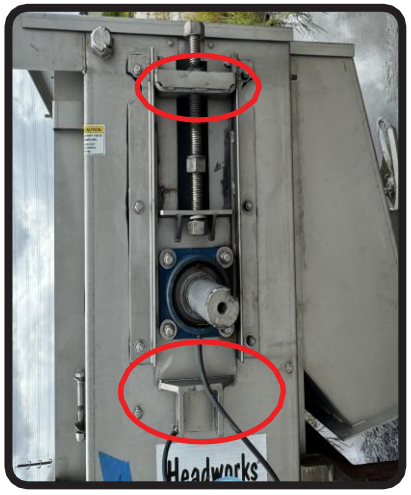
Perforator

Eliminator

Chain Tension Meter Models

Depending on the screen model, some one-time modifications at the take-up bearing may be necssary

Model A



For Screens with Jack Stand No Modifications are Required

Model B

For Screens without Jack Stand (Older Models) Modifications are Required

WANT TO KNOW MORE?

Please contact our process experts at Headworks International.

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