

KG5 Consultancy Ltd - Vibrotrim™

mechanical bulk trimming, protecting workers from fall, crush, struck and engulfment risk

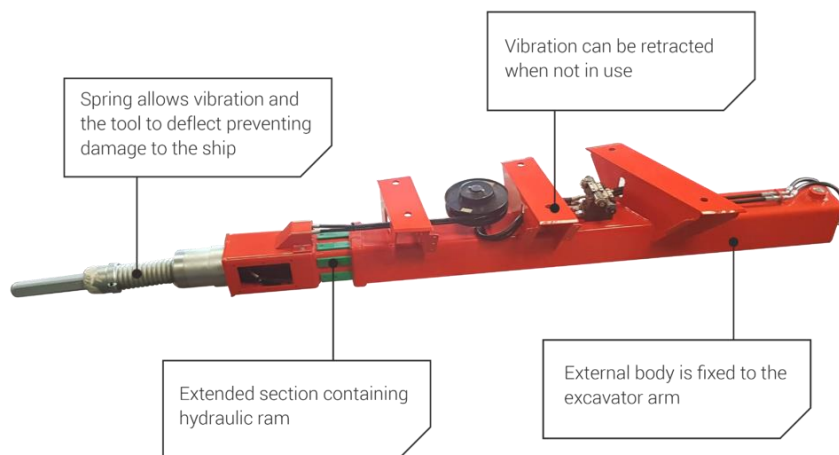
the challenge

Following a 2012 fatality in ships hold where pedestrian workers placed themselves in harm attempting to rescue a casualty then recovering the deceased I had an overwhelming drive to mechanise bulk ship trimming. Traditionally bulk ship trimming is done by personnel physically knocking the cargo loose with 'sticks'. I wanted to make trimming operations safer. Additionally, the 'people with sticks' approach was becoming more difficult because of the negative impact of skills drain and broader lack of experienced people.

the innovation

The port ship discharge industry has not had the same safety improvements that other industries such as construction and quarrying have seen.

One of the biggest risk areas is the practice of using pedestrian operators to go into the holds of ships and manually dislodge stuck cargo. These 'men with sticks' are being put into an extremely hazardous environment with only the most rudimentary of tools. It seems laughable that over two decades into the 21st century this is still the 'go to' option in ship discharge.



“The Swiss-knife of ship trimming” Adding easily deployed vibrating tool to mechanical ship trimming equipment.

- Remove pedestrians
- Reduce fall from height risk
- Reduce crane lifts
- Increase productivity
- Reduce asset and ship damage

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how it was implemented

Used successfully in largest tonnage port of UK until cessation of contract.

result

- reduced risk
- improved productivity
- reduced damage

conclusion

The tool achieved the results I hoped for during our contracted period, zero fatalities and improved productivity.

LINK: <https://vibrotrim.com/about/>

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