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# LOBSTER KH CABLE BOLT PUSHER KEEP HEADPLATE SERIES FOR JOY, SANDVIK ETC. DRILLRIG FEEDFRAMES



## INTRODUCTION

- The Conway Engineering LOBSTER KH is designed to mount atop the head plate of an existing Joy HFX, Sandvik S2500 or other similar market standard feedframe. The LOBSTER KH hydraulically pushes the cable bolt into a predrilled hole in the roof strata. This dramatically reduces the amount of physical input from the operator and in turn increases safety and productivity.
- The LOBSTER KH has been developed to meet the following goals:
  - o Maximise flexibility when combined with existing headplate
  - Improve safety
  - Push as many varieties of cable bolt as possible:
    - With bulbs or Plain
    - Single or Multi Strand
  - Simple operation and servicing
- Conway Engineering can customise the LOBSTER KH to suit any of your specific needs.



LOBSTER KH shown with drive rollers open

LOBSTER KH shown with drive rollers closed

## INTEGRATION ONTO DRILL RIG

- The LOBSTER KH mounts directly onto the existing feed frame head plate. Original functions of the OEM head plate (e.g. gripper jaws) are maintained.
- The LOBSTER KH requires hydraulic power to operate. This is typically sourced from the host machine and plumbed into the Conway valvebank. There are 3 lines required: Pressure, Tank, and Load Sense (Load Sense is typically plugged off on air-over-hydraulic powered rigs). Alternatively, if there are spare DCVs on the host machine, they may be utilised in place of the standard Conway valvebank.
- The LOBSTER KH has a keyhole aperture dimension that matches the specifications of the host machines' head plate- typically 80 or 110mm diameter.



**LOBSTER KH** and example HFX feed frame shown with mounting hardware.

## CONFIGURATIONS

• The LOBSTER KH can have the Lobster 'Claw' configured left or right handed. This gives the operator the best possible visibility and access when bolting.



LOBSTER KH shown with left handed 'Claw'



LOBSTER KH shown with right handed 'Claw'

- The LOBSTER HR can have the Hose Entry Manifold configured in 4 possible positions:
  - Towards the back, along the left (1) or right (4) sides- usually used for Continuous Miner installations
  - On the back, left (3) or right (2) corner- usually used for Secondary Support Rigs such as Airtracks or other similar bolting rigs.



**LOBSTER KH** shown with hose entry manifolds in all 4 possible locations

- The LOBSTER KH can be configured as straight entry or side entry (front corner)
- On Continuous Miners, both North-South & East-West drill rig orientations can be catered for.
- Any standard hardware such as magnetic plate holders, can be integrated into the LOBSTER KH.

## SAFETY

- The LOBSTER KH represents a significant safety improvement in cable bolt installation. It significantly reduces high effort manual cable bolt handling and has inbuilt safety features including:
  - Hydraulic latching of pinch function once bolt is gripped and ready to be fed, it stays gripped via internal hydraulic logic and stops the bolt from falling.
  - Two handed control of feed function to feed the bolt, two handed control is required, thus removing the possibility of an operator getting their hands entangled in the rollers.
- As the LOBSTER KH is integrated into the host machine, emergency stops on the host machine will also stop the LOBSTER KH.

## ADDITIONAL SIZE AND MASS?

- Mass- a LOBSTER KH unit adds approximately 110kg to the drill rig feed frame.
- Size- When installed on (for example) the Joy TSRU Headplate, the LOBSTER KH adds approximately:
  - o 9mm width (4.5 per side)
  - o 160mm height
  - o 265mm length (85mm front, 180mm rear)





**LOBSTER KH** size shown in example comparison to Joy TSRU head plate

#### **OPERATION AND SERVICING**

• LOBSTER KH Cable Bolt Pushing functions are activated via the Conway control bank (pictured below). The LOBSTER KH is very simple to operate, adding only two controlled functions to the existing bolting rig, with the gripper jaw control remaining as part of the host machine.



Typical LOBSTER KH valve bank shown in an example cabinet

- The LOBSTER KH has a number of easily accessed service elements including grease points for critical bearings/bushings, as well as replaceable sacrificial wear segments on the feed drive wheel.
- Operating parameters:
  - Typical supply pressure: 3000 psi (207 bar)
  - Flow rate: Consumption is very low. LOBSTER KH units have been successfully operated on flows as low as 5 lpm.

## **CURRENT PRICING**

- The LOBSTER KH unit complete with:
  - Valvebank c/w Cabinet (Delete Option: \$4,376)
  - o Mast Manifold
  - o Operations & Maintenance Manual
  - Training Package
    - \$31,500 plus GST
- A complete spares pricelist can be provided upon request.