

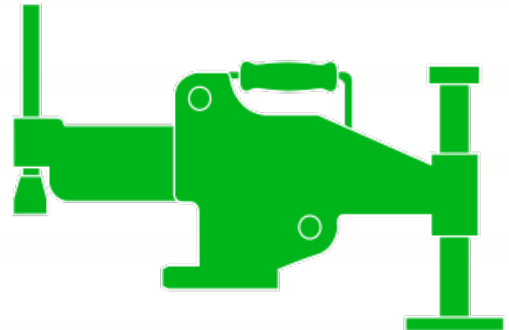


# RenQuip

## OPERATION MANUAL

HNS

Hydraulic Nut Splitter



Engineered Energy Equipment

[www.renquip.com](http://www.renquip.com)



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## 1.0 Introduction

The RenQuip HNS range of Angled Head Hydraulic Nut Splitters are designed to split nuts from 19mm(0.7") to 60mm(2.36") across the flats.

The Angled Head design makes the nut splitters equally applicable for use on large structures as they are on flange joints.

All of the HNS Range are rated for 10,000psi 700Bar hydraulics and are fully compatible with the RenQuip range of Hydraulic Hand Pumps.

## 2.0 Safety Information

### User Safety



1. The User must be competent in Operating High Pressure Hydraulic Equipment.
2. The User must read and understand the relevant Instruction Manual for the Equipment.
3. The User must wear the correct Personal Protective Equipment .
4. Do not lift or hold pressurised equipment

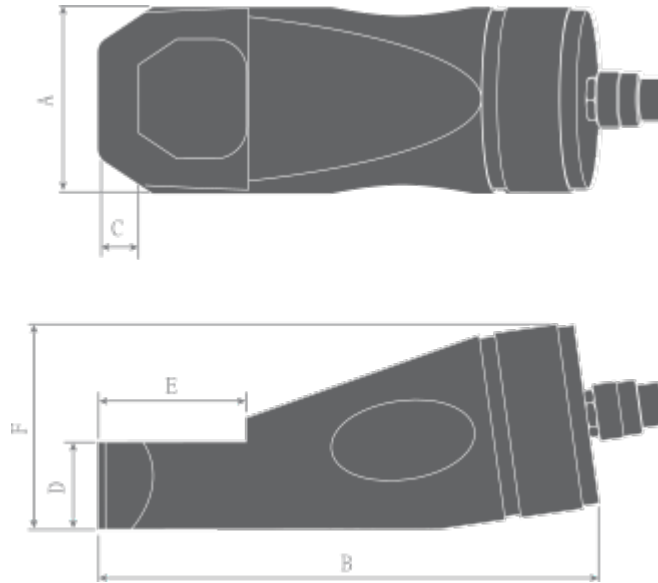
### Equipment Safety



1. Inspect all equipment prior to use for any signs of damage or wear.
2. Ensure all components have a safe working pressure of 10,000psi (700Bar).
3. Do not pressurise equipment over its safe working pressure.
4. Never insert fingers or hands into an open flange joint.
5. Ensure the working area is free from hazards to the equipment such as sharp objects, heat sources , moving machinery or vehicles.
6. Carry / transport equipment by the handles / cases provided.
7. Store Equipment in a cool dry environment .
8. Ensure the correct oil is used in the hydraulic system and maintenance procedures are followed.

### 3.0 Technical Specification

#### Application Diagram



Model Number	Hexagon AF Nut Range	Hydraulic oil capacity	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Capacity
HNS1924	19-24mm (0.71-0.94")	30cc	60mm (2.36")	167mm (6.57")	10mm (0.39")	25mm (0.98")	40mm (1.57")	68mm (2.68")	10ton
HNS2432	24-32mm (0.94-1.26")	90cc	70mm (2.76")	178mm (7.01")	13mm (0.51")	30mm (1.18")	52mm (2.05")	76mm (2.99")	15ton
HNS3241	32-41mm (1.26-1.61")	120cc	80mm (3.15")	226mm (8.90")	15mm (0.59")	36mm (1.42")	65mm (2.56")	93mm (3.66")	20ton
HNS4150	41-50mm (1.61-1.97")	200cc	95mm (3.74")	244mm (9.61")	21mm (0.83")	45mm (1.77")	76mm (2.99")	106mm (4.17")	35ton
HNS5060	50-60mm (1.97-2.36")	300cc	106mm (4.17")	269mm (10.60")	24mm (0.94")	55mm (2.17")	92mm (3.62")	125mm (4.92")	50ton

#### Kit Contents:

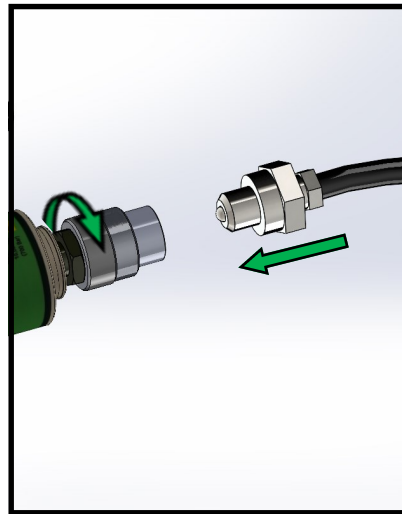
- 1x HNS Nut Splitter
- 1x Cutting Blade (fitted to the tool)
- 2x Hex Key
- 1x Robust Carry case with protective foam insert



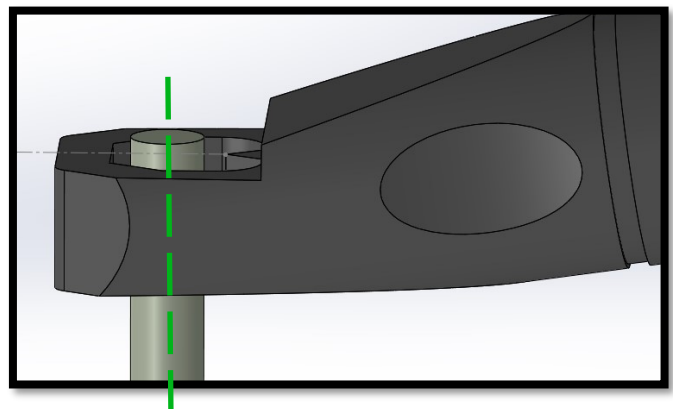
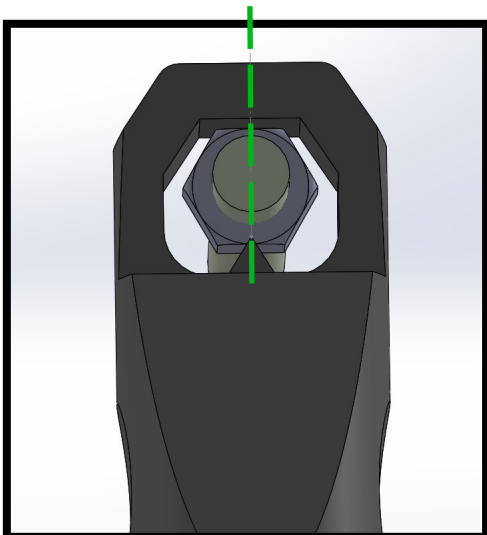
## 4.0 Operation of the HNS Tool

1. Select the correct size of tool for the nut. Please refer to application chart on page 4.
2. Apply grease over cutting blade, this will increase blade life and reduce spark potential.

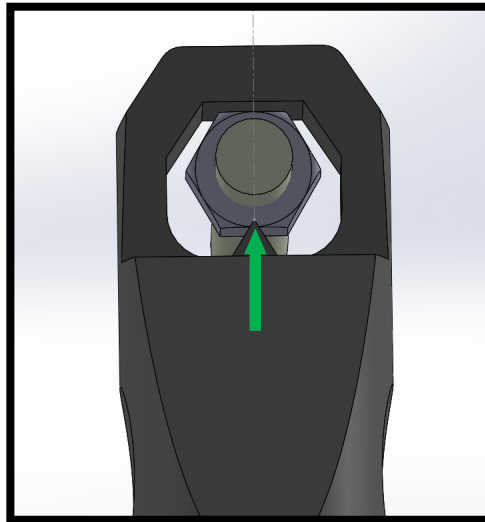
3. Connect the tool to a 10,000psi / 700Bar rated hydraulic hose and pump with the correct reservoir capacity.



4. Position the Nut Splitter over the Nut ensuring the tool is sitting level and square to the flat of the nut, align the tip of the cutting blade with the axis of the nut.

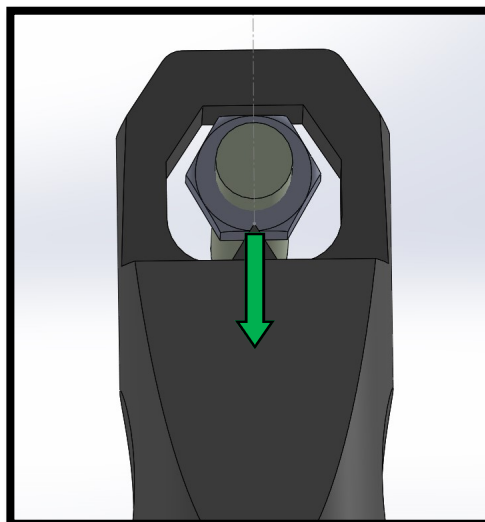


5. Activate the hydraulic pump to advance the cutting blade.



6. Stop the hydraulic pump immediately after the nut has been split. Advancing the cutting blade once the nut is split will cause damage to the stud and wear to the cutting blade.

7. Release the pressure from the hydraulic system and allow the blade to fully retract.



8. Rotate the nut 180° and repeat steps 4-7 to fully remove the nut .

## 7.0 Maintenance

- Visually Inspect the HNS tool for any damage, in particular the cutting blade.
- Replace any worn or damaged parts.
- Clean and degrease surfaces and couplers.
- Grease the cutting blade with a quality High load bearing grease .
- Top up hydraulic oil in the pump as required with a high quality 32cSt hydraulic oil.
- Store tools in a cool, dry, and low humidity location.

## 8.0 Replacement Cutting Blades

Model Number	HNS1924	HNS2432	HNS3241	HNS4150	HNS5060
Single Cutting Blade Pt: No	CB191	CB241	CB321	CB411	CB501
Pack of 3 Cutting Blades Pt: No	CB193	CB243	CB323	CB413	CB503

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