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Profile

Maximise Your Industrial Work Efficiency with RenQuip's Cutting-Edge Tools and Solutions. Get Quality Products and Expert Support Worldwide

RenQuip, an Original Equipment Manufacturer (OEM) of leading flange working equipment, is committed to innovation, safety, and an exceptional customer experience. At RenQuip, we pride ourselves on our in-house design and engineering expertise. Our products, designed, built and tested in the UK with the highest quality materials, deliver bespoke solutions tailored to your specific needs. Our flagship Viper-28 is the world's most powerful, uniquely engineered and reliable flange spreader.

With short lead times across our range and a comprehensive international distribution network, RenQuip is positioned as the

manufacturer of choice for all your mechanical and hydraulic equipment requirements.

RenQuip are UK distributors for top brands like Norbar, Atlas Copco, Climax H&S Tool, and aim to revolutionise the equipment sales and rental industry as a specialist equipment provider, specialised in controlled bolting, in-situ machining and specialist equipment for the energy sector.

Save time and money by choosing RenQuip for all your industrial equipment and associated ancillary needs. Benefit from our rental, sales, service, testing and calibration services to maximise savings and efficiency.

Trust RenQuip to deliver quality products and expert support 24/7/365.

VIPER

Spreading Wedges

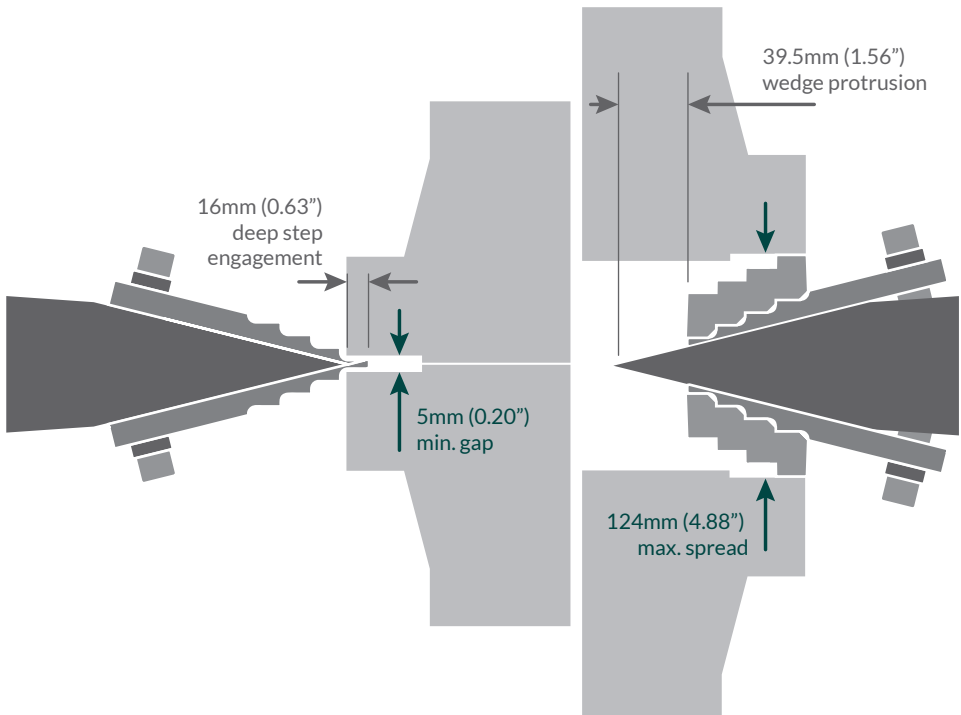
THE MOST POWERFUL SPREADING WEDGE IN THE WORLD

The Viper-28 is RenQuip's latest revolutionary Flange Spreading Wedge – capable of entering a 5mm access gap and producing a spreading force of 277kN (27.7T) per tool yet weighs only 5Kg (11lbs).

-
- **Max Spreading force**
277kN (27.7T)
(554kN (55.4T) when used in pairs)
 - **Lightweight** 5Kg (11.0lbs)
 - **5mm Access Gap**
 - **Spreading distance**
5mm to 124mm
(when used with stepped blocks)
 - 53.5 mm jaw width
 - No pinch points
 - Safety block set - aluminium lightweight
 - Stepped blocks to increase max. spread
 - Safety lanyard to prevent dropped tool
 - 100% Load/Pressure tested and certified
 - High durability high quality low maintenance design
 - Robust moulded case for easy transportation and storage

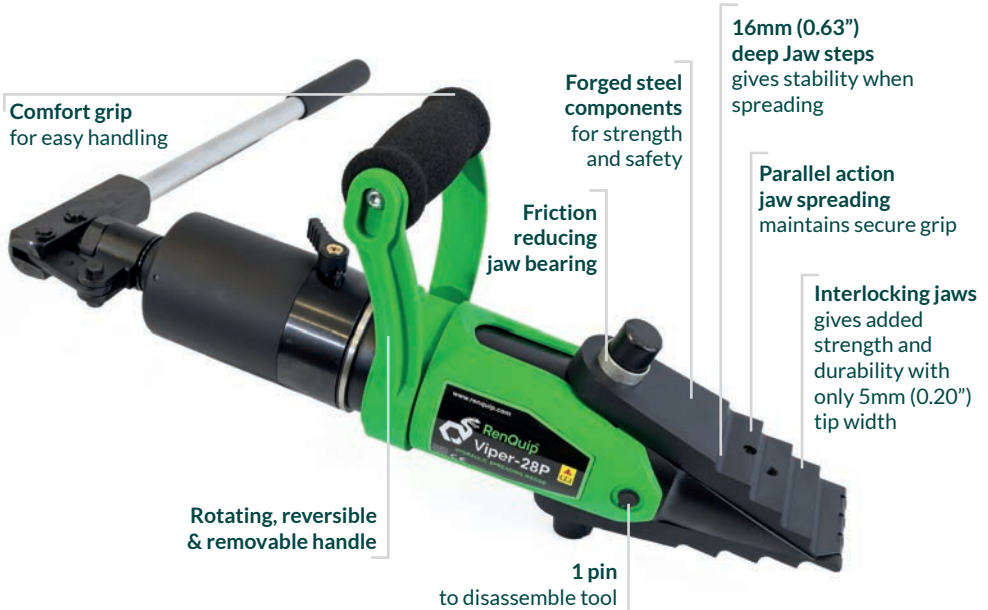


Application



VIPER-28P

Hydraulic Flange Spreading Wedge
– single tool with integral pump kit



Max Spreading force: 277kN (27.7T)

Kit weight: 12.5Kg (27.6lbs)

Kit Dims.: 580mm x 340mm x 295mm
(22.8" x 13.4" x 11.6")

Tool Weight: 7.5Kg (16.5lbs)

Tool Dims.: 75mm x 133mm x 435mm
(3.0" x 5.2" x 17.1")

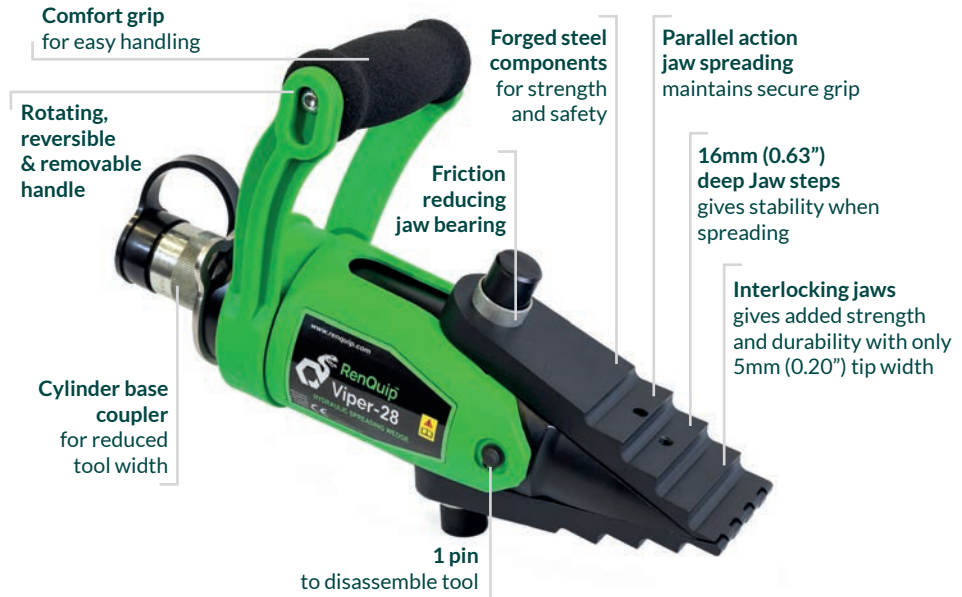
Product ordering code: VIPER-28P

Kit Content

- 1 x VIPER-28P Hydraulic Flange Spreading Wedge with Integral Pump
- 2 x Stepped Blocks
- 1 x Safety Block Set
- 1 x Stepped Safety Block
- 1 x Safety Lanyard
- 1 x Robust moulded carry case
- 1 x Instruction Manual

VIPER-28K

Hydraulic Flange Spreading Wedge
- single tool kit



Max Spreading force: 277kN (27.7T)

Kit weight: 10.5Kg (23.1lbs)

Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 5Kg (11.0lbs)

Tool Dims.: 75mm x 133mm x 295mm
(3.0" x 5.2" x 11.6")

Product ordering code: VIPER-28K

Kit Content

- 1 x VIPER-28 Hydraulic Flange Spreading Wedge
- 2 x Stepped Blocks
- 1 x Safety Block Set
- 1 x Stepped Safety Block
- 1 x Safety Lanyard
- 1 x Robust moulded carry case
- 1 x Instruction Manual

VIPER-28H

Hydraulic Flange Spreading Wedge
– Single Tool and Pump Kit

Max Spreading force: 277kN (27.7T)

Kit weight: 19Kg (41.9lbs)

Kit Dims.: 920mm x 510mm x 210mm
(36.2" x 20.1" x 8.3")

Tool Weight: 5Kg (11.0lbs)

Tool Dims.: 75mm x 133mm x 295mm
(3.0" x 5.2" x 11.6")

Product ordering code: VIPER-28H



Kit Content

- 1 x VIPER-28 Hydraulic Flange Spreading Wedge
- 2 x Stepped Blocks
- 1 x Safety Block Set
- 1 x Stepped Safety Block
- 1 x Safety Lanyard
- 1 x PH300S Sealed Hydraulic Hand Pump with Single Port
- 1 x 10kH7 Hydraulic Hose c/w couplers
- 1 x Robust moulded carry case
- 1 x Instruction Manual

VIPER-28M

Hydraulic Flange Spreading Wedge
– Twin Tool and Pump Kit



Max Spreading force : 277kN (27.7T)

Kit weight: 30Kg (66.1lbs)

Kit Dims.: 920mm x 510mm x 210mm
(36.2" x 20.1" x 8.3")

Tool Weight: 5Kg (11.0lbs)

Tool Dims.: 75mm x 133mm x 295mm
(3.0" x 5.2" x 11.6")

Product ordering code: VIPER-28M



Kit Content

- 2 x VIPER-28 Hydraulic Flange Spreading Wedges
- 4 x Stepped Blocks
- 2 x Safety Block Set
- 2 x Stepped Safety Block
- 2 x Safety Lanyard
- 1 x PH580T Sealed Hydraulic Hand Pump with Twin Ports
- 2 x 10kH7 Hydraulic Hose c/w couplers
- 1 x Robust moulded carry case
- 1 x Instruction Manual

FSW

Flange Spreading Wedges

The flange spreading wedges can enter a flange joint access gap as small as 6mm (0.24").

The hydraulic flange spreading wedges produce a maximum spreading force of 326kN (32.6T) when used in pairs (as recommended) to push the mating faces of flanges apart.

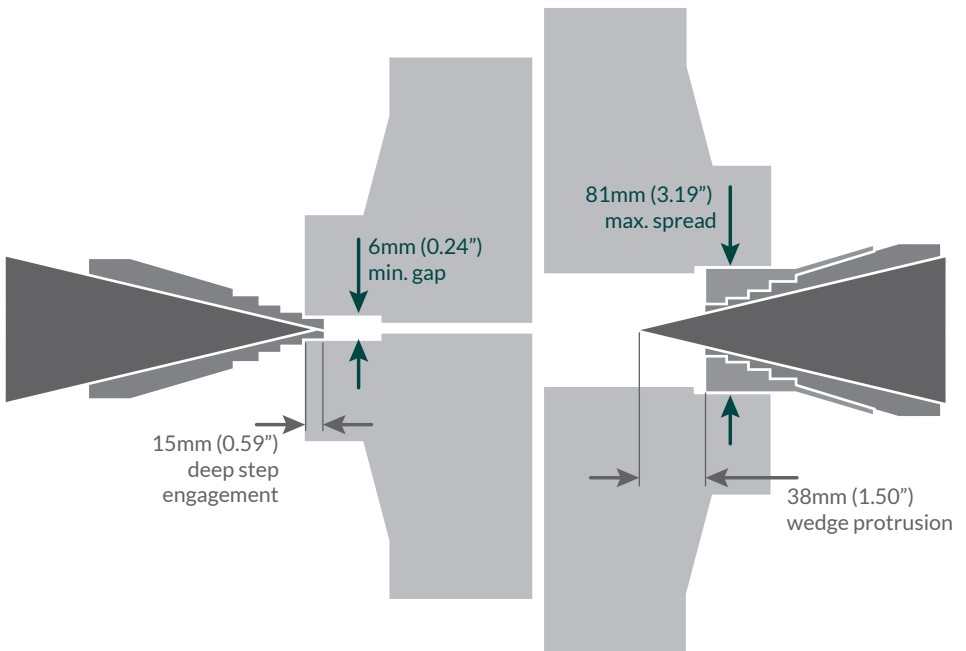
The mechanical flange spreading wedge produces a maximum spreading force of 188kN (18.8T) when used in pairs.

They can create a gap up to 81mm (3.19") between flange faces with the stepped blocks fitted facilitating the replacement of gaskets, seal ring's, or other flange face maintenance and testing.

It is strongly recommended that a minimum of 2 flange spreading wedges are used when spreading a flange joint. The flange spreading wedges should be positioned at opposite sides of the flange joint and actuated as necessary to maintain a parallel joint gap.

-
- **Max Spreading force (hydraulic)**
163kN (16.3T)
(326kN (32.6T) when used in pairs)
 - **Max Spreading force (mechanical)**
94kN (9.4T)
(188kN (18.8T) when used in pairs)
 - **Spreading distance**
6mm (0.24") to 81mm (3.19")
(when used with stepped blocks)
 - **100% Load/Pressure tested and certified**
 - **High durability High Quality low Maintenance design**
 - **Robust Moulded Case** for easy transportation and storage

Application



FSW9K

A mechanical flange spreading wedge
actuated by applying torque



Max Spreading Force: 94kN (9.4T)
Max Applied Torque : 200Nm (150ft.lb)
Kit weight: 12Kg (26.5lbs)
Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")
Tool Weight: 5.5Kg (12.1lbs)
Tool Dims.: 80mm x 160mm x 290mm
(3.1" x 6.3" x 11.4")
Product ordering code: FSW9K

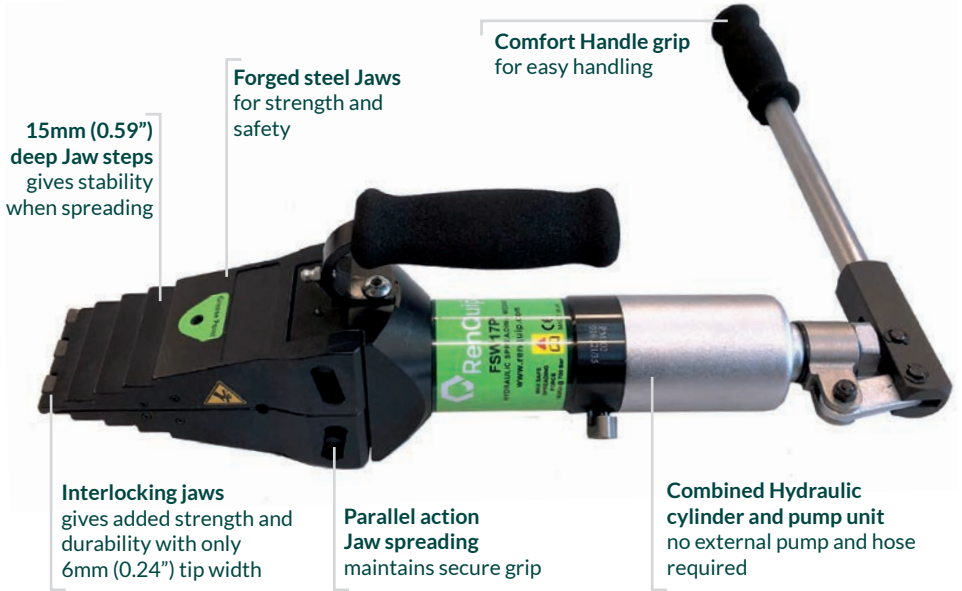
Kit Content

- 1 x FSW9 Tool
- 1 x Safety Block
- 2 x Stepped Blocks with securing screws and allen key
- 1 x 200Nm (150ft.lb) Torque Wrench
- 1 x 22mm (1/2") Drive socket
- 1 x Instruction Manual
- 1 x Robust Moulded Carry Case with foam insert
- 1 x Safety Lanyard

FSW17P



A hydraulic flange spreading wedge
with a combined hydraulic cylinder and pump unit



Max Spreading force: 163kN (16.3T)

Kit weight: 13Kg (28.7lbs)

Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 8.5Kg (18.7lbs)

Tool Dims.: 76mm x 155mm x 440mm
(3.0" x 6.1" x 17.3")

Product ordering code: FSW17P

Kit Content

- 1 x FSW17P Tool with combined hydraulic cylinder and pump unit
- 1 x Pump Actuating Handle
- 1 x Safety Block
- 1 x Safety Lanyard
- 2x Stepped Blocks with securing screws and allen key
- 1 x Instruction Manual
- 1 x Robust moulded carry case

FSW17K

A hydraulic flange spreading wedge
actuated by 700bar (10,000psi) hydraulics



Max Spreading force: 163kN (16.3T)

Oil Capacity: 75cc

Kit weight: 12Kg (26.5lbs)

Kit dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 7Kg (15.4lbs)

Tool Dims.: 76mm x 155mm x 350mm
(3.0" x 6.1" x 13.8")

Product ordering code: FSW17K

Kit Content

- 1 x FSW17 Tool
- 1 x Safety Block
- 1 x Safety Lanyard
- 2x Stepped Blocks with securing screws & allen key
- 1 x Instruction Manual
- 1 x Robust moulded carry case

FSW17H

A single hydraulic flange spreading wedge actuated by the pump included in the kit

Max Spreading force : 163kN (16.3T)

Kit weight: 17Kg (37.5lbs)

Kit dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 7Kg (15.4lbs)

Tool Dims.: 76mm x 155mm x 350mm
(3.0" x 6.1" x 13.8")

Product ordering code: FSW17H



Kit Content

- 1 x FSW17 Tool
- 1 x PH300S Hydraulic Hand Pump
- 1 x Hydraulic Pressure Gauge
- 1 x 2M Hydraulic Hose with couplers
- 1 x Safety Block
- 2 x Stepped Blocks
- 1 x Instruction Manual
- 1 x Robust moulded carry case

FSW17D

A set of 2 Hydraulic Flange Spreading Wedges actuated by 700bar (10,000psi) hydraulics

Max Spreading force : 163kN (16.3T)

Oil Capacity: 2 x 75cc

Kit weight: 20Kg (44.1lbs)

Kit dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 7Kg (15.4lbs)

Tool Dims.: 76mm x 155mm x 350mm
(3.0" x 6.1" x 13.8")

Product ordering code: FSW17D



Kit Content

- 2 x FSW17 Tool
- 2 x Safety Block
- 2 x Safety Lanyard
- 4x Stepped Blocks with securing screws and allen key
- 1 x Instruction Manual
- 1 x Robust moulded carry case

FSW17M

A full set of 2 Hydraulic Flange Spreading Wedges with a hydraulic hand pump, hoses and accessories

Max Spreading force : 163kN (16.3T)

Oil Capacity: 2 x 75cc

Kit weight: 31Kg (68.3lbs)

Kit dims.: 920mm x 510mm x 210mm
(36.2" x 20.1" x 8.3")

Tool Weight: 7Kg (15.4lbs)

Tool Dims.: 76mm x 155mm x 350mm
(3.0" x 6.1" x 13.8")

Product ordering code: FSW17M



Kit Content

- 2 x FSW17 Tool
- 2 x Safety Block
- 2 x Safety Lanyard
- 4 x Stepped Blocks with securing screws and allen key
- 1 x PH300T Sealed Hydraulic Hand Pump with twin outlets and screw couplers.
- 2 x Hydraulic Pressure Gauges complete with gauge adaptors.
- 2 x 2m (6.5ft) hydraulic hoses complete with screw couplers.
- 1 x Instruction Manual
- 1 x Robust moulded carry case



FSW BRONZE

Spark resistant FSW jaws and stepped blocks

RenQuip have developed Jaws and stepped blocks for use with the FSW range of flange Spreaders to reduce the risk of sparks when operating in hazardous areas.

The Jaws and Stepped blocks can be retrofitted to FSW17 and FSW9 tools.



The contact areas between tool and flange are of a bronze material that is classified as nonsparking but the core material of the components remain as forged steel to maintain the strength and factor of safety of the tool.

Bronze jaws



Product Part Number: 153400002

2 x Bronze Jaws complete with spiral pins

Bronze stepped blocks



Product Part Number: 150200002

2 x Bronze Stepped Blocks complete with securing screws

AT

Flange Alignment Tools

The flange alignment tools are used to correct:

- **linear misalignment**
(when the axis of the two flanges are not aligned)
- **rotational misalignment**
(when the axis of the flanges are aligned but the bolt holes are not)

The mechanical flange alignment tool (AT4K) can produce a maximum reaction alignment force of 40kN (4T).

The hydraulic flange alignment tool (AT9K) is designed for medium and large flanges and can produce a maximum reaction alignment force of 90kN (9T) when the maximum hydraulic pressure of 10,000psi (700Bar) is applied to the tool.

-
- **High durability High Quality low Maintenance design**
 - **No external anchor points or rigging required**
 - **Can be used to prevent misalignment during flange joint maintenance**
 - **100% Load/Pressure tested and certified**
 - **Prevents gasket pinching during flange joint assembly**
 - **Robust Moulded Case for easy transportation & storage**
 - **Bearings rated to provide overload warning**

AT4K



A mechanical flange alignment tool provided with torque wrench for accurate tool loading



Kit weight: 12Kg (26.5lbs)

Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 8Kg (17.6lbs)

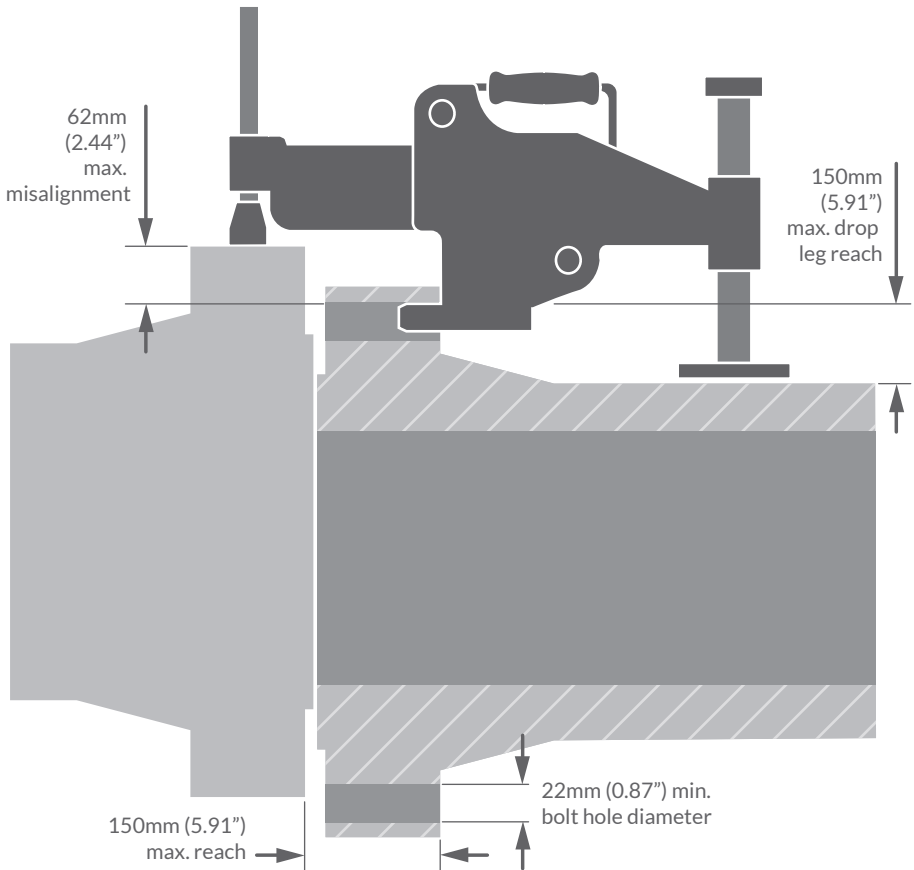
Tool Dims.: 100mm x 285mm x 380mm
(3.9" x 11.2" x 15.0")

Product ordering code: AT4K

Kit Content

- 1 x AT4 Tool
- 1 x Torque wrench
- 1 x Ratchet and Strap
- 1 x Instruction Manual
- 1 x Robust moulded carry case

Application



AT9K



A hydraulic flange alignment tool supplied with pressure rated and capacity matched pump for safety



Oil Capacity: 52cc

Kit weight: 26Kg (57.3lbs)

Kit Dims.: 920mm x 510mm x 210mm
(36.2" x 20.1" x 8.3")

Tool Weight: 14.5Kg (32.0lbs)

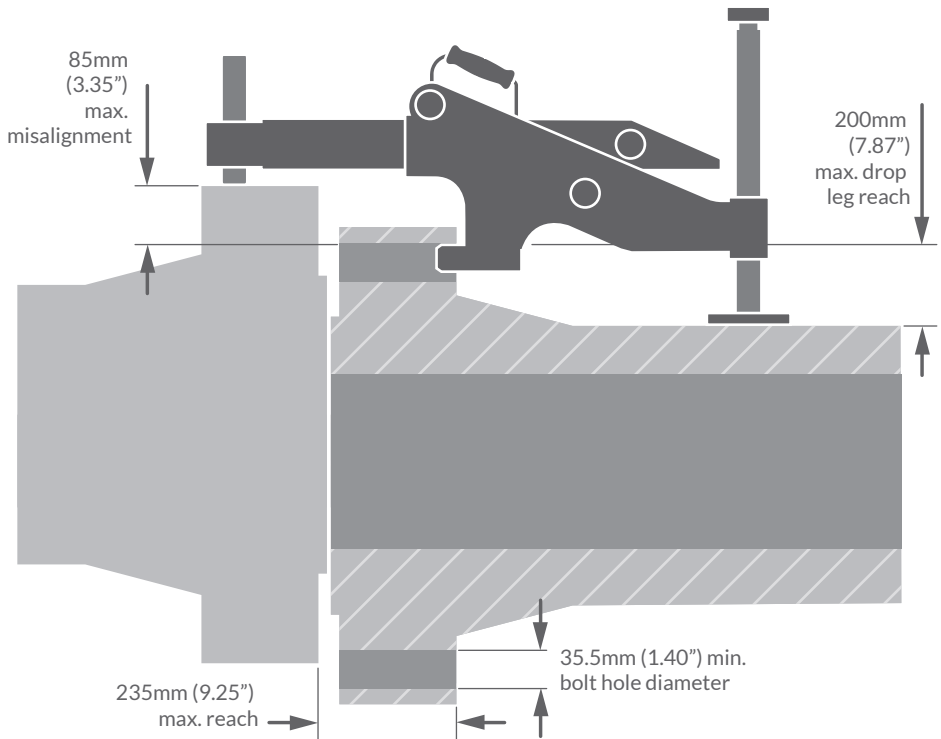
Tool Dims.: 100mm x 230mm x 540mm
(3.9" x 9.1" x 21.3")

Product ordering code: AT9K

Kit Content

- 1 x AT9 Tool
- 1 x 10,000psi (700 Bar) Hydraulic Sealed Hand Pump
- 1 x 10,000psi (700 Bar) Hydraulic Hose 2.1M long
- 1 x 10,000psi (700 Bar) Hydraulic Gauge
- 1 x Ratchet and Strap
- 1 x Instruction Manual
- 1 x Robust moulded carry case

Application



WJ

Hydraulic Lifting Wedge Jacks

The Hydraulic Lifting Wedge Jacks can enter an access gap as small as 9.5mm (0.37") and produce a maximum lifting force of 183kN (18.3T) up to a height of 67.5mm (2.66").

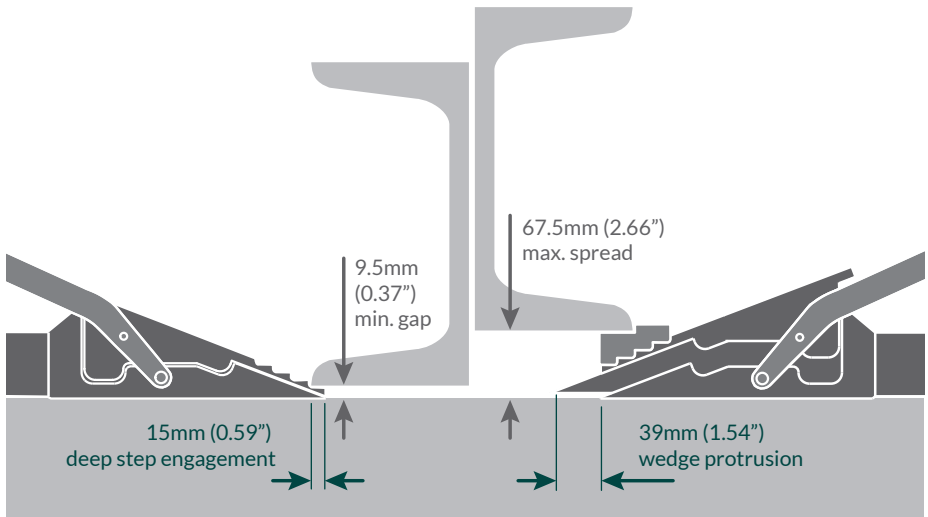
Multiple tools can be linked together to produce greater lifting forces.

The tools can be used in any orientation making them suitable for lifting, pushing and spreading applications.

- **Max Lifting force**
183kN (18.3T)
- **Lifting distance**
9.5mm (0.37") to 67.5mm (2.66")
when used with stepped block
- **High durability High Quality
low Maintenance design**
- **Robust Moulded Case** for easy
transportation and storage



Application



WJ19K

A hydraulic lifting wedge jack
actuated by 700bar (10,000psi) hydraulics



Oil Capacity: 75cc

Kit weight: 13Kg (28.7lbs)

Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 8.5Kg (18.7lbs)

Tool Dims.: 105mm x 135mm x 410mm
(4.1" x 5.3" x 16.1")

Product ordering code: WJ19K

Kit Content

- 1 x WJ19K Tool
- 1 x Safety Block
- 1 x Safety Lanyard
- 1 x Stepped Blocks with securing screw and allen key
- 1 x Instruction Manual
- 1 x Robust moulded carry case

WJ19P

A hydraulic lifting wedge jack
with a combined hydraulic cylinder and pump unit

Comfort Handle grip
for easy handling

Forged steel Jaws
for strength and
safety

**15mm (0.59")
deep Jaw steps**
gives stability when
spreading

**Combined Hydraulic
cylinder and pump
unit**
no external pump
and hose required

**Parallel action
Jaw spreading**
maintains secure grip

Interlocking jaws
gives added strength and
durability with only
9.5mm (0.37") tip width

Kit weight: 14Kg (30.9lbs)

Kit Dims.: 580mm x 340mm x 180mm
(22.8" x 13.4" x 7.1")

Tool Weight: 9.5Kg (20.9lbs)

Tool Dims.: 105mm x 135mm x 450mm
(4.1" x 5.3" x 17.7")

Product ordering code: WJ19P

Kit Content

- 1 x WJ19K Tool with combined hydraulic cylinder and pump unit
- 1 x Pump Actuating Handle
- 1 x Safety Block
- 1 x Safety Lanyard
- 1 x Stepped Block with securing screw and allen key
- 1 x Instruction Manual
- 1 x Robust moulded carry case

HNS

Angled Head Hydraulic Nut Splitters

A range of 10,000Psi 700Bar single acting hydraulic nut splitters with compact design to maximise the range of application.

The Angled head makes the HNS range suitable for applications with nuts protruding through large plates.

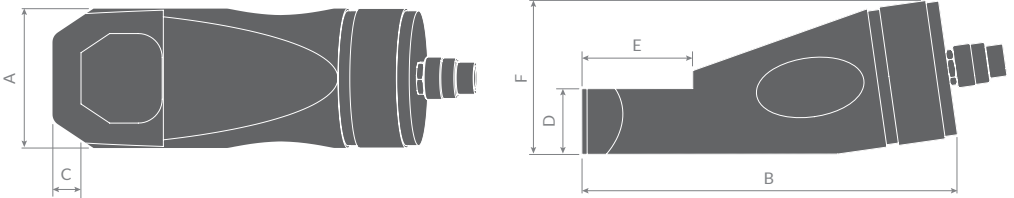
Each tool covers a range of nuts defined by the across flat dimension (AF), from 19mm (0.71") to 60mm (2.36").

Kit Contents:

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



Specification



Model Number	Hexagon AF Nut Range	Hyd. oil capacity	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Capacity
HNS1924	19-24mm (0.71-0.94")	20cc	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")	60cc	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")	80cc	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")	155cc	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")	240cc	106mm (4.17")	269mm (10.60")	24mm (0.94")	55mm (2.17")	92mm (3.62")	125mm (4.92")	50ton

Single Acting

Sealed Hydraulic Hand Pumps

A sealed hydraulic hand pump that is used to provide up to 10,000psi / 700Bar of hydraulic pressure to single acting hydraulic systems.

The PH pump range are equipped with a flexible reservoir that contracts when oil is pumped from the reservoir into the system – this removes the requirement for an air vent and eliminates the possibility of accidental oil spillage from the reservoir.

The flexible reservoir enables the pump to be used in any orientation without the risk of air entering the hydraulic system. It also prevents contamination or debris entering the hydraulic system from the atmosphere.

- **Max Pressure**
10,000psi 700bar.
- **High durability**
High Quality low
Maintenance design.
- **100% Pressure tested**
and certified.
- **2 speed design**
for faster operation
and lower handle force.
- **Light weight**
for easy handling.

Pump	Oil Capacity	Length	Width	Height	Weight
PH300S	300cc	554mm (21.8")	140mm (5.5")	183mm (7.2")	4.5Kg (9.9lbs)
PH580S	580cc	643mm (25.3")	140mm (5.5")	183mm (7.2")	5.0Kg (11lbs)
PH1100S	1100cc	867mm (34.1")	140mm (5.5")	183mm (7.2")	6.0Kg (13.2lbs)
PH300T	300cc	554mm (21.8")	160mm (6.3")	186mm (7.3")	5.5Kg (12.1lbs)
PH580T	580cc	643mm (25.3")	160mm (6.3")	186mm (7.3")	6.0Kg (13.2lbs)
PH11100T	1100cc	867mm (34.1")	160mm (6.3")	186mm (7.3")	7.0Kg (15.4lbs)

PH300S, PH580S and PH1100S



Each kit contains:

- 1 x Sealed Hydraulic Hand Pump.
- 1 x Hydraulic Pressure Gauge.
- 1 x Hydraulic Gauge Adaptor.
- 1 x 3/8" Female half screw coupler

Product ordering codes:

PH300S • PH580S • PH1100S

PH300T, PH580T and PH1100T

The PH300T, PH580T and PH1100T pumps are equipped with two outlet ports with individual control valves, this enables the operator to control two hydraulic systems independently or synchronized if both valves are left open.



Each kit contains:

- 1 x Sealed Hydraulic Hand Pump.
- 2 x Hydraulic Pressure Gauge.
- 2 x Hydraulic Gauge Adaptor.
- 2 x 3/8" Female half screw coupler
- 1 x Instruction Manual

Product ordering codes:

PH300T • PH580T • PH1100T

Double Acting

Sealed Hydraulic Hand Pumps

The RenQuip PH range of hand pumps are of 2 speed design to give fast operation with low handle effort.

All pumps are rated for all 10,000psi / 700Bar hydraulic equipment. The pumps are equipped with a flexible reservoir that contracts when oil is pumped from the reservoir into the system – this removes the requirement for an air vent and eliminates the possibility of accidental oil spillage from the reservoir.

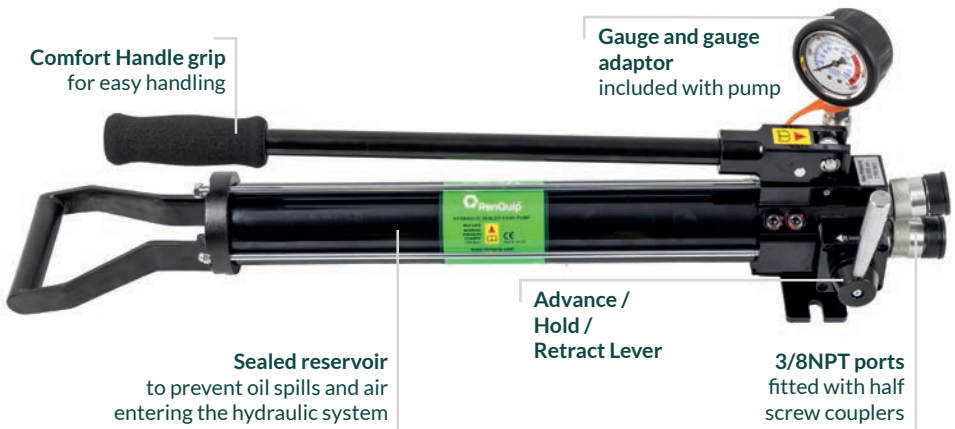
The flexible reservoir enables the pump to be used in any orientation without the risk of air entering the hydraulic system. It also prevents contamination or debris entering the hydraulic system from the atmosphere making Renquip pumps ideal for use on site and in the workshop.

The PH***D range of pumps are designed for use with double acting tools and cylinders, they are equipped with a simple to operate 3 position valve to enable the operator to Advance, Hold and Retract double acting cylinders.

- **Max Pressure** 10,000psi 700bar.
- **High durability High Quality low Maintenance design.**
- **100% Pressure tested and certified.**
- **2 speed design** for faster operation and lower handle force.
- **Light weight** for easy handling.

Pump	Oil Capacity	Length	Width	Height	Weight
PH300D	300cc	480mm (18.9")	214mm (8.4")	207mm (8.1")	5.5Kg (12.1lbs)
PH580D	580cc	600mm (23.6")	214mm (8.4")	207mm (8.1")	6.5Kg (14.3lbs)
PH1100D	1100cc	810mm (31.9")	214mm (8.4")	207mm (8.1")	7.5Kg (16.5lbs)

PH300D, PH580D and PH1100D



Each kit contains:

- 1 x Sealed Double Acting Hand Pump
- 1 x Hydraulic Pressure Gauge.
- 2 x 3/8" Female Half Couplers with dust caps
- 1 x Instruction Manual

Product ordering codes:

- PH300D
- PH580D
- PH1100D



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