

# FES<sup>®</sup>

Hydraulic, Pneumatic  
and Electric Tool  
Specialists



SALES | SERVICE | HIRE | REPAIR



# About us

Since its formation in 1968, HES has established itself as a leading UK-based supplier of high-quality hydraulic, pneumatic, and electric tool brands. Our extensive product portfolio includes Hi-Force hydraulic tools, Norbar torque tools and RenQuip flange tooling from the UK, Aircat, Universal Tool, Chicago Pneumatic, and Ingersoll Rand pneumatic tools from the USA, and Borkey industrial moving skates from Germany. Our customer base spans diverse industries including Oil & Gas, Petrochemical & Refining, Power Generation, Renewable Energy, Mining, Railways, Aerospace, Defence, and a wide network of service companies supporting these key sectors.

HES boasts considerable expertise in technical selling, user operational training, and comprehensive service, repair, and warranty support for all the brands we represent. Our strategically located offices in Daventry, Northants, and Sheffield, South Yorkshire are fully equipped with workshop repair, test, and calibration facilities, and house an extensive fleet of rental tools available for short or long-term hire. Additionally, we offer HAV testing, annual service contracts, and on-site services tailored for bolting and heavy jacking applications. Our team undergoes continuous training and assessment by our principal brands to ensure we exceed the exacting standards required to retain our representation of the brands.

As part of the Hi-Force Group and closely located near the Hi-Force facility in Daventry, HES benefits from access to a fully equipped training school with classroom and practical training areas for the provision of comprehensive theoretical and hands-on training in the proper use and maintenance of industrial tools and equipment. We also offer Mechanical Joint Integrity (MJI) approved training courses through Hi-Force, an accredited Engineering Construction Industry Training Board (ECITB) training provider.

HES aims to deliver premium products and services that surpass customer expectations. We have integrated ISO quality systems into our key business processes to ensure strict adherence and traceability across all aspects and are proud to be certified for ISO 9001:2015 Quality Management Systems, ISO 14001:2015 Environmental Management Systems, and ISO 45001:2018 Occupational Health and Safety Management Systems.

With over fifty years of industry experience, HES remains a trusted partner for all your hydraulic, pneumatic, and electric tool requirements, and comprehensive after-sales services.

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### Hi-Force Hydraulic Tools

HES is the authorised distributor and service centre for Hi-Force hydraulic tools and equipment throughout England and Wales and has successfully promoted sales of the full Hi-Force product range since the 1980's.

Hi-Force is totally committed to manufacturing products of the highest quality, using the best machinery available, to ensure all products meet the most stringent quality requirements, whilst also retaining a competitive price in the global market for hydraulic tools. Continuous investment in production machinery, all housed within the "state of the art" manufacturing facility, located in Daventry, England, combined with a sophisticated research, design and development department, has allowed Hi-Force to remain at the leading edge of currently available hydraulic tool technology.

### Norbar Torque Tools

Norbar UK has been manufacturing torque wrenches since 1943 and is recognised globally as one of the world's leading specialists in torque control tools and equipment. A family owned business that retains the same passion for quality and service as the founders did almost 75 years ago, the Norbar product range includes an extensive range of manual torque wrenches and multipliers, pneumatic and electric driven torque multipliers and torque measurement and calibration equipment.

HES is proud to be a recognised and authorised distributor for the complete Norbar range of products. Our sales and service teams are fully trained by Norbar and regular training updates are an ongoing process.

### Ingersoll Rand

HES is proud to be an approved business partner, distributor and service centre for Ingersoll Rand.

Ingersoll Rand is a global market leader offering reliable, highly efficient and low maintenance systems and solutions across several industries including Aerospace, Construction, Heavy Engineering, Energy, Oil & Gas, Mining, Motor Vehicle and Ship building. For over 100 years, professionals have relied on Ingersoll Rand for assembly tools, industrial tools, cordless tools and vehicle service tools, for quality and performance on the toughest jobs. Our advanced engineering and manufacturing have a standard of excellence often copied, but never matched.

### Chicago Pneumatic

Chicago Pneumatic manufactures hundreds of models of quality air tools, designed for a wide variety of maintenance and production applications including: impact wrenches, ratchet wrenches, screwdrivers, drills, grinders, sanders and polishers, percussive and cutting tools and a whole lot more. Based on decades of expertise in providing the right tools for the job, Chicago Pneumatic understands the needs of users, in industries from general industrial maintenance to manufacturing.

HES is proud to be an authorised distributor and service centre for Chicago Pneumatic and continues to deliver "best in class" local support and after sales service, for the full range of Chicago Pneumatic tools.

### AIRCAT

HES is proud to be an authorised distributor of AIRCAT® pneumatic tools.

The AIRCAT® line represents the most significant advances in the performance of pneumatic power tools in nearly 30 years. Founded in 1998, AIRCAT® tools were developed to cater mainly to the maintenance, repair, and operations (MRO) and automotive market sectors. The tool line has substantially reduced noise levels while retaining more power and torque and incorporates a patented ergonomically engineered handle design to relieve stress and fatigue on the operator's hands, wrists and arms.

AIRCAT® is committed to product innovation, high-quality levels, high service levels and continued development and expansion of the brand, and HES is proud to be an approved partner offering the complete range to the UK market.

### Universal Tool

HES is proud to be an approved business partner and distributor for Universal Tool.

The Universal Tool nameplate is a symbol of quality and workmanship featuring innovative products with the latest advancements in air tool design over the past 30 years. By prioritising the end user, UT tools offer quiet, ergonomically designed, powerful pneumatic tools manufactured with the highest grade materials, ensuring durability and reliability.

Developed and manufactured in the US, the product offering includes impact wrenches, percussion tools, abrasive & finishing tools, drills, screwdrivers, ratchet wrenches, rivet guns and aircraft tools, targeting the maintenance, repair, and operations (MRO), industrial and aerospace market sectors.

### RenQuip

RenQuip is an Original Equipment Manufacturer (OEM) specialising in the design and manufacture of high-quality flange working equipment for the energy sector.

Founded in 2021, RenQuip has established a reputation for delivering high-performance hydraulic and mechanical flange tooling with a strong focus on safety, reliability, and innovation. With full in-house design and engineering capabilities, RenQuip offers fast turnaround on customised modifications and bespoke "engineered-to-order" solutions, in addition to its standard product range. Each product is designed, manufactured, and rigorously tested in the UK using the highest quality materials, ensuring reliable performance across various applications.

HES is proud to partner with RenQuip as an authorised reseller, offering customers across the UK access to an innovative range of hydraulic and mechanical flange tools engineered for performance and reliability.

### Börkey

Originally established in 1951, Börkey Germany is recognised worldwide as the inventor and pioneer for manufacturing heavy duty roller skates. Considered the safest, fastest and most economical method of moving heavy equipment, the Börkey range of standard and special design roller skates offer world class performance as well as the widest choice of options available to suit every application.

Over the last 70 years' Börkey has improved and expanded its product line using the latest design and manufacturing technologies, and continues to be the perfect partner for HES.



## Cylinders

- Choice of single and double-acting cylinders comprising of low height, multi-purpose, hollow piston and failsafe lock ring cylinders as well as high tonnage and lightweight aluminium cylinders
- Lifting capacities from 4.5 to 1012 tonnes
- Stroke lengths up to 508 mm



## Pumps

- Range comprises of manual, air, electric, battery and petrol-engine driven pump options
- Single or two stage output flow rates with reservoir capacities up to 400 litres
- Additional factory fitted options of electric solenoid valves and 60 Hz motors, available to order



## System Components

- Designed and manufactured to provide all the essential accessory items required to complete the requires high pressure hydraulic system
- Range comprises of hoses, gauges, gauge blocks, manifolds, control valves, couplings and fittings, and premium grade hydraulic oil
- Ensures the hydraulic system integrity and safe operation of Hi-Force products



## Jacks

- Capacities from 10 to 60 tonnes
- Stroke lengths up to 305 mm
- Self-contained and remote pump operated with low height and toe lift jack options in aluminium or steel construction

## Toughlift Jacking Systems

- Choice of air or electric models with capacities from 50 to 200 tonnes and lifting heights up to 685 mm
- High flow 3-stage pump unit offers faster advance and retract times
- Solid tyres fitted as standard with option of pneumatic tyres with narrow width wheels and redesigned wheel position for better ground clearance and balance when manoeuvring
- Push button remote hand pendant controlled with 5 metres control cable



## Torque Tools

- Range includes square drive and low profile hexagon hydraulic torque wrenches, manual torque wrenches, mechanical and pneumatic torque multipliers and impact wrenches
- Torque capacities up to 48181 Nm
- Square drive sizes from 3/8" to 2 1/2"
- Ratchet heads available from 24 to 175 mm (1 1/16" to 6 7/8")
- Air or electric driven, high speed, torque wrench pump units for use with hydraulic torque wrenches are available



## Bolt Tensioners

- Range includes both spring assisted and manual piston retraction topside tensioners, sub-sea tensioners and hydraulic tensioning nuts, operating at maximum pressures of 1500 bar
- Covers imperial bolt sizes from 3/4" to 4" and for metric bolt sizes from M16 to M100
- Capacities up to 2649 kN designed to fit most sizes of ANSI and API flanges and some compact flanges
- Manual and air driven bolt tensioner hydraulic pumps suitable for use with bolt tensioner range are available
- Working pressure of 1500 bar and up to 2275 bar for special & customised tensioners



## Nut Splitters

- Hydraulic and self-contained models suitable for nut AF sizes up to 136 mm and bolt sizes up to M95
- Designed to fit on most API and ANSI flanges and can split nuts up to RC44 hardness
- Offers ideal 'cold cut' solution for applications where 'hot work' permits are not allowed





## Flange Spreaders

- Range includes hydraulic, mechanical and self-contained spreader options
- Capacities up to 13 tonnes
- Quick and easy to assemble on the flange, and offers a spread of up to 231 mm



## Hydrotest Pumps

- Offers output pressures up to 2931 bar
- Manually operated or air driven versions with the option of factory fitted integral chart recorder on the air driven pumps
- Reservoir capacities up to 15 litres and suitable for use with various fluids



## Puller Kits

- Range comprises self-contained, manually operated, multi-purpose 2 & 3-way jaw type pullers as well pin and bush replacement tool kit options
- Pulling capacities from 4.5 to 50 tonnes
- High quality, drop forged steel components

## Crimpers & Cutters

- Choice of hydraulic, self-contained or battery operated crimper models
- Crimping output up to 53 tonnes and available with standard dies from 10 mm<sup>2</sup> to 1000 mm<sup>2</sup>
- Cutters range includes mechanical, self-contained and hydraulic cutter options



## Presses

- Capacities from 10 to 200 tonnes and stroke lengths up to 330 mm
- Feature a strong steel frame construction and are designed to provide maximum strength and durability
- Incorporates an adjustable work table with adjustable upper bed on all models 50 tonnes and above



## Speciality Tools

- Single and double-acting hole puncher models with capacities up to 44 tonnes and supplied with standard die sets from 10.5 to 25.5 mm
- 10-tonne capacity knock-out punchers suitable for punching holes on electric control panels and metal plates up to 3.2 mm thickness
- 10-tonne capacity hydraulic pipe bender designed to bend JIS standardised conduit pipes ranging from 16 to 82 mm (½" to 3")





## Torque Wrenches & Screwdrivers

- Extensive range of models covering torque values from 0.3 to 2000 Nm
- Torque screwdrivers are supplied with ¼" hexagon bit holder and feature a single scale reading, either Nm or lbf.ft
- Torque wrenches feature a dual scale reading (Nm & lbf.ft) and are supplied as standard with push-through ratchet for bi-directional torqueing



## Manual Torque Multipliers

- Comprehensive range of standard products up to 47,500 Nm (35,000 lbf.ft) and specials up to 300,000 Nm (220,000 lbf.ft)
- Multiplication ratios from 4.7:1 to 135:1 with accuracy of ±4%
- Output square drives from ¾" to 2 ½"
- Strong, safe Anti Wind-Up Ratchet available on most models for safe and comfortable operation
- Nose extensions for reaching difficult-to-access bolts and a full range of torque transducers for highly accurate torque monitoring are also available



## Battery Torque Tools

- Accurate and reliable transducer-controlled tools featuring a single-speed or auto two-speed gearbox
- Operates between 75 to 4000 Nm (5 to 2950 lbf.ft)
- Equipped with intelligent joint sensing technology which continually measures the joint during tightening and employs dynamic braking to avoid over-torque
- Patent pending cooling system on the EBT-C & EBT-CA compact models allows for continuous operation under heavy use, maintaining optimal operation temperatures
- All models feature a brushless motor, data memory and data transfer capabilities



## Pneumatic Torque Tools

- Powerful models covering torques from 100 to 300,000 Nm (74 to 221,500 lbf.ft)
- Suitable for square drives from ¾" to 3 ½"
- Quiet, non-impacting or pulsing operation ensures low operator fatigue
- Choice of single-speed, auto two-speed or manual two-speed models designed to offer excellent power-to-weight ratio

## Electronic Torque Tools

- High-precision tools including a screwdriver, torque and angle wrenches and torque tools to cover torque values up to 7000 Nm (5160 lbf.ft)
- Large backlit LCD display and alert modes on the tools provide excellent feedback in all working conditions
- Multiple units of measurement including Nm, lbf.ft, lbf.in, d.Nm, kg.cm and kg.m (200 Nm and above)
- Power interruption technology helps to prevent loss of work and continuity if the tool is impacted



## Torque Measurement

- Cost-effective and reliable torque measurement instruments offering the complete solution for torque tool calibration, data logging and data management
- Torque transducers cover torque range from 0.04 to 300,000 Nm and are available in three basic configurations - Static, Impulse Rotary and Annular
- Complemented by a wide range of ancillary products



## Calibration Measurement

- Operates between 0.5 to 7000 Nm (10 to 5000 lbf.ft) and are designed for the static calibration of torque transducers
- Test beams are balanced to maximise energy transfer to transducer during loading and are suitable for clockwise and counter-clockwise operation
- Weight sets in metric or imperial sizes for use with Norbar calibration beams are available





## Industrial Tools

A comprehensive range of ergonomically designed industrial tools with increased user comfort, safety and power output features, and suitable for use in manufacturing, production and maintenance applications

- **Air Impact Wrenches**
  - Max. torque up to 33900 Nm and suitable for square drives from 1/4" to 2 1/2"
  - Pistol, straight or T-handle configuration
- **Air Ratchets**
  - Small and powerful tools offering greater access in confined work areas
  - Torque range up to 103 Nm (76 lbf.ft) and ideal for tightening and loosening threaded fasteners up to 1/2" square drive
- **Cordless Tools**
  - Compact and lightweight design with cordless convenience makes it the ideal choice in the automotive services and MRO markets
  - Delivers torque up to 3000 Nm (2213 lbf.ft) and available in inline, pistol or right angle configuration



## Assembly Solutions

A full line of production fastening equipment in a broad range of configurations that provides superior accuracy, ergonomics and durability for automotive, manufacturing and industrial applications

- **DC Electric Fastening Systems**
  - Precise and fully programmable controllers with extensive torque and angle control to cover all assembly requirements
- **Cordless Precision Fastening Systems**
  - Compact and lightweight cordless fastening solutions that offer improved process control, operator comfort and data communication
- **Air Drills**
  - Handheld and fixtured drills with free speeds up to 6000 RPM and ideal for production and maintenance applications
- **Pulse Tools**
  - Standard and transducerised tools offering torque up to 284 Nm and suitable for fastener sizes from M5 up to M16
- **Pneumatic & Electric Screwdrivers**
  - Broad range of configurations delivering torque up to 15 Nm
- **Nutrunners**
  - High-performance nutrunners with automatic shut-off, stall and cushion clutch types, offering coverage up to 225 Nm (166 in.lb) and free speeds up to 1270 RPM
- **Riveters**
  - Accurate and easily controlled lightweight air riveters with a standard beehive retainer that allows for use with a range of accessories
- **Torque Multipliers**
  - Cordless torque multipliers ensure repeatable accuracy for all torque-critical joints and feature programmable configurations that reduce the number of tools needed for multiple applications
- **Calibration Equipment**
  - Easy-to-use torque testers, analyzers, transducers and joint kits that allow for accurate testing and calibration of precision tools

## Surface Preparation

A complete range of heavy-duty and ergonomically designed tools that deliver superior performance and increased safety in any surface preparation and final finishing applications

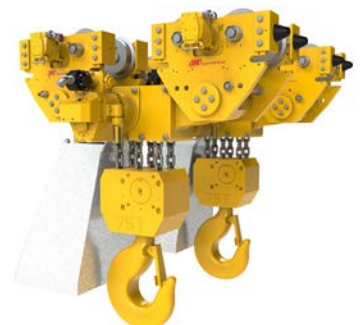
- **Sanders, Polishers & Buffers**
  - Industrial-grade tools designed for applications involving larger areas and heavy duty materials
  - Rated power from 0.2 to 1.35 hp and pad diameter/wheel up to 445 mm (17.5")
- **Grinders**
  - Choice of angle, pencil or die grinders suitable for production and non-production industrial applications
  - Available in a variety of configurations and covers guard sizes from 3" to 9"
- **Air Cutting Tools**
  - Versatile and powerful tools offering cutting capacity up to 1.2 mm or strokes up to 14 mm
  - Ideal for use in bodyshops, sheet metal shops and vehicle repair market
- **Needle & Chisel Scalars**
  - Pistol grip or conventional in-line design scalars suitable for use in a range of markets where removal of medium to heavy surface material is required
  - Low vibration and delivers up to 5500 blows per minute
- **Air Hammers**
  - Compact tools ideal for fast cutting action and general repair work
  - Features a round or hexagonal shank opening and delivers up to 3530 blows per minute



## Lifting & Material Handling

Standard and customised lifting and pulling solutions with improved safety, productivity and operator comfort/ergonomics to cover a wide range of applications

- **Hoists**
  - Manual and powered hoist options with outstanding control, reliability and safety for all load handling operations
  - Lifting capacities from 125 kg to 100 tons
- **Winches**
  - Air, electric or hydraulic winches with lifting capacities from 150 to 10000 kg
  - Robust iron and steel construction provides long-lasting use and makes them ideal for harsh environments and challenging applications
- **BOP Handling Systems**
  - Modular platform design can accommodate gear or piston air motors as well as hydraulic versions and allows users to customise the system to suit the project requirement
  - Capacities from 25 to 250 metric tons
- **Balancers**
  - Precise and strain-free positioning of loads up to 900 kg (2000 lbs)
  - Low air consumption and suitable for continuous duty with minimal maintenance
- **Handling Devices/End Effectors**
  - Standard and custom solutions with manual or powered tilt and rotation packages
  - Equipped with a safety interlock system to prevent accidental release of load
- **Support Structures**
  - Durable and lightweight arm systems, jib cranes and rail profiles designed to meet or exceed all national and international standards



## Pneumatic Tools

Innovative and industry-leading pneumatically operated tools with ergonomic designs and easy-to-use controls, suitable for use in industrial applications



- **Impact Wrenches**
  - Versatile impact wrenches designed for heavy-duty industrial maintenance and production applications
  - Square drive sizes from  $\frac{3}{8}$ " to  $2\frac{1}{2}$ " and maximum reverse torque up to 25000 Nm
- **Nutrunners**
  - Robust and ergonomic tools ideal for torque tightening, maintenance & repair, flange-related and other bolting applications
  - Offers maximum torque up to 4100 Nm and suitable for drive sizes from  $\frac{3}{4}$ " to 1"
- **Ratchet Wrenches**
  - Compact and lightweight tools with square drives from  $\frac{1}{4}$ " to  $\frac{1}{2}$ " and torque range of 5 to 122 Nm (4 to 90 lbf.ft)
  - Designed for general maintenance applications and for operations requiring fastening in tight spaces
- **Screwdrivers**
  - Compact and robust screwdrivers with various clutch types engineered for intensive fastening operations in maintenance & repair and light assembly applications
  - Inline or pistol grip design with free speeds up to 13000 RPM
- **Drills**
  - Straight, angle and pistol handle drills with various speeds and power and drilling capacity from 6 to 50 mm ( $\frac{1}{4}$ " to 2")
  - Can be used on a variety of materials and suitable for maintenance and industrial production applications
- **Grinders**
  - Durable and lightweight grinders with a choice of designs to suit various industrial grinding applications
  - Range offers free speeds up to 60,000 RPM and covers sizes up to 230 mm (9")
- **Sanders & Polishers**
  - Versatile and high productivity tools to suit a range of finishing surface applications from heavy material removal to fine finishing
  - Covers pad diameter range from 10 to 610 mm ( $\frac{3}{8}$ " to 24")
- **Percussive Tools**
  - Range includes chipping hammers, weld flux chippers, and needle, long reach and rust & weld scalers
  - Ideal for heavy-duty applications and general maintenance
- **Specialty & Cutting Tools**
  - Range include cutters, saws, nibblers, shears, engraving pens, caulking guns, air files and blow guns
  - Durable, reliable and covers a variety of applications and materials
- **Riveting Tools**
  - Reliable and easy-to-use riveters with  $\frac{1}{4}$ " (6.4 mm) maximum capacity
  - Ideal for general maintenance and light-duty production applications and for use in the aerospace maintenance, repair and operations market

## Cordless & Electric Tools

Compact and lightweight cordless tools designed to offer the highest level of power and torque with maximum comfort, ease of use and flexibility for users

- **Cordless Impact Wrenches**
  - Compact and versatile battery-powered impact wrenches ideal for automotive and maintenance applications
  - Offers torque capacities up to 1150 Nm and covers square drives from 1/4" to 1/2"
- **Cordless Torque Wrenches**
  - Innovative battery-powered torque wrenches designed for high-precision bolting applications in the energy, mining, construction and railway industries
  - Maximum forward torque of 8100 Nm (5975 lbf.ft) and square drives up to 1 1/2"
- **Cordless Drills**
  - Compact and lightweight battery-powered drills covering a wide spectrum of workshop needs
  - 1/2" and 3/8" spindle lock and keyless chuck and maximum torque up to 82 Nm (60 lbf.ft)
- **Cordless Grinders**
  - Battery-powered angle grinders featuring a brushless motor for maximum power and lock-off throttle for improved safety
  - Wheel capacity of 4.5" and 5" (115 mm and 125 mm) to cover a variety of applications including surface preparation, weld seam removal, body panels and frame grinding and cutting
- **Electric Polishers**
  - Lightweight and versatile electric polishers with 6" (150 mm) pad size and free speed up to 2500 RPM
  - Offers precise control and flexibility in finishing surface applications



## Air Motor Solutions

A comprehensive range of rust and oil-free air motors which combines multiple configurations with a compact design and excellent performance, enabling users to improve the efficiency of their systems

- **Standard Air Motors**
  - Compact and lightweight standard air vane motors suitable for building using handheld machines or any industrial equipment
  - Non-reversible versions delivering a maximum power of 1800 W (2.45 hp), with torque from 0.17 to 299 Nm (0.13 to 221 lbf.ft) and speeds up to 19500 RPM
- **Stainless Steel Air Motors**
  - Compact and heavy-duty stainless steel air motors ideal for use in various applications including ATEX and food and chemical environments
  - Non-reversible versions delivering a maximum power of 390 W (0.23 hp), with torque from 0.17 to 12.1 Nm (0.13 to 8.9 lbf.ft) and speeds up to 19500 RPM
- **Low Speed Air Motors**
  - Economical solution for applications requiring low speed and low torque
  - Non-reversible versions delivering torque up to 110 Nm (81 lbf.ft) at maximum power of 0.37 kW (0.49 hp)





## Impact Wrenches

- Versatile pneumatic impact wrenches with patented exhaust muffler technology that allows discharged air to pass without developing back pressure, thus retaining more power while significantly reducing noise
- Large selection of models from 3/8" to 1" drive sizes and offering up to 3400 Nm loosening torque



## Ratchets

- Lineup includes impacting, long reach and sealed flat head ratchets built with superior internal mechanics, patented quiet technology, and ergonomically designed composite handles
- Available in a choice of lengths, drive sizes from 3/8" to 1/2" and torque capacities up to 176 Nm



## Die Grinders

- Ultra-quiet tools with options of precision collets, spindles and gears to suit the unique application
- Range offers a choice of 0.4 to 1.0 hp motors and free speeds up to 22,000 RPM



## Cut-Off Tools

- Powerful tools designed to handle industrial and heavy-duty automotive needs while ensuring a safe and quiet operation
- Offered in several styles including a reversible and a flex head model and feature collet/wheel sizes up to 4"



## Drills

- Angle and composite reversible drills with chuck sizes of 3/8" and 1/2" and designed for heavy-duty industrial applications
- Feature precision, fully caged planetary gears, and trigger-mounted reverse switches for instant change of direction

## Hammers

- Composite air hammers designed for both light and heavy-duty applications, driving out shackle pins and cutting large bolts, nuts, and fasteners
- Offers up to 3000 blows per minute for fast cutting action and features a multi-patented silencing system that reduces vibration levels to 4.2 m/s<sup>2</sup>



## Sanders & Polishers

- Low profile design with pad sizes from 1 1/4" to 8" and designed for ultra-fine paint finishing and spot repair work
- Option of lubrication free sanders which feature a patented double sealed motor that prevents dust contamination and eliminates oiling



## Specialty Tools

- Range includes air saws, nibblers and scalers and features the latest design which offers reliability, reduced noise levels and operator comfort
- Up to 9,500 strokes/minute motor provides fast cutting action



## Tire Buffers

- Composite tools with a stall resistant 0.75 hp motor and free speeds up to 22,000 RPM making them suitable for tire re-capping and tire buffing jobs
- Available in low speed and powerful high-speed options with reduced noise levels and low air consumption up to 4 CFM





## Industrial Impact Wrenches

- Standard, heavy and super-duty impact wrenches in a selection of hammer mechanisms, handle designs and weights covering the needs for heavy assembly processes, vehicle and heavy plant maintenance as well as intermittent MRO uses
- Square drive sizes from ½" to 1" and provides maximum torque up to 3796 Nm



## Percussion Tools

- Complete line of air and chipping hammers, air saws, chisel and needle scalers, and engraving pens
- Durable steel, aluminium or composite construction makes it suitable for surface preparation applications, foundry, plant maintenance and general contractor work



## Industrial Grinders

- Industrial grinders in various configurations with wheel diameters from 1/8" to 9" and speeds up to 100,000 RPM
- Built-in comfort features such as composite insulated grips and reduced noise and vibration levels make them ideal for heavy material removal, precision engineering, automobile, heavy metal fabrication, paint, refinishing and MRO uses



## Sanders & Polishers

- Industrial sanders and polishers in various configurations with pad sizes from 2" to 7" and speeds up to 20,000 RPM
- Motor range from 0.3 hp for stall resistance up to 2.3 hp governor-controlled motor for demanding general and heavy-duty surface preparation and material removal uses

## Industrial Drills

- Range includes air drill models for high volume industrial applications as well as a separate line specific to the aerospace industry
- Features a powerful 0.4 to 0.9 hp motor for ultimate stall resistance and offers free speeds up to 20,000 RPM



## Screwdrivers

- Wide selection of models in automatic shut-off, in-pistol, straight and "Air on Top" configurations as well as pistol grip positive drive and direct drive
- Offers torque capacities up to 271 Nm and designed to cover a range of applications from high volume self-tapping assembly to general duty light assembly as well as torqueing of non-critical fasteners



## Ratchet Wrenches

- Lightweight but powerful tools with 0.4 hp motor providing high torque up to 50 Nm
- Reduced vibration levels and ergonomic grip for operator comfort make them suitable for high-volume continuous assembly processes, aerospace applications as well as heavy-duty and intermittent maintenance uses



## Rivet Guns

- Powerful and heavy-duty air-hydraulic riveters suitable for use on aluminium, steel and stainless steel rivets from  $\frac{3}{16}$ " to  $\frac{1}{4}$ "
- Offers traction power up to 3700 lbs and is supplied with nose pieces from 2.4 to 6.4 mm





## Flange Alignment Tools

Powerful and portable, hydraulic and mechanical alignment tools ideal for correcting or preventing linear and rotational misalignment on large, medium and small sized flange joints

- **AT Series**
  - Maximum alignment force of up to 90kN (20227 lbf)
  - Mechanical option includes a torque wrench for accurate tool loading while the hydraulic option is available as an individual tool or kit supplied with pressure rated matched pump for safety



## Flange Spreaders

High-quality flange spreader tools with low maintenance design and ideal for separating flange joints during maintenance, installation, testing and decommissioning

- **VIPER-28 Series**
  - Latest revolutionary hydraulic wedge-driven flange spreading tools featuring a narrow width and jaw tip and capable of entering a 5 mm access gap
  - Maximum spreading force of 277 kN (62272 lbf) and spreading distance up to 124 mm when used with stepped blocks
- **FSW Series**
  - Hydraulic and mechanical flange spreading wedge options capable of entering a flange joint access gap as small as 6 mm
  - Maximum spreading force up to 163 kN (16.3T) and spreading distance from 6 to 81 mm when used with stepped blocks
- **Spark Resistant**
  - Spark-resistant flange spreading tools made of bronze can safely separate flanges and reduce the risk of sparks in hazardous areas
  - Also available as individual jaws and stepped blocks for use with the FSW range of flange spreaders



## Lifting Wedges

Lightweight and powerful hydraulic lifting wedge jacks suitable for lifting and pushing applications as well as some flange spreading and dismantling applications

- **WJ Series**
  - Can enter an access gap as small as 9.5 mm and produce a maximum lifting force of 183 kN (18.3T) up to a height of 67.5 mm
  - Capable of operating in any orientation and widely used for lifting, positioning and levelling heavy workshop machinery, gearboxes and process equipment, and can also be paired with skates



## Hand Pumps

Lightweight hydraulic hand pumps with flexible reservoir prevents contamination and enables use in any orientation without the risk of air entering the hydraulic system

- **PHS & PHT Series**
  - Single acting hand pumps equipped with a single outlet port and release valve or twin outlet ports with individual control valves which enables the operator to control two hydraulic systems independently or simultaneously if both valves are left open
  - 2-stage and fitted with a sealed reservoir with capacities up to 1100cc
- **PHD Series**
  - Double acting hand pumps equipped with a simple-to-operate 3-position valve to enable the operator to Advance, Hold and Retract double acting systems
  - 2-stage and fitted with a sealed reservoir with capacities up to 1100cc

## Roller Skates

- Solid, low-level construction of roller skates with minimum maintenance
- Suitable for moving loads across short or long distances in various applications
- Three types of roller skate versions available:
  - Solids** - 5 standard models with capacities from 10 to 80 metric tons
  - Robusts** - 6 standard models with capacities from 15 to 85 metric tons
  - Super Robusts** - 18 standard models with capacities from 12.5 to 500 metric tons



## Heavy Duty Wheels

- Carrying capacities up to 80 kN with a maximum speed of 100 m/min
- Maintenance free, solid construction wheels fitted with ball bearings or self-aligning roller bearings and can be combined with fixed and swivel castors
- Used particularly in machine factories, on construction sites and for the handling of heavy goods



## Sets of Wheels


- Individual carrying capacity up to 1000 kN with a maximum speed of 100 m/min
- Can be used for moving loads on uneven surfaces
- Maintenance free, solid steel construction with grooved bearings, self-aligning or tapered-roller bearings



## Individual Constructions


- Custom designed roller skates can be manufactured to suit customer requirements
- Examples of specialised solutions include skates fitted with four chains, swivelling top plate or centre curved plate as well as skates with horizontal, vertical or internal guide rollers





HES has over fifty years history of providing our customers with a comprehensive and guaranteed repair service for a wide range of hydraulic, pneumatic and electric tools.

Our two U.K. based service centres located in Daventry, Northamptonshire and Sheffield, South Yorkshire are fully equipped with the latest "state of the art" repair and testing equipment. We are approved by all of our principal brands to carry out service, repair and warranty work and our highly skilled technicians have all received extensive service and repair training and certification from our principal brands.



Extensive stock of genuine and original manufacturers spare parts are available through HES and we offer a 90-day warranty against all repair work. Every repair carried out is tested in accordance with the manufacturer's instructions and an individual test and calibration certificate is issued. In addition to our principal brands, we are also able to offer a first class repair service, on all other leading brands of hydraulic, pneumatic and electric tools.

Make the most of your investment in capital intensive tools, through regular servicing and repair, at an economical cost, through HES tool service and repair centres.



Tool hire offers an economical alternative to the purchase of capital-intensive specialized equipment, providing a practical solution for urgent requirements. With a wide range of products available in the HES range, it is sometimes challenging for customers to choose the most suitable tools to invest in. For many clients, the high capital investment required for purchase, particularly for short-term needs or one-off projects, poses a challenge while budget constraints often hinder purchase approval even for necessary equipment.

In most industries, the biggest drain on company profits often results from delays in the availability of tools for completing shutdown and maintenance activities. Additionally in new construction projects, delay penalties during construction and commissioning can easily be avoided if the right tools are available to carry out the work correctly from the outset. HES' tool hire service serves as a timely solution, ensuring swift production recovery and mitigating unnecessary costs linked to maintenance and shutdown activities.

Maintaining a comprehensive rental fleet enables users to request on-site demonstrations at short notice or utilize our hire tools while their equipment undergoes servicing or repairs. HES' tool hire also offers customers an opportunity to evaluate products from our renowned brands, allowing them to make informed decisions about quality and performance before committing to a purchase. This fosters lasting loyalty toward HES, as customers gain confidence in our offerings and appreciate the technical support offered by our product specialists.

HES tool hire is available on short and long-term basis and tools can be mobilised very quickly from the extensive stocks held at our local offices in Daventry and Sheffield. All equipment provided is tested, calibrated and certified before being despatched to the site.

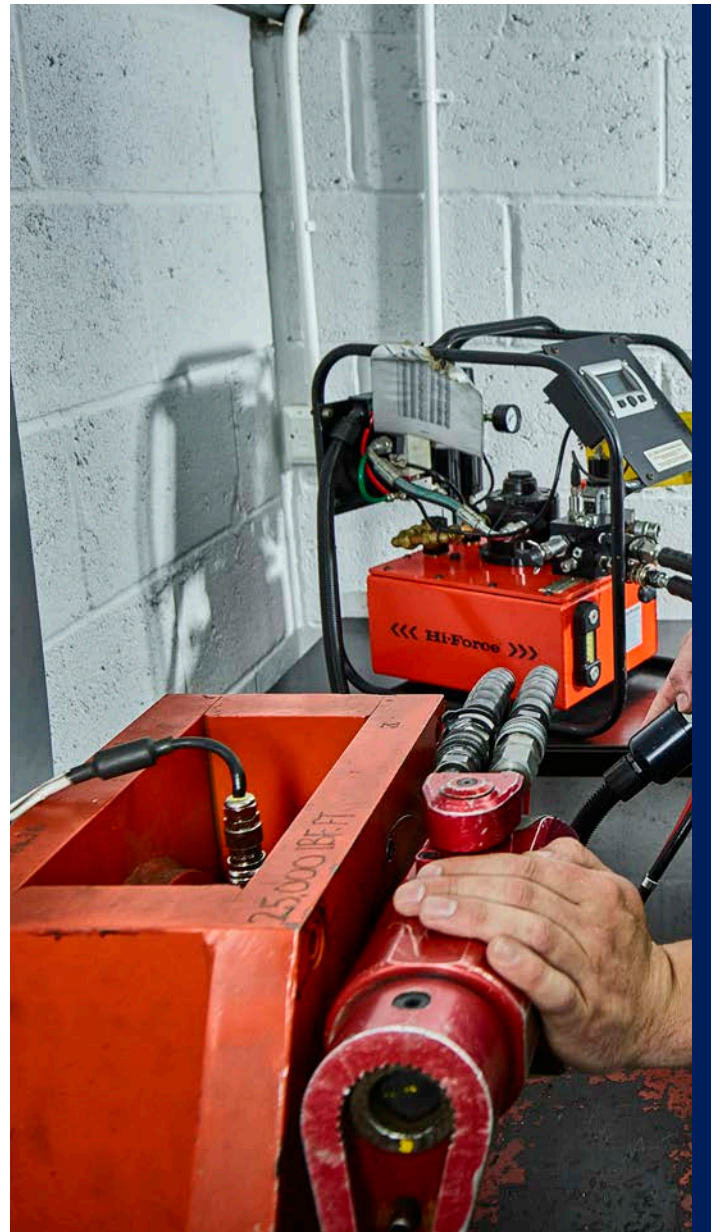
Additionally, HES offers safe and reliable on-site bolting, lifting and jacking services, utilising the high-quality tools from our rental fleet combined with the expertise of our qualified personnel. With a proven track record in successfully delivering projects across diverse sectors, HES has received praise and testimonials from satisfied customers, confirming the excellent performance of our tools and operators, as well as our impeccable on-site safety record.



Regular independent testing and calibration, of your hydraulic and pneumatic tools and equipment, ensures that your tooling performs accurately and consistently during use. In many cases UK and International standards require that high pressure hydraulic and pneumatic tools are tested and calibrated on a regular basis to comply with all necessary quality and safety criteria. The use of equipment, that has not been regularly calibrated, could easily lead to inaccurate loading figures, being applied, when compared to the requirements of the application specifications.

For the vast majority of hydraulic tooling, the key indicator is the hydraulic pressure gauge, which we refer to as the “window to the hydraulic system”. Physical loads, whether they be lifting, compression, torque or tension or simply pressure testing, are entirely dependent on the accuracy of the hydraulic pressure gauge readings and the most common form of pressure gauge is a standard dial type gauge, which should comply with EN837-1 European standard.

HES offers an in-house test and calibration service, including issue of an individual test and calibration certificate, which we recommend is renewed annually or after each major usage. For hydraulic torque and tensioning equipment it is preferable that tooling is returned with the gauge in order that the integrity of the entire system can be checked and validated.



Exposure to excessive vibration levels at work, particularly when using powered tools, may not immediately display obvious harm, but prolonged exposure can lead to irreversible and permanent damage. Unless properly measured and controlled, exposure to hand-held vibration tools can result in HAVS (Hand Arm Vibration Syndrome). In the UK alone, it is estimated that approximately 300,000 working days are lost annually due to HAV-related injuries and conditions.

HES provides HAV (Hand Arm Vibration) testing services, available at both customer sites and within our workshops located in Daventry and Sheffield, using the latest technology to help clients assess and decrease the risk of HAVS within their workforce. Our team comprises five fully qualified HAV engineers trained to IOSH standards, all with extensive experience in this field.

The HAV testing process begins with an initial assessment of the tools to ensure their safe and proper functioning. An accelerometer is then mounted as close to the tool's control trigger as possible to record vibration readings while the tool operates freely. This process is repeated multiple times to determine the highest reading and the mean average. We then simulate the tool's performance under actual working conditions, such as drilling, grinding, impacting, sanding, hammering, or any other respective tool applications. Once this comprehensive testing is completed, our HAV engineers calculate the tool's vibration levels during regular use, and this information is marked on the tool and included in the accompanying certification, indicating the permissible vibration exposure period allowed.

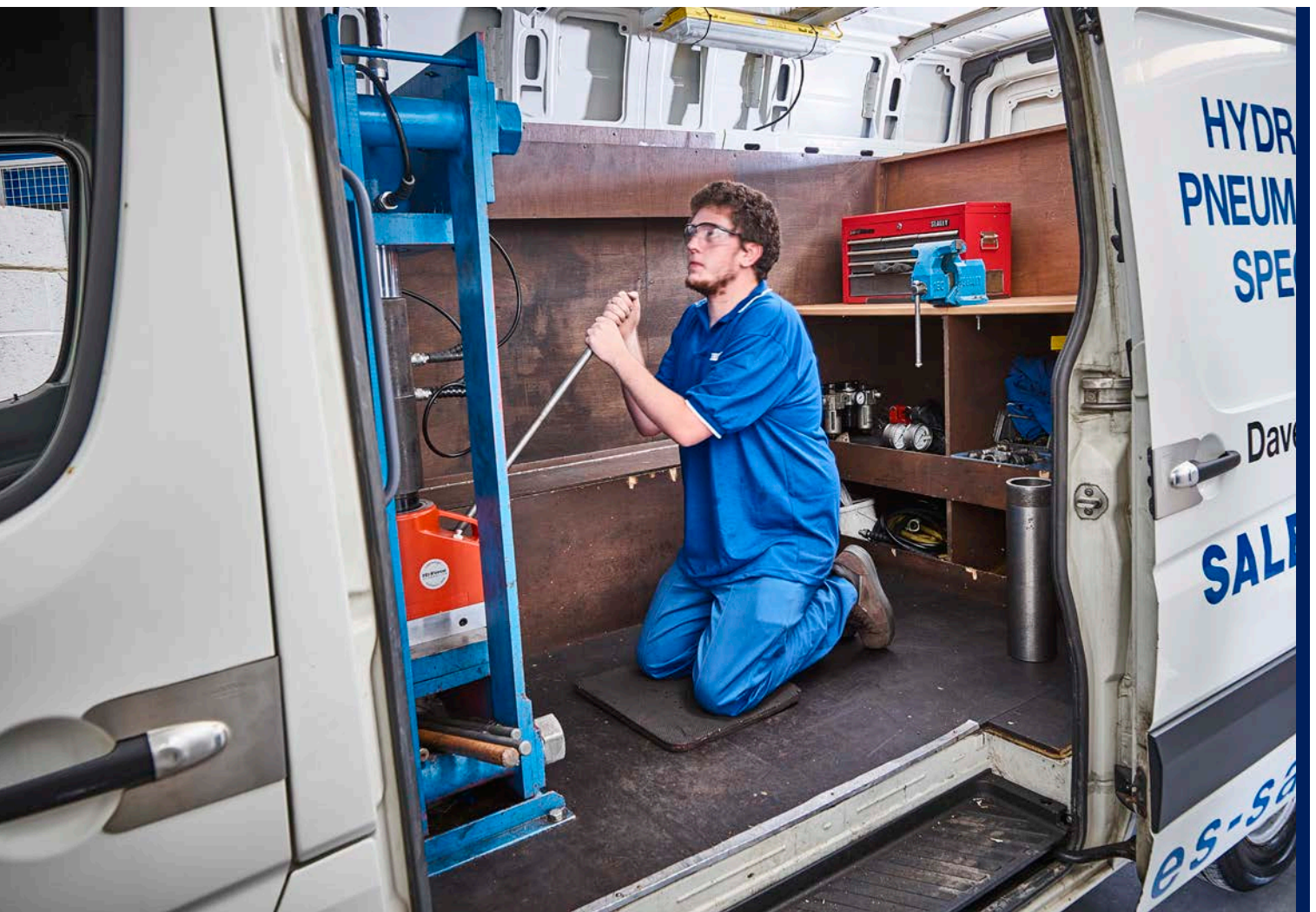


HES operates two specialized on-site test vehicles, fully equipped and accessible across the country, dedicated to conducting routine on-site testing and re-certification of hydraulic, pneumatic, and electric tools. Our on-site testing service includes the provision of tool registers that will record every tool inspected and tested in terms of model number, manufacturer, unique identification number and all previous HES testing history. This service enables users to comply with all current requirements of LOLER 98 lifting regulations, PUWER 98 provision and use of equipment regulations and Health and Safety Guidance (88).

Any tools failing our on-site testing will be notified in writing to the client on the daily test report, along with the reasons for the failure and our recommendations, regarding repair or replacements. We are also able to take all failed tools off-site for a free, no-obligation repair quotation following a detailed strip down and examination at our workshops, along with a competitively priced replacement cost, for those tools found to be beyond economic repair.

HES also provides on-site HAV (Hand Arm Vibration) testing services aimed at assisting clients in evaluating and reducing the risk of HAVS among their workforce. Our team comprises five fully qualified HAV engineers trained to IOSH standards, all with extensive experience in this field.

Additionally, the team can also carry out PAT (Portable Appliance Testing) testing at customer locations for various types of electrical equipment.



HES provides a range of training courses in the safe and correct use, service and repair of hydraulic, manual and pneumatic tools. These courses offer a comprehensive blend of theoretical knowledge and practical application, aiming to prevent accidents and injuries while maximizing the investment made in tool purchase by enhancing tool productivity and lifespan.

As a part of the Hi-Force Group and situated close to the Hi-Force facility in Daventry, HES benefits from access to a fully equipped training school comprising dedicated classroom and practical training areas. The classroom sessions are supported by high-quality graphics and animations, simplifying complex concepts, while the practical training area features an extensive array of designated training tools, allowing participants to engage in hands-on practical training.



Additionally, HES offers the Engineering Construction Industry Training Board (ECITB) Mechanical Joint Integrity (MJl) training courses through Hi-Force, an ECITB-licensed training provider since 2013.

The MJl training course comprises two modules, training and technical tests, and caters specifically to personnel involved in mechanical joint integrity and flange management activities. These courses are delivered by highly skilled ECITB-approved training specialists who have years of "hands-on" experience in bolted joint technology.

The ECITB MJl course is available in flexible training options to cater to different learning preferences. In addition to the instructor-led on-site training, Hi-Force provides e-Learning and blended learning Mechanical Joint Integrity courses. The e-Learning course is delivered through an interactive online platform, allowing delegates to access the training material and complete the modules at their own pace. Upon successful completion of the online course, delegates will receive an ECITB e-Learning Certificate issued by Hi-Force.

The blended learning is a two-part training course, the first part being the e-Learning course followed by a face-to-face practical training session. Delegates who have completed the e-Learning course and received the e-Learning Certificate can proceed to the practical component, which includes a one-day on-site training and assessment session at the Hi-Force training centre. This allows delegates to apply their knowledge in a controlled environment under the guidance of experienced Hi-Force instructors, ensuring competence in mechanical joint integrity practices.

At HES, health and safety are of paramount importance as we continuously strive to enhance the competence levels of personnel in the industry, aiming to minimize the potential risk of accidents or incidents whenever possible. We offer guidance on industry standards and can also provide training courses tailored to suit client specifications which can be delivered onsite at customer locations.



# HES<sup>®</sup>



**Head Office: H.E.S. Sales LTD**

2b Daimler Close, Daventry

Northamptonshire, NN11 8QJ

T: 01327 300322 | E: [daventry@hes-sales.com](mailto:daventry@hes-sales.com)

**Northern Regional Office: H.E.S. Sales LTD**

Unit 3, Vantage Park, Sheffield Road

Sheffield, S9 1RQ

T: 01709 362009 | E: [sheffield@hes-sales.com](mailto:sheffield@hes-sales.com)

[www.hes-sales.com](http://www.hes-sales.com)