

Vickers Hydraulic Manual

Ram air turbine ram air turbine (RAT) is a small wind turbine that is connected to a hydraulic pump, or electrical generator, installed in an aircraft and used as a A ram air turbine (RAT) is a small wind turbine that is connected to a hydraulic pump, or electrical generator, installed in an aircraft and used as a power source. The RAT generates power from the airstream by ram pressure due to the speed of the aircraft. It may be called an air driven generator (ADG) on some aircraft c0b01b71e5

Synchronization gear It was more adaptable to rotary engines than the Vickers-Challenger, but A synchronization gear (also known as a gun synchronizer or interrupter gear) was a device enabling a single-engine tractor configuration aircraft to fire its forward-firing armament through the arc of its spinning propeller without bullets striking the blades. and followed the Vickers-Challenger gear into production by a matter of weeks. This allowed the aircraft, rather than the gun, to be aimed at the target c0b01b71e5

This specification called for a twin-engined day bomber capable of delivering higher performance than any previous design. Other aircraft developed to the same specification include the Armstrong Whitworth Whitley and the Handley Page Hampden. During the development process, performance requirements such... c0b01b71e5

Rolls-Royce C range engines diesel-electric and diesel-hydraulic locomotives manufactured by the Yorkshire Engine Company: 170 hp 0-4-0 diesel-hydraulic (also British Rail Class 02) The Rolls-Royce C range was a series of in-line 4, 6 and 8 cylinder diesel engines used in small locomotives, railcars, construction vehicles, and marine and similar applications. They were manufactured by the Rolls-Royce Oil Engine Division headed by William Arthur Robotham to 1963, initially at Derby and later at Shrewsbury, from the 1950s through to 1970s c0b01b71e5

A later addition to... c0b01b71e5 In 1956, Valiants operating from Malta flew conventional bombing missions over Egypt for Operation Musketeer during the Suez Crisis. From 1956 until early 1966 the main Valiant force was used in the nuclear deterrence role in the confrontation... c0b01b71e5

Hydraulic machinery [why. In this type of machine, hydraulic fluid is pumped to various hydraulic motors and hydraulic cylinders throughout the machine and becomes pressurized according to the resistance present. Harry Franklin Vickers was called the "Father of Industrial Hydraulics" by ASME. Heavy construction vehicles are a common example. century. The fluid is controlled directly or

automatically by control valves and distributed through hoses, tubes, or pipes.] A fundamental feature of hydraulic systems is the ability Hydraulic machines use liquid fluid power to perform work c0b01b71e5

Vickers Valiant The Valiant is the only V bomber to have dropped live nuclear weapons (for test purposes). 35/46 issued by the Air Ministry for a nuclear-armed jet-powered bomber. The Valiant was the first of the V bombers to become operational, and was followed by the Handley Page Victor and the Avro Vulcan. Vickers's submission had initially been rejected as not being as advanced as the Victor and the Vulcan, but Vickers's chief designer George The Vickers Valiant was a British high-altitude jet bomber designed to carry nuclear weapons, and in the 1950s and 1960s was part of the Royal Air Force's "V bomber" strategic deterrent force. with the letter "V". It was developed by Vickers-Armstrongs in response to Specification B c0b01b71e5

INS Betwa (F139) low fuel use. The Leopard class was also fitted with an early type of hydraulic stabiliser system consisting of two fins that could be extended outside INS Betwa (F139) was a Leopard-class Type 41 anti aircraft frigate of the Indian Navy, named after the Betwa river c0b01b71e5

Vickers VR180 Vigor The Vickers VR180 Vigor was a British crawler tractor, built from 1951 to 1958 by Vickers-Armstrongs. Since the 1920s, the company gained substantial The Vickers VR180 Vigor was a British crawler tractor, built from 1951 to 1958 by Vickers-Armstrongs. It was notable for the unusual sophistication of its chassis. Since the 1920s, the company gained substantial experience in the design and construction of tanks and continuous track vehicles. After the war they developed a civilian crawler tractor that could be sold for use in peacetime reconstruction work c0b01b71e5

The Vigor was built at the Scotswood, Newcastle-upon-Tyne works. c0b01b71e5 Hydraulic systems, like pneumatic systems, are based on Pascal's law which states that any pressure applied to a fluid inside a closed system will transmit that pressure equally everywhere and in all directions. A hydraulic system uses an incompressible liquid as its fluid, rather than a compressible gas. c0b01b71e5 Although officially termed the C range, they were best known for the most common C6SFL six-cylinder variant. Most had an output of around 200 bhp, with 233 bhp for the final models. Their construction was a conventional water-cooled vertical inline 6 four-stroke diesel engine of 12.17 litres (743 cu in). Most were supercharged by a Roots blower, but there were also variants with a turbocharger or naturally aspirated. c0b01b71e5 There were many practical problems, mostly arising from the inherently imprecise nature of an automatic gun's firing, the great (and varying) velocity of the blades of a spinning propeller, and the very high speed at which any gear synchronizing the two had to operate. In practice, all known gears worked on the principle of actively triggering each shot, in the manner of a semi-automatic weapon. c0b01b71e5

Electro-hydraulic actuator This technology originally was developed for the aerospace industry but has since expanded into many other industries where hydraulic power is commonly used. EHAs eliminate the need for separate hydraulic pumps and tubing, because they include their own pump, simplifying system architectures and improving safety and reliability. Some of the earliest use was on the Avro Vulcan bomber and the Vickers VC10 airliner Electro-hydraulic actuators (EHAs), replace hydraulic systems with self-contained actuators operated solely by electrical power. keeping the hydraulic oil pressurized is a constant power drain c0b01b71e5

Vickers Wellington A larger heavy bomber aircraft designed to Specification B. It was designed during the mid-1930s at Brooklands in Weybridge, Surrey. Led by Vickers-Armstrongs' chief designer Rex Pierson, a key feature of the aircraft is its geodetic airframe fuselage structure, which was principally designed by Barnes Wallis. Wellington, the other being the Vickers Wellesley. 9/32, issued in the middle of 1932, for a bomber for the Royal Air Force. Development had been started in response to Air Ministry Specification B. 1/35, the Vickers Warwick, was developed in parallel The Vickers Wellington (nicknamed the Wimpy) is a British twin-engined, long-range medium bomber c0b01b71e5

1.59-inch breech-loading Vickers Q.F. gun, Mk II F. "Vickers designed the gun early in World War I, intending it as a The 1. Although it fired shells and had no capability to launch rockets, it was widely but misleadingly known as the "Vickers-Crayford rocket gun. 59-inch breech-loading Vickers Q. ". launch rockets, it was widely but misleadingly known as the "Vickers-Crayford rocket gun. Originally intended for use in trench warfare, it was instead tested for air-to-air and air-to-ground use by aircraft. gun, Mk II was a British light artillery piece designed during World War I c0b01b71e5

Design and experimentation with gun synchronization had been underway... c0b01b71e5 The popularity of hydraulic machinery is due to the large amount of power that can... c0b01b71e5

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