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"Classics of everyday design No 16". Handy Jr. The swing frame "allowed the hydraulic digging arm to swing to the side to dump the bucket under US patent # 2,698,697".^[5]^[6] In April 1948 Wain-Roy Corporation sold the very first hydraulic backhoe, mounted to a Ford Model 8N tractor, to the Connecticut Light and Power Company for \$705.^[5] The first tractor-loader backhoe was a Wain-Roy backhoe mounted to a Frank G. In 1954 the Wain-Roy Corporation negotiated a deal with IH for the Hough TLB full-scale production on several other models of Hough loaders.^[7] In the same year, JCB launched the first European hydraulic loader, followed by a backhoe with a 180° slew, fitted to a tractor, in 1953. On many job sites which would have previously seen a backhoe used, a skid-steer loader and a mini excavator will be used in conjunction to fill the backhoe's role. ^ "Strategic Forum for Construction". Backhoe loaders are general-purpose tools, and are being displaced to some extent by multiple specialist tools like the excavator and the specialty front-end loader, especially with the rise of the mini-excavator. The Washington Times. Cunningham used the 7.6 Gravely Tractor to create the Terramite Model 1 compact backhoe, known as the T1.^[10] Because of the long-time predominance of the JCB marque in the United Kingdom and Ireland, it has become a genericized trademark there, and backhoe-equipped diggers are commonly called JCBs, while the term "backhoe" as an excavator component is almost unknown to the general public in this context. "Obituary: Joseph Bamford | News". Most of these cause a reduction in the signal, such as rain fade. Retrieved 2019-05-25. Notable manufacturers Case CE, United States (subsidiary of CNH, Netherlands) Caterpillar Inc., United States Deere & Company, United States Ford Motor Company, United States Hitachi Construction Machinery (Europe), Netherlands (subsidiary of Hitachi Construction Machinery, Japan) Hydrema, Denmark JCB, United Kingdom Komatsu, Japan Kubota, Japan LiuGong, China Massey Ferguson, United States (subsidiary of AGCO, United States) New Holland Construction, Italy Terex, United States Volvo Construction Equipment, Sweden (subsidiary of Volvo, Sweden) XCMG, China See also Backhoe loader References ^ Glancey, Jonathan (20 April 2007). Allis Chalmers Models B / C / CA / G Tractor Service Repair Manual Allis Chalmers Models WC, WF, RC Series Tractors Service Repair Manual Allis Chalmers 160 Tractor Service Repair Manual Allis Chalmers 170 & 175 Tractor Service Repair Manual Allis Chalmers 180 185 190 190XT 200 7000 Tractor Service Repair Manual Allis Chalmers 7010 7020 7030 7040 7045 7050 7060 7080 Tractor Service Repair Manual Allis Chalmers D-10, D-10 Series III, D-12 & D-12 Series III Tractor Service Repair Manual Allis Chalmers D-14, D-15, D-15 Series II, D-17, D-17 Series III and D-17 SERIES IV Tractor Service Repair Manual Allis Chalmers D-19 and D-19 Diesel Tractor Service Repair Manual Allis Chalmers D-21, D-21 SERIES II, 210 and 220 Tractor Service Repair Manual Deutz-Allis 6240 6250 6260 6265 6275 Tractors Service Repair Shop Manual Loading PreviewSorry, preview is currently unavailable. 2014-09-14. However, backhoes are still in general use. Horizontal stabilizers prevent the vehicle from tipping laterally when the arm is extended.A backhoe—also called rear actor or back actor—is a type of excavating equipment, or digger, consisting of a digging bucket on the end of a two-part articulated arm. With the advent of hydraulic powered attachments such as a tiltrotator, breaker, a grapple or an auger, the backhoe is frequently used in many applications other than excavation and with the tiltrotator attachment serves as an effective tool carrier. This article needs additional citations for verification. Backhoes are usually employed together with loaders and bulldozers. Retrieved 2012-08-12. ^[7] Wain-Roy continued to produce them for Ford until 1963, when Ford started making their own. Holopainen and Roy E. Many backhoes feature quick coupler (quick-attach) mounting systems for simplified attachment mounting, dramatically increasing the machine's utilization on the job site. Type excavating equipment (vehicle) Not to be confused with Backhoe End. A cable subjected to "backhoe fade" is instead a sudden and initially inexplicable loss of signal experienced when a cable is accidentally dug up and damaged or cut. 6 July 2018. By early 1954, two Hough "Payloader" model wheel loaders, the HE and the HF, were available with Wain-Roy backhoes. The buckets on some backhoes may be reconfigured facing forward, making them "hoes". Guardian News and Media Limited. The founder of the JCB company, Joseph Cyril Bamford, is the only Briton to be honored in the Association of Equipment Manufacturers Hall of Fame.^[9] Backhoe fade "Backhoe fade" or "JCB fade" is a term coined by the telecommunications field to refer to accidental damage or complete severing of a communications cable by a backhoe or similar construction activity.^[11]^[12] The term is a play on other types of signal loss, especially on wireless networks. The boom is generally attached to the vehicle through a pivot known as the king-post, which allows the arm to pivot left and right, usually through a total of 180 to 200 degrees. To differentiate, a backhoe on its own dedicated chassis may then be referred to as an excavator. Backhoe loaders can be designed and manufactured from the start as such, or can be the result of a farm tractor equipped with a front end loader (FEL) and rear backhoe. External links Wikimedia Commons has media related to Backhoe loaders. Retrieved 2019-05-17. The Guardian. In 1957, Case developed the first integrated tractor backhoe loader at the Case New Holland plant in Burlington, Vermont, helping contractors complete their work more efficiently.^[8] JCB introduced the first dedicated backhoe loader, incorporating the excavator and the major loader in a single, all-purpose tool.^[9] In 1960, Vaino Holopainen was introduced as "Mr. Backhoe" to Henry Ford II. Wain-Roy Corporation later bought the AC Anderson Company.^[7] Although the Wain-Roy Corporation no longer exists, the Wain-Roy product line of backhoe attachments and couplers is still available through the Woods Equipment Company of Rockford, Illinois, US.^[citation needed] In 1965, Kelly G. Retrieved 2020-02-05. Retrieved 2018-03-27. ^ a b c Horton, Lee (2018). "Network Protection and Redundancy". Though similar looking, the purpose-designed backhoe loaders are much stronger, with the farm variation unsuitable for heavy work. Retrieved 2009-09-15. ^ T7 Operators Handbook, Maintenance, Service & Parts Manual, Terramite Construction Equipment, published 3/2007 ^ "backhoe fade - technical definition". YourDictionary. Retrieved 2007-03-08. 2018-01-19. Retrieved 2019-05-03. It is typically mounted on the back of a tractor or front loader, the latter forming a "backhoe loader" (a US term, but known as a "JCB" in Ireland and the UK).^[1] The section of the arm closest to the vehicle is known as the boom, while the section that carries the bucket is known as the dipper (or dipper-stick), both terms derived from steam shovels. www.digrock.com. Original source: Webster's New World Telecom Dictionary, 2010 by Wiley Publishing, Inc. You can download the paper by clicking the button above. Sometimes a backhoe bucket is reversed to work in a power shovel configuration.^[3] Sometimes a backhoe arm is used as a crane, by slinging the lifted object from the support linkages behind the scoop (advisably not from the teeth, preferably from a hook welded on a bucket, quick coupler or tiltrotator).^[4] Origins Wain-Roy Backhoe mounted to a Ford tractor 1948 Terramite T1 US Patent # 3362546A The backhoe swing frame was invented in 1947 by Vaino (pronounced "Waino"). Archived from the original on 2014-09-14. In North America, this arrangement is often referred to as simply a backhoe, or when on a chassis originally derived from farm tractors, a tractor-loader backhoe. Retrieved 2019-04-23. yourdictionary.com. ^ "Integrated tractor backhoe has roots in southeast Iowa". The difference between the backhoe and the skid-steer loader, are that the backhoe has attachments back and front, where as the skid-steer loader only has front attachments, however, the attachment versatility on a skid-steer loader is much greater. ^ "Tractor Back Hoe & Loader Mechanism". ^ a b "These are the forgotten inventors of the backhoe, new book claims". London. YouTube. ^ "Wain-Roy and the invention of the backhoe as told in 1991". Archived from the original on September 30, 2007. A tractor-loader backhoe (TLB) is a tractor-like vehicle with a backhoe at the rear, a front loader on the other and a swivelling seat to position the operator facing whichever direction is needed at the time. Description Excavator digging in Tokyo, Japan Kobelco Excavator in shovel configuration The term "backhoe" refers to the action of the bucket, not its location on the vehicle.^[2] That is, a backhoe digs by drawing earth backwards, rather than lifting it with a forward motion like a person shovelling, a steam shovel, or a bulldozer. "Wain-Roy and the Invention of the Backhoe". Neptec Optical Solutions. ^ a b Phillips, David (2001-03-05). ^ "Power Shovels" (PDF). Please help improve this article by adding citations to reliable sources. 2010. The F.G. Hough Company was a subsidiary of the International Harvester Company. ^ Urimindi, Reddy (2005). Excavators that use a backhoe are sometimes called "trackhoes" by people who do not realize the name is due to the action of the bucket, not its location on a backhoe loader. Hough model "HE" in 1952 in Holden, Massachusetts, US, for the Holden Water Department. Unsourced material may be challenged and removed.Find sources: "Backhoe" – news – newspapers – books – scholar – JSTOR (April 2011) (Learn how and when to remove this template message) Rear view of a JCB 3CX; the backhoe is removing a tree stump. HowStuffWorks page on backhoe loaders, including animations and a simulator How Products Are Made: Backhoe - from enotes.com Retrieved from " Equipment World. Retrieved 19 August 2017. (refer to 'backhoe fade').

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