

SEVENTY YEARS

T was seventy years ago when Dan Rudge built the first Rudge bicycle and laid the foundations of the famous house of Rudge-Whitworth as we know

From the very first the Rudge was always a favourite with the racing man, and, in those early haps even more important as a quality that it was never to lose. neighbourhood of £20.

The untimely death of Dan an amalgamation of the firm with Haynes and Jefferis and Smith and Starley, but such was its power that the Rudge name was still continued as "D. Rudge and Co. and the Coventry Tricycle Company." That the products of the VERY cyclist combined firms still maintained a reputation for quality is shown by the fact that gold medals were obtained at international exhibitions in London, 1872; Philadelphia, 1876; Brussels, 1877; and Paris, 1878. One of the firm's most renowned products at this time was the Coventry Rotary tricycle, which had the largest sale of any tricycle ever sold, for which the firm was honoured in 1895 by an order from H.R.H. the Princess of Wales (later, Queen Alexandra), the first of many royal orders.

Variations on "Rudge"

N the ensuing decade the firm changed its title no fewer than three times, but it always (1926)? retained the famous Rudge name in some form or other. Finally came the amalgamation with the Whitworth Cycle Company, Ltd., name of Rudge-Whitworth, Ltd.

This amalgamation was fol- at Paddington. lowed by a move to Birmingham on the part of the offices and staff, but in the following year they were again in Coventry, where they remained until December, 1938.

AFTER . . . a visit to the new Rudge - Whitworth factory at Hayes, Middlesex

days, racing successes were per- keting developments—the intro- executives were told to planduction of a guarantee and a re- sparing no expense—the finest sales stimulant than they are duction in price to £12 12s.—the cycle factory in the world. to-day. The firm soon made a latter at a time when the "basic What a thrill they must have name for itself, a name for price" of a bicycle was in the had preparing those plans and

Two years later another bold Rudge, in 1880, was followed by move was made in the marketing field. Prices of the 1898 model Rudge-Whitworths were reduced to ten guineas, and the first easy methods of cycle production. payment system evolved.

even more distinctive trade mark main buildings are two in numthan the human hand which ap- ber and lie side by side, covering pears in headplate and chain- an area of no less than 270,000 wheel. This sloping crown was square feet. first introduced in 1901.

Two years later came another "... Don't Trudge It" Rudge development—the cotterless crank. (I rode a pre-war Rudge fitted with these back in of gazing at those clean cotterless

Many other innovations in the world of cycling are due to chains.) Rudges—remember the all-rubber pedal (1931), the built-in dynamo set (1933), the coupled brakes

While, as for racing successes, Karel Kaers rode a mile in 1 min. 50 3-5 sec.—a world's record—on his Rudge at Wembley, and Harry in 1894, under the now famous Hill set up the British hour record of 28 miles 868 yards on a Rudge

"Spare No Expense"

In 1896 came two startling mar- move from Coventry, the various

watching the factory take shape before their eyes!

At Hayes, a few miles from the centre of London, stands the new factory, the last word in modern

Dominated by a tall watertower, carrying a huge version of the familiar Rudge trade mark on VERY cyclist knows the its side, the new buildings are famous Rudge sloping fork severely practical and yet beauticrown—it is probably an ful by reason of that severity. The

HAIN conveyors are the keynote of the Rudge works—(I couldn't help re-1924, and can recall the pleasure calling the slogan "Rudge it—of gazing at those clean cotterless don't trudge it," for here nothing is carried by hand—Rudge parts march on endlessly by conveyor

All assembly and sub-assembly work is carried out with the aid of cunningly-routed conveyors. A frame starts its life as a set of lugs and lengths of tubing in the frame stores. Down the conveyor track it goes until, clamped rigidly into a jig, the tubes are spot welded to the lugs—a far quicker method than the old-fashioned drilling and pinning-and it is off again on its way to the brazing shop. Here is the place to spend a cold such that they can be cleaned NOUGH of history. Now come winter's day! All around you down instantly. with me to the brand new are flaring gas torches and baths Rudge factory at Hayes. of molten brass, and yet there is lose lacquer is used-there is a When the company decided to not the slightest trace of fumes, battery of spraying booths. From

Frames are liquid brazed by dip- veyor through a special low-temping them into a bath of molten perature drying oven, whilst for metal; other parts (forks and the black parts there are two highhandlebars, etc.) are brazed by temperature ovens also equipped open hearths, fired by powerful with conveyor systems. Thermogas torches mounted on adjustable static control of the ovens and stands, leaving the operator free to accurate timing of the conveyor use both hands. After brazing, the mean exact control of the drying parts pass on a conveyor through operation here. a series of baths which remove surplus brass and scale as if by magic.

Unique Plating Plant

HE plating plant is unique, for to it come the parts already highly polished. Thus, when the nickel and chromium coatings have been applied, there is no further abrasive process between the nickel and chrome plating, and so the thick- bly lines. ness of the plating is maintained everywhere. And what a plating plant it is! No less than 138 ft. in length, with no fewer than fourteen different baths, and designed to give one complete set of bright nickel and chrome-plated bicycle component parts per

Meanwhile, the frame and other about-to-be-enamelled parts are spray-bonderised — a chemical priming process which prevents rust—and this process is carried out at Hayes on the most modern spray-bonderising plant in the country. It has a capacity of 16,000 sets of parts per week.

Cream Tiles

is still travelling on the conveyor (right)

OR cleanliness and efficiency all other enamelling plants must give pride of place to the equipment in the new Rudge factory. Here the dipping baths stand on ramps surfaced with cream-glazed tiles, down which surplus enamel runs into troughs, whence it returns through filters to the main tanks. Cream tiles in an enamelling plant are a practical novelty, since the surface is

For colour work—where cellu-

so perfect is the ventilation. here the parts are taken by con-

From the machine shop, from the plating plant, from the enamelling ovens, and from "outside" suppliers the various parts in their finished state converge on the cycle assembly stores.

Hawk-eyed inspectors examined them for possible flaws and ruthlessly turned down any which have been found wanting, and now the remainder are put in bins ready for issue to the assem-

Moving Bench

HE main assembly lines run the length of their respective shops. The moving bench starts in the stores. As the order cards, bearing the complete specification, come in, girls select the appropriate frame, bars, wheels, tyres, etc.—everything down to the last nut and bolt-from the storage bins, and put them in place on the moving bench.

As the bench moves on, so various operatives fulfil their allotted tasks, and, bit by bit, the pile of parts grows into a finished bicycle.

Complete at last, the bicycle undergoes a final—and how thorough!-inspection; then it is off on another conveyor to be wrapped and labelled in transit, ready for the dispatch department.

1869-1939

ES, if Dan Rudge could see it, how he would rub his eyes! Modern materials, modern methods, these would be new to him; but there is one thing he would find in the Rudge bicycle of to-day that he would recognise as one of its original 1869 features, and that is-quality.

-W. J. Mills



