

U-Tier® Automatic Rebar Tying Machine

The U-Tier Automatic Rebar Tying Machine was introduced in 1998 and is fast becoming a workingman's best friend. U-Tier is uniquely designed to replace the manual and backbreaking process of tying rebar. U-Tier saves contractors both time and money and is the first product of this type.

U-Tier holds the crossed reinforcing bars, feeds the tie wire, winds, cuts, and ties in one action. The result is a strong, single strand, double wrap tie. It is the only machine available in the world to tie 1 mm (18 gauge) diameter wire. Each tie is a double strand tie, which is completed in 1.6 seconds. U-Tier decreases wasted wire and is the most economical machine in the marketplace. The suggested retail price of the U-Tier machine is approximately \$1,800. U-Tier can be used in numerous applications including highways, roads and bridges, concrete slabs, precast/prestressed, electrical vaults, foundations, cages, and manholes.

The machine runs on a 12V Nickel-Cadmium battery and can perform up to 450 ties between recharges. The machine is lightweight weighing between 6-7 pounds. U-Tier machines require purchasing wire from U-Tier. The wire is sold by the case and there are 40 spools in each case. Each spool will produce 120 to 200 ties so a case of wire will tie a minimum of 4800-8000 ties. U-Wire retails for approximately \$120/case. The cost per tie varies between 1.5 cents to 2.5 cents per tie.

Advantages of U-Tier include saving time through productivity improvements, reduction of on the job injuries, consistent results, and reduction of material costs by decreasing wire consumption. U-Tier is an innovative, state of the art machine that is changing the way reinforcing steel is tied and vastly improving the ergonomics of the task.

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Figure 1. U-Tier VUT Model



Figure 2. Demo of U-Tier being used.



Figure 3. U-Tier HUT Model



Figure 4. Photo of tied joint.



Figure 5. Schematic of joint tied with U-Tier