HUDY SLOT TIRE TRUER
#10 3100

Congratulations on purchasing your new HUDY slot car tire truer. Thanks to its small size, low weight, and simple use, you can take it to every race or practice. And of course, it gives you the most precise and optimal tire grinding available in a portable package.

This professional-quality slot car tire grinder features a compact duraluminum base that gives you a solid, stable platform for grinding. The consistent trueing quality is provided by a grinding drum that is precisely pressed onto a milled spindle shaft. The grinding spindle, along with the axle spindle, rides on high-quality shielded ball bearings. This eliminates all vibrations when grinding while at the same time increasing the grinder's functional life.

Another new feature is the evenly applied grain surface on the grinding drum. This stabilizes the drum, eliminates vibration and provides perfect quality grinding.

Two more big advantages of the grinder are a collecting tray for ground rubber and a protective cover for the grinding drum. Both these features enable a safe and clean grinding process.

Tire diameter, flatness, and roundness of a ground tire can be easily adjusted on this tire truer. Tire width can also be easily changed by using a built-in adjustable slicing needle.

MAIN FEATURES:
- **Specially-designed grinding drum**
- **Pre-installed slave motor, switch box, and power cables**
- **Two sizes of wheel axles are included (1/8" & 3/32")**
- **New, long-life protective case**

IMPORTANT WARNING
- **Please read these instructions before using**
- **do not touch any rotating parts**
- **Always use protective glasses**
- **DO NOT touch rotating parts when in use**
- **DO NOT remove protective cover of abrasive disk when in use**
- **Keep slicing needle in protective cover when not in use**

OPTIONAL:
#10 3063 Wheel axle 3.0 mm

ELECTRICAL CONNECTION

Connect the power cable to a 12V power source, making sure you connect the cables to the proper polarity. The drive motor must rotate clockwise (CW) when looked at from the end of the pulley (left side). This will ensure the ground rubber falls downward into the collecting tray beneath the drum.

TIRE GRINDING

Before using the tire truer for the first time, it is necessary to adjust the cutting angle by adjusting the Middle Support Block (10 3028). Loosen the M4 screw that secures the middle support block to the base (on the bottom), then adjust the middle support block until the headstock is parallel with the grinding drum. This will ensure the grinding plane of the tire is flat, not angled. Tighten the M4 screw. We recommend you use a small amount of medium grade (blue) threadlock compound on the adjustment screws to prevent them from loosening.

Pivot the Axle Holder (10 3025) away from the grinding drum by tightening the Backstop Screw (10 3054). Fully loosen the Feed Thumbscrew (10 3053) from the axle holder, but do not remove it.

Mount the tire to the axle (10 6060 or 10 3061) with the screws. With the truer turned off, adjust the Backstop Screw (10 3054) until the tire just touches the grinding drum. Tighten the Feed Thumbscrew (10 3053) until it just touches the Thumbscrew Back Post (10 3033), and the tire is away from the grinding drum. You are now ready to grind your first tire.

Turn on the truer, and slowly move the tire toward the grinding drum by loosening (CCW) the Feed Thumbscrew (10 3053). When it is loosened all the way, the tire will be touching the grinding drum, and the Backstop

TIRE GRINDING (cont'd)

Screw (10 3054) will prevent the tire from being ground any further. Check the diameter of the tire, and if necessary adjust the Backstop Screw (10 3054) to make the tire a smaller diameter (turn screw CCW) or a larger diameter (turn screw CW). After you have reached the desired grinding diameter, do not move the Backstop Screw (10 3054) unless you want to set a different tire diameter. Back the tire away from the grinding drum by turning CW the Feed Thumbscrew (10 3053), turn off the truer, and remove the tire. Repeat this procedure for truing more tires to the same diameter.

To smooth the surface of a ground tire, press the Wheelaxle Pulley (10 3050) in the axial direction several times while grinding.

To slice a tire to a desired width, move the Needle Holder (10 3055) so the needle tip is at the appropriate position on the tire. Tighten the setscrew on the needle holder. With the truer on, carefully move the Needle Cover (10 3057) to the tire until the needle slices through.

MAINTENANCE

After grinding, dispose of the ground rubber from the collection tray. Remove the Grinding Drum Cover (10 3048) and clean the dust and rubber from the entire truer with a paintbrush or compressed air.
It is absolutely necessary for all moving parts to move freely; if the truer is not cleaned, built-up ground rubber will eventually impede operation. Check rubber pulley belts periodically for cracking and stretching, and replace as needed.

If you follow the above instructions about operation and maintenance, HUDY guarantees high quality, high reliability tire truing as well as a long life span for this great tool.

We hope that you will be satisfied with the performance and quality of this equipment. If you have any questions or advice about how to improve this equipment, please do not hesitate to contact us.
Thank you for choosing HUDY products!

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#10 3100 HUDY SLOT TIRE TRUER

10 1096	SWITCH HOLDER
10 1097	POWER CABLE
10 2232	SWITCH
10 3011	BASE BOARD
10 3016	MOTOR SUPPORT BRACKET
10 3020	GRINDING DRUM SUPPORT BRACKET
10 3025	AXLE HOLDER
10 3028	MIDDLE SUPPORT BLOCK
10 3033	THUMBSCREW BACK POST
10 3040	GRINDING DRUM
10 3048	GRINDING DRUM COVER
10 3050	WHEELAXLE PULLEY
10 3051	GRINDING DRUM PULLEY
10 3053	FEED THUMBSCREW
10 3054	BACKSTOP SCREW M4x20
10 3055	NEEDLE HOLDER
10 3057	NEEDLE COVER
10 3058	MOTOR PULLEY
10 3060	WHEEL AXLE 3.0 MM - 3/32"
10 3061	WHEEL AXLE 3.0 MM - 1/8'
10 3063	WHEEL AXLE 3.0 - 3.0 MM (OPTIONAL)
10 3064	AXLE SUPPORT PIN
10 3065	SLICING NEEDLE GUIDE PIN
10 3066	SLICING NEEDLE
20 1030	MOTOR FRS 550
20 2031	BALL BEARING 3 X 8 X 4 (4)
20 2310	NEEDLE COVER PIVOT PIN
20 3025	RUBBER PULLEY BELT 25 X 2.65
20 3035	RUBBER PULLEY BELT 35.5 X 2.65
20 3101	RUBBER FEET (4)
20 3133	ANTI-VIBRATION SPACER

10 3075	PLASTIC CASE FOR 10 3100 (SET)
10 3076	PLASTIC CASE BOTTOM (FOR 10 3100)
10 3077	PLASTIC CASE TOP (FOR 10 3100)

M3 X 4 SET SCREW (4)
M3 X 10 ALLEN BOLT (2)
M4 X 4 SET SCREW (4)
M4 X 6 ALLEN BOLT (2)
M4 X 10 ALLEN BOLT (5)