

Motorcycle Wheel Balancing Stand



SAFETY INFORMATION

⚠ Warning!

- **DO NOT** allow children or those unfamiliar with this product to use or assemble it. Do not use or assemble it while under the influence of alcohol, drugs, or any medication that negatively affects your judgment or reflexes. Keep children and bystanders away during use.
- Keep your work site clean and well lit. Cluttered and dark work areas invite accidents.
- For best results, keep the stand clean and dry. Remove any fluid, oil, or grease before and after work.
- **ALWAYS** use personal protective equipment (PPE) suitable to your task. Always wear ANSI-approved eye and hand protection while using this product. Nonslip footwear is also highly recommended. Other equipment such as ear, head, and body protection may also be necessary depending on your work and other equipment.
- Do not wear loose clothing or jewelry and keep hair, clothing, gloves, hoses, and tools away from any moving parts during use.
- Do not overreach. Keep proper footing and balance at all times.
- **DO NOT** use excessive pressure with this product and do not force it or its attachments.
- Maintain this product. Check for misalignment, binding, wear, or other damage before use. If any damage is detected, repair or replace the problematic components before further use. In a large shop, mark such tools **DO NOT USE** until they have been repaired. Only replace components with identical parts.

SPECIFICATIONS

Material		AISI 1045 Steel	
Dimensions		19×21.3×11.4 in.	49×54×29 cm
Fitment	Tire Width	8.3 in.	21 cm
	Radius	17.7 in.	45 cm
	Axle Diameter	0.5–1.5 in.	12–38 mm
	Weight Capacity	88.2 lb.	40 kg
Net Weight		27.6 lb.	12.5 kg

PARTS LIST

Base × 1
 Feet × 4
 Support Brackets × 2
 Axle × 1

Cones × 2
 Centering Bolts with Cones × 2
 Spirit Level × 1
 M8 Bolts × 8

M3 Bolts × 3
 3 mm Hex Wrench × 1
 5 mm Hex Wrench × 1

ASSEMBLY INSTRUCTIONS

1. Screw the two support brackets to the base using the M8 bolts and tighten them with the 5 mm hex wrench. Make sure the bearings face inwards.
2. Use the provided 3 mm hex wrench and M3 bolts to install the spirit level.
3. Thread the centering bolt through the upright brackets and screw a cone onto the end of each one.
4. Attach the four feet to the base. Level the stand using the spirit level and adjust the feet as needed.
5. Slide a cone onto each side of the axle. Use the 3 mm hex wrench to tighten them.
6. Place the axle on top of the bearings.
7. Insert the truing pointer into its holder and tighten the holding screw. To adjust the pointer's height, loosen the nut on the back, and move it up or down.

OPERATION

1. Use the stand on a stable and level surface. Adjust the feet until the frame is level.
2. If you've previously installed the cones on the axle, use the 3 mm hex wrench to loosen their grub nuts and then remove them.
3. Insert the axle through the motorcycle wheel's hollow axle. Slide a cone onto each end of the axle, ensuring that the tapered ends enter the wheel bearings. Use the 3 mm hex wrench to tighten the grub screw in each cone to secure them when the wheel is central on the spindle. Verify that the wheel is centered and securely held by the cones.
4. Gently rotate the wheel while it's securely on the stand. The spot at the bottom of the wheel when it settles is the heavy spot.
5. With the heavy spot at the bottom, mark the top of the wheel directly opposite the heavy spot using chalk or adhesive tape. This mark is the light spot.
6. Gently spin the wheel again to verify that the heavy spot will settle at the bottom.
7. Attach wheel weights to the rim of the wheel at the light spot and spin the wheel gently.
8. If the light spot falls to the bottom, too much weight has been added to the wheel. If the heavy spot falls to the bottom, not enough weight has been added to the wheel. Adjust the weight accordingly.
9. Turn the wheel 90° horizontally and observe its movement. If the light spot falls to the bottom, too much weight has been added. If the heavy spot falls, too little weight has been added. Adjust the weight accordingly.
10. Repeat Steps 6 to 8 until the light spot and heavy spot are on a horizontal line through the center of the wheel. Once achieved, the wheel should stay still at any position throughout its circumference.
11. In order to true the rim of the wheel, use the threaded centering bolts to hold the wheel securely in place. Use a spoke wrench, spoke torque wrench, and a dial gauge (not included) to true the rim.
12. To check for lateral run out, spin the wheel and observe its movement. Loosen the nut on the truing pointer and move it as close to the wheel as possible.
13. If the wheel moves closer to the pointer at any point, use a spoke wrench to tighten the spokes on the opposite side of the wheel rim to move it away from the pointer. When tightening spokes, only do so in quarter-turn increments.
14. If the wheel moves away from the pointer, tighten the spokes on the side of the wheel rim nearest to the pointer. The number of spokes and the number of turns needed to correct the run out will depend on the severity of the issue.
15. Continue adjusting the spokes until the lateral run out is corrected. Check the manufacturer's data for the wheel's run-out tolerances.

MAINTENANCE

- Remove any detritus from the surface of the used stand with a dry brush or cloth after use. Do not rinse it or use abrasive cleaners or caustic chemicals.
- For best results, lubricate balancing stand with high-quality anticorrosive oil between uses.
- Check the parts of the tools periodically for any wear or damage. Repair or replace any problematic parts before further use.
- If the balancing stand will not be used for an extended period of time, lubricate it and store it in a cool dry place inaccessible to children.

CONTACT US

Thank you for choosing our products! If you have any questions or comments, contact us at support@orionmotortech.com and we'll resolve your issue ASAP!

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