



2011

IGSA Rules and Regulations & Technical Inspection Manual



X. GRAVITY BIKE SPECIFICATIONS

- A. **FRAME:** Bike frame must be free of any cracks or rust. All welds must be in good condition.
- B. **WEIGHT: Total weight of the bike, competitor and all protective gear in racing configuration cannot exceed one-hundred-thirty-two kilograms (132kg / 291lbs).** The complete bike cannot exceed thirty-four kilograms (34kg / 75lbs). Soft ballast added to the competitors body cannot exceed ten kilograms (10kg / 22lbs). If a heavyweight competitor is unable to comply with the maximum combined weight rule (132kg / 291lbs), they will still be allowed to compete if their bike does not exceed sixteen kilograms (16kg / 35lbs). No added ballast will be permitted on either the bike or the body of overweight competitors. **A 0.5 kg allowance will be given for variances in the accuracy of scales.**
- C. **LENGTH:** Wheel base (axle to axle) must not exceed one hundred twenty-seven centimeters (127cm / 50").
- D. **FAIRINGS:** Small fairings to accommodate numbers are allowed on the front and rear.
1. **Front:** A small fairing of any size or shape that can be designed to fit inside a box with the dimensions twenty-five centimeters (25cm / 10") by thirty-one centimeters (31cm / 12.2") is allowed.
 2. **Rear:** A small fender like tailpiece can extend a maximum of ten centimeters (10cm / 3.93") beyond the rear tire. It cannot exceed fifteen centimeters (15cm / 5.90") in width.
- E. **FRONT END:** Front fairing cannot extend more than fifteen centimeters (15cm / 5.90") ahead of front tire.
- F. **BRAKES:** Bikes must have working front and rear brakes. Brakes must be adequate to stop the bike in one hundred meters (100m / 328') from a speed of one hundred kilometers per hour (100kph / 62mph) or the competitor will be disqualified. Disc type brakes are recommended.
- G. **WHEELS:** Wheel size cannot exceed fifty-one centimeters (51cm / 20"). Disk wheels will be allowed on the rear only.
- H. **TIRES:** Tires must be in good condition with no visible cracks in the sidewall or tread. If a particular tire proves to have a significant performance advantage and is not made commercially available* for a reasonable price, it could be specifically banned in the future.
*Commercially available means the product must have been distributed to at least 24 people outside the company.
- I. **FOOT PEGS / KNEELER BOARDS:** Foot pegs at or near the rear axle or kneeler boards are required. Foot pegs must be at least three centimeters (3cm / 1.18") in diameter. Kneeler boards must not have any sharp corners.
- J. **HANDLEBARS:** Width of handlebars cannot exceed sixty-one centimeters (61cm / 24"). Grips are required and must be in good condition.
- K. **SEAT:** A seat is required and must be securely mounted to the bike. No tape or zip ties.
- L. **NUMBER AREA:** All competitors are required to have their IGSA assigned number located on their bike or a bib. Bibs must be worn as designed. Bike numbers must be visible on the front and both sides of the bike when the competitor is in the riding position. Bib numbers must be placed on both the front and back. The number area and number must be of contrasting colors and highly visible from six meters (6m / 20') away.
- M. **NUMBERS:** Number digits must be a minimum of seven point six centimeters (7.5cm / 2.95") tall each. Some promoters may issue a bib or bib panel with a number other than your IGSA assigned number. In this case the event number supersedes the IGSA assigned number. **(For number assignment see section XVIII. A)**

- N. BALLAST:** Ballast is allowed on both the bike and the competitor to reach the maximum weight limit. Any weight added to the bike must be securely fastened to the frame. Tape, tie wraps or fasteners other than bolts or hose clamps are not legal for attaching weight. Ballast weight on bikes must be fastened with either a minimum six-millimeter (6mm / 0.236") through bolt or double hose clamps. Ballast weights in excess of one kilogram (1kg / 2.2lbs) will require a minimum of thirteen-millimeter (13mm / 0.511") through bolt. Bolt and nut installations must be either cotter keyed or safety wired. Ballast added to the competitor must be soft weights only and cannot exceed ten kilograms (10kg / 22lbs). Only shot or sand will be accepted and must be securely contained to avoid spillage on the racecourse. Body weights must be worn under leathers. Tech inspectors are charged to make thorough inspections of weight installation to make sure they meet all safety requirements.

XI. FAIRING GRAVITY BIKE SPECIFICATIONS

- A. FRAME:** Bike frame must be free of any cracks or rust. All welds must be in good condition.
- B. WEIGHT:** Total weight of the bike, competitor and all protective gear in racing configuration cannot exceed one-hundred-thirty-six kilograms (136kg / 299lbs). The complete bike cannot exceed thirty-four kilograms (34kg / 75lbs). Soft ballast added to the competitors body cannot exceed ten kilograms (10kg / 22lbs). If a heavyweight competitor is unable to comply with the maximum combined weight rule (136kg / 299lbs), they will still be allowed to compete if their bike does not exceed twenty-three kilograms (23kg / 50lbs). No added ballast will be permitted on either the bike or the body of overweight competitors. **A 0.5 kg allowance will be given for variances in the accuracy of scales.**
- C. LENGTH:** Wheel base (axle to axle) must not exceed one hundred twenty seven centimeters (127cm / 50").
- D. FAIRINGS:** Front fairing cannot extend more than twelve point seven centimeters (12.7cm / 5") ahead of front tire. Fairing cannot cover more than seven point six centimeters (7.6 / 3") of the front wheel. Fairing cannot cover the competitors body completely. Competitor must be visible from side view. Fairing must be mounted to the frame in a secure manner. Tape and/or zip ties will not be considered adequate fasteners.
- E. TAIL PIECE:** The tailpiece can extend a maximum of sixty-one centimeters (61cm / 24") beyond the rear wheel. Tailpiece cannot be any wider than the competitor.
- F. BRAKES:** Bikes must have working front and rear brakes. Brakes must be adequate to stop the bike in one hundred meters (100m / 328') from a speed of one hundred kilometers per hour (100kph / 62mph) or the competitor will be disqualified. Disc type brakes are recommended.
- G. WHEELS:** Wheel size cannot exceed fifty-one centimeters (51cm / 20"). Disk wheels will be allowed on the rear only.
- H. TIRES:** Tires must be in good condition with no visible cracks in the sidewall or tread. If a particular tire proves to have a significant performance advantage and is not made commercially available* for a reasonable price, it could be specifically banned in the future.
*Commercially available means the product must have been distributed to at least 24 people outside the company.
- I. FOOT PEGS / KNEELER BOARDS:** Foot pegs at or near the rear axle or kneeler boards are required. Foot pegs must be at least three centimeters (3cm / 1.18") in diameter. Kneeler boards must not have any sharp corners.
- J. HANDLEBARS:** Width of handlebars cannot exceed sixty-one centimeters (61cm / 24"). Grips are required and must be in good condition.
- K. SEAT:** A seat is required and must be securely mounted to the bike. No tape or zip ties.
- L. NUMBER AREA:** All competitors are required to have their IGSA assigned number located on their bike or a bib. Bibs must be worn as designed. Bike numbers must be visible on the front and both sides of the bike when the competitor is in the riding position. Bib numbers must be placed on both the front and back. The number area and number must be of contrasting colors and highly visible from six meters (6m / 20') away.

M. NUMBERS: Number digits must be a minimum of seven point six centimeters (7.5cm / 2.95") tall each. Some promoters may issue a bib or bib panel with a number other than your IGSA assigned number. In this case the event number supersedes the IGSA assigned number. **(For number assignment see section XVIII. A)**

N. BALLAST: Ballast is allowed on both the bike and the competitor to reach the maximum weight limit. Any weight added to the bike must be securely fastened to the frame. Tape, tie wraps or fasteners other than bolts or hose clamps are not legal for attaching weight. Ballast weight on bikes must be fastened with either a minimum six-millimeter (6mm / 0.326") through bolt or double hose clamps. Ballast weights in excess of one kilogram (1kg / 2.2lbs) will require a minimum of thirteen-millimeter (13mm / 0.511") through bolt. Bolt and nut installations must be either cotter keyed or safety wired. Ballast added to the competitor must be soft weights only and cannot exceed ten kilograms (10kg / 22lbs). Only shot or sand will be accepted and must be securely contained to avoid spillage on the racecourse. Body weights must be worn under leathers. Tech inspectors are charged to make thorough inspections of weight installation to make sure they meet all safety requirements.