

## IRRA Motor Specifications

The IRRA encourages manufactures to submit motors to the IRRA Board for approval and inclusion on the list of motors allowed for use in IRRA racing. The purpose of the IRRA motor approval process is to insure that new or modified motors are similar in performance to previously-approved IRRA motors, and to help bring stability to IRRA competition in regards to motor reliability, availability, and pricing.

The following motors have been approved for use in IRRA competition in their current (as of April 1, 2008 and June 2009 for the S7) production specifications.

### **JK Falcon 7, part number JK30207**



- 65 turns of 30 AWG wire
- Stack length - .375"
- Arm timing - 15 degrees nominal
- Diameter - .513"
- Magnets - Neodymium
- Internal brushes and springs
- Oilite bushings

### **TSR D3, part number TD301**



- 65 turns of 30 AWG wire
- Stack length - .375"
- Arm timing - 3 degrees nominal
- Diameter - .513"
- Magnets - Neodymium
- Internal brushes and springs
- Oilite bushings

### **Pro Slot Euro Mk1, sealed, with Chinese-made arm, part number PS4002**



- 80 turns of 31 AWG wire
- Stack length - .400"
- Diameter - .513"
- Arm timing - 20 degrees nominal
- Magnets - ceramic
- External brushes and springs
- Oilite bushings

**Pro Slot Euro Mk1 "Puppy Dog", sealed, with American-made arm, part number PS4002B**



- 75 turns of 31 AWG wire
- Stack length - .400"
- Diameter - .513"
- Arm timing - 25 degrees nominal
- Magnets - ceramic
- External brushes and springs
- Oilite bushings

**Slick 7 Mini Brute, part number S7-588A**



- 82 turns of 31 AWG wire
- Stack length - .375"
- Arm timing - 5 degrees nominal
- Diameter - .513"
- Magnets - Ceramic
- Internal brushes and springs
- Oilite bushings

Note: arm dimensions exclude any coatings, if present.

If a manufacturer releases a modified or new version of a previously-approved IRRA motor without informing the IRRA of such changes, the IRRA Board, at its discretion, may remove that motor from the list of motors approved for use in IRRA competition. The IRRA also reserves the right to remove any previously-approved motor from the list of approved motors.

Any motors with changed specifications submitted for IRRA approval must carry a new part number. The IRRA reserves the right to ask manufacturers for unique tags and/or can markings for identification purposes on motors submitted for inclusion in the IRRA approved motors list.

Approved refurbishers for ProSlot Motors:

Fast Ones: Contact is [Ron Hershman](#)

ProSlot: Contact is [Dan DeBella](#)