

Industrial Trakballs

FEATURES

- **User Definable Keys**
- **Instant Speed Control**
- **Precision Stainless Steel Bearings**
- **2" Phenolic Ball**
- **Hardened Stainless Steel Shafts**
- **Ergonomic Design**
- **Sealed and Non-Sealed Modules**

DESCRIPTION

Harsh environments require rugged compact systems where desk top space is at a premium if available at all. Industrial Computer Source has met this requirement with ruggedized stationary input. The new Model RAT-TRACK is constructed of 10% glass filled Xenoy thermoplastic alloy. This construction proved strong enough to drive a truck over with no ill effects.

The cast phenolic ball is manufactured by a billiard ball manufacturer for smoothness and hardness to tolerances of .005 and rides on hardened stainless steel shafts and ball bearings.

The Industrial version RAT-TRACK has the same ergonomic design as the commercial version with all the same features: user definable input keys, instant cursor speed control, and single connection to the host computer.

In addition to the case design, a Mylar® ring has been added around the ball opening for added protection from dust and debris. The P.C.B. has a conformal coating for water resistant electronics in high moisture areas. The shielded cable offers additional strength as well as reduced EMI. The Mouse-Trak does not incorporate the sealing features of the Rat-Trak.

RAT-TRACK has currently been tested, approved and put in use in a variety of applications including the U.S. Military. The commercial version has also withstood some harsh use on the trading floors of the New York stock exchange. The Model RAT-TRACK can interface directly with a single connection to all IBM compatible computer systems.

RAT-TRACK is currently distributed throughout the United States, Europe, and Australia.

SPECIFICATIONS

MECHANICAL

Material

Xenoy® thermoplastic

Weight

15 oz

Cable

Double shielded

Power

Taken from mouse port interface

Ball Size

2" diameter

±0.005 (0.12mm)

Ball Material

Cast Phenolic Resin

Ball Density

1.70 +/-0.02 g/cm³

Ball Weight

4.99 oz

Ball Hardness

Rockwell H85

Tracking Force

1.5 oz. Max.,

0.5 oz. typ (15gm)

Ball Load

250 lbs. Max. downward

Ball Rotation

Any direction



SPECIFICATIONS

Model RAT-TRACK

Ball Speed

500 RPM Max.

Mounting Position

Horizontal

Moisture Resistance (Rat-Trak only)

Dow Corning Q1-4010

Conformal coating

ENVIRONMENTAL

Storage Temperature

-20 ° to 85 °C

Temperature

0 ° to 50 °C

Humidity

0 to 95% RHNC

ELECTRICAL

Electronics

CMOS

Debounce

Microprocessor Controlled

Input Power

Less than 14 mA

Resolution (PPR)

192 ±5% linear mode.

½ to 2X in proportional mode.

Transducers

Optoelectronic

Buttons

Switch selectable (momentary or alternate action)

Function may be changed by internal selectors.

Dimensions (L x W x H)

7.93" x 4.05" x 2.25"

(201.4mm x 102.7mm x 57.2mm)

Height measured to top of ball

ALTITUDE SPECIFICATIONS

Operational Environment

The RAT-TRACK trackball operates properly at altitudes between 100 ft. below sea level (BMSL) and 50,000 ft. above mean sea level (AMSL).

Non-operational Environment

The RAT-TRACK trackball is shippable in a stored configuration in a non-pressurized airplane cabin up to 50,000 ft. above mean sea level (AMSL).

ORDERING GUIDE

Model RAT-TRAK/PS2

PS/2 Connection, Micorsoft® Mouse compatible.

Industrialized: gap sealed to keep out debris.

Durable case.

Model RAT-TRAK

RS232, Serial, DB-9 connector, Micorsoft® Mouse compatible. Industrialized: gap sealed to keep out debris. Durable case.

Model MOUSE-TRAK

Desktop, Beige, Non-sealed, PS/2 Windows 3.xx,

Windows 95, Windows NT, Dos, Unix

Model MOUSE-TRAK/DB9

Desktop, Beige, Non-sealed, DB9 Serial Windows

3.xx, Windows 95, Dos, Unix. Driver for Windows NT Available on Request.



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