ROBOGUIDE® - MotionPRO

Basic Description

ROBOGUIDE-MotionPRO is a revolutionary software which runs on a PC and when connected to a FANUC robot can provide expert assistance in optimizing robot motion.

Have you had a problem reducing cycle time?
Have you had a problem optimizing continuous path motion?
MotionPRO can potentially reduce 5-20% of cycle time and a significant amount of teaching and touch-up time.

MotionPRO is a ROBOGUIDE product available either as standalone or bundled with HandlingPRO™ and OlpcPRO™.

The Motion Optimization option on FANUC robots allows MotionPRO to collect real time motion data into a PC via Ethernet and then analyze the data. The results of the motion analysis are presented on the PC screen in a graphical, user-friendly format. The visual feedback of a robot's performance and the easy-to-use interface allow the robot programmer to pinpoint performance bottlenecks and take corrective action.

General Features

- Supports a remote PC on the network or a dedicated PC connected to the robot.
- Automatically scans the network to find the robots available online.
- Collects motion data real time and displays the results in a graphical, user-friendly format.

Cycle Time Optimization

- Optimizes cycle time by automatically adjusting motion parameters such as speed and acceleration.
- Achieves cycle time reduction with intuitive methods.
- Optimizes cycle time with user-definable corner distance.
- Optimizes programs for mechanical constraints.
- Displays cycle time of each motion instruction of a Teach Pendant Program.
- Saves all programs with date and time stamps for future retrieval and playback.
- Displays the actual robot path in 3-D.
- Optimizes Remote Tool Center Point (RTCP) applications.
- Intuitively teaches/adjusts a robot path.

Path Optimization

- Maintains the actual robot path for any desired program speed while passing through all the taught points within a specified tolerance.
- Displays cycle time and speed profile for entire program.
- Collects motion performance data while robot is in production without interrupting normal operation.
- Collects history of servo off alarms with records of axis position, speed, and torque.
- Displays TCP speed.
- Displays eight-hour continuous motor duty cycle in graphical representation.
- Displays axis velocity, encoder counts and motor torque information.
- Collects data for multi-group and extended axes configurations.
Benefits

- Cycle Time Optimization feature ensures best cycle time with user-selected criteria.
- Path Optimization feature makes actual robot path to follow the taught points at user-defined speed/tolerance.
- Detects inaccurate payload settings.

Minimum Recommended PC Requirements

- 2.4 GHz Pentium® 4.
- Windows® XP Professional
- 1 GB RAM and 1 GB Free Hard Disk Space
- 10/100 BaseT Ethernet Card

MotionPRO – Cycle Time Optimization

MotionPRO – Diagnosis Report

MotionPRO – Path Optimization

Intelligent Robot Solutions

FANUC Robotics America, Inc.  
3900 W. Hamlin Road  
Rochester Hills, MI 48309-3253  
(248) 377-7000  
Fax (248) 377-7362

For sales or technical information, call: 1-800-iQ-ROBOT

marketing@fanucrobotics.com  
fanucrobotics.com

©2008 FANUC Robotics America, Inc. All rights reserved.