

# ADVANCED SERVO MOTOR TRAINER

Model Number : GOTT-ASM-01



## DESCRIPTION

The GOTT Advanced Servo Motor Trainer is a complete training system for servo motor, it introduces the student to the operation, programming and troubleshooting of modern industrial system.

The trainer is designed with industrial grade part and components, controller and motor with full function comply with industrial standard worldwide.



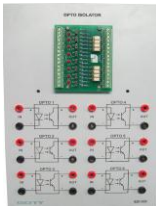


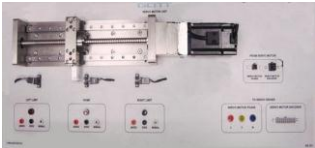



The equipment consists of a driver with build in-display and a motor unit, which has a guide rail that equipped with limit sensor to provide feedback to software.

The user-friendly graphical user interface of GOTT-SSM commissioning software shortens tuning and diagnoses time greatly, providing several types of function, such as real time oscilloscope function. The software provides quick set up mode to be able to configure all related function to one operating mode. These screens provide easy navigation and comprehensive interface. All the parameters can be visualized on the same page using the Graphical parameter set. This screen provides to expert user remove high flexibility and high effectiveness.

## FEATURES

- Provide quick set up mode to be able to configure all related function to one operating mode. These screens provide easy navigation and comprehensive interface
- All the parameters can be visualized on the same page using the Graphical parameter set. This screen provides to expert user remove high flexibility and high effectiveness
- State of the art auto tuning functionalities offering 2 different modes: Off line Auto Tuning & On line dynamic turning
- Detect the resonance point of the machine. Both current and velocity can be monitored
- Providing a powerful oscilloscope which can be used in 2 different modes: Fast Oscilloscope & Fine Oscilloscope
- Fast oscilloscope is to monitor evolution of the measured values in real-time
- Fine oscilloscope is to capture a very accurate moment of the application. This functionality is recording all the information before displaying them therefore the information is more accurate and can be used to make very precise tuning

## PRODUCT MODULES

POWER CONTROL UNIT	CODE 572-001	MOTION CONTROLLER	CODE 572-002	OPTO ISOLATOR	CODE 572-003	I/O TERMINAL UNIT	CODE 572-004
FCCB, EMO & MCB are the protection for the whole system		High performance servo motion controllers capable of commanding several motors		To enable the function between motion controller and servo driver		Input / Output Indicator Lamps Input Switches	
SCALED SERVO MOTOR UNIT	CODE 572-005	SERVO MOTOR UNIT	CODE 572-006	VERTICAL FRAME	CODE 297-000	SAFETY CONNECTING LEAD	CODE 237-001
Independent unit to show the actual function of servo motor		Connect with PC +Limit & -Limit is to protect the motor from over travel Homing sensor can be configured in the software		High Level: Din Standard A4 with two shelves Material: Aluminium Side Frame: T shape Size: 3-Layer 1450mm Length		4mm connecting leads	
						EXPERIMENT MANUAL	CODE 572-007
							

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## SERVO DRIVER

CODE  
572-009



- The range of LEXIUM 23 servo drives is compatible with BCH servo motors constitute a tailored solution for machines across a wide power and functionality range
  - LEXIUM 23 servo drives wide power range combined with high performance functionalities and extended choice of BCH servo motors is the best suited package for all applications such as material working, material handling, textile, electronics, packaging and printing
  - LEXIUM 23 servo drives comply with EN 50178 and IEC/EN 61800-3 international standards and carry UL (USA) and CE marking
- Applied functionalities: (1)Position Control (2)Speed Control (3)Torque Control (4)Switching Control

## SERVO MOTOR SOFTWARE (MODEL NO: GOTT-SSM)

CODE  
572-010



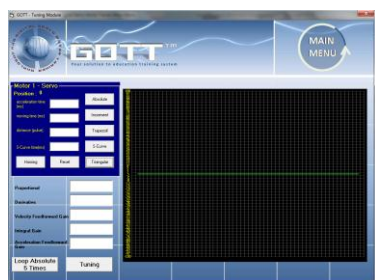
- The user-friendly graphical user interface of GOTT-SSM commissioning software shortens tuning and diagnoses time greatly
- Auto recognition of communication format.
- Quick set up mode and graphical parameter set.
- Auto tuning and manual tuning.
- Resonance point detection using FFT analysis.
- Real time oscilloscope function.
- This software provides all functions used to configure, set and debug the servo driver axis as well as comprehensive several languages of user interface



- The GOTT-SSM software contains 4 types of function:
  - Motion Motor Control
  - Servo Motor Tuning
  - Jog, CAM & Flying Shear
  - Write Program – (Student Mode)
- The software also provides quick set up mode to be able to configure all related function to one operating mode. These screens provide easy navigation and comprehensive interface.
- All the parameters can be visualized on the same page using the Graphical parameter set



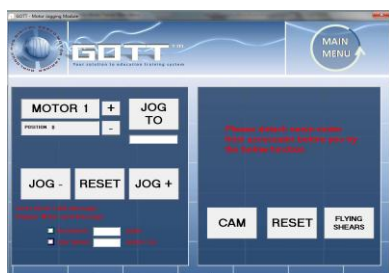
- In Motion Motor Control mode, the user is able to configure:
  - Acceleration Time
  - Moving Time
  - Distance
  - S-Curve
- The parameter that setting by user is able to perform below function:
  - Trapezoid
  - Absolute
  - S-Curve
  - Increment
  - Triangular



- In this Servo Motor Tuning mode, the user is able to auto tuning the servo motor by setting the value
- This mode contains several types of function:
  - Absolute
  - Increment
  - Trapezoid
  - S-Curve
  - Triangular
  - Homing
- To monitor evolution of the measured values in real-time
- To capture a very accurate moment of the application. This functionality is recording all the information before displaying them therefor the information is more accurate and can be used to make very precise tuning

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- In this Jog, CAM & Flying Shear mode, the user is able to perform several function:
  - Jog +
  - Jog –
  - CAM
  - Flying Shear

## EXPERIMENT TOPICS :

- Introduction to Servo Motor Control
- Connecting trainer for Operation
- Installation of Software & Driver
- Interface Control by I/O Switches
- Interface Control with PC
- Configuration of parameter setting
- Encoder pulse and direction
- Speed and Position control
- Motion command control
- Programming sequence and step
- Integration of machines
- Motor Motion Control
- Servo Motor Tuning
- Jog, CAM & Flying Shear

## Manuals :

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

## General Terms :

- (1) Accessories will be provided where applicable
- (2) Manuals & Training will be provided where applicable
- (3) Designs & Specifications are subject to change without notice
- (4) We reserve the right to discontinue the manufacturing of any product

## Warranty :

2 Years

## ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
ADVANCED SERVO MOTOR TRAINER	GOTT- ASM-01	572-000

\* Proposed design only, subject to changes without any notice.