## 桥弘数控科技(上海)有限公司 Spectrum control systems

# **SCS800 Bending Machine Controller** 折弯机数控系统



Independent Production And Design Throughout The Entire Industrial Chain

# Features of SCS800

150.00

200.00

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18.5-inch industrial capacitive touchscreen

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- Hydraulic bending machine
- Standard configuration of 6+1 axes (expandable to 8+1 axes) 🚺 Fully electric bending machine
- Support for additional expansion functionalities
- Dual-pump controlled bending machine

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# **Technical Specifications**

### Overview

- Utilizes a high-sensitivity 18.5-inch industrial LCD touchscreen from Taiwan
- Customized EMC level 4 industrial computer board for stability and reliability
- Dual CPU system configuration for powerful computing and precise control
- Utilizes standard PLC+C Motion programming
- Supports standard EtherCAT communication expansion
- Linux operating system with support for instantaneous power failure

### Safety Functions

- System pressure safety check
- Anti-pinch function for slide (optional safety light curtain)

Mold pressure resistance safety check

- Position limit setting check function
- Deceleration when slide and back gauge approach the lower mold
- Collision check between fingers, and between fingers and mold
- Emergency stop and return functions

## Editing Functions

- Products can be freely named (using letters+numbers
- Ability to edit the customer affiliation of a product
- Product library supports storage of 2000 products
- Products support creation, duplication, searching and deletion
- Each product supports up to 100 work steps
- Work steps can be inserted, rearranged, duplicated and deleted
- Work steps support various bending methods, including free bending, position bending, bottom bending, flattening bending or large arc bending
- Support for handwheel debugging function, allowing adjustment results to be saved as work step positions
- Option to select the timing of back gauge movement
- Switch between external dimensions/internal dimensions
- Switch between block material/pallet material
- Support for delayed step change and IO step chanae

- Customizable upper die library, lower die library and material library
- Ability to backup process parameters to USB drive

# Electrical Interfaces

- Optical isolated I/O ports
- Encoder interface (differential)
- RJ45 interface
  - USB interface

# Auxiliary Functions

- - Tool setting function

  - Parameter search function

- Support for user login with different access levels • Support for RFID login (optional)
- Support for shift-based quantity statistics, able to calculate production quantity per shift • Traceability of production records

# ✓ Industry 4.0 Connectivity

- Support for 4G connectivity to cloud platforms
- Cloud platform capable of tracking product guantity and calculating PPH and PPM Cloud platform stores process data, operation records and alarm records for each product • Support for workshop large screens to monitor machine utilization and yield rate

- Dual machine or triple machine interlinking

- Configurable activation or blocking of axis motion functions
- Adjustable axis speeds

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- Power supply voltage: DC 24V
- ±0-10V input/output of analog signal
- Auto Calculation Functions
- Automatic calculation of bending position
- Automatic calculation of bending tonnage
- Automatic calculation of large arcs
- Automatic calculation of back gauge position
- Automatic calculation of deflection compensation Electrical self-diagnosis
- Automatic calculation of correction values
- Automatic calculation of processed workpieces
- Automatic calculation of yield rate
- Automatic calculation of lead distance
- Manual bendina function
- Manual adjustment of axes
- Full automatic test run function
- Communication testing function
- Auxiliary input function for machine parameter adjustment
- Diagnostic monitoring function
- Online analysis function for motion curves
- Alarm notification function

### Production Managements

# Expanded Functions

- Two-axis front pallet material
- Support for auxiliary multi-axis extension for loading and unloading

# Controlling Functions

- Full servo control
- Position closed-loop control
- Velocity closed-loop control
- Jog control
- Handwheel control
- Synchronized positioning control

# Smart Notifications

- Maintenance notifications
- Oil pump malfunction detection
- Self-learning and diagnostic ca-
- pabilities for valve assemblies

# Power Calculations

- Support for power metering equipment (optional)
- Statistics of daily, monthly, quarterly and annual power consumption
- Calculation of product energy consumption