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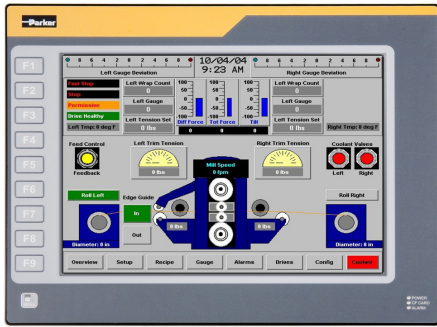
# TS8000 HMI Touchscreens

Product Catalog

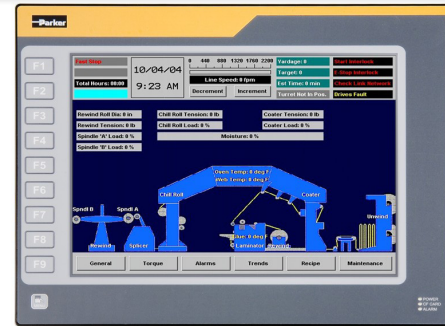
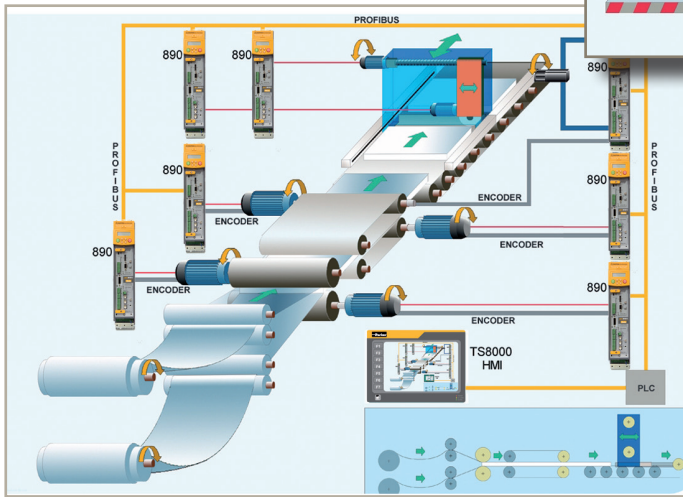
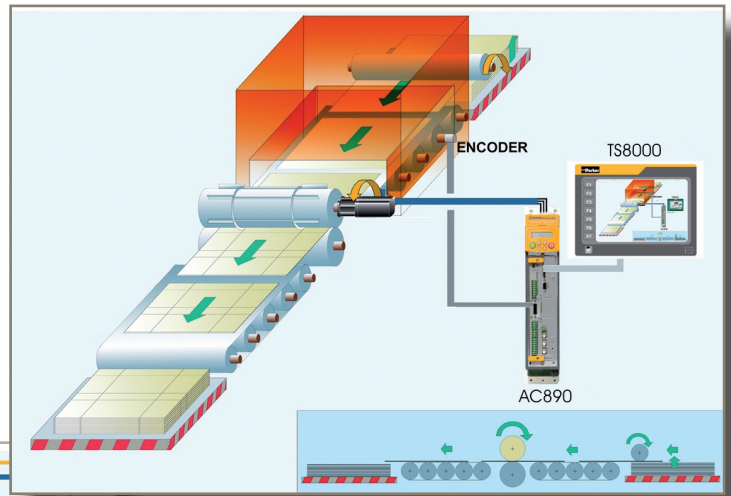


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Fax: 03 26 85 19 08, Tel : 03 26 82 49 29

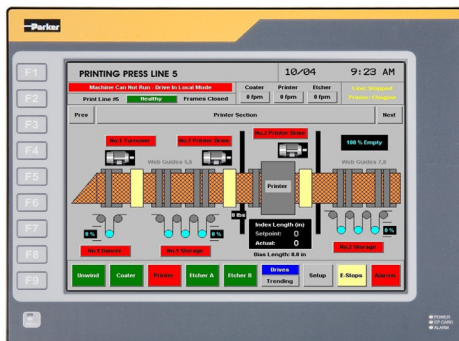
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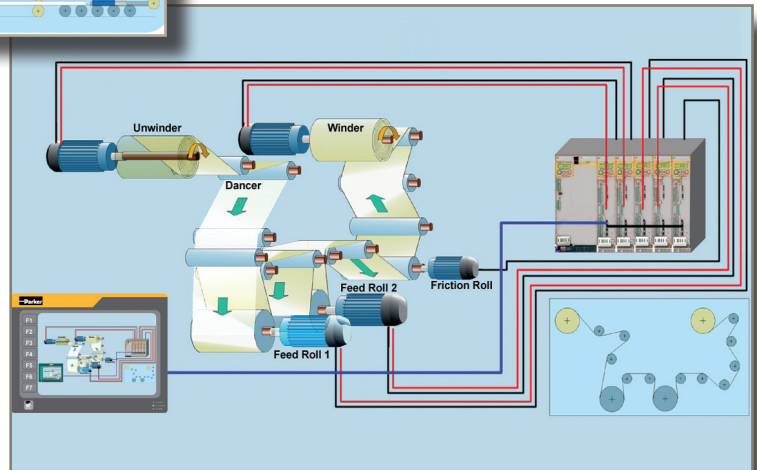
Sample Screen: Rolling Mill



Sample Screen: Laminating Line



Sample Screen: Converting Line



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# HMI Touchscreen

## TS8000 Series



### Description

TS8000 is a high performance web-enabled HMI touchscreen range with powerful features that would normally only be found in PC-based displays.

The TS8000 is able to communicate with many different pieces of hardware through its 10/100Base-T Ethernet port.

Furthermore a USB programming port allows programs to be downloaded, or access to trending and data logging, while data can be collected and stored on a standard CompactFlash card, freeing up internal memory.

Unlike similar competitive units, programming software for the TS8000 is a free download! DSI8000 software works with all TS8000 units, and features user friendly drag and drop data mapping. It contains a powerful set of icon-based configuration, display, control, and data logging tools uniquely designed to take full advantage of the TS8000 series architecture.

### Features

- Multi-lingual graphical interface**
- NEMA 4X protection**
- Five screen sizes**
- Built-in symbol library of common objects**
- Built-in web server/Virtual Panel**
- Built-in “C-based” script language**
- CompactFlash support**
- Integrated automatic multiple protocol conversion**
- Five communications ports**
- Free DSI8000 programming software**

### Available Models



TS8003

TS8006

TS8008

TS8010

TS8015

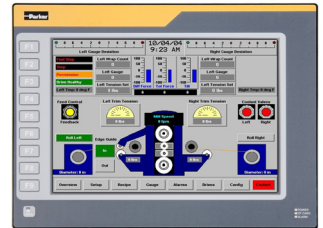
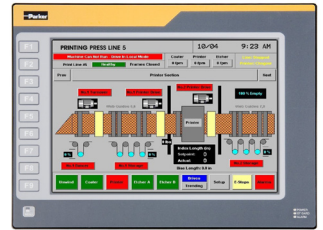
# HMI Touchscreen

## TS8000 Series



## Technical specifications

|                       | TS8003  | TS8006 | TS8008 | TS8010 | TS8015 |
|-----------------------|---|--------|--------|--------|--------|
| Power Required        | 24VDC ±20% - Class 2 or SELV rated<br>Power input via removable terminal block  |        |        |        |        |
| Max current required  | 9.5W  | 14W    | 24W    | 33W    | 67W    |
| Operating Temperature | 0-50°C  |        |        |        |        |
| Storage Temperature   | -20-70°C  |        |        |        |        |
| Relative Humidity     | 80% non-condensing  |        |        |        |        |
| Altitude              | 2000 m  |        |        |        |        |
| Enclosure             | IP66/NEMA 4X used w/gasket provided   |        |        |        |        |
| Programmable Keys     | 8   | 5      | 7      | 8      | 10     |
| Navigation Keys       | 5   | N/A    | N/A    | N/A    | N/A    |
| Numeric Keys          | 12  | N/A    | N/A    | N/A    | N/A    |
| Dedicated Keys        | 4   | N/A    | N/A    | N/A    | N/A    |
| Onboard Memory        | 4Mb   | 4Mb    | 8Mb    | 8Mb    | 32Mb   |
| Memory Card           | CompactFlash type II slot for type I and II CF cards  |        |        |        |        |
| Battery (for backup)  | Lithium CR2025  |        |        |        |        |
| Touchscreen           | Resistive Analog type   |        |        |        |        |
| Communication Ports   | Programming: USB 1.1 - connector type B, RS232 - via RJ12<br>Communication: RS232 - via RJ12, RS485 - via RJ45, Ethernet 10/100 Base T - via RJ45 |        |        |        |        |
| Programming Software  | DSI8000 (Included)  |        |        |        |        |



## Display Specifications

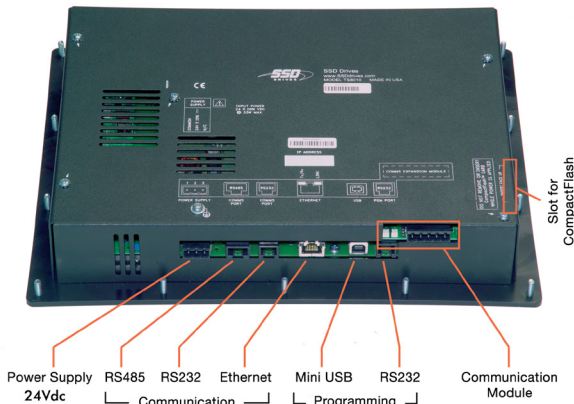
| Part Number  | Screen    | Colors     | Pixels     |
|--------------|-----------|------------|------------|
| TS8003/00/00 | 3.2"/FSTN | 2          | 128 x 64   |
| TS8006/00/00 | 5.7"/TFT  | 256 QVGA   | 320 x 240  |
| TS8008/00/02 | 7.7"/TFT  | 256 VGA    | 640 x 480  |
| TS8010/00/02 | 10.4"/TFT |            |            |
| TS8015/00/00 | 15"/TFT   | 32,000 XGA | 1024 x 768 |

## International Standards

The TS8000 series complies with many international standards for protection and immunity including:

- IEC1010-1, - EN61010-1
- EN61326
- EN61000-4-2 Criterion A 4kV contact xchrg, 8kV air xchrg
- EN61000-4-6 Criterion B 3V/rms
- EN61000-4-3 Criterion B 10V/m
- EN61000-4-4 Criterion B 2kV power and signal
- EN61000-4-5 Criterion A 1kV L-L, 2kV L&N-E power
- EN55011 Class A

CE Marked



# HMI Touchscreen

## TS8000 Series



## HMI Features

- Pre-Engineered Templates
- Built-in Web Server with live tags
- Library with over 4000 symbols
- Support for BMP, JPG, WMF graphic files
- Database functionality (CSV format)
- Graphical Trending
- Alarm Logs - web accessible
- Machine Drawings

## Multilingual Interface

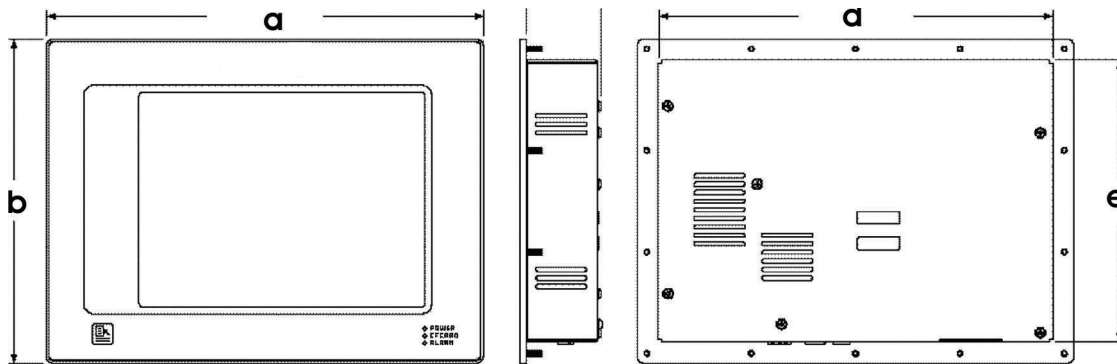
| Programming and Display in: |         |
|-----------------------------|---------|
| Italian                     | German  |
| English                     | Spanish |
| French                      | Dutch   |
| Thai                        |         |

| Unicode* Support for:     |                       |
|---------------------------|-----------------------|
| Japanese                  | Chinese (traditional) |
| Korean                    | Chinese (simplified)  |
| Other languages available |                       |

\*Unicode support requires Microsoft Windows® language packs to be installed

## Dimensions (in/mm) and Weights

| Part Number  | a           | b          | c        | d           | e           | Weight (lb/kg) |
|--------------|-------------|------------|----------|-------------|-------------|----------------|
| TS8003/00/00 | 7.45/189.2  | 5.85/148.6 | 2.1/52   | 6.04/153.4  | 4.44/112.8  | 1.96/0.89      |
| TS8006/00/00 | 8.83/224.3  | 7.08/179.8 | 2.3/58.4 | 7.42/188.5  | 5.67/144    | 3.0/1.36       |
| TS8008/00/02 | 10.32/262   | 8.18/207.8 | 2.2/56   | 8.91/226.3  | 6.77/172    | 3.84/1.74      |
| TS8010/00/02 | 12.83/325.8 | 9.5/241.3  | 2.2/56   | 11.55/293.3 | 8.27/210.1  | 5.53/2.51      |
| TS8015/00/00 | 16.0/406.4  | 13.0/330.2 | 2.8/71.5 | 14.59/370.6 | 11.59/294.4 | 11.41/5.17     |



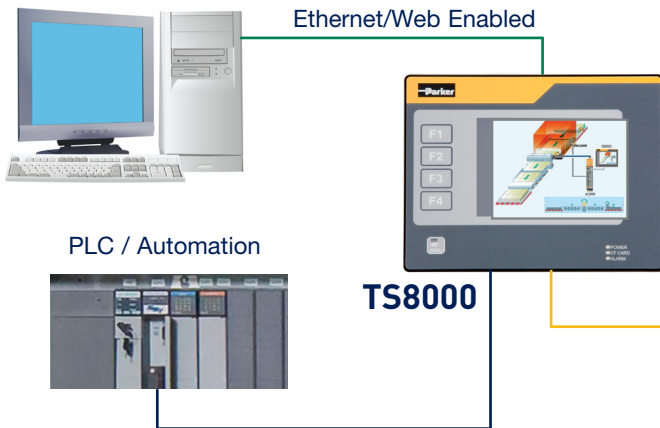
## Options

For harsh environments where abrasion to the screen surface is a concern, we offer protective clear film overlays for the TS8000 screen. Available for all five sizes of TS8000, the overlays are packaged in bundles of 10. By use of a pre-applied low-tack adhesive, application and removal of the overlay is a snap!

| Part Number | Description                          |
|-------------|--------------------------------------|
| 8000/OL/03  | Protective overlay sheets for TS8003 |
| 8000/OL/06  | Protective overlay sheets for TS8006 |
| 8000/OL/08  | Protective overlay sheets for TS8008 |
| 8000/OL/10  | Protective overlay sheets for TS8010 |
| 8000/OL/15  | Protective overlay sheets for TS8015 |

# HMI Touchscreen

## TS8000 Series



The TS8000 range of Human Machine Interfaces is compatible with a wide range of Programmable Logic Controllers, Process and Machine Automation Controllers including :

- Allen-Bradley
- Siemens
- Telemecanique
- Mitsubishi
- Omron
- Idec
- IMO
- Festo
- General Electric
- Moeller
- Matsushita
- Koyo

### 637F, 638 Series

- AC Brushless Servo drive



### AC650/AC650V/AC650S Series

- V/F Control
- Sensorless Vector Control
- Sensorless PMAC Motor Control



### AC690+ Integrator Series

- V/F Control
- Sensorless Vector Control
- Closed-Loop Vector Control
- 12/18 Pulse option
- 4 Quadrant AFE Capability



### AC890/AC890PX Series

- V/F Control
- Sensorless Vector Control
- Closed-Loop Vector Control
- PMAC Servo Control
- 4 Quadrant AFE Capability



### DC590+ Integrator Series 2

- 2/4 Quadrant DC Drive
- Chassis or DRV

**TS8000 is compatible with all drives shown above**

## Custom Branding

For a customized appearance on your machinery, Parker can provide the TS8000 with your company logo or graphics. Please contact your local territory manager or authorized distributor for further details. Minimum quantities and restrictions apply.

# Communication Cards

## TS8000 Series



## Description

In addition to the standard on-board communications provided with the TS8000 (RS232, RS485, and Ethernet), these communication card options allow even more connectivity and integration of the TS8000 into many popular fieldbus communication networks. Integrated protocol conversion also allows the TS8000 to bridge between devices that otherwise could not communicate directly with each other.

## Features

### CANopen Communications Interface

Part Number: 8000/CB/00/00

|                     |   |
|---------------------|---|
| Supported Protocols | CANopen SDO Master                                      |
| Communication Speed | Selectable by software up to 1 Mbits/s                  |
| Communication       | With Drive System Explorer software using RTNX protocol |
| Suitable for drives | AC890 version 3.2+                                      |

### DeviceNet Communications Interface

Part Number: 8000/DN/00/00

|                     |  |
|---------------------|--|
| Supported Protocols | DeviceNet – Slave Group 2 only           |
| Communication Speed | Selectable by software up to 500 kbits/s |

### Firewire Communications Interface

Part Number: 8000/FA/00/00

This card allows data exchange between the TS8000 and an AC890 fitted with an 8903/FA/00 Interface

|                     |  |
|---------------------|--|
| Communication Ports | Port A : IEEE 1394A<br>Port B : IEEE 1394B |
|---------------------|--|

Note : The TS8000 must use a Class 2 or SELV rated power supply

### Link Communications Interface

Part Number: 8000/LK/00/00

|                     |            |
|---------------------|------------|
| Supported Protocols | LINK       |
| Communication Speed | 2.7Mbits/s |

Allows data exchange between TS8000 and SSD LINK fiber optic network

### Profibus-DP Communications Interface

Part Number: 8000/PB/00/00

|                     |                  |
|---------------------|------------------|
| Supported Protocols | EN50 170, 1      |
| Communication Speed | Up to 12 Mbits/s |

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