

|                           |                             |                                   |                  |                    |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets        | Wear strips                 | Side guide brackets & accessories | Levelers         | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports        | Bearing supports |                    |
| Curves & tracks           | Side guide solutions        | Miscellaneous products            | Equipment        |                    |

**PATENT PROTECTED**



#### Features for iCOF device:

- Real time monitoring of the line condition.
- Addressing all container type (PET, glass and cans).
- Continuously measures the coefficient of friction.
- Calculates average value and a trend.
- Triggers an alarm if pre-set limits are reached.
- Can be portable or integrated in line control system.

#### Benefits:

- No operator intervention required for measuring.
- Easy to define optimum cleaning regime: "Smart Cleaning".
- Corrective action can be scheduled before efficiency is affected.
- Long term line condition can be analyzed using data from the iCOF device.

#### Why Coefficient of Friction?

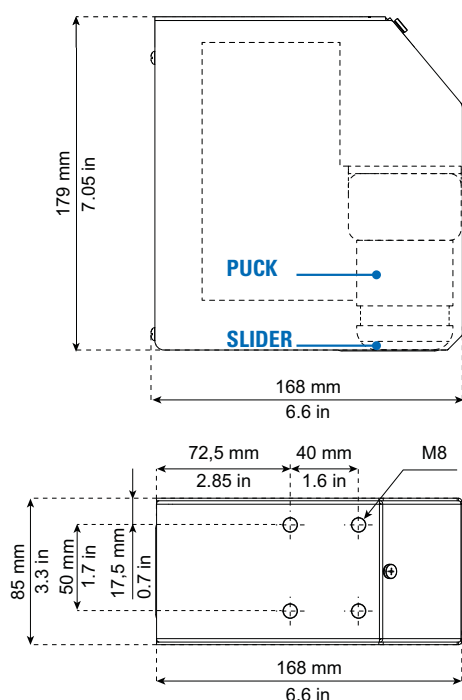
Variations in the coefficient of friction are a good indicator of changing conditions or pollution of the conveyor. Especially in dry running lines, the friction is a key factor for the proper handling and flow of containers. A permanent control process will help maintaining the optimum conditions and thus guarantee the line efficiency.

#### How does it work?

The iCOF device can be mounted on a conveyor and integrated in the line control system. It measures the friction at regular intervals that can be set by the user. Obtained data is used to calculate the average value as well as the trend. The values can trigger a signal once a pre-set limit is passed. Based on this signal, the user can check the situation and decide about the required corrective action. The system can work with Ethernet or Profinet protocol. Output is done through RJ45 connector. Obviously for integration in the line control system, a close cooperation with the OEM is required. The iCOF device can also be used as a stand-alone or portable device for spot measurements.

#### Where can it be used?

The iCOF device can be used throughout the line wherever it makes sense to temporarily or continuously monitor the friction to collect performance data, obtain data for trouble shooting or to act as continuous input for the line controls.



| APPLICATION TYPE                                                                          | COMPLETE UNIT - SLIDER INCLUDED*                                                    |            |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                                                                                           | ITEM DESCRIPTION                                                                    |            |
| PET    |  | ICOF-PET   |
| CAN    |                                                                                     | ICOF-CAN   |
| GLASS  |                                                                                     | ICOF-GLASS |

| SPARE PARTS - SLIDERS ONLY                                                          |                   |
|-------------------------------------------------------------------------------------|-------------------|
| ITEM DESCRIPTION                                                                    |                   |
|  | ICOF-SLIDER-PET   |
|  | ICOF-SLIDER-CAN   |
|  | ICOF-SLIDER-GLASS |

#### Box includes:

- iCOF® device
- Slider (PET, CAN or GLASS)
- Set of screws for slider
- Screw driver
- USB drive with GUI



\* The complete unit includes already related slider.

|                           |                             |                                   |                  |                    |
|---------------------------|-----------------------------|-----------------------------------|------------------|--------------------|
| Chains & sprockets        | Wear strips                 | Side guide brackets & accessories | Levelers         | Engineering manual |
| Modular belts & sprockets | Chain & belt return systems | Frame & structure supports        | Bearing supports |                    |
| Curves & tracks           | Side guide solutions        | Miscellaneous products            | Equipment        |                    |

57085a

www.SystemPlastSmartGuide.com

## iCOF® CONDITION MONITORING

### ACCESSORIES

#### CONTROLLER

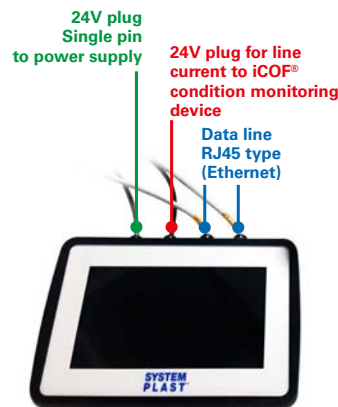
##### ITEM DESCRIPTION

##### ICOF-CONTROLLER-MODULE

**STAND ALONE: Secondary mode, for portable use and quick installation**

##### a) CONTROLLER MODE

7 Inches touch screen, 24V industrial tablet, waterproof  
Software and GUI embedded into the controller  
Easy and quick connection to the iCOF device  
(pre set plugs and cables)  
Plug and play  
Easy fixing to the conveyor frame



#### USB HARDWARE PEN

##### ITEM DESCRIPTION

##### ICOF-USB-HARDWARE-PEN

**STAND ALONE: Secondary mode, for portable use and quick installation**

##### b) PC MODE

Alternative mode (not recommended - PC often not allowed in line)  
It requires software for data acquisition (available)  
It requires PLC emulator (hardware key supplied apart)  
24V adaptor to line current for iCOF condition monitoring  
device supplied as optional on request.



#### IMPORTANT NOTE

This mode of use implies PC rights at Admin level. Being the architecture of the software is based on the PLC architecture, it may become necessary to bypass the firewall by opening some backdoors. This often is a not acceptable condition for a PC security.

#### POWER SUPPLY

##### ITEM DESCRIPTION

##### ICOF-KIT-POWER-SUPPLY

100-240V 24V-1.25A 50-60Hz



#### PORTABLE SUPPORT STRUCTURE

##### ITEM DESCRIPTION

##### ICOF-SUPPORT-B520x1100xH1800mm

Mainly meant for stand alone use, for quick measures or when different measuring points are required

Easy assembly

Made of aluminum tubes (abt 20kg weight)

Overall dimensions: 1100 x 520 x 1800 mm

Work layer: adjustable from 979 to 1226 mm

