

# SMARTLINE INSPECTION MACHINE

HiSHIELD



WE ARE GLASS PEOPLE

 heye  
international

# SPEED AND FLEXIBILITY



## EXPERTISE IN QUALITY CONTROL

Quality continues to become more and more important. Producers of consumer goods care about the quality and consistency of their brand on a global level.

The HiSHIELD SmartLine is approved for more than ten years and has been developed as an inspection and sorting machine for the hollow glass production industry. The ongoing integration of the newest technology combined with robust electrics and an electronic control system are characteristic of the SmartLine.

Additional features include a graphic interface with touchscreen, servo drive technology and machine speed of up to 400 BPM (bottles per minute). The SmartLine is available in two versions.



## SMARTLINE MATCH

The SmartLine Match can be equipped with many different options to match almost all the customer requirements.

Flexibility is the major focus.

## SMARTLINE SPEED

The SmartLine Speed is a further development of the SmartLine Match, for the purpose of maximizing speed at round containers. Thanks to its servo driven double infeed screw as well as to the highspeed outfeed system with belts, the speed for beer bottles is increase up to 25%.

Different settings can easily be modified by the operator on our user friendly interface.

## FLEXIBLE INSPECTION OPTIONS

SmartLine can be configured in different ways. Up to six inspection stations are available. Depending on the customer's requirements, various attributes of container can be checked:

- Planity (flatness) and tightness
- Finish diameters
- Container height
- Finish and shoulder checks
- Bottom and heel checks
- Body checks
- Wall thickness inspection (non contact)
- Defects of the finish surface (LOF - line over finish)
- Ovality of the body
- Mould number reading (dot code)
- Mould number reading (digital code)
- Dark check inspection



## SPEED AND FLEXIBILITY

The application of servo technology results in a high degree of flexibility. Fast and easy changes of the item indexing positions and optimal use of the servo torque for up to four rotation stations are possible.

Optimised motion sequences allow faster reactions to changing process parameters.

- The maximum article height is 400 mm; angular, oval and round containers can be processed
- Thanks to the servo driven star wheel, indexing positions from 6 to 48 are usable
- The large working radius of 330mm, allowing an increase in the number of star wheel pockets. E.g. 24 pockets are applicable at container diameter <62mm

## QUALITY AND USABILITY

Innovations have to stand the test of time. This is achieved by the use of robust industrial electronics and a climate-controlled electronics compartment, together with high quality components.

Operational usability is enhanced by a touchscreen monitor, easy access to all electronic components and an extricable mounting plate for frequency inverters and servo controllers. Hazard free working condition for the operator is provided by a microprocessor-controlled safety module.



# SMARTLINE DATA SHEET

## SCOPE OF DELIVERY

According to your needs

- Machine with inline- or bypass-conveyor
- Up to 6 inspection stations
- Industrial control unit with graphical user interface
- Different access levels freely configurable
- Recipe management
- 32 inspection channels
- Interface to different line information systems
- Speed control
- Up to 3 rejectors for defect, statistical and sampling rejection
- Gauging inspection for internal and external finish diameter
- Depth of bore gauging up to 100 mm
- Tightness inspection by differential air pressure for bottles and jars
- Check inspection units for finish/shoulder/body/bottom/heel and dark checks
- Light source for check inspection as laser or white light LED
- Line over finish module
- Wall thickness measurement non-contact at up to 4 levels
- Mould number reading, digital mould number in the bottom or sidewall dot-code

## TECHNICAL DATA:

- Container height: 15 mm - 400 mm
- Container diameter: 14 mm - 160 mm
- Container shape: round and non round
- Speed: up to 400 BPM

Example speed table (BPM = Bottles per minute)	SmartLine Match (BPM)		SmartLine Speed (BPM)	
	Peak	Cruise	Peak	Cruise
Beer (Ø 61 mm)	275	250	340	310
Wine (Ø 71 mm)	225	200	250	225
Flask	225	200	225	200
Spirit	200	175	200	175