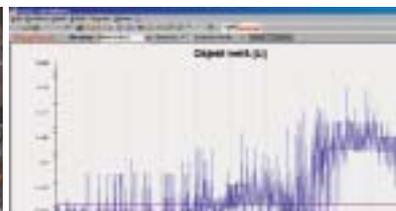


Measuring and Sorting Machine  
**visiSort<sup>®</sup>-S**



**QUALITY ASSURANCE: AUTOMATED WITH MAXIMUM PERFORMANCE !**

# Bag conveyor

Bin volume 80/150l  
 Useful width 200mm  
 Discharging height 1.800mm  
 Filling height 800/1000mm

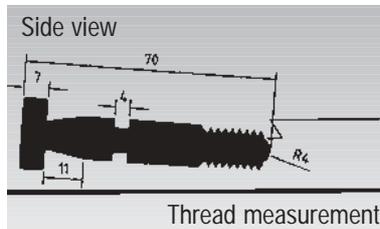
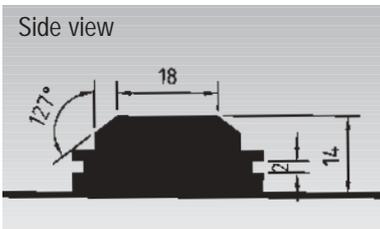


## Container

Diameter	450mm	600mm	800mm
Part volume	50l	70l	90l
Filling weight	15kg	20kg	30kg
Capacity	depending on the conveyed material		



## Part spectrum



## Camera modules



## Overview of lense range

Variant	Object window OF XxY(mm)	max. object size in V rail LxD (mm)	max. object size in L rail BxH (mm)	Measurement repetition accuracy (µm)
A	20 x 15	15 x 11	15 x 8	± 7
B	30 x 23	25 x 18	25 x 15	± 10
C	54 x 41	48 x 25	48 x 32	± 15
D	81 x 62	72 x 25	72 x 40	± 25
E	116 x 89	104 x 25	104 x 40	± 35

F Standard lens for thread presence

# Take advantage of our modular design with peripheral devices

## Pull-off belt

Parts are continuously pulled off and do not fall on each other.

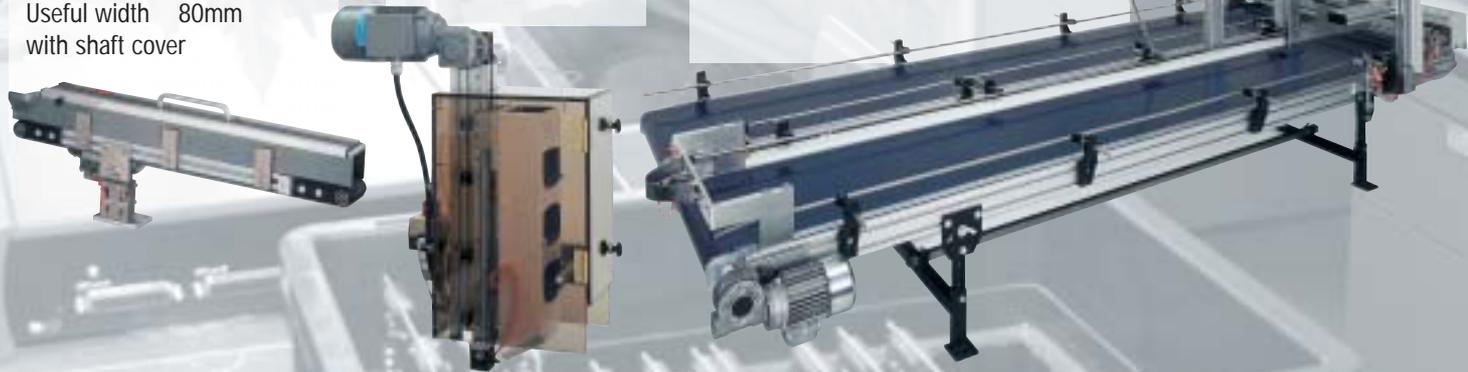
Total length 800mm  
Useful width 80mm  
with shaft cover

## Fall shaft

for part protection and impact protection.  
Length: 800mm

## Packing belt

Total length	3000mm
Belt width	400mm
External frame width	455mm
Height	350 +/- 50mm



## Performance features

- Throughput 100-300 parts per minute
- Modular, expandable machine concept
- Industrial model, modern design
- Peripheral devices such as bin and packing can be connected at any time
- Measurement of the outside contour, e.g. diameter, chamfer, radii, thread, angle, grooves ...
- Presence of interior threads
- Accuracy to  $\pm 7 \mu\text{m}$
- Graphic user interface for creating and storing new inspection and test sequences
- Fast and simple adjustment when parts are changed
- Simultaneous measurement of the parts with up to 3 cameras (from the side, from above and thread monitoring under  $45^\circ$ )
- High availability of the machine in 3-shift operation
- Data provision for creating test reports with PC interface for CAQ link-up

## Parts specification

Mass: 1-80g

V rail

Only cylindrical parts are measured on the V rail. The aspect ratio (length/diameter) of the turned parts must be at least 1.5

Part diameter: 5-25 mm

L rail

The aspect ratio (length in conveying direction/height) of the parts must be at least 1.5

Width to the conveying direction: 5 - 40mm

Height: 3 - 40mm



Side view:  
two cameras;  
changeable with  
slide carriage



Top view:  
two cameras;  
changeable with  
slide carriage



$45^\circ$  camera for  
thread monitoring



## visiTeach®

- Can be programmed on the machine
- Measurement functions for universal application
- Position correction in X and Y direction
- Position correction in case of rotation
- Expandable with customer-specific functions

## Pre-singulation

- Machining nozzle, machining container
- Distance monitoring for increased performance
- Length monitoring for sorting out foreign bodies

## Glas slide

- 90° rail as standard version
- V and L position for checking cylindrical and disk-shaped parts (see parts spectrum)

## Sorting station

- Stainless steel flap
- Monitoring of the flap functions
- Adjustable discharge width
- Counting of go parts

## Scope of supply

- Standard sorting device for disk-shaped and cylindrical parts
- Pre-selection unit for singulating and sorting out foreign parts
- High-precision measuring and sorting unit with telecentric cameras
- Selection diverter
- DSP image processing system with TFT monitor, keyboard, mouse
- Test chamber with protective doors
- visiLum® infrared lighting
- Extensive documentation
- Training and program examples

## Options

- Part bins in different designs
- Sorting devices tailored to your part spectrum
- Pull-off belt
- Packing unit
- Fall shaft
- Data storage in CF memory and network connection
- PLC software for creating test reports
- Printer for report printouts
- Network connection
- 60° rail for hexagon screw
- Additional system for supporting 3 cameras SIMULTANEOUSLY

## Control Cabinets

- Control cabinet/equipment cabinet
- Emergency off, main switch, control buttons

## Connection tank

- Central connection unit
- Peripheral connection via Harting sensor island
- Control and power supply possible from customer devices such as e.g. bin, container, or packing unit

