

MEASURING MACHINE FOR SORTING AND MATCHING TASKS



## Description

The Bontech WorkBox is a flexible "work unit" which is used for measurement and matching tasks.

The handling is made by a Stäubli Scara robot.

The machine can be equipped with a wide range of measuring systems, e.g. contact or air measuring systems.

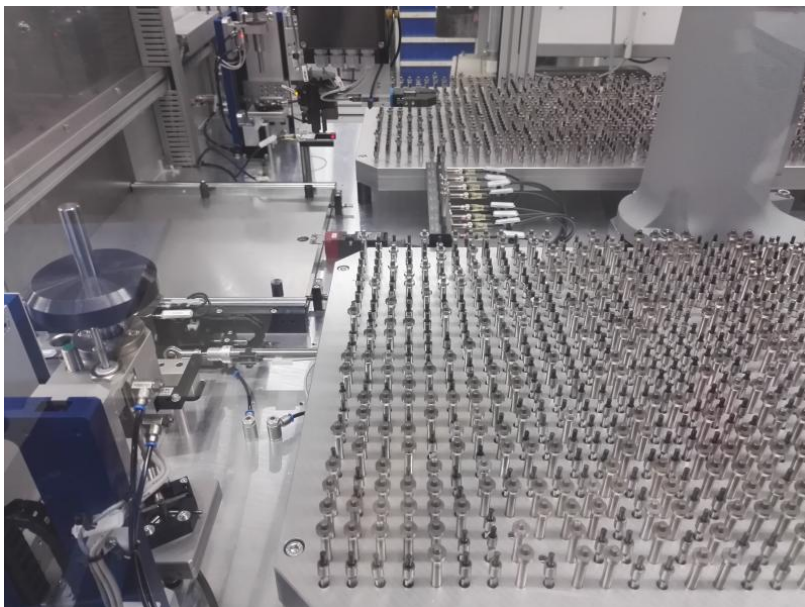
## Sorting-Matching Application

In this example, the bore of an injection nozzle is measured directly after the grinding process with a BontScan bench gauge and the bore-data is recorded along with the ID number in the database.



At the same time injector needles are measured in the WorkBox and stored. The storage capacity of the workbox is up to 2'700 needles.

At a later stage the data matrix code of an injector nozzle is read and the system searches for a suitable needle. A laser marks the needle with an ID number.



## Automation & Robotics Control User Interface

Auto | Manuell | Admin Tools | Messmitteltahigkeit V1 | Messmitteltahigkeit V3 | Element Konfiguration | WorkBox Konfiguration | Daten Viewer

### Einsortieren

Anweisungen / Info Einsortieren

**Einsortieren ist ausgeschaltet**

Resultate Einsortieren

Merkmal	Wert	Einheit

Beladepalette  
Nadel Beladepalette:

WorkBox Funktionen

**Senden  
Einsortieren / Paaren**

Nadel Einzelmessung

WorkBox Status

Einsortieren

Paaren

Zyklus Stop

Beladepalette Tauschen

Demo

Zyklus Stop

Pause

Sofort Stopp

### Paaren

Anweisungen / Info Paaren

Data Matrix Code Scannen

Resultate Paaren

Merkmal	Wert	Einheit
Element	LTO-U9166LV51	
Nadelfuhung	LTO-T9299LV51	
Gemessen am	26.11.2014 11:21:14	
Seriennummer	57	
Sequenznummer	3	
Bestell-Nr.	905525	
Personal-ID	1978	
Nadel	LTO-T9340	
Gemessen am	01.12.2014 15:42:37	
Max. Nadel	5,99988	mm
Min. Nadelfuhung	6,00493	mm
Spiel	5,05	µm

Allgemein

Benutzer Name:

Personal ID:

Benutzer wechseln

Anwendung Beenden

Paaren lauft...

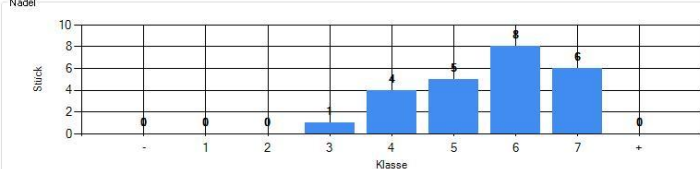
## Automation & Robotics Control Database Management

Auto | Manuell | Admin Tools | Messmitteltahigkeit V1 | Messmitteltahigkeit V3 | Element Konfiguration | WorkBox Konfiguration | Daten Viewer

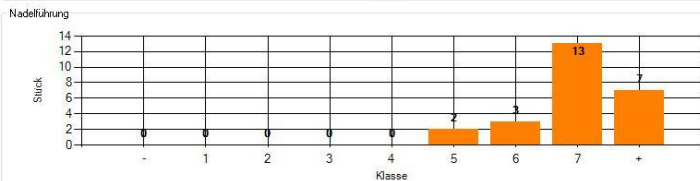
WorkBox Inhalt | Verteilung | Beladepalette | Lagerpaletten | Paarungen | Nadelfuhungen | Nadeln | Nadeln Ausschuss | Funktionen

Dusenelement	Nadelfuhung	Nadel
LTO-U9095bE	LTO-T9203b	LTO-T9204

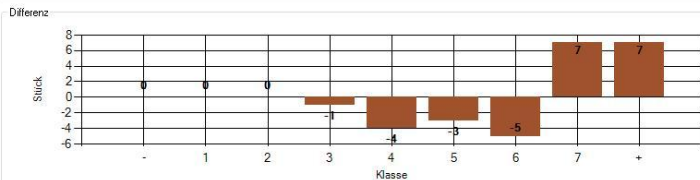
**Nadel**



**Nadelfuhung**



**Differenz**



Merkmal	Wert	Einheit
Nadel	LTO-T9204	
Gesamt	24	Stuck
Anz. Klassen	7	Stuck
Startklasse	1	
Klasse Startwert	7,001	mm
Klasse Endwert	7,008	mm
Nadelfuhung	LTO-T9203b	
Gesamt	25	Stuck
Anz. Klassen	7	Stuck
Startklasse	1	
Klasse Startwert	7,006	mm
Klasse Endwert	7,013	mm

Roboter Fehler: Armleitung kann nicht eingeschaltet werden. Betriebsart uberprufen