

# STANDARD ASSEMBLY MACHINE

For assembly of multiple components with vision inspection and quality control.



The basic model **LTM-106**, comes equipped with:

Height adjustable table with lights.

Pneumatic system and valves.

Light safety barrier.

Industrial PC with flash memory, XP Embedded and 96 I/O

Electrical cabinet NEMA Type 12 with extra space for expansion.

Proprietary PC Control and if required, Vision system.

Servo or analogue, measuring systems can be used for the appropriate application.

The machine can also be designed with quick change system of the table plate/assembly fixture to run different parts.

## Verification of components before the assembly cycle:

Mechanical control in the form milled fixture. Sensors, inductive, capacitive, laser, etc. The vision system takes pictures for measurement and verification.

## During the assembly cycle:

All actuation and motion are verified during the cycle. If required, the component(s) can also be verified.

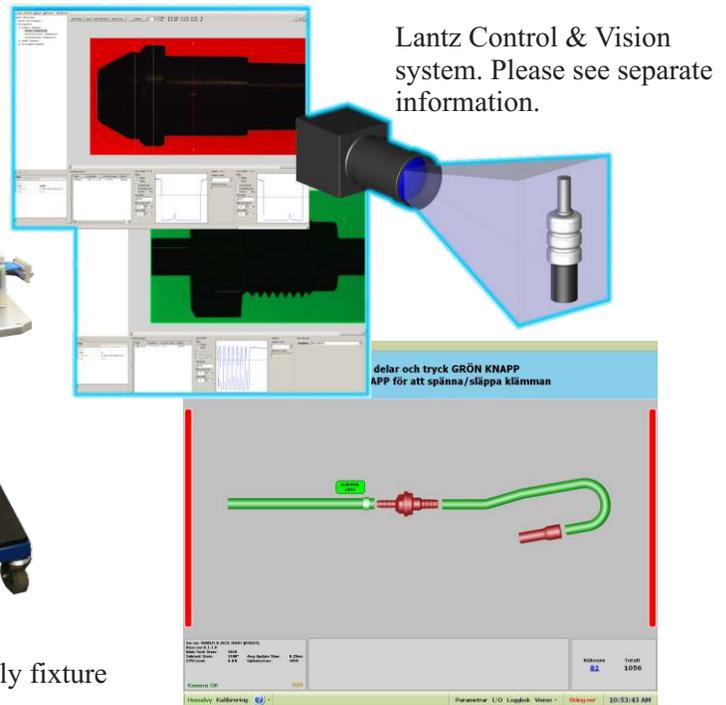
## After the assembly cycle:

All assembled parts and components are verified by sensors or a vision system for correct assembly. For critical dimensions will check and validate these features.

Assembly fixture and tooling for fuel components with standard tool for clips.



Quick change assembly fixture



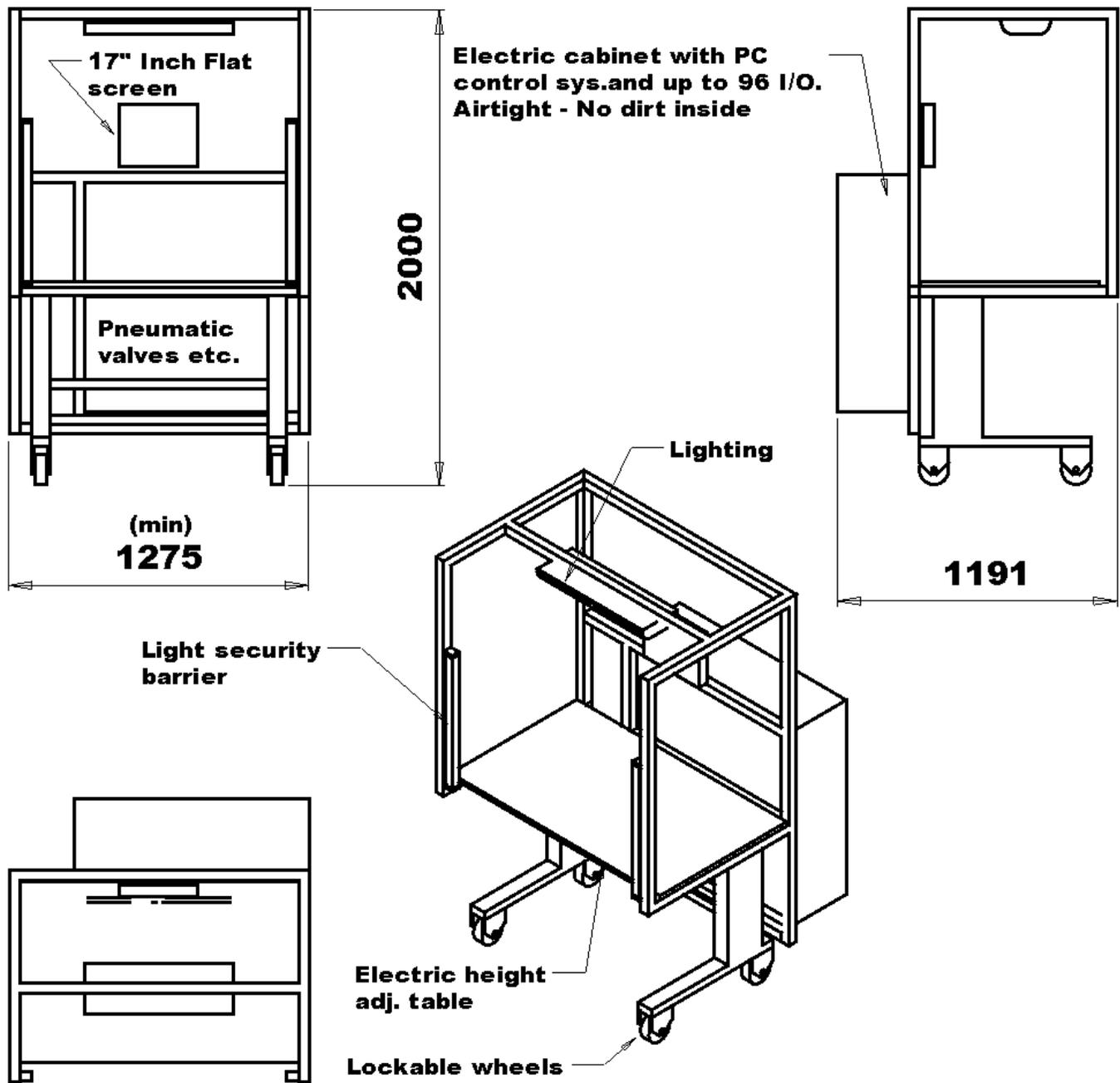
Doing the right thing at the right time is crucial to achieve high quality parts in the shortest possible time. Our control system and data feedback provides you real-time information. The operator is always made aware of current status and his/her next step of the process. All parts are always verified that they are assembled correctly.

Human errors are inevitable but our system will display any fault in graphics and as a text message immediately. Any unsuccessful movement will be detected by means of a time-out error. If the machine does not get a signal within the expected time the system will display the input number the fault, "Timeout on Input No. 14 – Assembly Cylinder +". This is a time saving feature for the operator and user.



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This machine can be equipped with different types of tools or fixtures for assembly operations. It can have one fixed table for a high volume product or we can use a quick change system. Change the assembly fixture and the machine will run the correct program.

**Technical data:**

Model LTM-106-12 Table width = 1275 mm

Model LTM-106-22 Table width = 2275 mm

Max load on table: 300 kg

Height table min/max: 875/1275 mm

Electric connection: 1x230V, 10A, 50 Hz

Pneumatic connection: R 1/2"

Please contact us for more information. For a full To help you with your needs, send us your parts drawings and/or samples, We need drawings and/or samples from you in order to give you a full quotation.