MARPOSS

M128

AUTOMATIC MEASURING MACHINE FOR CONROD CHECK

RELIABLE

The M128 system is designed and manufactured with the help of the most advanced engineering methods, making it an extremely reliable and precise checking instrument in workshop environment.

COMPLETE

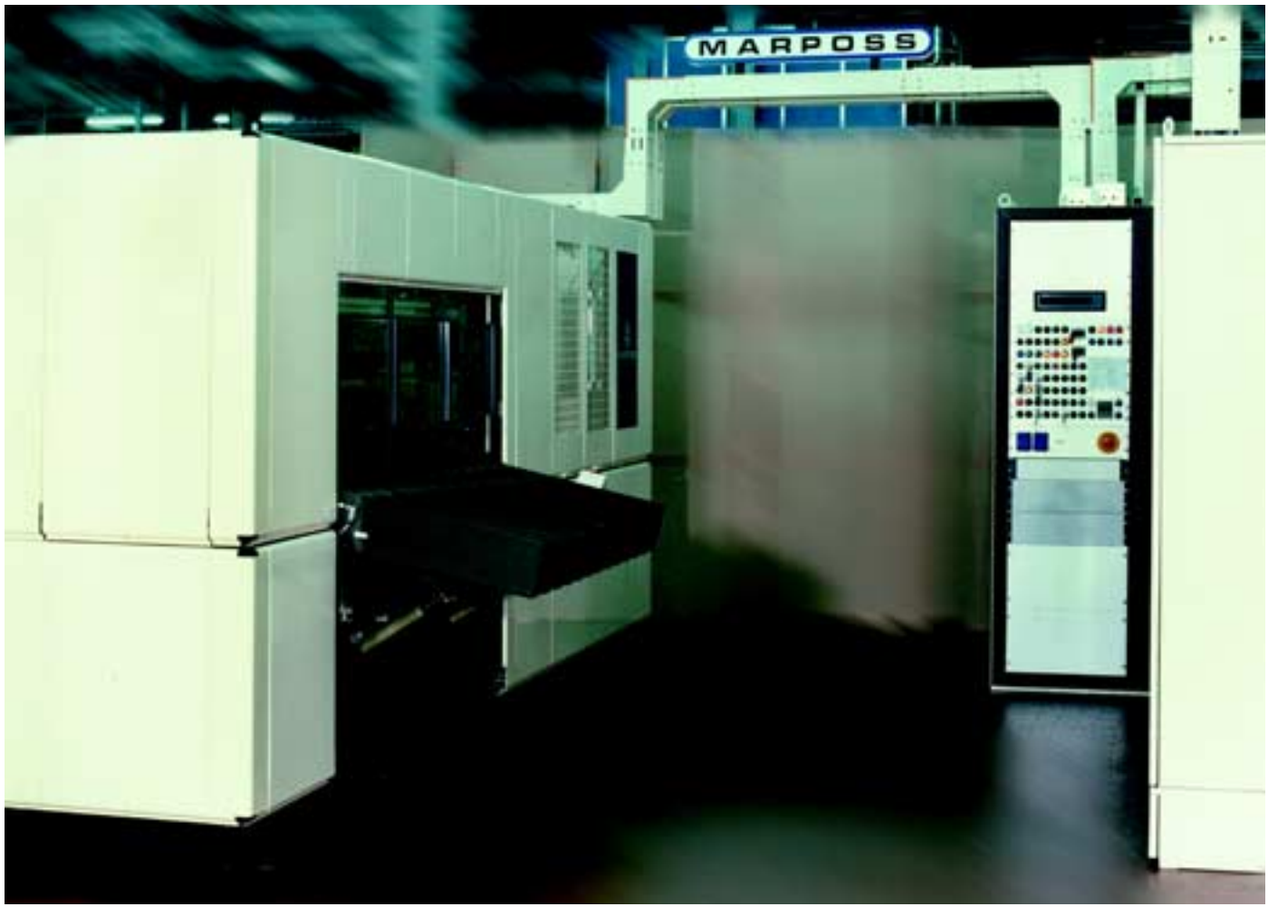
The M128 is provided with all the systems necessary for the integration within a manufacturing line. The capacity to keep cycle times within 7 seconds, assures the check of 100% of parts, allowing quality check of the whole production

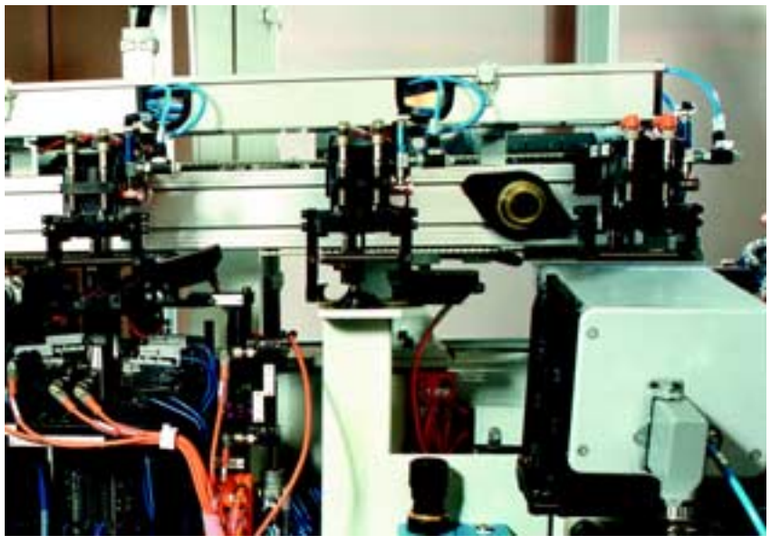
VERSATILE

The M128 system due to a series of stations and accessories, satisfies all the requests related to measure, con-rod identification and selection.

COMPETITIVE

The possibility to customize the M128 system M128 according to production and measurement requirements, allows for determining the proper gauging solution for cost-effective connecting rod testing.





THE M128 SYSTEM

The conveyor

The con-rods are brought in sequence to the various machine stations by use of a parallelogram conveyor ("elevate and move" principle). The upper beam, supporting the work-piece grippers, is shifted by an electro-mechanical system; while gripper opening and closing is pneumatically actuated.
The parts are oriented with the large bore turned towards the Operator.
At machine the entrance, orientation devices align the parts into a correct position.

Dimensional measuring station

The measuring station is located in the lower part of the machine. The con-rod is brought into position with the measuring devices by an elevator system.
The station typically used is able to detect traditional measurements on these parts and foresees two gauge plugs (one for the crank bore and one for the pin bore). Each gauge plug is provided with 8 measuring cells located in two different sections, plus a series of cells located on flat surfaces of the crank and pin bores.

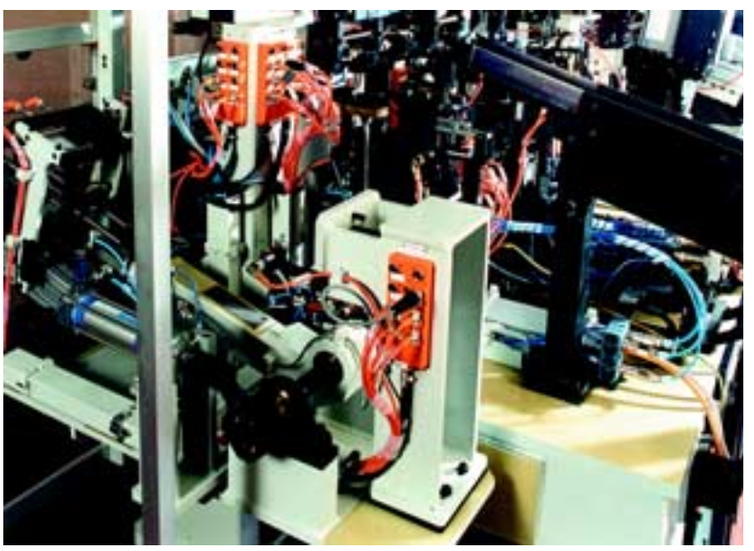
Weighing station

In this case, too, the station is located in the lower section of the machine, and is provided with an elevator device.
The weighing station is able to detect values related to the crank bore, the pin bore and the con-rod total weight.

Selecting device
It is composed by two groups:
- A motorized shuttle located on-line with the machine transport, used to bring the parts in line with the output chute. Parts are removed from the shuttle by a pneumatic cylinder.
- A series of gravity chutes placed perpendicular to the shuttle. A part class or a scrap cause is associated at every chute; the association is freely programmable.

Self-calibration device
The self-calibration device used for measure electric zeroing is integrated in the M128 system. Masters to zero the dimensional measuring station and the weigh station are located in a "parked" position. Calibration function can be customized by the Customer in four ways: upon request, programmed after "n" measuring cycles, on time, following a significant variation of the environment temperature. The mastering system has been designed so that it is not necessary to empty the machine of parts in order to perform the calibration.

Accessories which can be integrated into the system
The M128 system can be integrated with one or more accessory modules:
- Part type identification group.
- Device to pre-check the correct machining of pin and crank bores before the part entrance in measuring station.
- Marking station (permanent or not permanent marking).
- Station to verify the presence of chamfer cuts.
- Station to verify the presence of lubricating bores.
- Chutes placed in front of each functioning station for immediate exit of parts resulted scrap.
- Motorized chutes.
- Part instantaneous temperature probe.



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http://www.marposs.com

D6M12800G0 - *Specifications are subject to modifications*

Marposs holds ISO 9001 Quality System Certificate.
Has obtained EAQF 94 qualification and Q1-Award.