

MECHANIC & AUTOMATION SYSTEM DESIGN

SIBERNETIK with her experienced staff in custom machinery sector has completed many projects in cooperation with the leading companies of automotive industry.

Our dynamic staff works in a perfect harmony with our customers from the beginning of a project for the entire technological life of the product.

We intend to use the latest production and automation techniques in all the projects we carry on, in order to meet the demands of our customers.

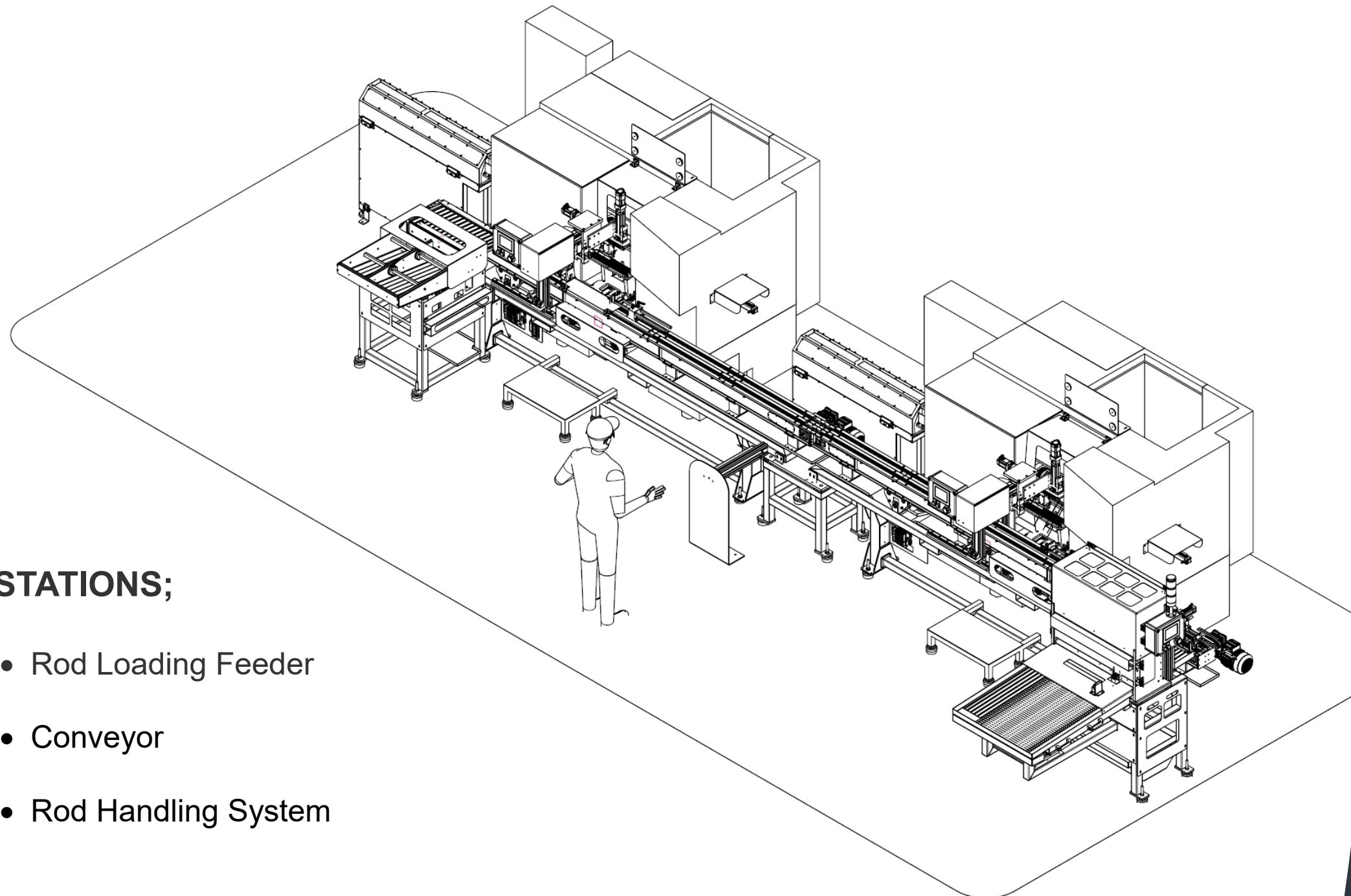
This document describes the technical characteristics of Steering Column Test Station designed and produced by SIBERNETIK



**CNC Lathe Automatical Loading / Unloading
System**

AUTOMATICAL LOADING / UNLOADING SYSTEM FOR CNC LATHE

A step feeder system for automatically loading / unloading of rods in different diameter & length.



STATIONS;

- Rod Loading Feeder
- Conveyor
- Rod Handling System



CUSTOMARY SOLUTIONS

Customary solutions are developed that will meet your demands according to your fabrication standards



3D CAD DESIGN

Systems are designed, using registered 3D CAD softwares on professional workstations

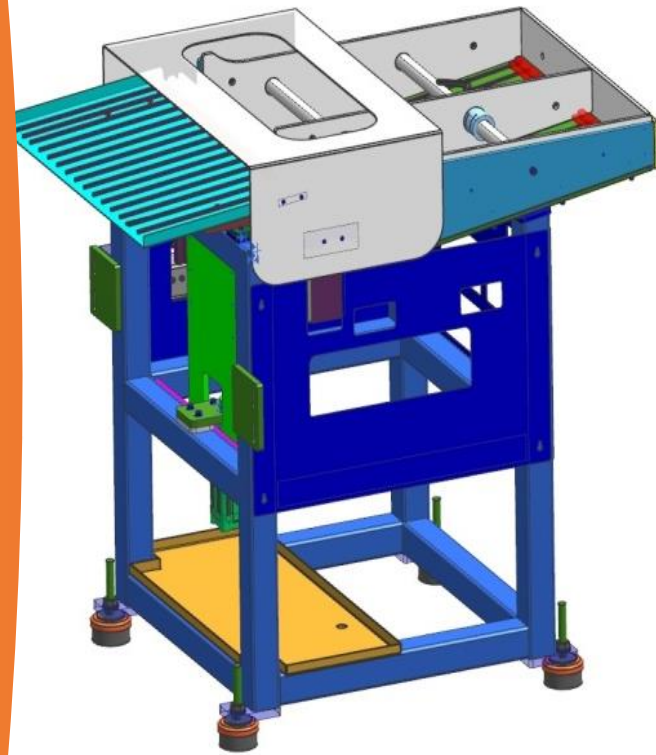


INNOVATIVE SOLUTIONS

One of the best solutions is applied after all alternatives are offered and discussed in cooperation

ROD LOADING FEEDER

Step feeder that is used to load the rods one by one to the conveyor

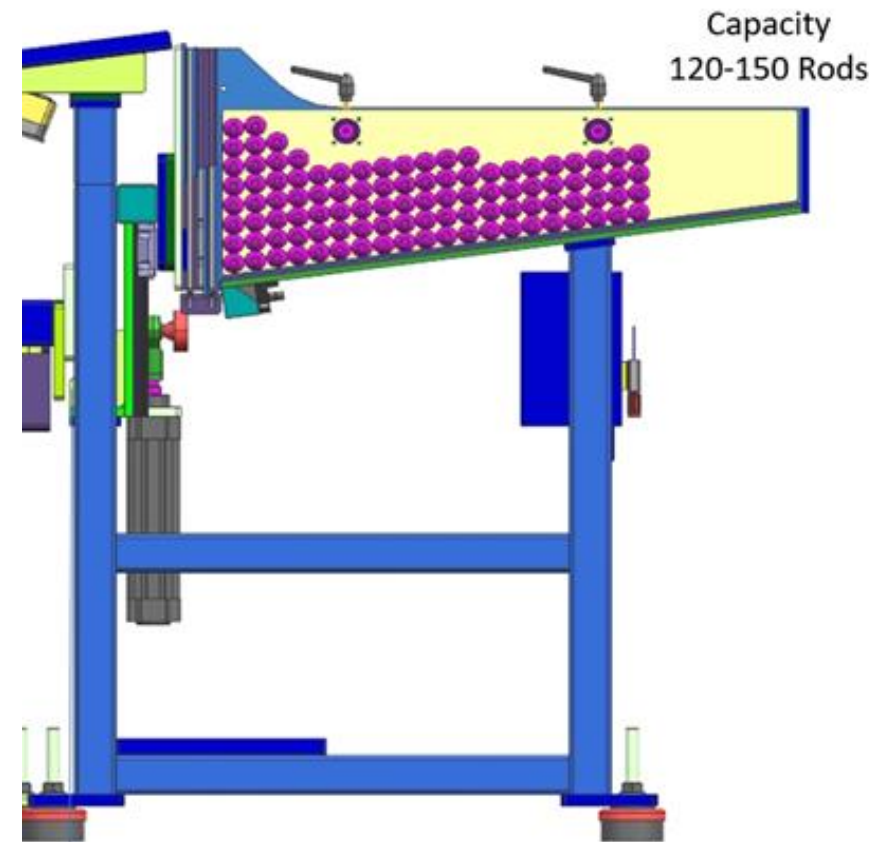


- ✓ Pneumatically Actuated,
- ✓ Manual Adjustment according to rod length,
- ✓ Suitable for loading rods in different diameters without any adjustment,
- ✓ Up to 150 rods capacity,
- ✓ Rod Presence & Fullness sensors,
- ✓ Can be integrated to automation system easily with Digital I/O,

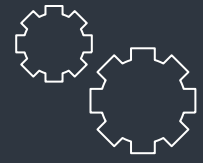


Safety Precautions

- ✓ Moving areas are covered by safety covers with magnetic switches,
- ✓ All surfaces that will be in contact with rods are coated with plastic material,



- Fabrication Conditions,
- Lay-Out
- Mechanic System
- Pneumatic System
- Ergonomics
- Safety



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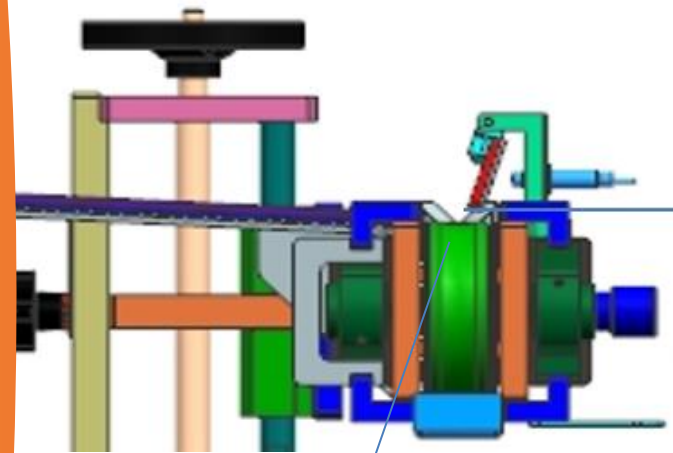


INNOVATIVE SOLUTIONS

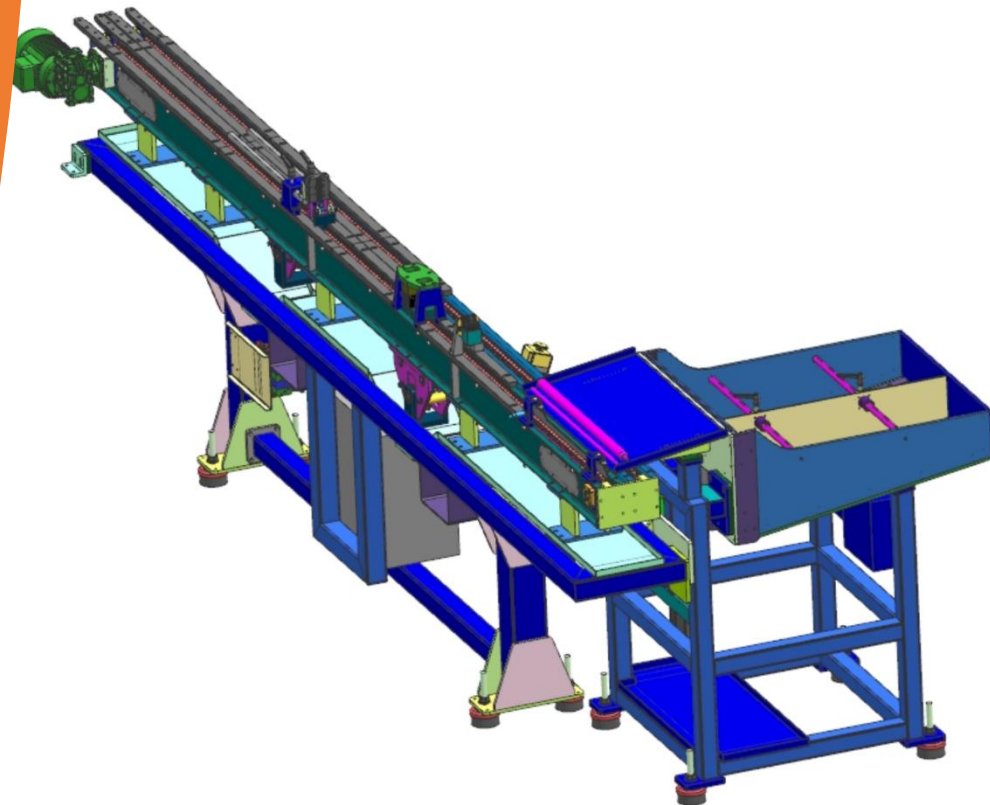
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CONVEYOR

- ✓ Chain or Belt Conveyor applications are possible,
- ✓ Rod Presence & Fullness Sensors
- ✓ Rod Stopper Systems on different positions,
- ✓ Speed Adjustment Possibility,
- ✓ Multi Channel Conveyor Applications,
- ✓ Height Adjustment & Back – Forth Adjustment Possibility,

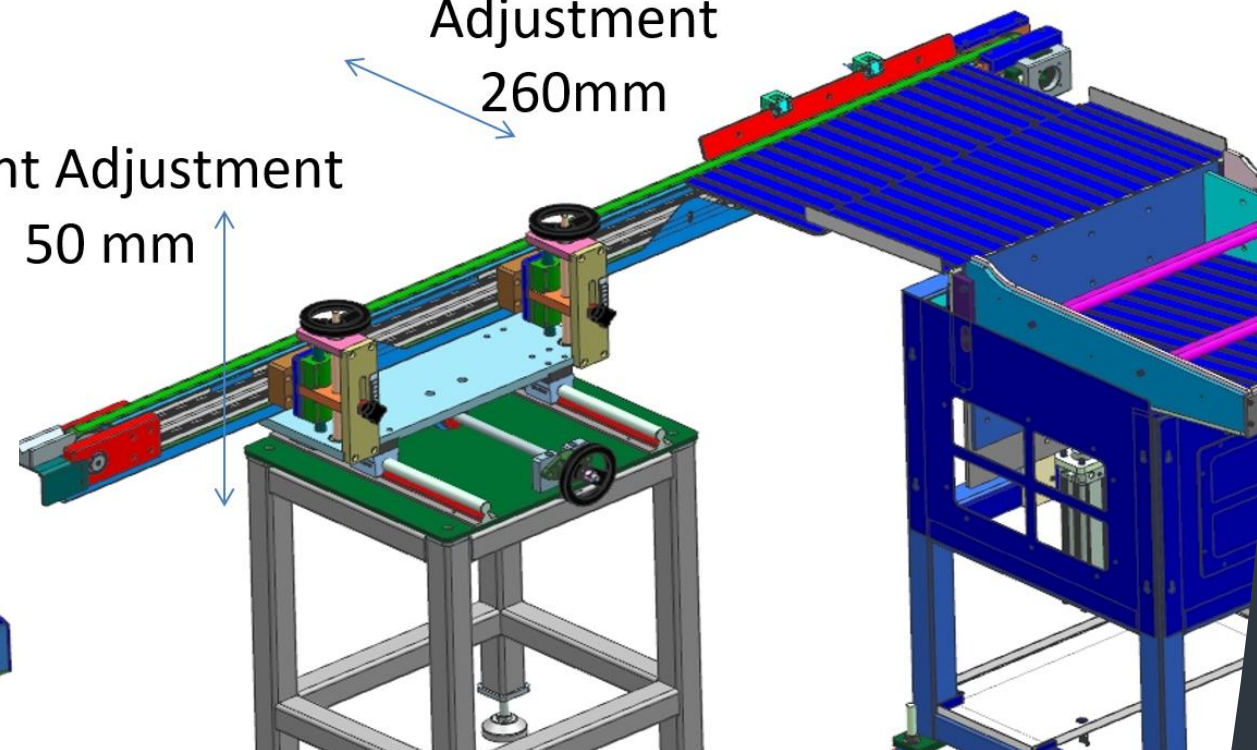


Special Machined Belt Form



Height Adjustment
50 mm

Back - Forth
Adjustment
260mm



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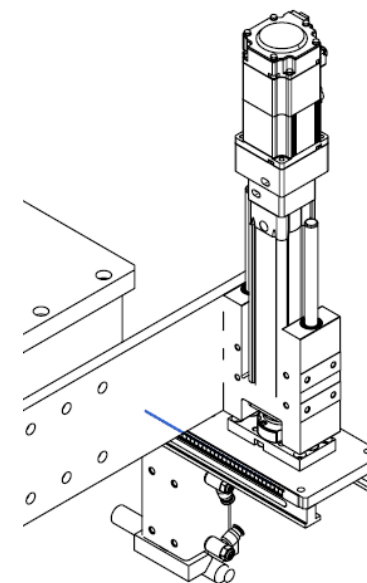
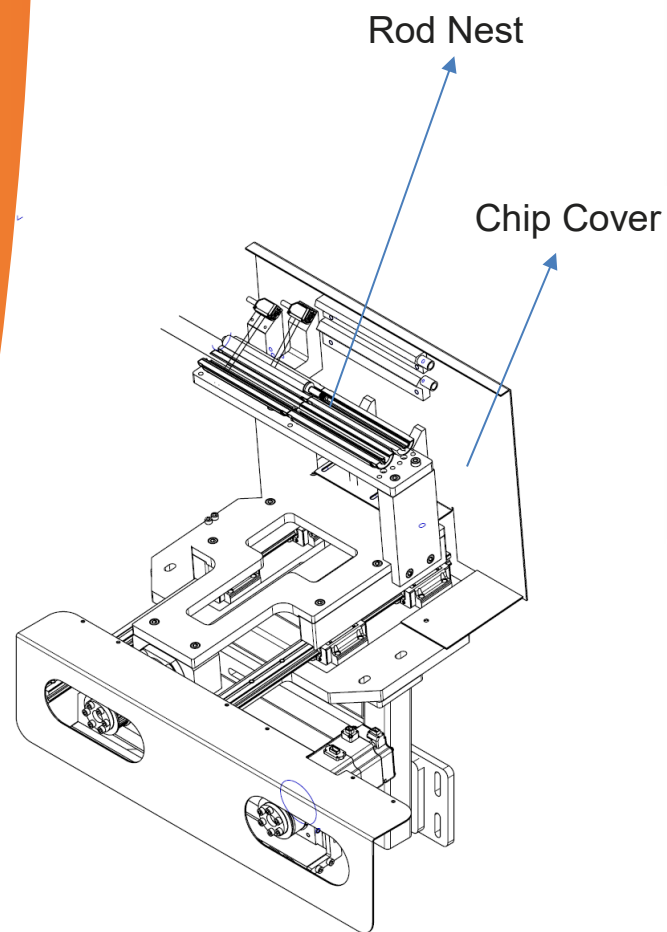
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HANDLING SYSTEM

- ✓ 3 axis servo driven Handling System,
- ✓ Loads the rods from conveyor to CNC Lathe,
- ✓ Magnetic grippers are used to hold the rods,
- ✓ Can be used for rods with different diameter without adjustment,
- ✓ Can be used for rods with different length by manual adjustment,



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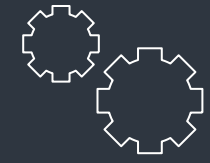
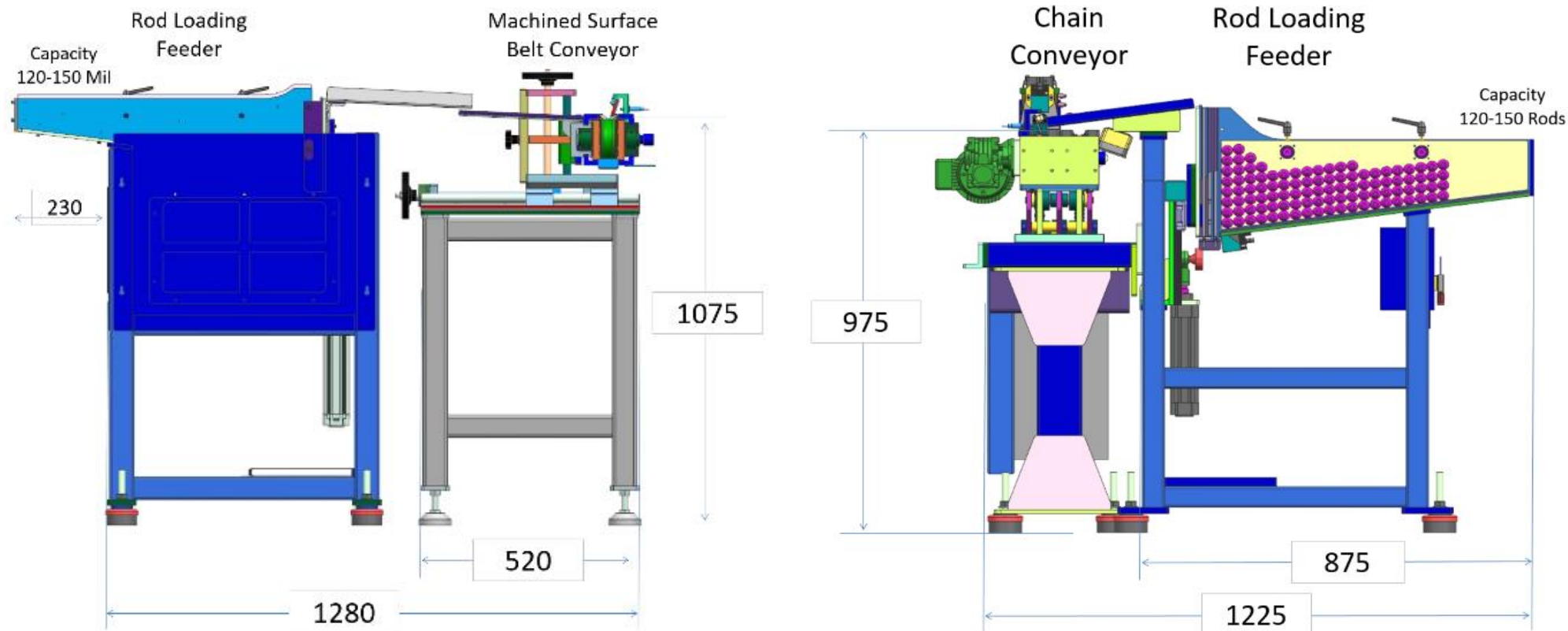
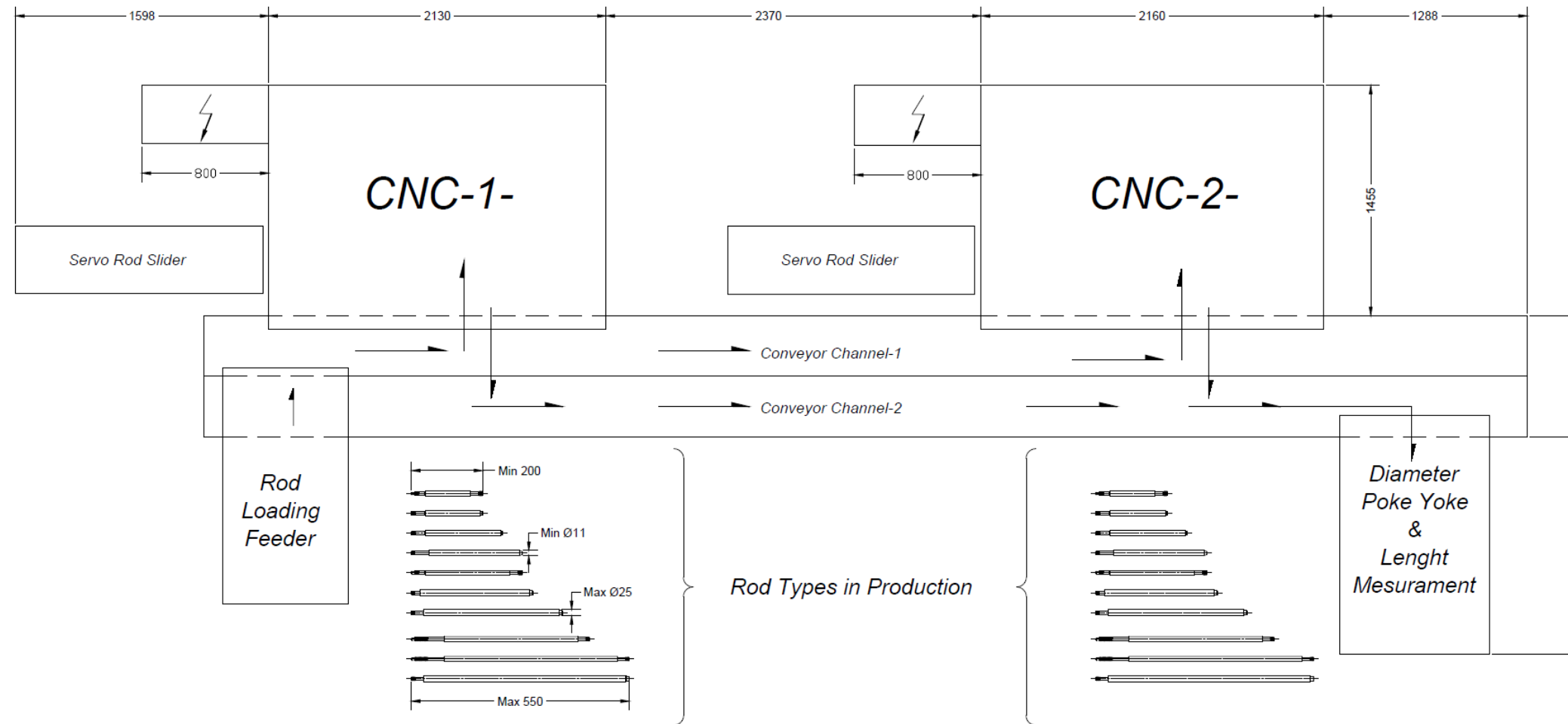


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DIMENSIONS



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