

Technical Specifications for the Multifunctional Chewing Simulator CS-4.8 (8 sample chambers)

Components:

- Powerful brushless servo motors (maintenance free) for both axes
- Control-unit contains industrial PC and connectors for monitor, keyboard and mouse
- Easy to use graphical user interface under MS Windows XP
- Options: Thermocycling and break detection with abrasion measurement
- 8 Sample chambers with $\varnothing 90\text{mm}$, adjustable to reach every point within 76mm diameter, identically kinematics in each chamber for reproducible results
- Different types of sample holders are available for single teeth, bridges etc.
- Machine comes with standard holders for 5mm degussit balls as antagonists
- A special table is included if the machine is ordered with Thermocycling, otherwise you need a normal table

Operating parameters:

- Antagonist force can be adjusted in steps of 10N up to 120N by adding weights (included)
- Upward speed (Z-Axis) 1-90mm/s (steps of 0,2mm/s)
- Downward speed (Z-Axis) 1-90mm/s (steps of 0,2mm/s)
- Forward speed (X-Axis) 1-90mm/s (steps of 0,2mm/s)
- Backward speed (X-Axis) 1-90mm/s (steps of 0,2mm/s)
- Chewing height (Z-direction) 0,1-90mm
- Chewing depth (X-direction) 0,1-60mm
- Free definable modes of operation: Single axis movement, both axes, with or without Thermocycling, only Thermocycling (Thermocycling is an option)
- Mechanical details: Weight Max. 160kg, depends on the weights
- Max. Temperature of surrounding: 40°C Power consumption: 230VAC, 300W (120VAC available)

Software functions:

- All parameters can be entered easily (graphical user interface) and saved for future use
- Control of the operational state: Temperature, running time, remaining time, maintenance intervals can be displayed
- Report of errors or malfunction
- Software update is possible via Internet
- All CS-4.x units can be coupled together to run test with the same parameters

Maintenance:

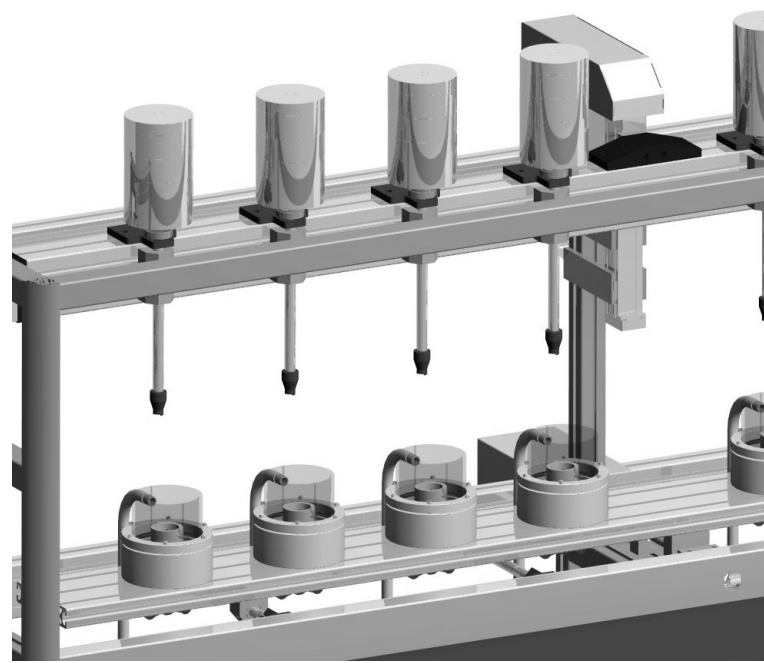
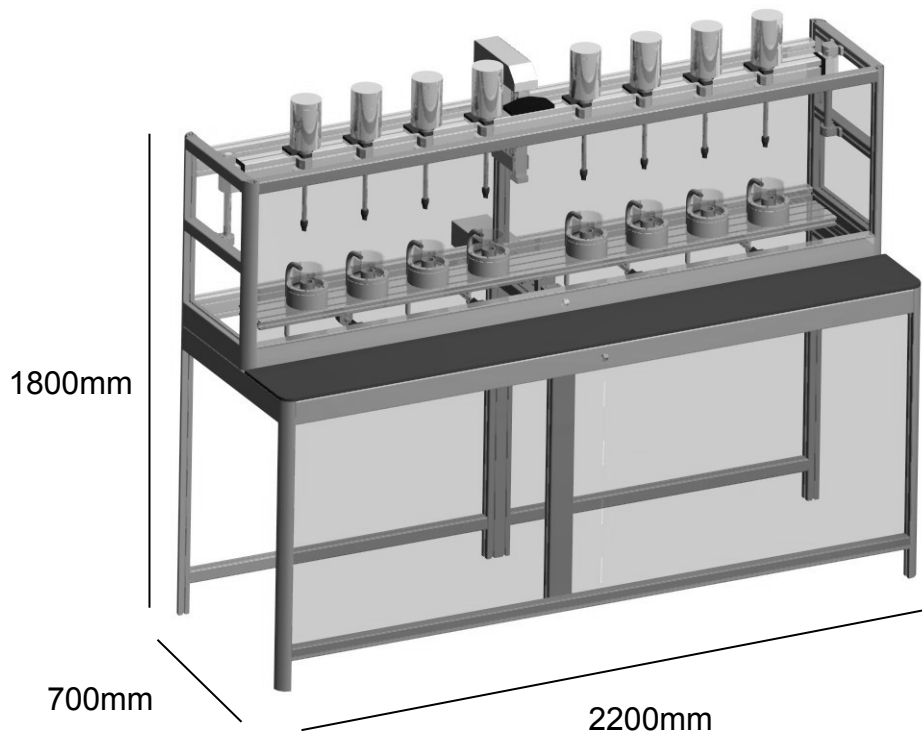
- Cleaning and lubrication according to the user manual

Spare parts:

- Spindles and bearings

Available options:

- Profile meter for free definable break detection and continuous abrasion measurement
- Thermocycling system with circulation pumps
- Circulation pumps without Thermocycling



Technical Specifications are subject to change without notice.