

Reference activities

On the following pages you will find examples of products and single modules. During the development of these products hence the mentioned modules I was responsible as a mechanical designer and / or project manager.

Content

Bang & Olufsen BeoSound 9000	2
Tecan LS Reloaded™	3
Tecan Connect™	4
Tecan PowerScanner™	5
Tecan Infinite® F50	6

Bang & Olufsen BeoSound 9000

CD-changer with capacity of 6 discs. The instrument can be used in different positionings (e.g. horizontal on a board, vertical on a pedestal or hanging on a wall).

Module:

Clamper module

Tasks and responsibilities:

- Mechanical design of the clamper module
- Definition of intersections to surrounding modules together with the responsible mechanical designers



Fig. 1: Bang & Olufsen BeoSound 9000
Source: Bang & Olufsen a/s



Fig. 2: Clamper module BeoSound 9000
Source: Bang & Olufsen a/s

References · products and modules

Tecan LS Reloaded™

Fluorescence laser scanner for measurements of microarrays in the life sciences

Modules:

- Plate-transport
- Housing

Tasks and responsibilities:

- Coordination of external mechanical designers and suppliers
- Concept development of plate-transport
- Detailed engineering of large areas of the plate-transport (excl. preparation of drawings)
- Concept development of the movement of the housings flap: definition of the travel and position of the hinges



Fig. 3: Tecan Connect™ (in front) in combination with Tecan LS Reloaded (background)

Tecan Connect: left: tower with gripper; right: two magazines to store microplates
Photo courtesy of Tecan Group Ltd.

References · products and modules

Tecan Connect™

Microplate stacker for automated batch processing of microplates in combination with e.g. a microplate reader or a fluorescence laser scanner

Module: Complete instrument

Tasks and responsibilities:

- Project management with responsibility to meet the targets for costs, quality and time to market
- Technical leadership of the project team consisting of members from R&D, logistics, technical documentation, and production engineering
- Mechanical design



Fig. 4: Tecan Connect (in front) in combination with Tecan LS Reloaded™ (background)

Tecan Connect: left: tower with gripper; right: two magazines to store microplates
Photo courtesy of Tecan Group Ltd.

Tecan PowerScanner™

Fluorescence laser scanner for measurements of microarrays on microscope slides in the life sciences

Modules:

- Magazine for microscope slides
- Transport mechanism for magazine
- Part of the housing incl. mechanism for the movement of the flap

Tasks and responsibilities:

- Concept development of the above modules
- Mechanical design of the above modules



Fig. 5: Tecan PowerScanner
Photo courtesy of Tecan Group Ltd.

References · products and modules

Tecan Infinite® F50

Microplate reader for optical absorbance measurements. Designed for ELISA applications in clinical diagnostics.

Module: Complete instrument

Tasks and responsibilities:

- Project management with responsibility to meet the targets for costs, quality and time to market
- Technical leadership of the project team consisting of members from R&D, logistics, regulatory affairs, technical documentation, and production engineering
- Selection of and collaboration with Asian suppliers
- Definition of the development concept
- Definition of the concept of the instrument



Fig. 6: Tecan Infinite F50
Photo courtesy of Tecan Group Ltd.