

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.

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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

inspired concepts

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 ConnectTM (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

inspired concepts

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 ReloadedTM (background)

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



inspired concepts

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

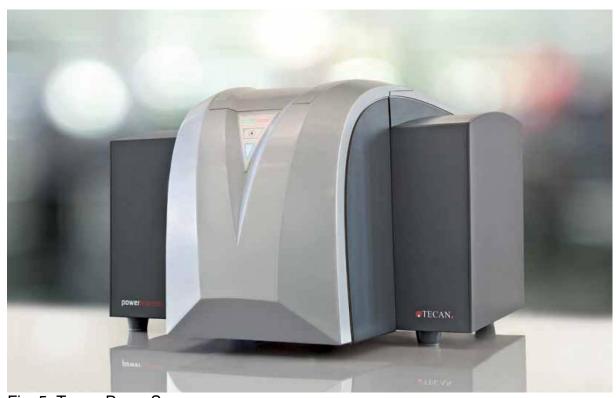


Fig. 5: Tecan PowerScanner Photo courtesy of Tecan Group Ltd.



References · products and modules

inspired concepts

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.