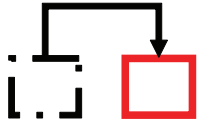
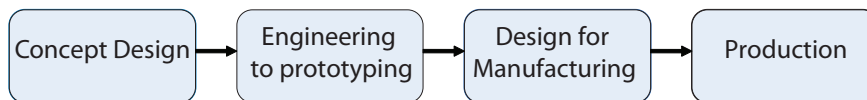


High Performance Phi & Z- Axis System



We work in an industry that is demanding a continuous development of faster, smaller, highly accurate, cost efficient and more advanced products. MECAL integrates these developments in its mechanical design and predictive modelling to meet the performance specifications of our clients.

In a close relationship with you, we develop unique solutions, efficiently and fast. Our extensive experience and knowledge reach multi-disciplinary levels, which enables us to offer you a total package. From concept design to production:



We have developed a high performance phi & z - axis system, called project SERIOS, which is a good example of the match between customer expectations and MECAL quality. The SERIOS is a fast, accurate and compact 2D manipulator for pick & place systems of small components.



Specifications SERIOS:

SERIOS is a high performance Phi and Z-axis direct driven air bearing stage. The specifications result in low mass and compact design:

- > Moving Mass 350 gr.
Dimensions \varnothing 50 x 150 mm
- > Z-axis specifications
Travel 0 - 10 mm
Accelerations 100 m/ s²
Accuracy \pm 3 μ m
- > Phi-axis specification
Travel -180°, +180°
Angular Acceleration 5000 rad/ s²
Angular Accuracy \pm 1 mrad
- > Optional
Onboard vision system
Standard vacuum nozzle for lifting components

Unique components SERIOS

- > Customized 2D Air Bearing System
High accuracy, no friction
- > Customized 2D Optical Encoder
Combined measurement of translation and rotation
- > Customized Motor System
Enables fast translation and rotation
- > Contactless Height Measurement
with respect to substrate

Contact

MECAL

De Run 8245
P.O. Box 375
5500 AJ Veldhoven
The Netherlands

T +31 40 2302 700
F +31 40 2302 770
E info@mecal.eu
I www.mecal.eu