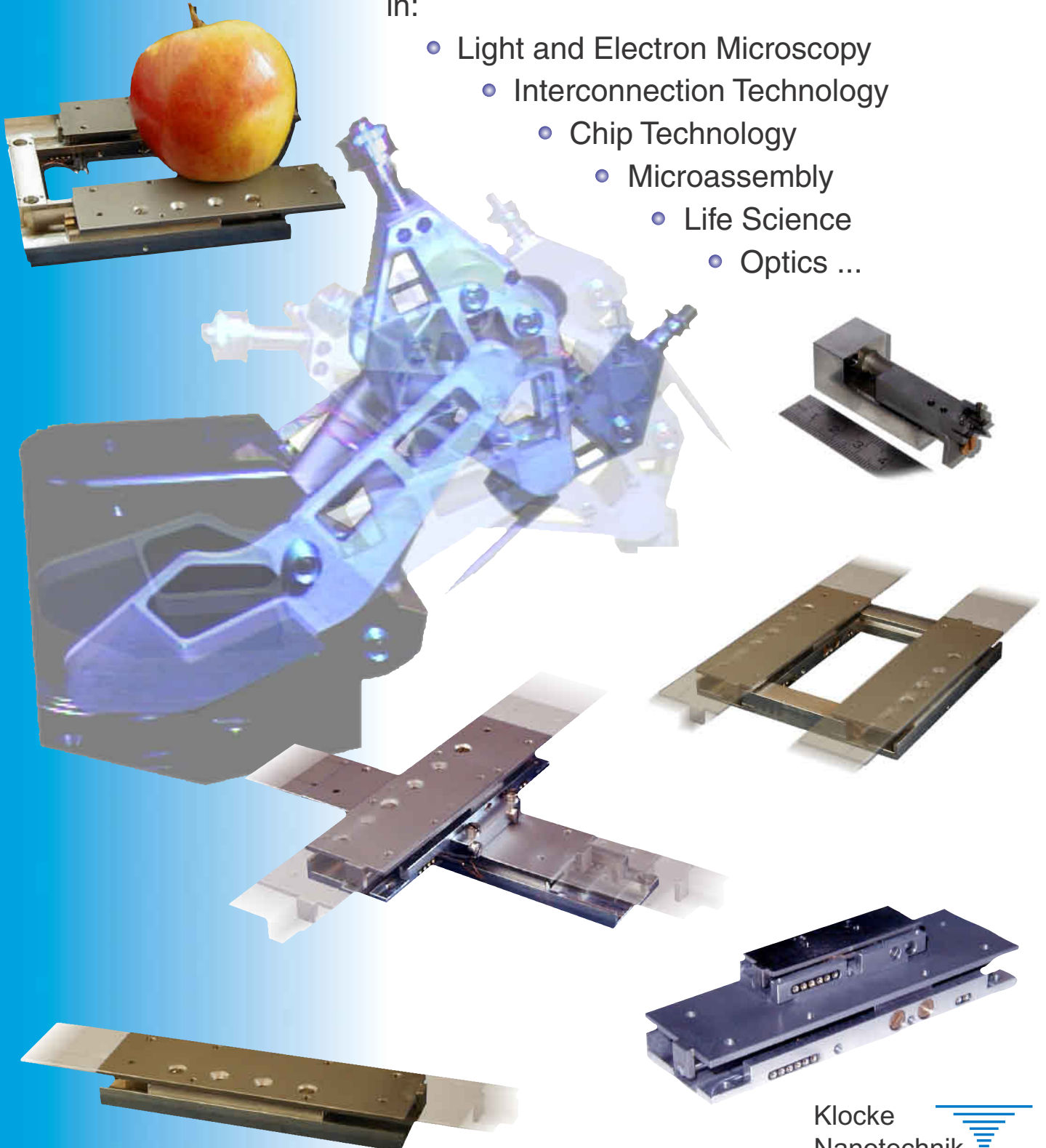


NMT - MODULES

NANOMETER RESOLUTION
ON CENTIMETER SCALE

With strokes between 5 and 70 mm at 2 Nano-meter resolution these extremely small positioning modules open a new field of Nanorobotics in:

- Light and Electron Microscopy
- Interconnection Technology
- Chip Technology
- Microassembly
- Life Science
- Optics ...



NMT - MODULES

A SET OF NANOMOTOR® DRIVEN TABLES

A new set of motorized tables developed by Klocke Nanotechnik allow high strokes at small volumes. The modules are driven with the smallest and most precise linear motor, our Nanomotor®. Loads of up to two kg can be moved over centimeters of stroke with down to 2 nm resolution. Manipulation in many degrees of freedom is possible without backlash. The modules NMT xx-L are longer, but thin like a pencil. In most of the NMT-modules position measurement systems can be included without increasing the size. The resolution of the position sensor is better than 10 nm.

Modules for horizontal operation:

Type	Stroke [mm]	Max. load [kg]	Length in direction of stroke [mm]	Space necessary in direction of stroke [mm]	Max. Width [mm]	Height [mm]
NMT 10-L	10	0.2	50	60	17	13
NMT 20-L	20	0.2	60	80	17	13
NMT 10	10	1	40	50	26	13
NMT 20	20	1	50	70	26	13
NMT 30	30	1	60	90	29	13
NMT 50	50	2	80	130	34	13
NMT 60	60	2	90	150	34	13
NMT 70	70	2	100	170	34	13

Two modules can be combined as two axis table...

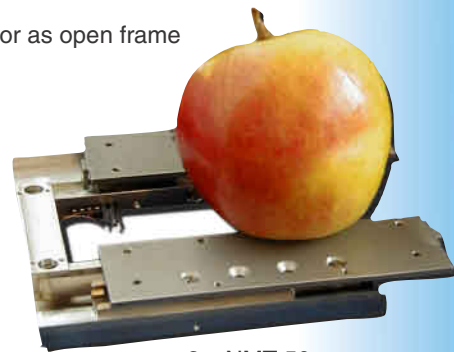


2 x NMT 50

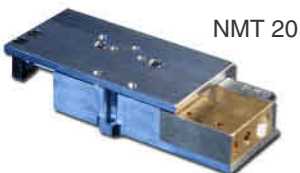


2 x NMT 20

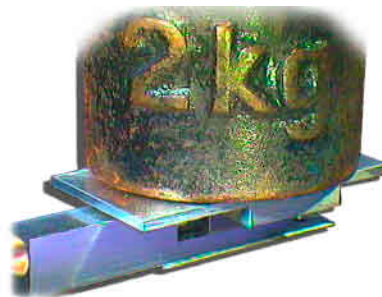
...or as open frame



2 x NMT 50



NMT 20



Heavy cargo!



2 x NMT 5-L

NMT Z20



Modules for vertical operation:

Type	Stroke [mm]	Max. load [kg]	Height [mm]	Height used [mm]	Base [mm]
NMT Z10	10	0.2	40	50	20 x 28
NMT Z20	20	0.1	50	70	20 x 28

NMT Z10 with Nanomotor-Gripper



Precision made in Aachen:

Klocke Nanotechnik

GERMANY:
Pascalstr. 17
52076 Aachen

Phone: +49-2408-95099-20
Fax: +49-2408-95099-26

www.nanomotor.de
info@nanomotor.de