



Nano Scan Technology

reasonable innovations

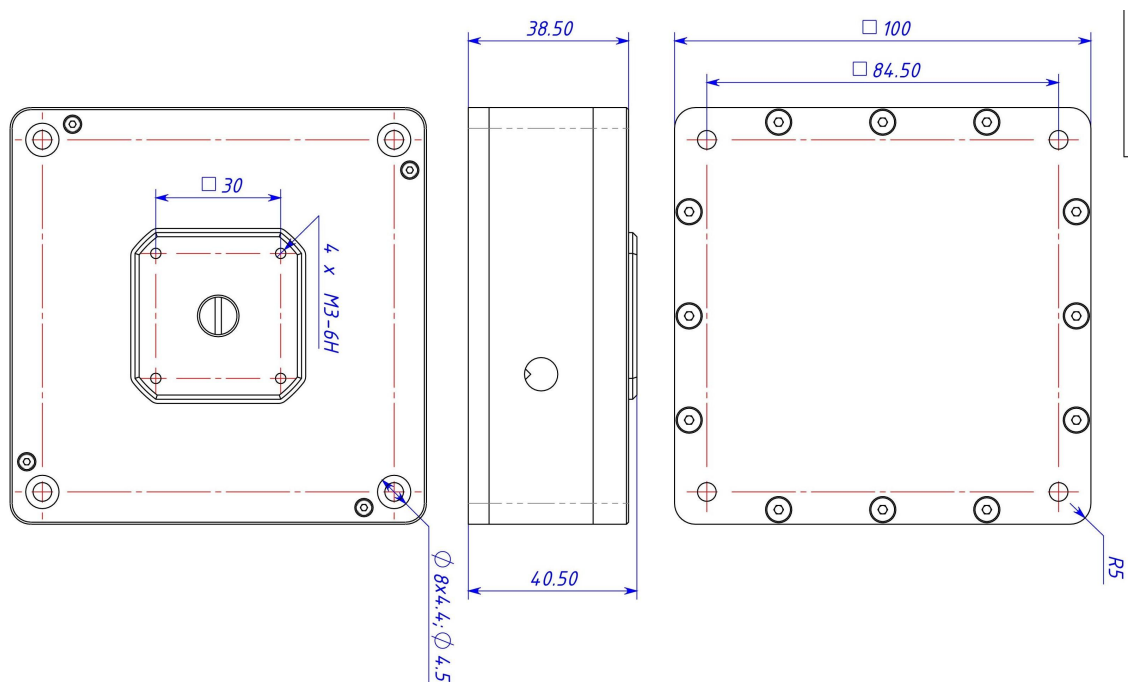
*Scanning probe, confocal and Raman microscopes
for scientific research and industry*

RATIS XYZ piezo stage

- Open Loop Mode.
- Close Loop Mode.
- Sensors: Double Capacitors.
- 50kHz, 15 μm Z

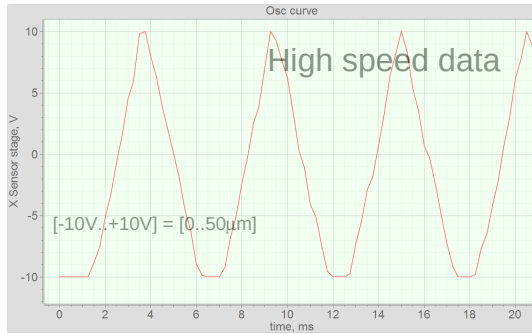


Range XYZ Open loop:	180x180x20 μm
Range XYZ Close loop:	150x150x15 μm
Close loop sensors:	Doubled capacitance
Max scan speed (OL) Lines/sec:	300
Max scan speed (CL) Lines/sec:	10
XY resonant frequency [Hz]:	500
Z resonant frequency [kHz]:	50
Sensors Speed:	20 kHz – 1 kHz
Sensors resolution:	5 nm [20 kHz] – 0,5 nm [1kHz]
Max. Load:	1 Kg

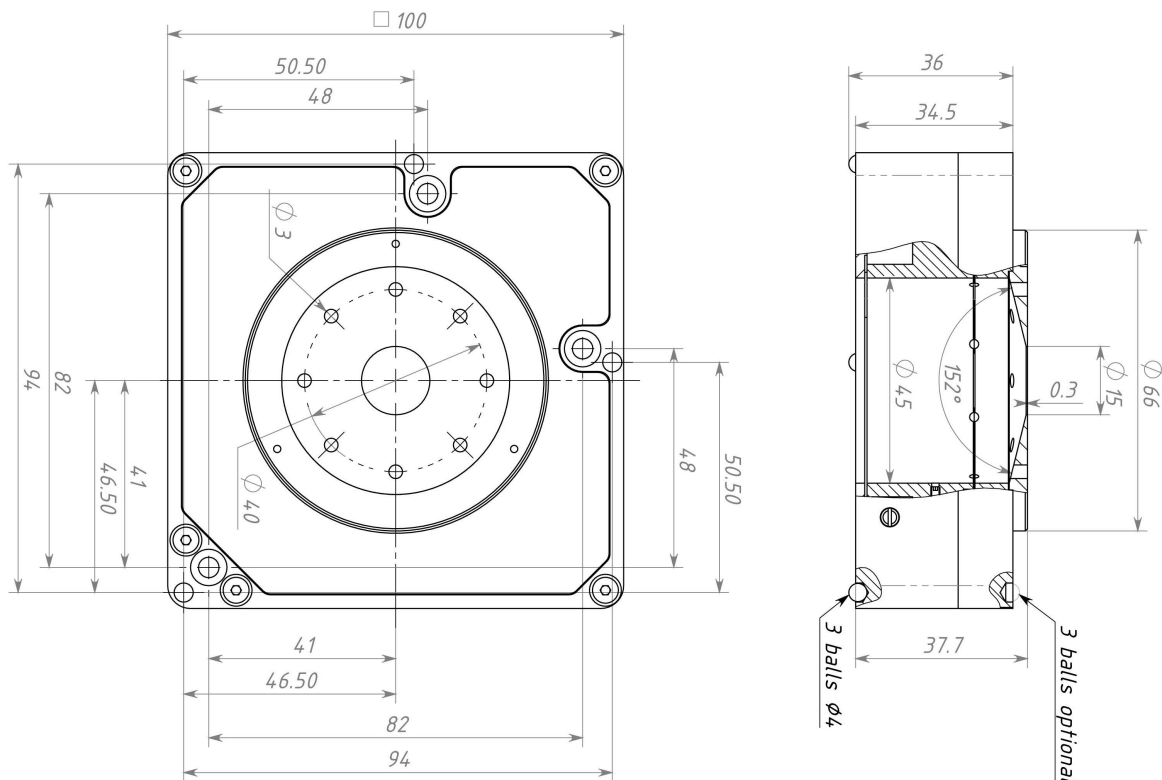


RATIS XYZ H piezo stage

- Open Loop Mode.
- Close Loop Mode.
- Sensors D. Capacitors.
- Central Hole for Optical applications.



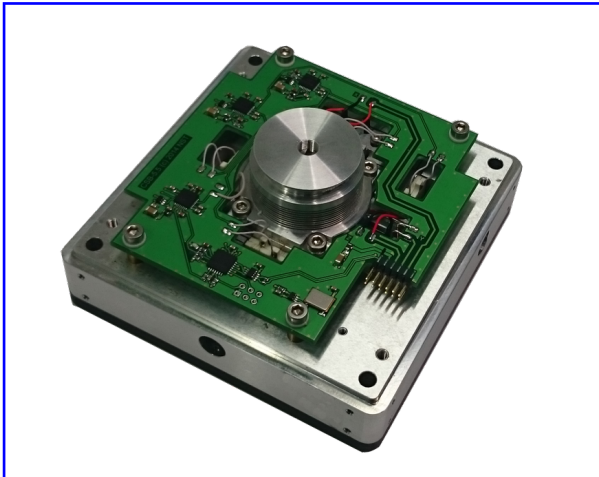
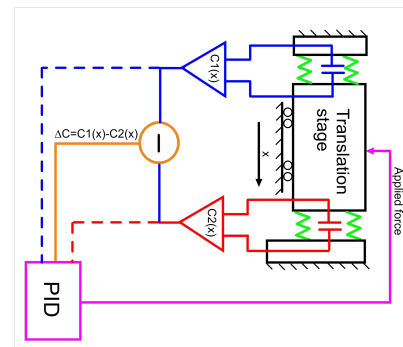
Range XYZ Open loop:	180x180x20 µm
Range XYZ Close loop:	150x150x15 µm
Close loop sensors:	Doubled capacitance
Max scan speed (OL) Lines/sec:	300
Max scan speed (CL) Lines/sec:	10
XY resonant frequency [Hz]:	500
Z resonant frequency [kHz]:	1
Sensors Speed:	20 kHz – 1 kHz
Sensors resolution:	5 nm [20 kHz] – 0,5 nm [1kHz]
Central hole diameter:	45 mm
Max. Load:	1 Kg



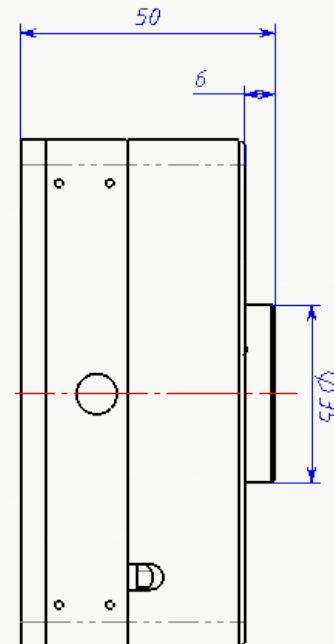
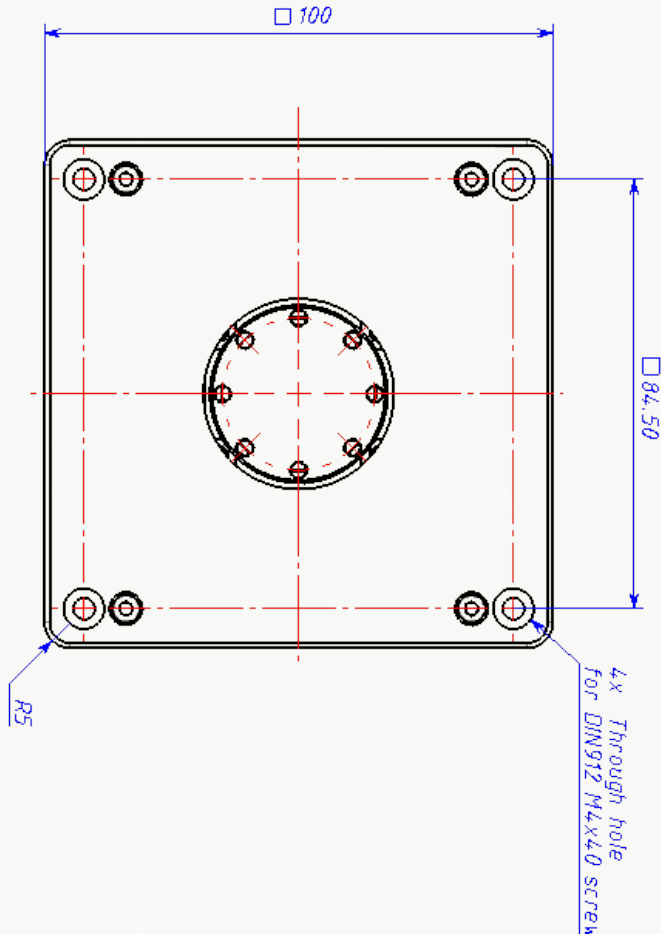
RATIS SPM B piezo stage

- Open Loop Mode.
- Close Loop Mode.
- Mechanically Independent XY axes
- Hi speed
- Sensors D. Capacitors.
- 50kHz, 15 μm Z

Double capacitance

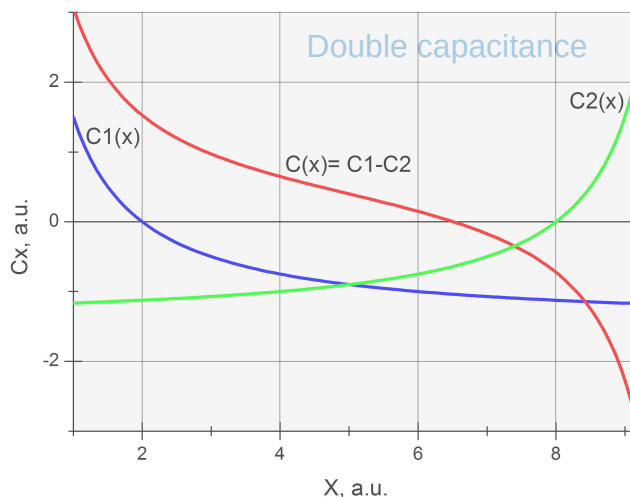
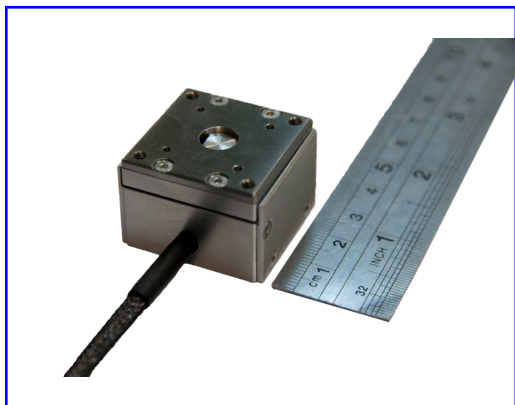


Range XYZ Open loop:	60x60x20 μm
Range XYZ Close loop:	50x50x15 μm
Close loop sensors:	Doubled capacitance
Max scan speed (OL) Lines/sec:	500
Max scan speed (CL) Lines/sec:	10
XY resonant frequency [Hz]:	500
Z resonant frequency [kHz]:	50
Sensors Speed:	20 KHz – 1 kHz
Sensors resolution:	5 nm [20 kHz] – 0,5 nm [1kHz]
Max. Load:	1 Kg
SPM applications	

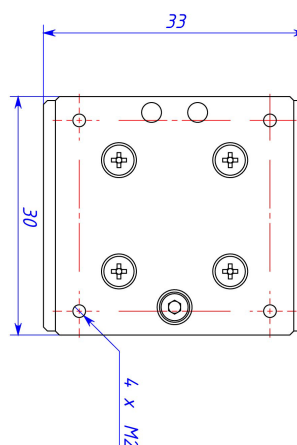
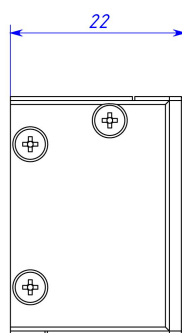
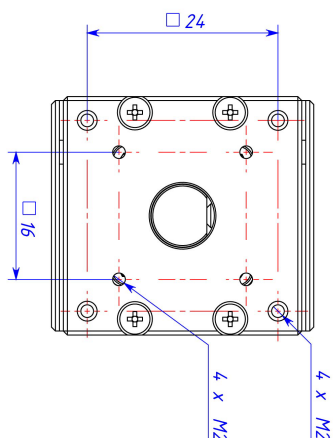


RATIS 1X piezo stage

- Open Loop Mode.
- Close Loop Mode.
- Sensors D. Capacitors.
- Compact Size, single Axe

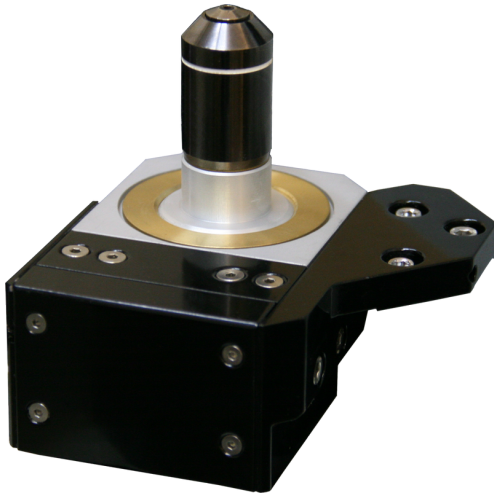
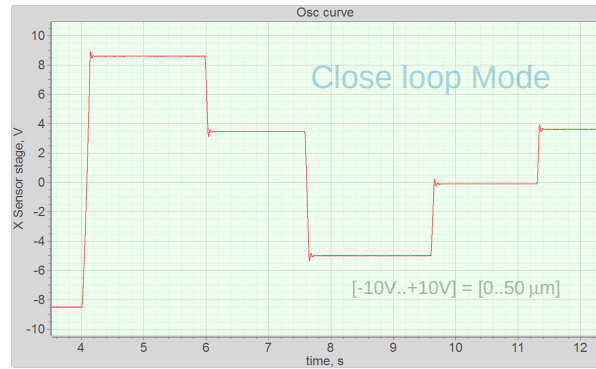


Range Z Open loop:	120 μm
Range Z Close loop:	100 μm
Close loop sensors:	Doubled capacitance
Max scan speed (OL) Line s/sec:	500
Max scan speed (CL) Lines/sec:	10
Z resonant frequency [kHz]:	1
Sensors Speed:	20 kHz – 1 kHz
Sensors resolution:	5 nm [20 kHz] – 0,5 nm [1kHz]
Max. Load:	1 Kg
Wide application range	

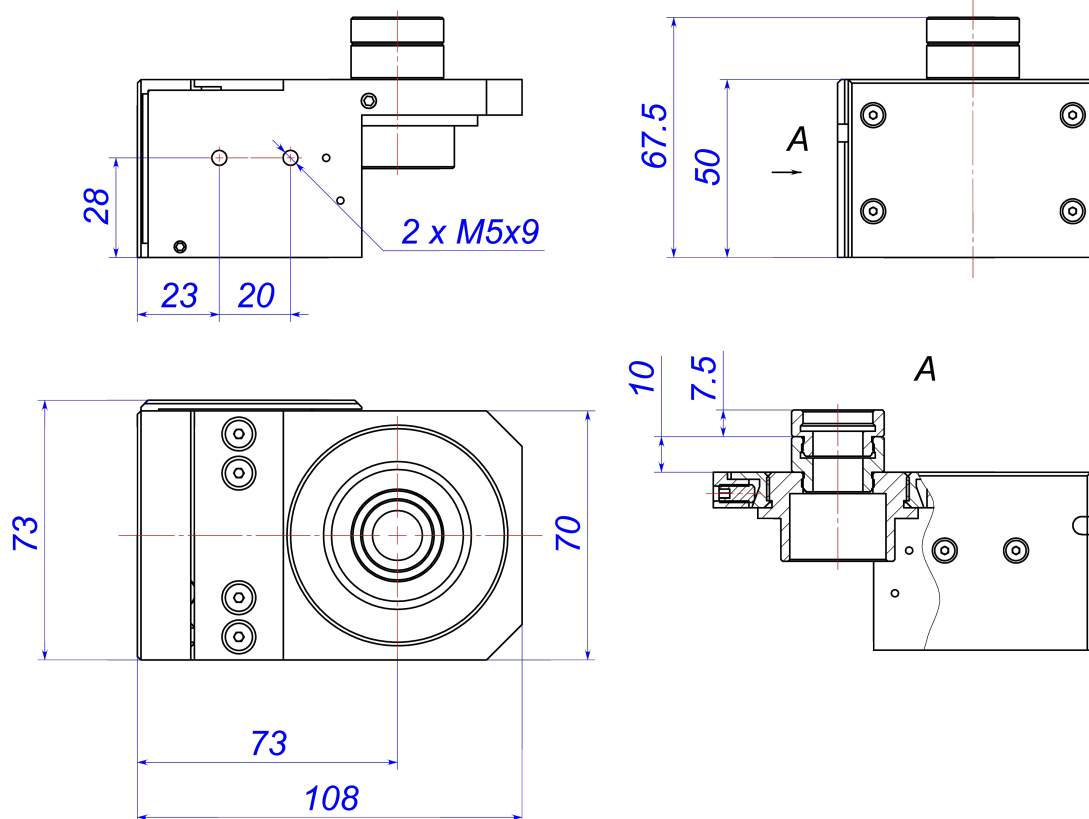


Vectus Z stage

- Open Loop Mode.
- Close Loop Mode.
- Sensors D. Capacitors.
- Precise focus adjustment



Range Z Open loop:	120 μm
Range Z Close loop:	100 μm
Close loop sensors:	Doubled capacitance
Max scan speed (OL) Lines/sec:	100
Max scan speed (CL) Lines/sec:	3
Z resonant frequency [kHz]:	300
Sensors Speed:	20 kHz – 1 kHz
Sensors resolution:	5 nm [20 kHz] – 0,5 nm [1kHz]
Max. Load:	1 Kg
Optical application	

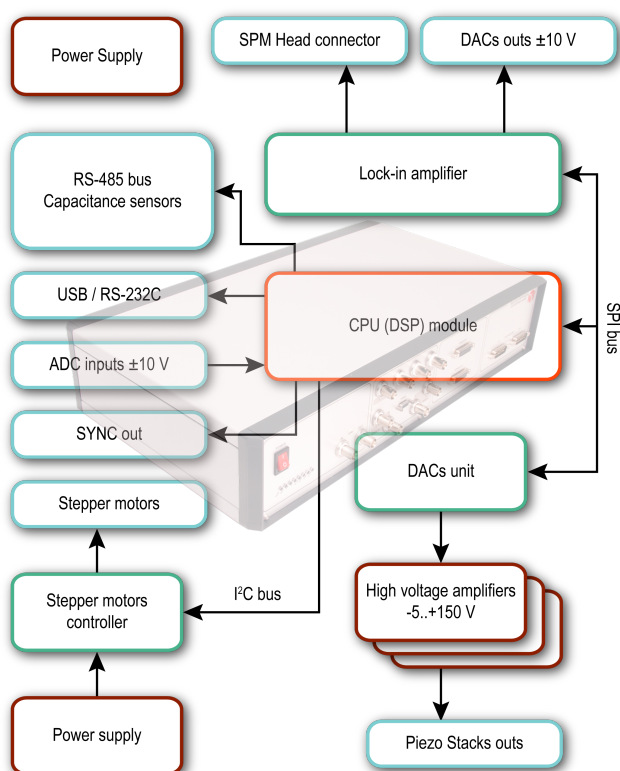


EG series Nano Positioning Scanning probe systems Controllers

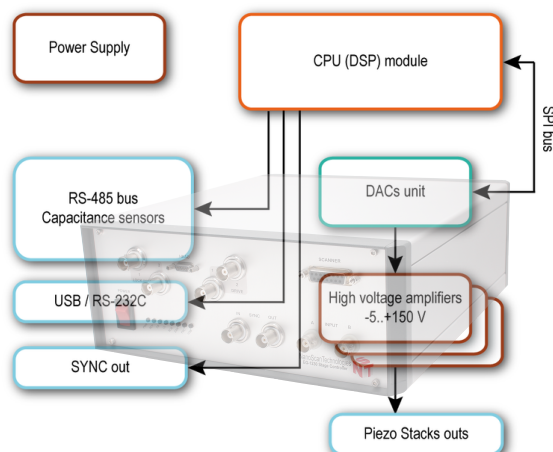
- Digital controllers.
- Piezo stage control.
- Scanning probe system controls.
- Analog/Digital Inputs/Outputs.



EG3061 Data



EG1061 Data



Model

CPU, Double core

PC Interface

High - voltage outputs

Voltage range

Noise

Number of channels max

DACs resolution

Stepper motors control unit

Number of channels

Power supply

Microstepping mode support

Lock-in amplifier

Number of channels

Preamplifier gain

Input voltage range

High speed (100MHz) ADCs resolution

Signals Band

Frequency range of main oscillator

Output voltage amplitude

Main oscillator stability

Extra DAC/ADC module

Number of ADC channels

Voltage range

ADC resolution

Number of DAC channels

Voltage range

DAC resolution

EG3061

300 Mhz; 32 bit; float. point. RISC

USB 3.0

-10..150 V

< 5 ppm.

9

18 bit

4

24V, 3A

1/16 step

2

1-100

± 10 V

16 bit

0-5 MHz

10 Hz – 5 MHz

10 mV-10 V

< 5 ppm

2

± 10 V

18 bit

2

± 10 V

18 bit

EG1061

300 Mhz; 32 bit; float. point. RISC

USB 3.0

-10..150 V

< 5 ppm.

3

18 bit

no

no

no

no

no

no

no

no

no

no

no

Optional

2

± 10 V

18 bit

2

± 10 V

18 bit