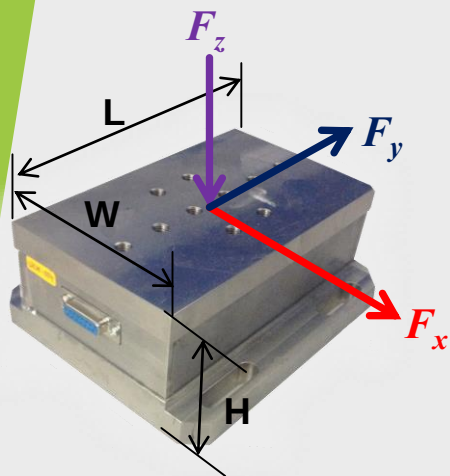


Specifications



Specifications

Measuring range	kN	$F_x = -2 \dots 2$ $F_y = -2 \dots 2$ $F_z = -3 \dots 3$
Sensitivity (mV/N)	mV/ N	$F_x = 9M$ $F_y = 6M$ $F_z = 6M$
Natural frequency	Hz	$f_n(x) = 1280$ $f_n(y) = 921.6$ $f_n(z) = 1536$
Operating temperature	°C	0 ... 80
L x W x H	cm	17 x 10 x 6.8
Weight	Kg	5.75
Degree of protection		IP65 or IP67
Connection		Waterproof sealed D-sub
Crosstalk	%	3 - 14

Neo-MoMac

**Cutting Force Measurement
&
Tool Wear Monitoring**

Milling Process



Overview

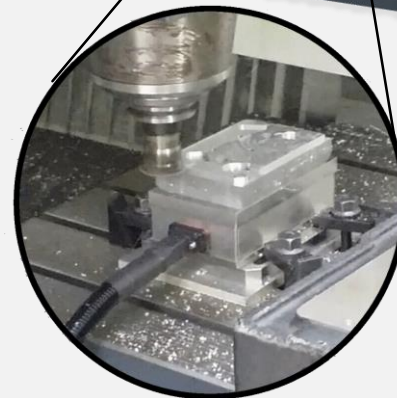
Neo-MoMac is a real time cutting tool wear monitoring system based on cutting force signals in milling process to improve final product quality and reduce the costly maintenance and machine downtime.

Neo-MoMac can also be used as a cutting force measurement system which uses a strain gauge-based dynamometer.

Neo-MoMac consists of a low cost dynamometer, a portable data acquisition device and a smart graphical user interface.

Data Acquisition

- Low-cost data acquisition device.
- Lightweight and small size.
- Portable.
- Easy connection.
- High reliability.



Milling Process

Software

- In house developed software for real time tool wear prediction and monitoring.
- Utilize signal analysis algorithm of I-kaz™ method.
- Equipped with user friendly GUI.



Neo-MoMac Software



Data Acquisition

Dynamometer

- Strain gauge-based dynamometer.
- Low-cost dynamometer.
- All stainless steel construction.
- Rugged design.
- 3-axis cutting force measurement.
- Dry and flooded milling.