FMD LINEAR STAGE UNIT

Konrad Kosuge 329150



1 Project Data

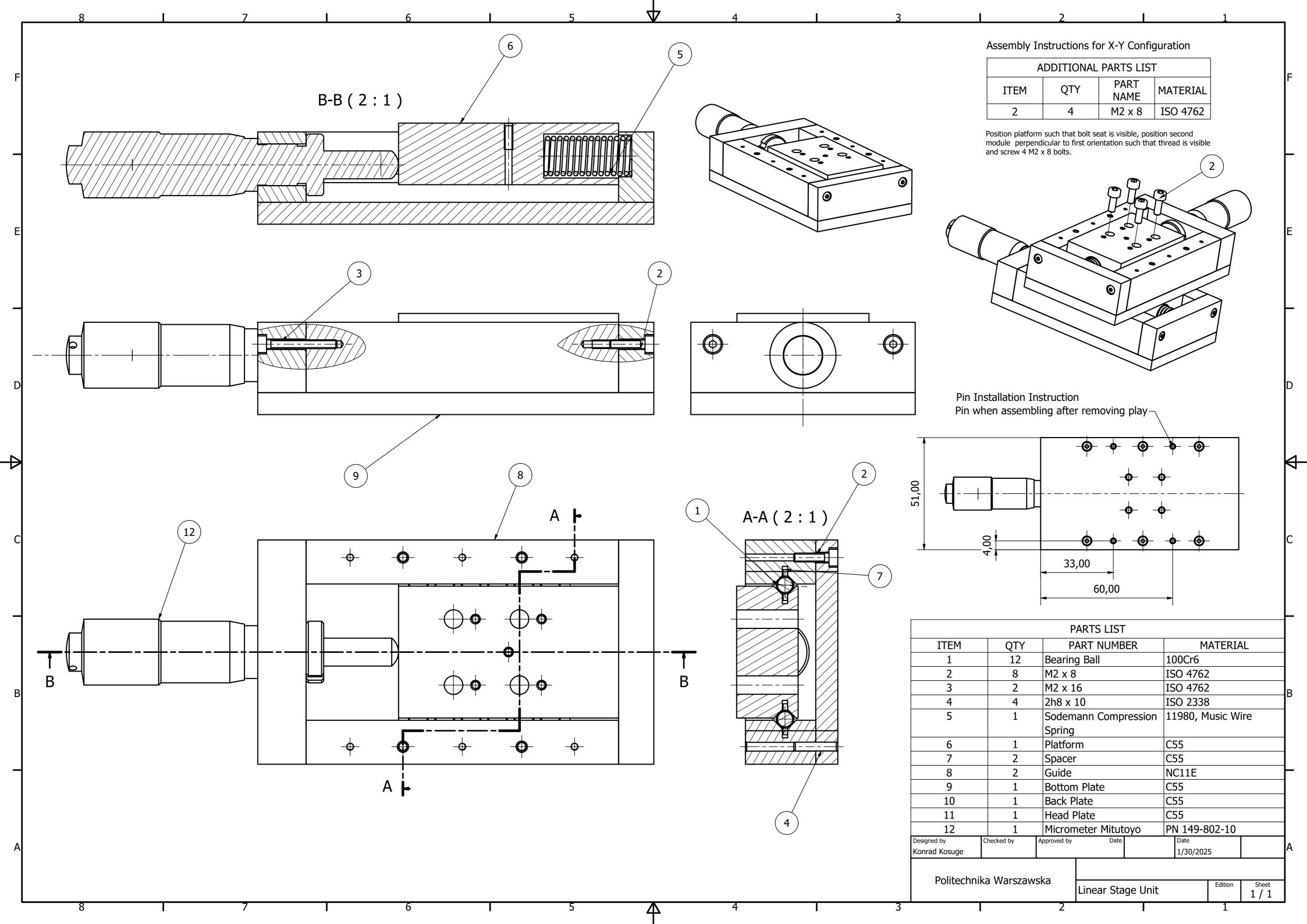
2 Spacer

3 Forces

Loads	F[N]	F1[N]	F2[N]	Fz[N]	Fy[N]	Fw[N]
	45	5	10	45	45	22.5
Friction	μ	T1[N]	T2[N]	Tw[N]	Tz[N]	Ty[N]
	0.01	0.318	0.3182	0.636	0.636	0.6364
$Friction_tot$	$T_{-}tot(z)[N]$	$T_{-}tot(y)[N]$	$T_{-}tot(y,z)[N]$			
	1.27	1.27	2.54			
$Ball_load$	F(max)[N]	Fj(max)[N]				
	47.73	7.95				
S(Hmax)	$1722 \mathrm{Mpa}$		NC11E material			

4 Spring

Spring	d[mm]	$\mathrm{De}[\mathrm{mm}]$	Di[mm]	L0[mm]	$\operatorname{Ln}[\operatorname{mm}]$	$\operatorname{Sn}[\operatorname{mm}]$	$\operatorname{Fn}[N]$	R[n/mm]
	1	9	7	40.5	19.9	20.6	33.15	1.59
Preload	mm	Fp[N]	Lnf[N]	L[mm]	$F_min[N]$	Fp-Fmin		
	5.5	8.745	33.15	15	8.18	0.565		
Spring	c	k	λ	ν				
	8	1.171875	5.0625	37.03704				





Micrometer Head, Carbide Tipped Spindle

Item number: 149-802-10

Images



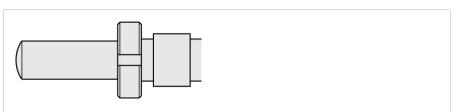
Description

A small, standard, non-digital MA small, standard, non-digital Mitutoyo micrometer head with M9.5 clamp-nut stem and spherically radiused tungsten-carbide spindle tip.

Features

Digital/Analog:	Analog
Delivered:	In a paper box with spanner 200168
Inch-Metric:	Metric
Range:	0 - 15 mm
Graduation:	0,01mm
Max. Permissible Error J MPE:	±2 μm
Spindle end:	Spherical (SR4)
Spindle pitch:	0.5 mm
Stem Ø:	9.5 mm
Stem:	w/ clamp nut
Fixture thickness for clamp nut:	11.5 mm
Measuring face:	Carbide tipped (>90 HRA)
Mass:	60 g

Dimensions



Accessories

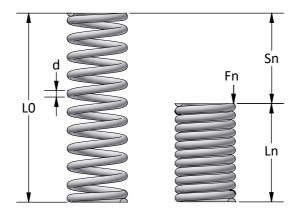
Optional accessories:

SODEMANNINDUSTRIFJEDRE A/S

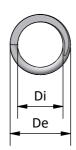












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Product Attribute:	Value
Spring type	Comp. spring
Material	Music wire
d - Wire diameter (mm)	1,00
De - External diameter (mm)	9,00
Di - Internal diameter (mm)	7,00
LO - Unloaded length (mm)	40,50
Ln - Max. loaded length (mm)	19,90
Sn - Maximum travel (mm)	20,60
Fn - Maximum load at Ln (N)	33,15
R - Spring constant (N/mm)	1,59
Ends	Closed, ground
Weight (g)	2,22
HS code	7320208100
Origin	DK, DE, IT, UK, US

This is a standard item. All dimensions are indicative.

Created: 04/02/2025

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