

HG 12A

TECHNICAL DATA

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	33 N
F_{P mot}	Peak force:	102 N
I_P	Peak current:	2 A
	Temperature monitoring:	PTC
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	5 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	1.44 kg
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	0.72 kg
m_{carr}	Mass of the carriage with motor:	1.45 kg

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	150 Nm
M_{Y stat}	Max. static moment about the Y-axis:	40 Nm
M_{Z stat}	Max. static moment about the Z-axis:	150 Nm
F_{X stat}	Max. static force in the Y-axis:	150 N
F_{Z stat}	Max. static force in the Z-axis:	300 N

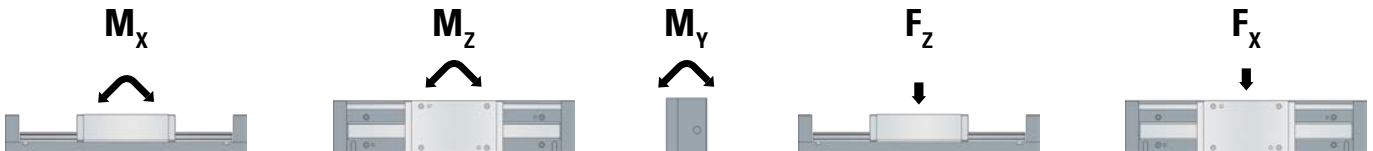
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	20 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	8 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	20 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	100 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	150 N

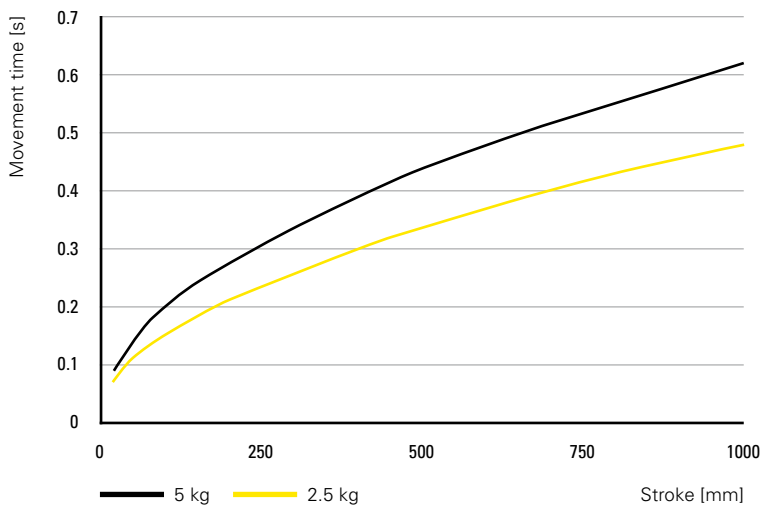
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI
Balluff (Rockwell, Mitsubishi)	TTL

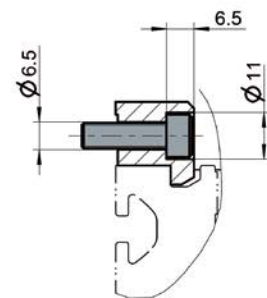
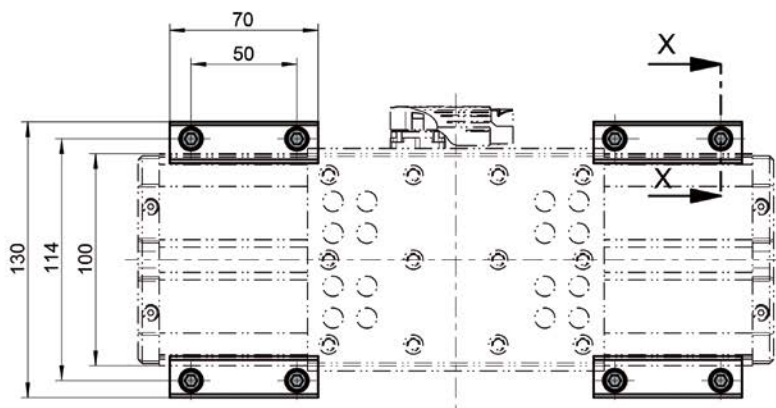
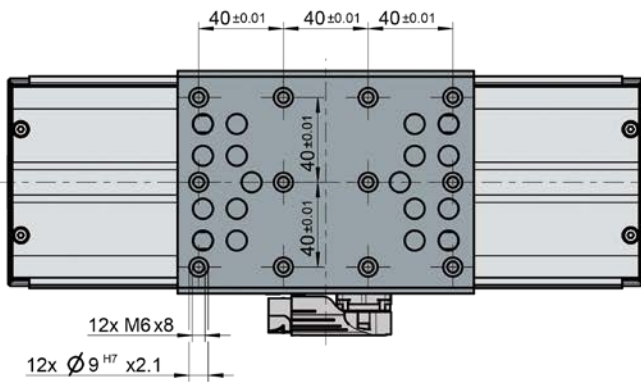
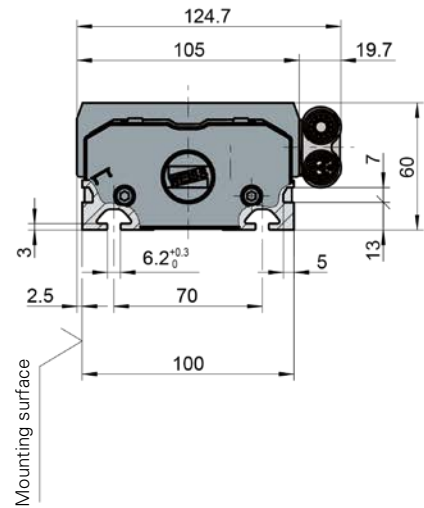
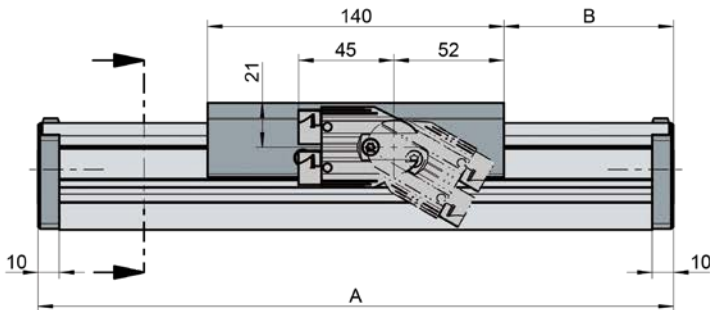
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



X-X (1:1)

Standardhöhe	A	B
100	300	80
200	400	130
300	500	180
400	600	230
500	700	280
600	800	330
700	900	380
800	1000	430
900	1100	480
1000	1200	530

HG 25A

TECHNICAL DATA

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	65 N
F_{P mot}	Peak force:	180 N
I_P	Peak current:	6 A
	Temperature monitoring:	PTC
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	10 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	2.24 kg
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	1 kg
m_{carr}	Mass of the carriage with motor:	2.05 kg

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	200 Nm
M_{Y stat}	Max. static moment about the Y-axis:	100 Nm
M_{Z stat}	Max. static moment about the Z-axis:	200 Nm
F_{X stat}	Max. static force in the Y-axis:	250 N
F_{Z stat}	Max. static force in the Z-axis:	500 N

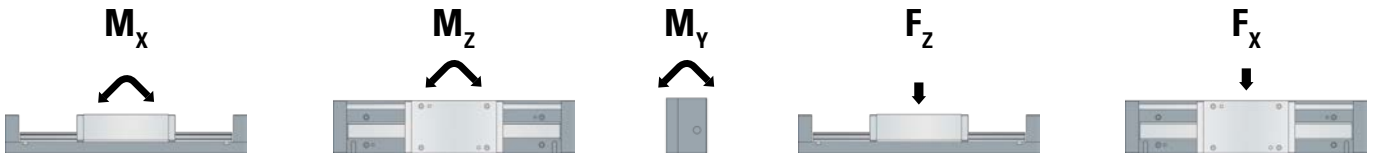
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	30 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	15 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	30 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	150 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	200 N

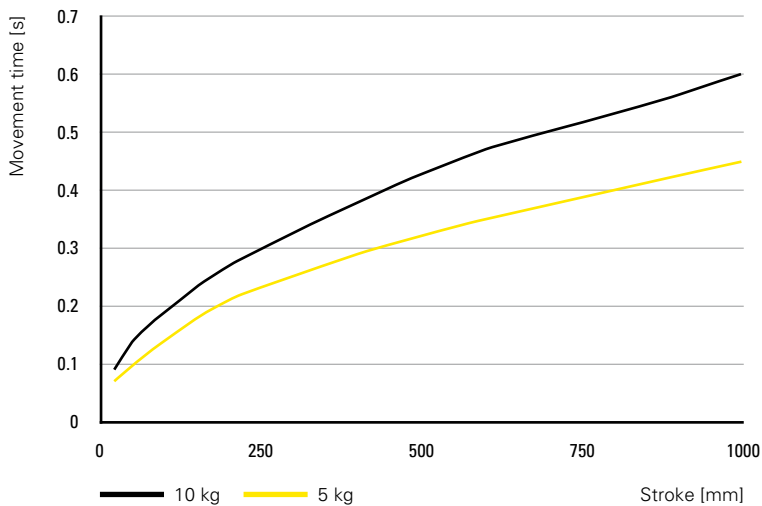
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI
Balluff (Rockwell, Mitsubishi)	TTL

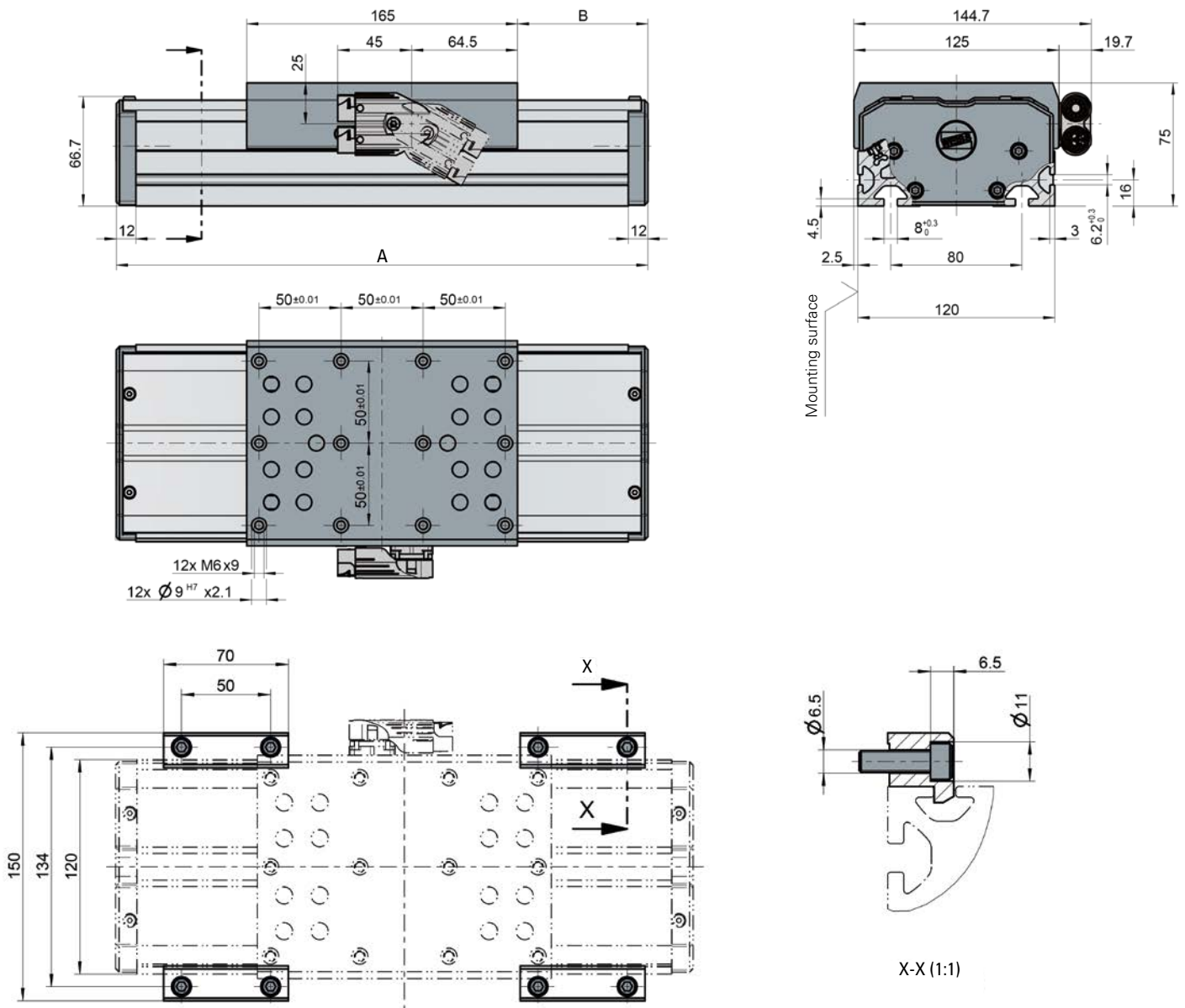
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



Standardhöhe	A	B
100	324	79,5
200	424	129,5
300	524	179,5
400	624	229,5
500	724	279,5
600	824	329,5
700	924	379,5
800	1024	429,5
900	1124	479,5
1000	1224	529,5

HN 50

TECHNISCHE DATEN

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	65 N
F_{P mot}	Peak force:	180 N
I_P	Peak current:	6 A
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	15 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	2.51 kg (Alu)
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	0.83 kg (Alu)
m_{carr}	Mass of the carriage with motor:	2.2 kg (Alu)

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	200 Nm
M_{Y stat}	Max. static moment about the Y-axis:	50 Nm
M_{Z stat}	Max. static moment about the Z-axis:	200 Nm
F_{X stat}	Max. static force in the Y-axis:	250 N
F_{Z stat}	Max. static force in the Z-axis:	500 N

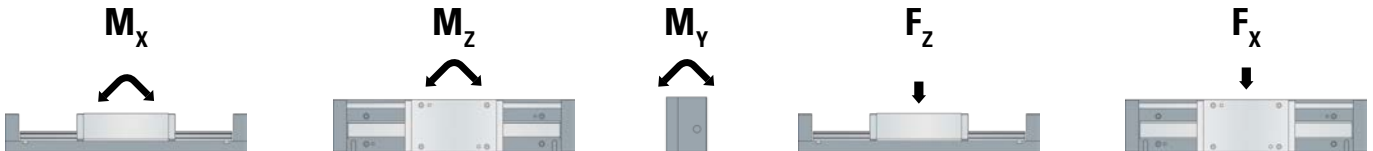
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	20 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	10 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	20 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	100 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	150 N

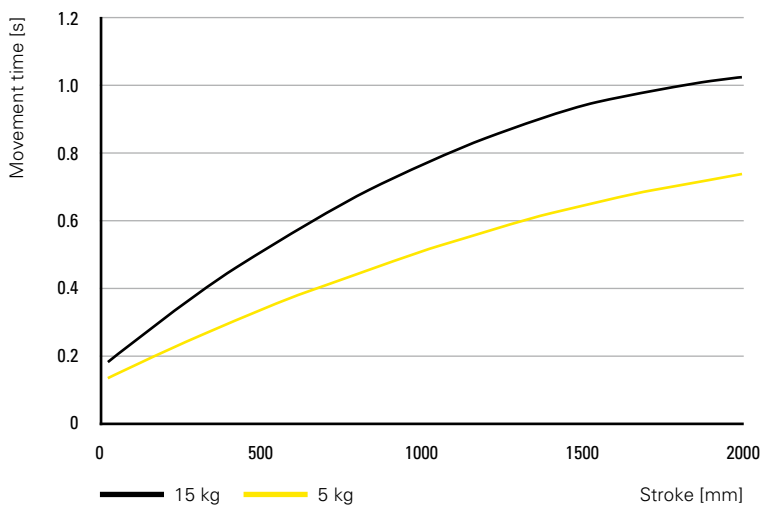
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI

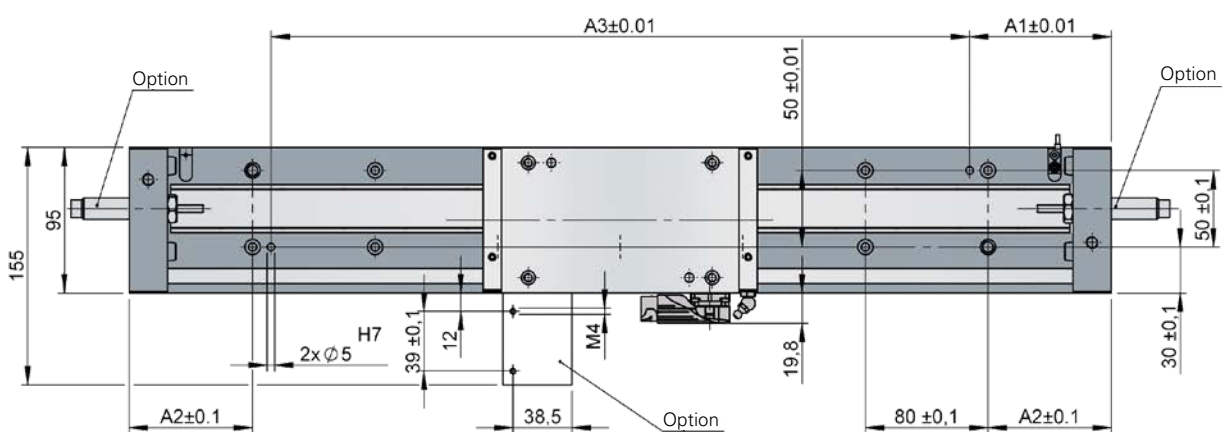
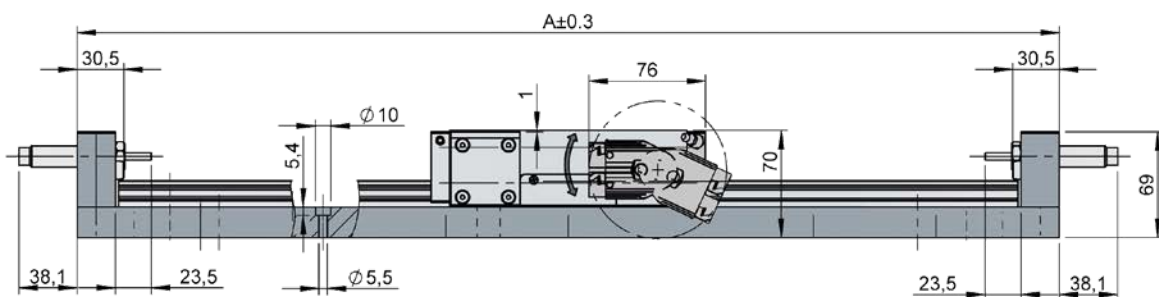
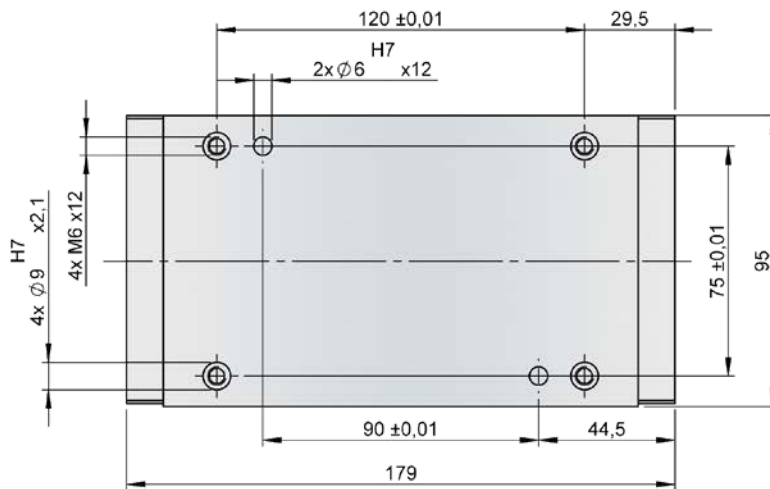
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



Standard strokes (Examples)	A	A1	A2	A3
300	730	100	125	530
500	930	115	65	700
1000	1430	115	75	1200

Intermediate strokes available in 100 mm steps on request

HN 100

TECHNICAL DATA

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	150 N
F_{P mot}	Peak force:	380 N
I_P	Peak current:	9.5 A
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm; > 1000 mm auf Anfrage
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	25 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	5.59 kg (Alu)
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	1.61 kg (Alu)
m_{carr}	Mass of the carriage with motor:	4.7 kg (Alu)

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	350 Nm
M_{Y stat}	Max. static moment about the Y-axis:	100 Nm
M_{Z stat}	Max. static moment about the Z-axis:	350 Nm
F_{X stat}	Max. static force in the Y-axis:	500 N
F_{Z stat}	Max. static force in the Z-axis:	750 N

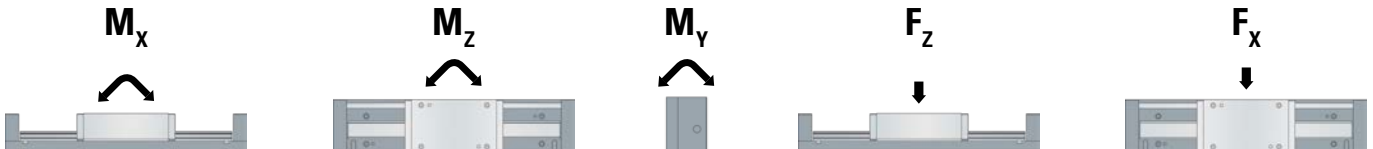
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	40 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	15 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	40 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	150 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	150 N

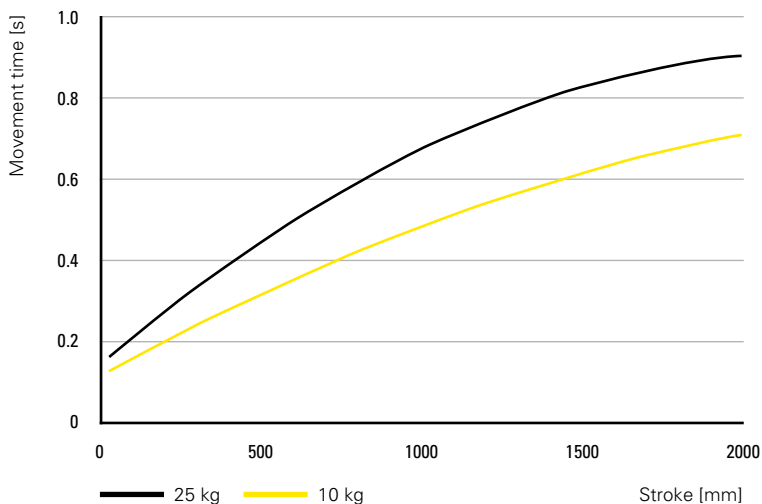
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI

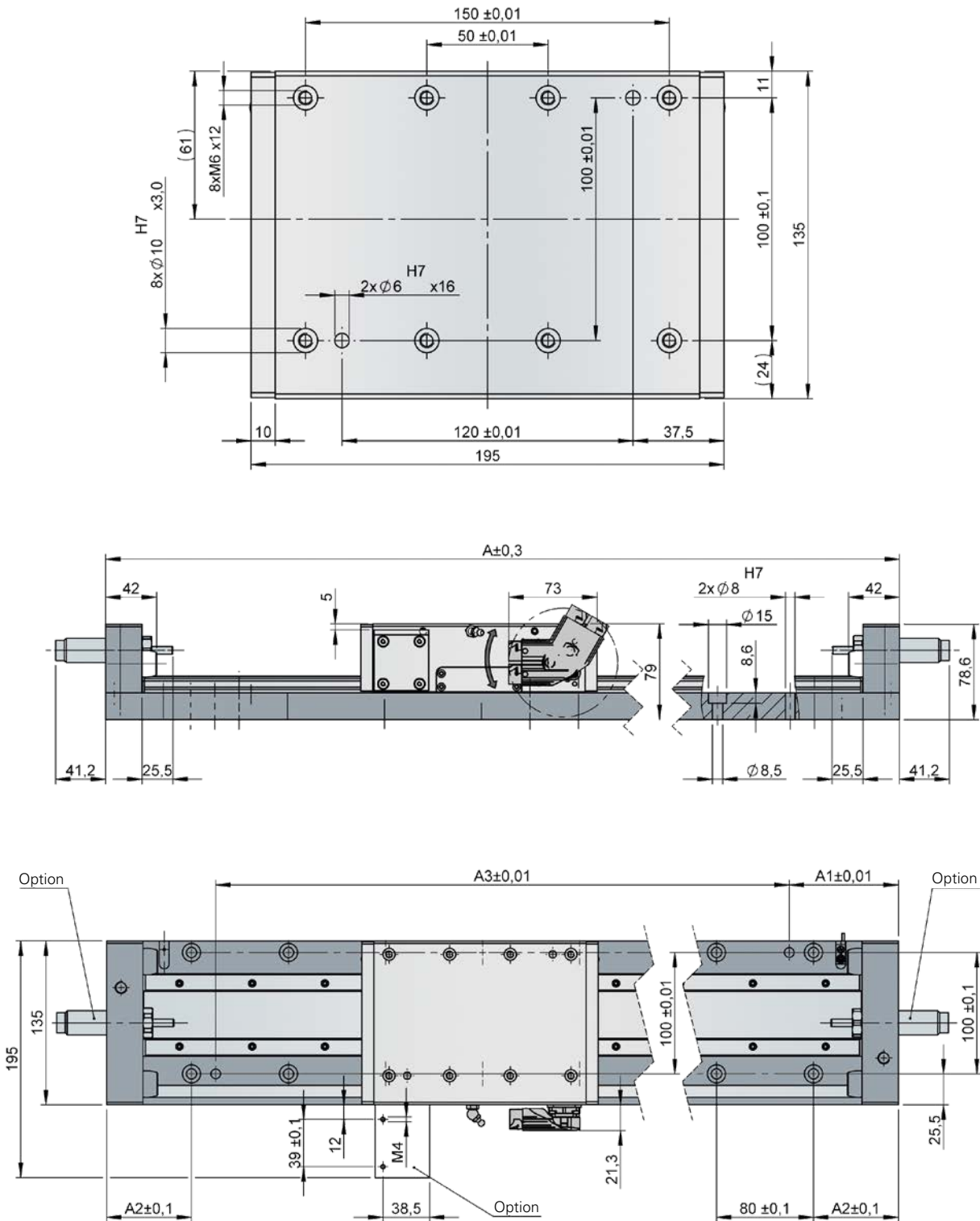
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



Standard strokes (Examples)	A	A1	A2	A3
500	780	90	70	600
1000	1280	140	80	1000

Strokes larger than 1000 mm and intermediate strokes in 100 mm increments available on request

HN 200

TECHNICAL DATA

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	250 N
F_{P mot}	Peak force:	700 N
I_P	Peak current:	11.2 A
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm; > 1000 mm auf Anfrage
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	50 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	9.59 kg (Alu)
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	2.22 kg (Alu)
m_{carr}	Mass of the carriage with motor:	8.1 kg (Alu)

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	500 Nm
M_{Y stat}	Max. static moment about the Y-axis:	200 Nm
M_{Z stat}	Max. static moment about the Z-axis:	500 Nm
F_{X stat}	Max. static force in the Y-axis:	750 N
F_{Z stat}	Max. static force in the Z-axis:	1000 N

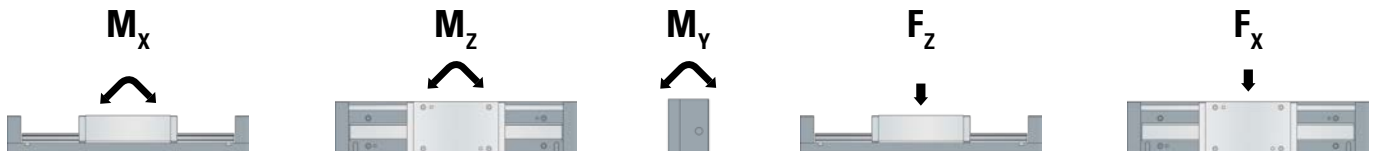
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	80 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	40 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	80 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	250 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	500 N

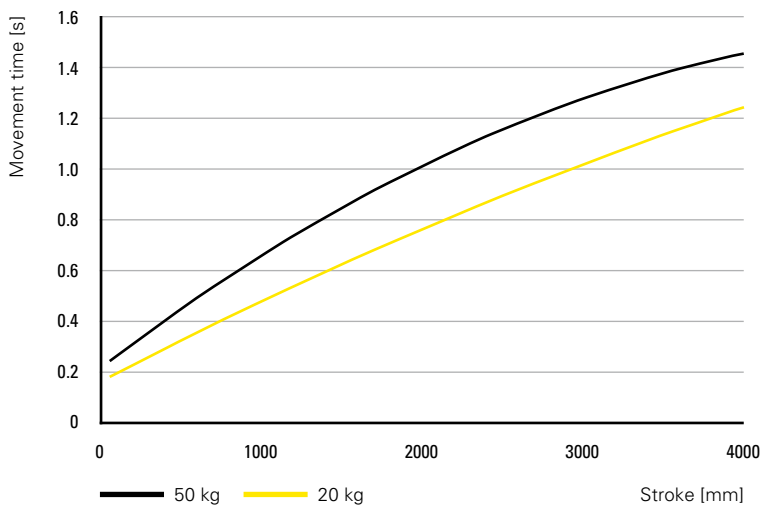
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI

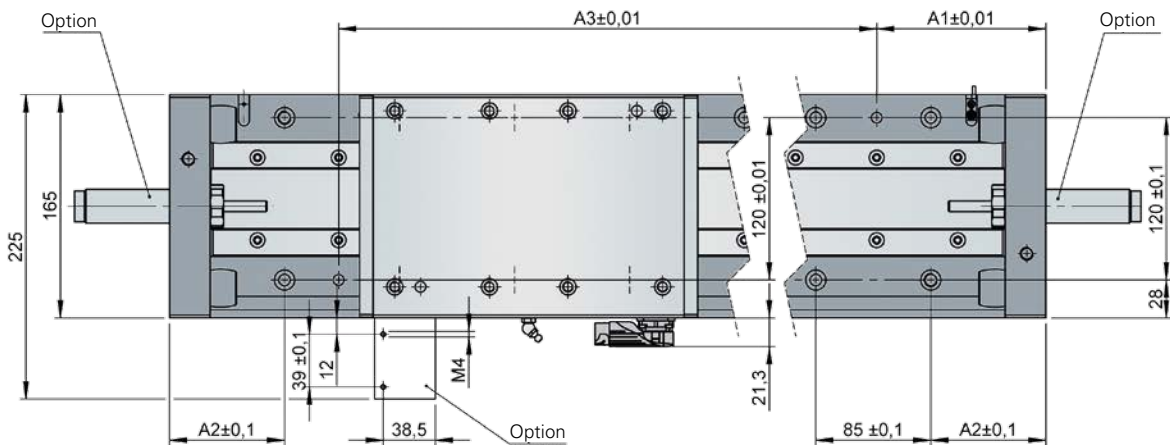
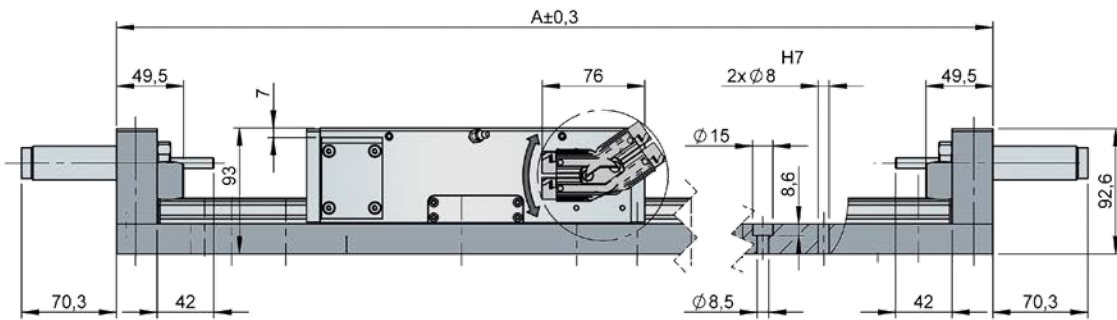
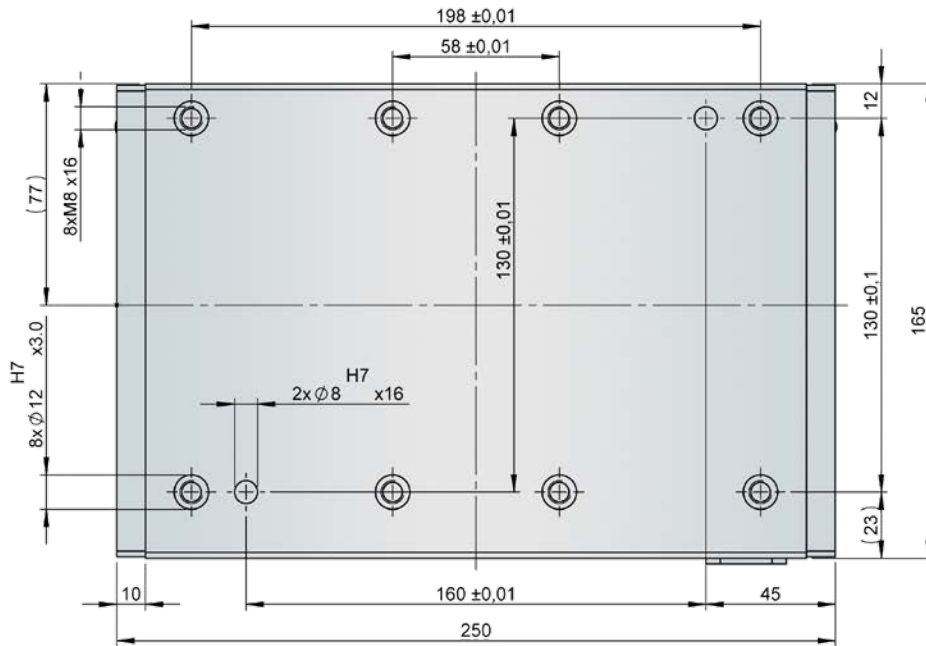
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



Standard strokes (Examples)	A	A1	A2	A3
500	850	125	85	600
1000	1350	125	80	1100

Strokes larger than 1000 mm and intermediate strokes in 100 mm increments available on request

HN 400

TECHNICAL DATA

U	Voltage range:	200-600 V _{AC rms}
a_{Max}	Max. acceleration:	40 m/s ²
v_{Max}	Max. speed:	4 m/s
F_{N mot}	Nominal force:	500 N
F_{P mot}	Peak force:	1400 N
I_P	Peak current:	18 A
s_{Max}	Max. stroke:	bis 1000 mm in 100 mm; > 1000 mm auf Anfrage
	Repeat accuracy:	0.005 mm
m_{rec}	Max. recommended load:	100 kg
m_{gui 0}	Mass of the guide rail with 0 mm stroke:	15.11 kg (Alu)
m_{gui 100}	Mass of the guide rail per 100 mm stroke:	2.9 kg (Alu)
m_{carr}	Mass of the carriage with motor:	13.4 kg (Alu)

LOAD DATA (static)

M_{X stat}	Max. static moment about the X-axis:	1000 Nm
M_{Y stat}	Max. static moment about the Y-axis:	500 Nm
M_{Z stat}	Max. static moment about the Z-axis:	1000 Nm
F_{X stat}	Max. static force in the Y-axis:	1000 N
F_{Z stat}	Max. static force in the Z-axis:	1500 N

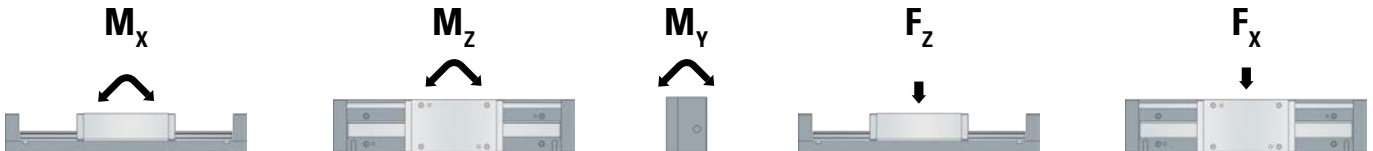
LOAD DATA (dynamic)

M_{X dyn}	Max. dynamic moment about the X-axis:	140 Nm
M_{Y dyn}	Max. dynamic moment about the Y-axis:	60 Nm
M_{Z dyn}	Max. dynamic moment about the Z-axis:	140 Nm
F_{X dyn}	Max. dynamic force in the X-axis:	500 N
F_{Z dyn}	Max. dynamic force in the Z-axis:	1000 N

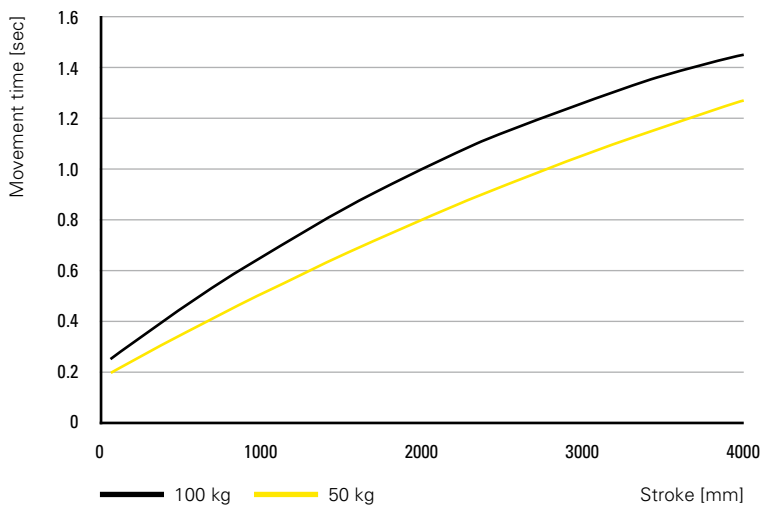
ENCODER

Balluff	sin/cos
Balluff	BISS
Balluff	SSI

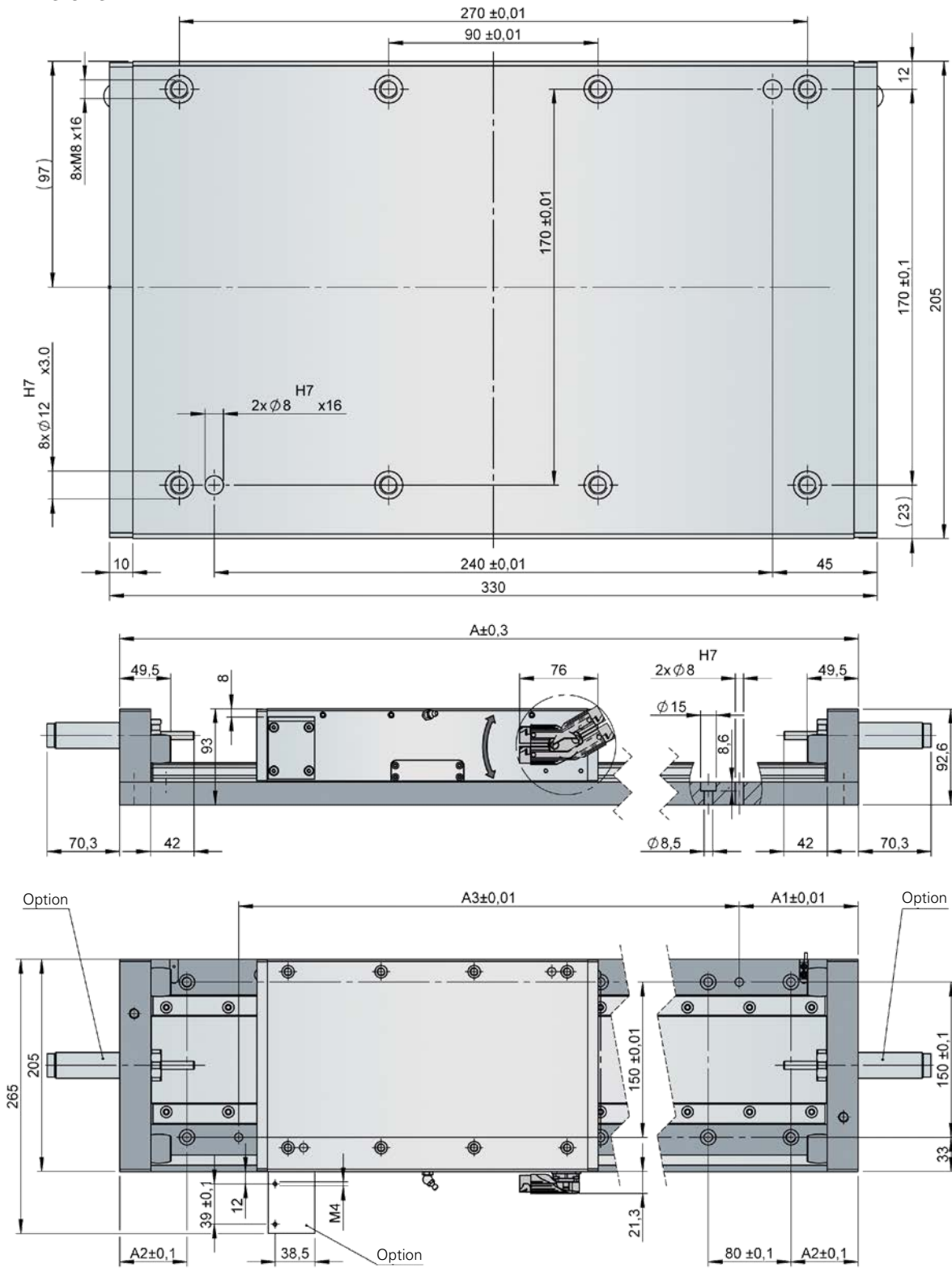
LOAD DATA



TIMING DIAGRAM



DIMENSIONS



Standard strokes (Examples)	A	A1	A2	A3
500	930	115	65	700
1000	1430	115	75	1200

Strokes larger than 1000 mm and intermediate strokes in 100 mm increments available on request

SH 75

ROTATING UNITS | SH 75 LIFTING-ROTATING UNIT

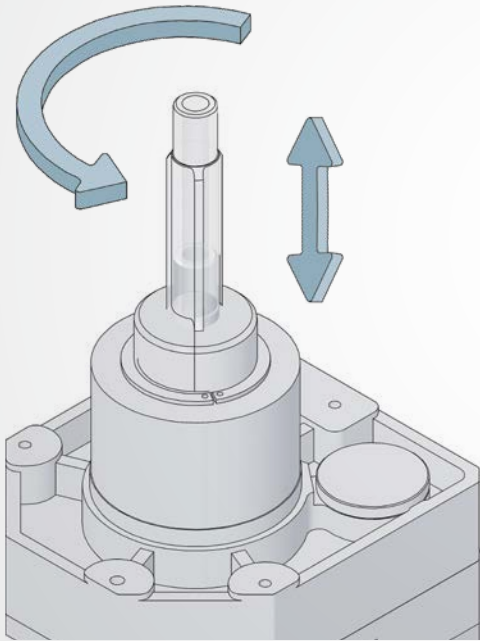


SH LIFTING- ROTATING UNIT

FREELY AND INTUITIVELY PROGRAMMABLE

W.A.S. 2 – WEISS Application Software: secure and fast commissioning with free-of-charge user software.





Handling unit with independent servo axes for lifting and rotary movements

The resounding success enjoyed by the SH 75 is largely thanks to its versatile and flexible deployment options. The lifting and rotary axes are user-programmable independent of one another – making the axis combination suitable for a wide range of applications, including varying tasks. A high power density, extremely compact dimensions, as well as fast and convenient start-up using the WEISS Application Software are further plus points. The new integrated servo motors have catapulted the unit into new categories of dynamics and precision.

ADVANTAGES

- Compact design with high power density
- Excellent dynamics thanks to use of the latest servo drives
- Flexible deployment options throughout varying tasks/processes
- User programmability of the two independent lifting and rotary axes
- WEISS Application Software (W.A.S. 2) for quick and easy start-up

GENERAL INFORMATION

- The installation location of the SH unit can be freely chosen
- Both the rotary movement and the linear movement are user-programmable
- The lifting-rotating unit can optionally be equipped with a brake
- A clamping set is available for fitting the customer's attachments