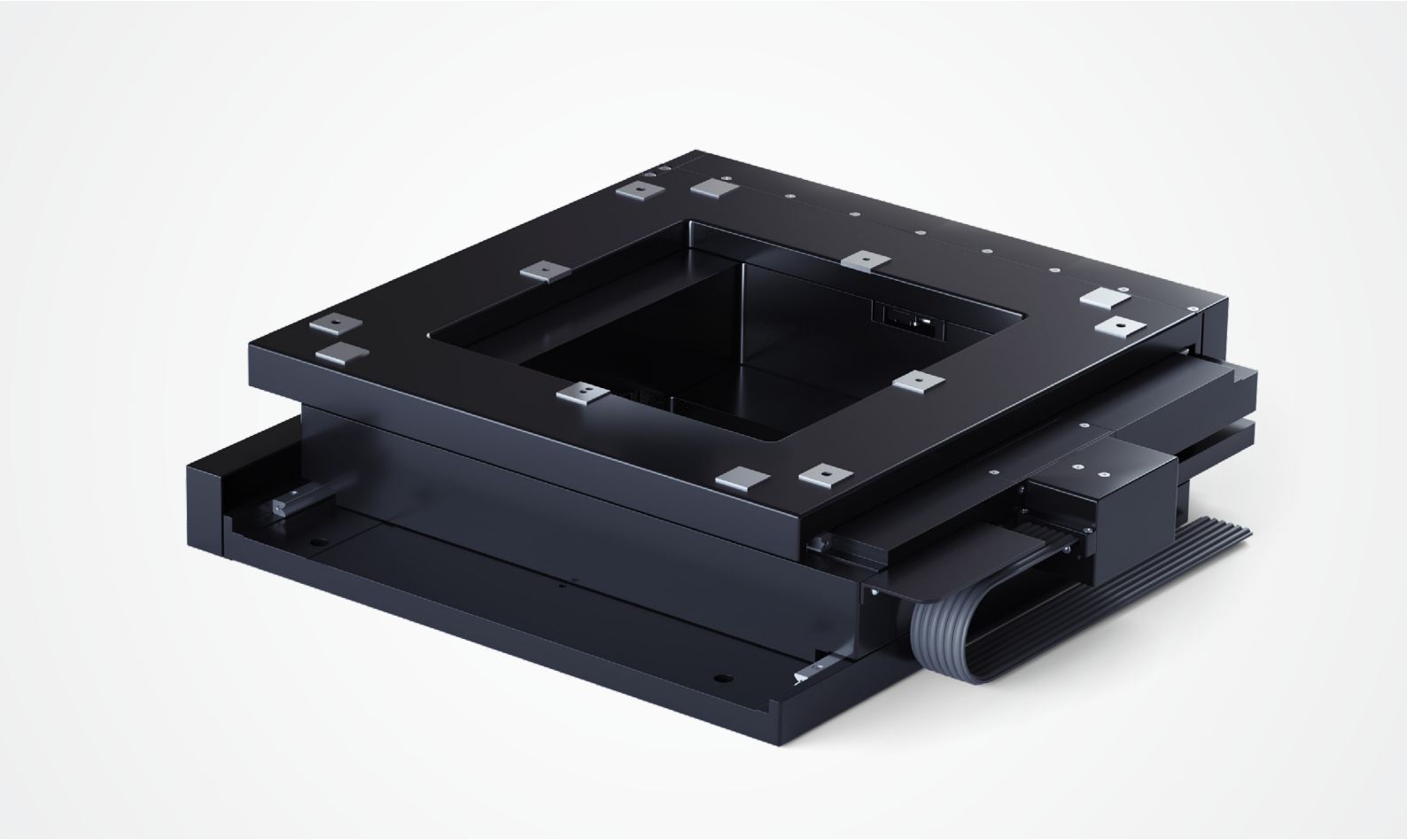
PRECISION-SYSTEMS

WEISS GMBH

Siemensstraße 17 74722 Buchen Telephone +49 (0)6281 5208-0 Telefax +49 (0)6281 5208-99
info@weiss-international.com www.weiss-international.com

MK

PRECISION SYSTEMS | MK CROSS TABLE



PRECISION CROSS TABLE MK: NEW DIMENSIONS OF ACCURACY AT WEISS

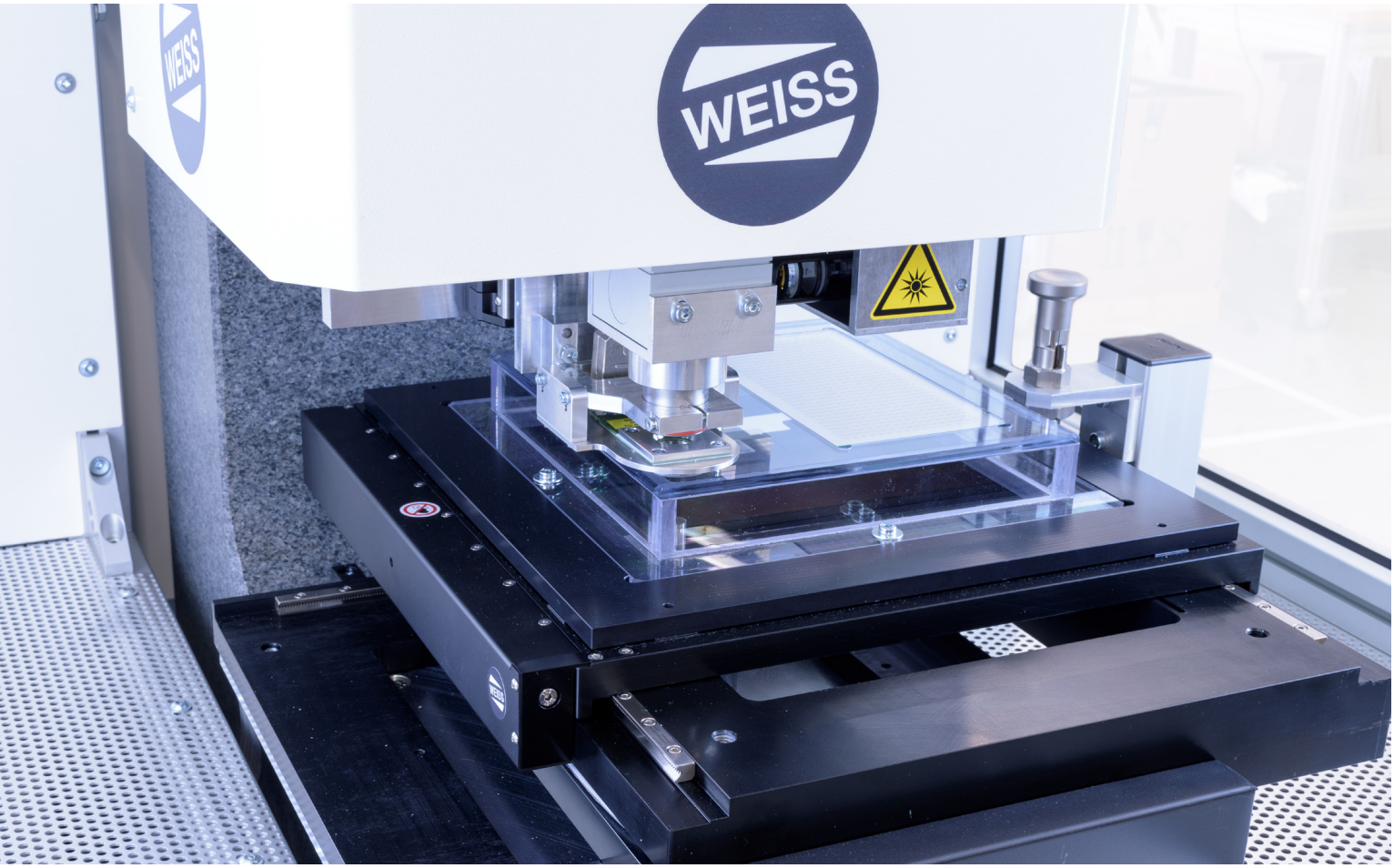
FREELY AND INTUITIVELY PROGRAMMABLE

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

W·A·S 2 WEISS APPLICATION SOFTWARE

DOCUMENTED PRECISION

Using laser interferometer or autocollimator all desired measurements can be carried out and logged.



WEISS is advancing with the MK cross table in new dimensions of accuracy and opens up new application horizons in the area of micro-assembly, micro-machining or measuring systems.

ADVANTAGES

- Not too much - not too little. The MK cross table can be adapted to the corresponding requirement, in terms of accuracy and performance
- The design of the linear motors excludes attraction forces on the precision rails
- Constant accuracy by optimal temperature management
- Open-frame construction for backlight applications
- Compact design with small external dimensions
- High dynamic due to direct drives
- Free programmability
- Optimal cabling by using a flat ribbon cable for both axes

APPLICATION AREAS

- Microassembly
- Laser processing
- Measuring systems
- Microdosing

OPTIONS

- Measuring Systems Absolute and Incremental
- Accuracy class AC1, others on request
- Inexpensive control concept with supply voltage between 24V and 80V (depending on the required dynamics)

MK1616

TECHNICAL DATA

s_X	Stroke X-axis:	160 mm
s_Y	Stroke Y-axis:	160 mm
	Mounting position:	horizontal
	External dimensions:	307 x 351 x 96 mm
	Max. transmitted light opening:	180 x 180 mm
	Running accuracy (side)*:	AC1: 2 µm
	Running accuracy (height)*:	AC1: 3 µm
	Pitch and yaw angle*:	AC1: 5 arcsec
	Repeatability:	1 µm
	Typical load:	1-3 kg
m_{rec}	Recommended max. loading:	10 kg

*Other accuracy classes on request.

ENGINE DATA

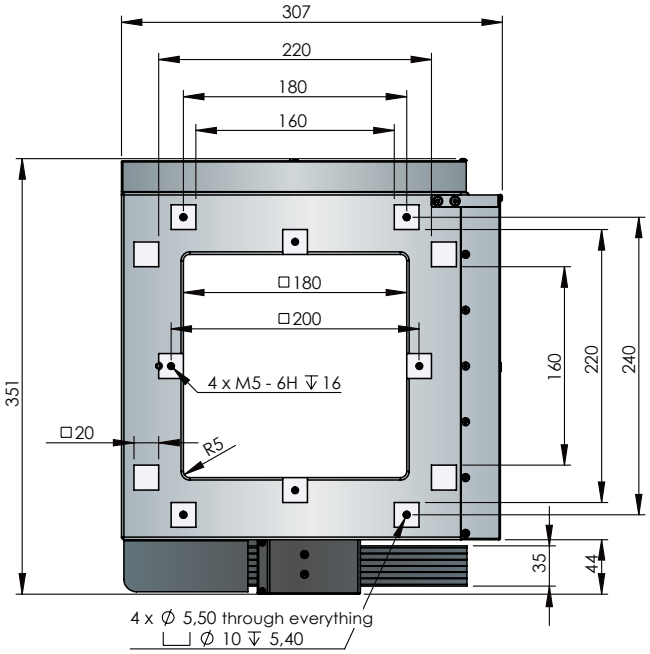
U	Voltage range:	24-80 $V_{AC\ effective}$
$F_{P\ mot}$	Peak force:	67 N
I_P	Peak electricity:	7,5 A

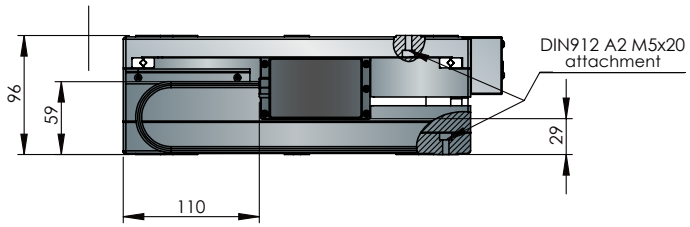
The listed accuracies are only achieved at constant temperature and without external load.

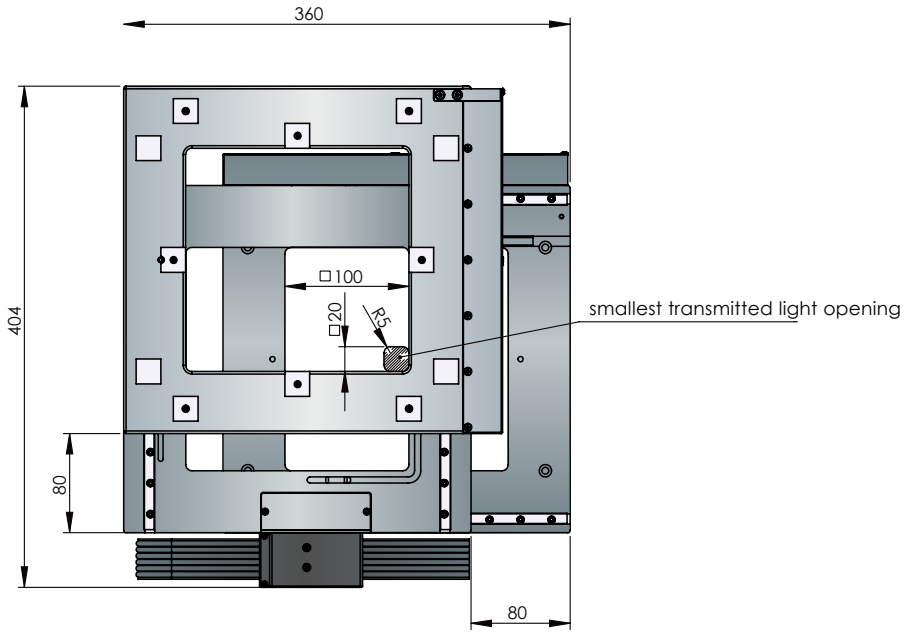
MEASURING SYSTEMS

Renishaw (incrementally)	sin/cos
Renishaw (incrementally)	TTL
Numerik (absolute)	SSI (on demand)

DIMENSIONS


307
220
180
160
□180
□200
4 x M5 - 6H ↧16
□20
R5
351
160
220
240
35
44
4 x ⌀ 5,50 through everything
⌴ ⌀ 10 ↧ 5,40


DIN912 A2 M5x20
attachment
96
59
29
110


360
□100
□20
R5
smallest transmitted light opening
404
80
80

MK2020

TECHNICAL DATA

s_X	Stroke X-axis:	215 mm
s_Y	Stroke Y-axis:	215 mm
	Mounting position:	horizontal
	External dimensions:	436 x 392 x 96 mm
	Max. transmitted light opening:	230x 230 mm
	Running accuracy (side)*:	AC1: 3 µm
	Running accuracy (height)*:	AC1: 4 µm
	Pitch and yaw angle*:	AC1: 5 arcsec
	Repeatability:	1 µm
	Typical load:	1-5 kg
m_{rec}	Recommended max. loading:	15 kg

*Other accuracy classes on request.

ENGINE DATA

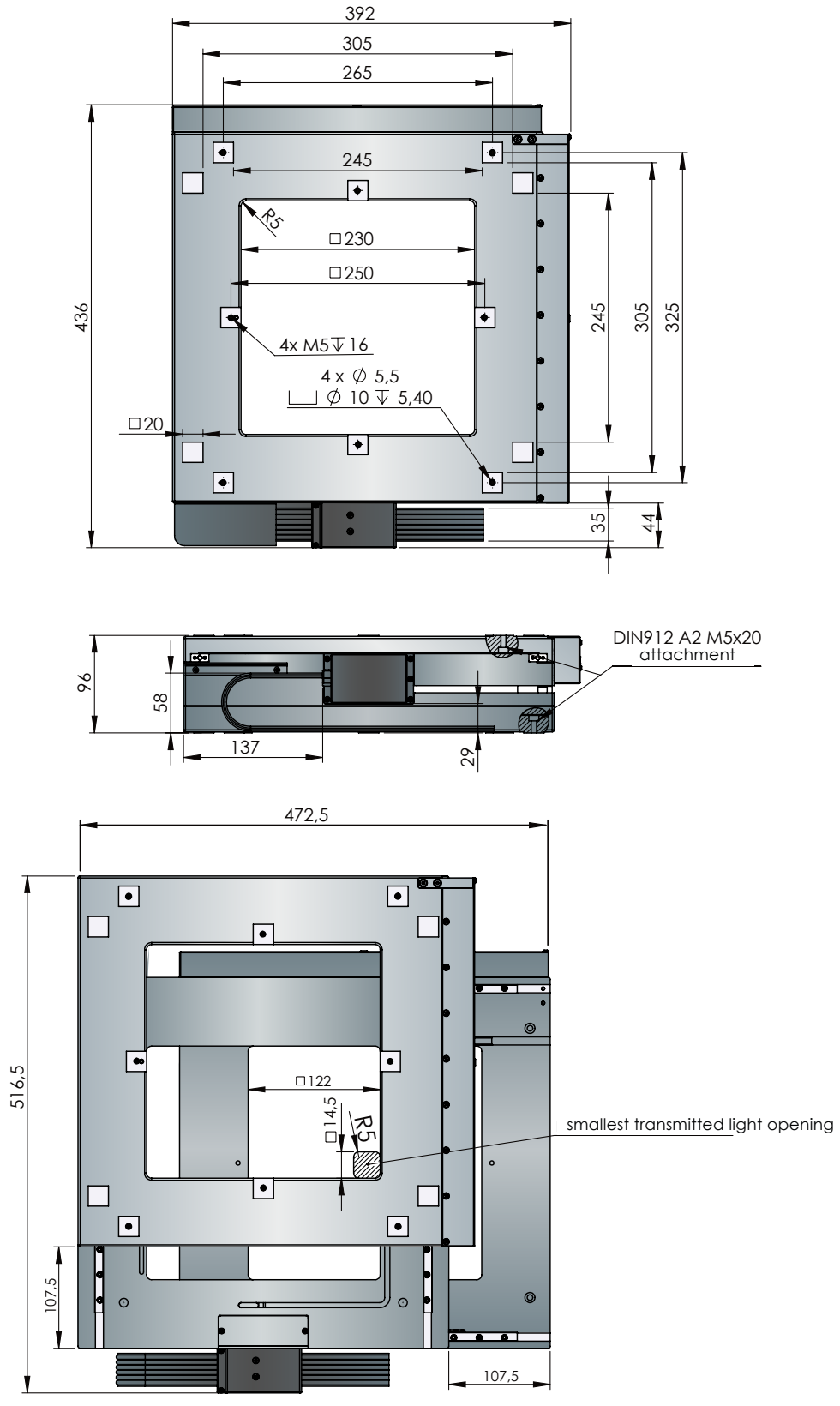
U	Voltage range:	24-80 $V_{AC\ effective}$
$F_{P\ mot}$	Peak force:	67 N
I_P	Peak electricity:	7,5 A

The listed accuracies are only achieved at constant temperature and without external load.

MEASURING SYSTEMS

Renishaw (incrementally)	sin/cos
Renishaw (incrementally)	TTL
Numerik (absolute)	SSI (on demand)

DIMENSIONS


392
305
265
245
R5
□230
□250
436
4x M5↧16
4 x ⌀ 5,5
⌴ ⌀ 10 ↧ 5,40
□20
245
305
325
35
44
96
58
137
29
DIN912 A2 M5x20
attachment
472,5
516,5
□122
□14,5
R5
smallest transmitted light opening
107,5
107,5

MK3030

TECHNICAL DATA

s_X	Stroke X-axis:	335 mm
s_Y	Stroke Y-axis:	335 mm
	Mounting position:	horizontal
	External dimensions:	606 x 562 x 146 mm
	Max. transmitted light opening:	320 x 320 mm
	Running accuracy (side)*:	AC1: 3 µm
	Running accuracy (height)*:	AC1: 6 µm
	Pitch and yaw angle*:	AC1: 5 arcsec
	Repeatability:	1 µm
	Typical load:	3-8 kg
m_{rec}	Recommended max. loading:	20 kg

*Other accuracy classes on request.

ENGINE DATA

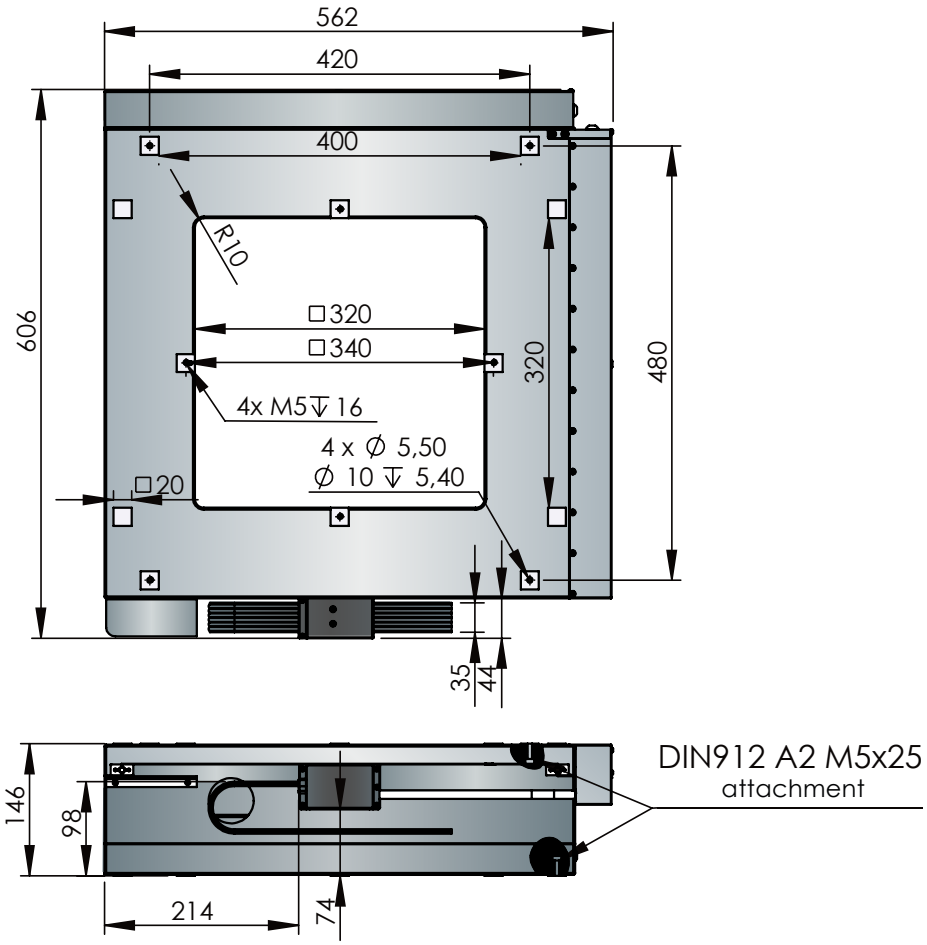
U	Voltage range:	24-80 $V_{AC\ effective}$
$F_{P\ mot}$	Peak force:	255 N
I_P	Peak electricity:	15 A

The listed accuracies are only achieved at constant temperature and without external load.

MEASURING SYSTEMS

Renishaw (incrementally)	sin/cos
Renishaw (incrementally)	TTL
Numerik (absolute)	SSI (on demand)

DIMENSIONS


562
420
400
R10
606
□320
□340
320
480
4x M5↧16
4 x ∅ 5,50
∅ 10 ↧ 5,40
□20
35
44
146
98
214
74
DIN912 A2 M5x25
attachment
690,5
734,5
□152
167,5
167,5