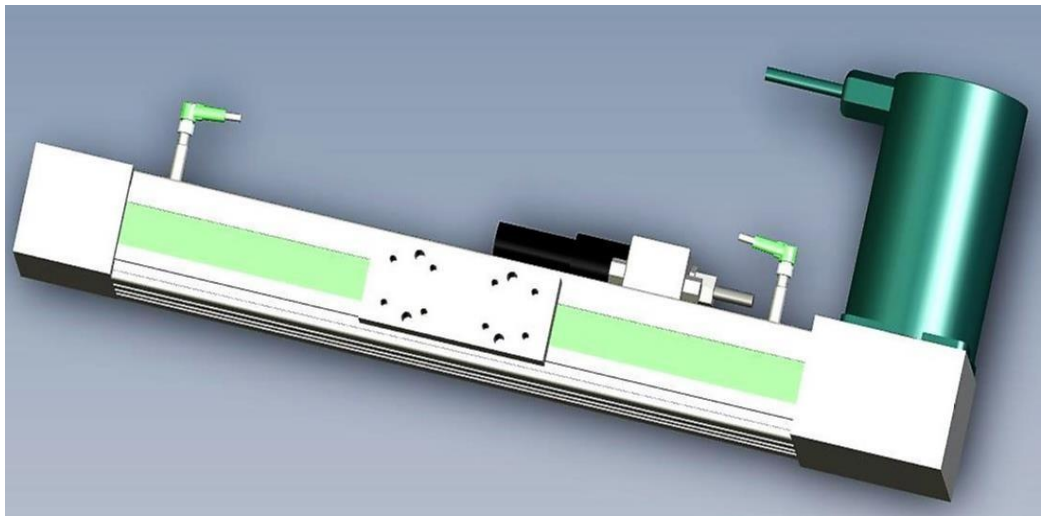
SGRT 65

linear displacement unit with toothed belt



The slides of the SGRT65 range are straight displacement units guided on rails and skids that allow strokes of amplitudes between 100 and 2500 mm.

CONCEPTION

- Compact aluminum profile construction, anodized
- Guidance is provided by an integrated size 15 rail. On this rail moves a trolley mounted on two ball pads with scraper joints, each having 4 circuits of recycled balls
- Low and constant rolling coefficient, necessary for straight transfers of large strokes, 5800mm maximum
- Travel speed up to 12m/sec.
- Acceleration of more than 10m/s²
- Operating temperature between 0 and 70°C
- A 24VDC power gap brake can be mounted as an option
- Stepper motors or Brushless can be mounted on this range of slides (see table on the back)
- The transmission of the movement is ensured by a toothed belt 24 AT5 with a development of 80mm. The end-of-stroke stops on detachable proximity detectors or other on request are external.
- These motorized modular slides are designed to be mounted in XY table

APPLICATIONS

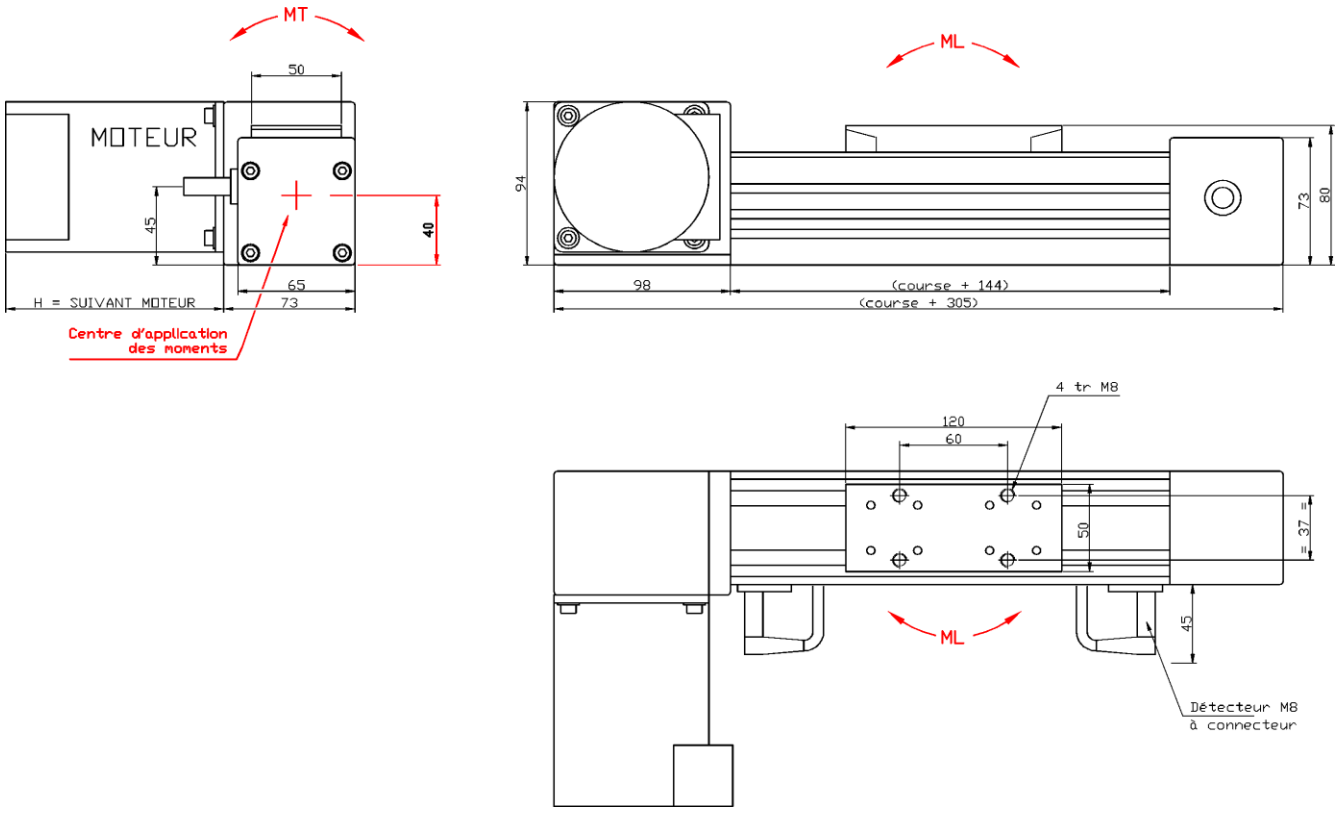
The result of fifteen years of experience, SGRT units are already used in many areas:

Manipulator
Moving inkjet printheads
Palletizer
Gluing machine
Machining
Placement CMS
Special machines
Etc.

CARACTERISTICS

- Value for money
- Lifespan
- Good travel accuracy
- Reduced weight: aluminum construction

SGRT 65

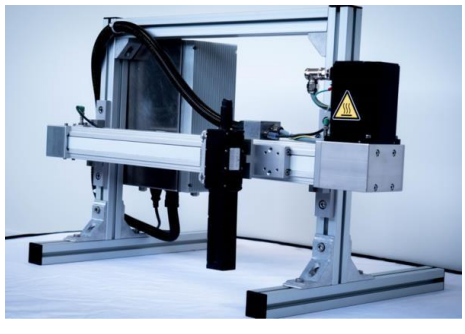


TECHNICAL CHARACTERISTICS

Stroke A in mm	100	à	5800	per 100 mm module		
Weight in kg	4,93	+	0,67	per 100 mm increment		

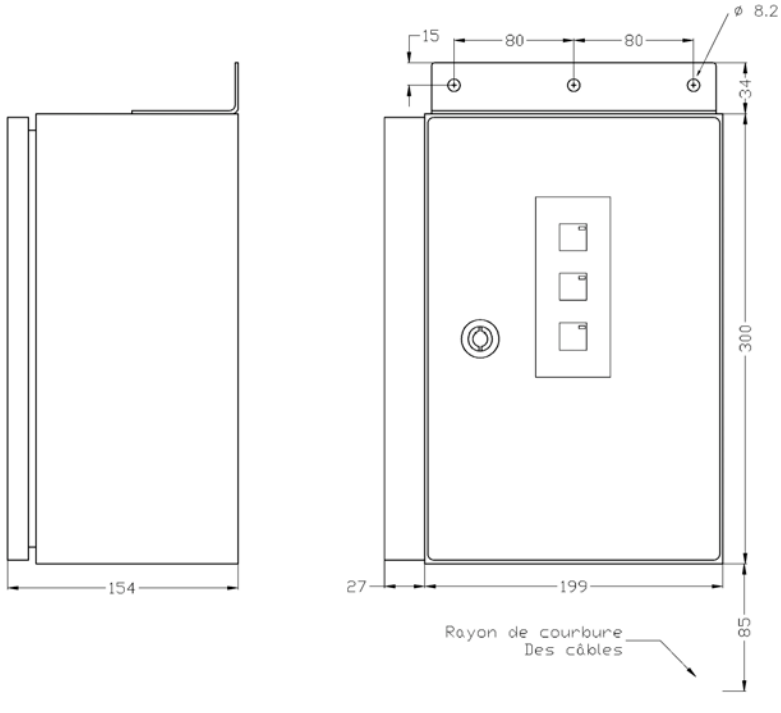
Axial thrust						Available Options
speed (m/s)				0,5	1	-24Vdc brake on the drive
Engine type		weight kg	h (mm)			-24Vdc brake on the engine
PP	H32	2,7	122	100N	60N	-Double table (stroke = A-120)
PP	H33	3,5	154	140N	100N	-Other Brushless Motorization
PP	S103	3,9	166	180N	120N	-Other Motorization Step by Step
BR	P50B05020 + R5:1	3	205	200N	200N	
Centered load					C =10000N	
Moment Longitudinal					ML=320Nm	
Moment Transversal					MT=100Nm	

Application example: SGRT 65 axis and SIGEAX control box for inkjet marking



SINGLE-AXIS DIGITAL CONTROL MOTORIZATION STEP A STEP IN BOX

SIGEAX 116PP04V3/0
INKJET



COMPOSITION

Presentation in stainless steel box with a weight of about 10 kg
The connections are made on the internal terminal blocks, Output of the cables by press tows.
Power supply 240V 50Hz mono on a power supply integrating the fuses
8 Inputs, 6 Outputs 100 mA NPN / 7 mA PNP, 2 relay outputs 2A
Power card for integrated stepper motor adjustable in current from 2 to 4 A.

SUMMARY OF POSSIBILITIES

- **Programming by RS232 link or by using a PC**

- **Parameters are stored in non-volatile memory**

- **A user-friendly operator interface allows the following definitions :**

- Movement parameters: Starting position, marking length, travel speed (from 0.2 to 1.5 m/s), acceleration (from 2 to 10 m/s²)
- Definition of print tops: from 1 to 20 tops, interval between regular or non-regular tops, position of tops possible over the entire marking length
- Setting the selection of messages associated with tops: from 1 to 15 identical or different numbers
- Specific parameters: Acceleration ramps, Origin speed, French or English selection for the operator interface, etc.

- **Options**
- selection of 1 to 10 different marking programs by the RS232 or 24V inputs
- Marking of multiple lines with metric repetition on a product scrolling at constant speed under the inkjet head (Conveyor, extruder). Speed measurement is performed by an external encoder

CONNECTIONS

- 24V inputs
- Origining
- Start of cycle outbound
- Return cycle start
- Program Selection (4)

- 24V output
- Top object
- Marking direction reversal
- message selection (4)
- Tachy clock (20 pts/mm)

- Relay output
- Alarm
- End of cycle

- Power
- Translator board for stepper motor protected against short circuits delivering a maximum current of 4 Amps under 220V
- Power supply 240V 50HZ 340VA