

INTELLIGENT INNOVATION IS MOVING SO

Fastening slides are important components equipped with air nutrunner motor, screw head, bit and bit holder, suitable for being used in **semi-automatic or automatic industrial tightening solutions**.

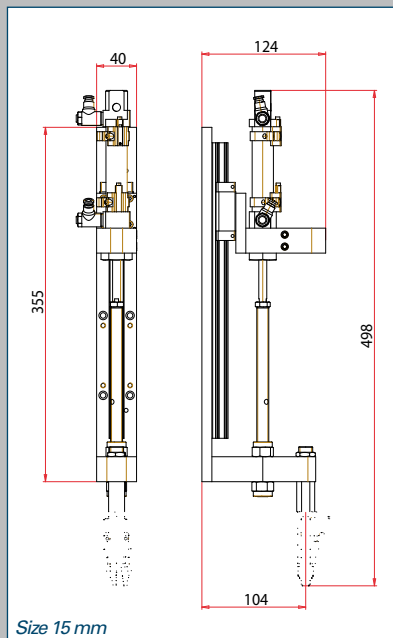
Their employment is ideal to **increase production cycles** maintaining a **high quality of the assembled product**, since all screws are tightened correctly and precisely, following a continuous and constant control of all tightening operations.

Mastering slides are **designed entirely by Fiam and are manufactured in Fiam** with high quality materials guaranteeing very high reliability and resistance over time, also in presence of high production rates

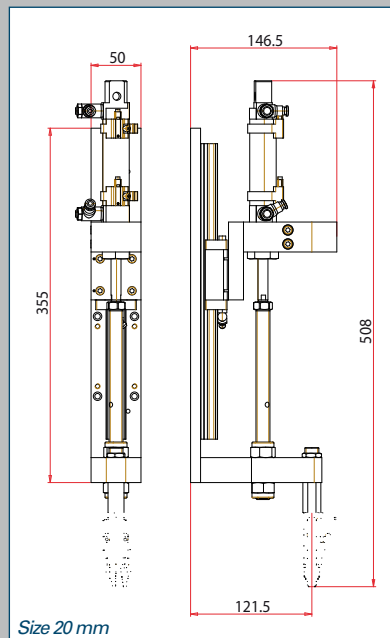
Thanks to their movement, fastening slides ensure a **perfect approach stroke of the motor - screw head to the component** to be tightened and are suitable also for applications in presence of **more tightening points with a very close distance to centre**. Their compact dimensions and the extremely low weight render these components extremely versatile and **employable on manipulators, electric axis and robots**. They can be used with Fiam air and electric nutrunner motors.

SINGLE - STROKE FASTENING SLIDE

The single stroke fastening slide is characterized by the only movement performed by the motor in order to reach the tightening point and tighten. Considering the compact dimensions and weight, single stroke fastening slides are particularly suitable in situations where the approach movement is made by a robot or a pneumatic manipulator.



Technical drawing of the slide with single-movement



Legend

SL = Tightening slide • 15 = Dimension of rail in mm • D 20 = Ø cylinder in mm • 050 = Tightening stroke in mm • 00 = Approaching stroke in mm • 36 = Ø brackets in mm

Component	Single-stroke slide fastening	Size (dimension of rail)	Tightening stroke	Ø cylinder
		mm	mm	mm
15	SL 15D20 050-00 36	15	50	20
15	SL 15D20 050-00 32	15	50	20
15	SL 15D20 080-00 36	15	80	20
15	SL 15D20 080-00 32	15	80	20
15	SL 15D25 050-00 36	15	50	25
15	SL 15D25 050-00 32	15	50	25
15	SL 15D25 080-00 36	15	80	25
15	SL 15D25 080-00 32	15	80	25
15	SL 20D25 050-00 42,5	20	50	25
15	SL 20D25 080-00 42,5	20	80	25

TECHNICAL FEATURES

RUNNING ON BALL RECIRCULATING RUNNERS (WITH FEATHER GUIDE SIZE 15/20 mm)

MAGNETIC CYLINDERS (CYLINDER BORE Ø 20 mm, UPON REQUEST Ø 25 mm)

PNEUMATIC DECELERATORS

LIMIT SWITCH POSITION SENSORS

AIR FLOW GOVERNORS

WEIGHT: 1,8 ÷ 2,2 KG.

MAX. DIAMETER OF THE MOTOR TO USE 42,5 mm

THE FASTENING SLIDE IS AVAILABLE ALSO IN THE VERSION EQUIPE WITH PRECISION SENSOR, WITH A MAX. PRECISION RANGE OF 0,5 mm.

For order please specify the size of the motor to be installed

Drawings of fastening slides in dxf and dwg formats are available.



To be ordered separately:

- nutrunner motor
- bit and bit holder
- screw head

DUAL - STROKE FASTENING SLIDE

For all those tightening situations where it is **necessary to have the screw head approach the tightening area, dual-stroke fastening slides are available** which besides from having the motor stroke to effect tightening, also have an additional approaching stroke of the head to the component. In the description of the slide, the first number indicates the stroke of the motor, while the second measures the approach stroke of the head (in mm).

Component	Slides with dual - movement	Size (dimension of rail)	Tightening stroke approaching	Ø cylinder
		mm	mm	mm
15	SL 15D20 050-50 36	15	50-50	20
15	SL 15D20 050-50 32	15	50-50	20
15	SL 15D20 050-80 36	15	50-80	20
15	SL 15D20 050-80 32	15	50-80	20
15	SL 15D20 080-50 36	15	80-50	20
15	SL 15D20 080-50 32	15	80-50	20
15	SL 15D20 080-80 36	15	80-80	20
15	SL 15D20 080-80 32	15	80-80	20
15	SL 15D25 050-50 36	15	50-50	25
15	SL 15D25 050-50 32	15	50-50	25
15	SL 15D25 050-80 36	15	50-80	25
15	SL 15D25 050-80 32	15	50-80	25
15	SL 15D25 080-50 36	15	80-50	25
15	SL 15D25 080-50 32	15	80-50	25
15	SL 15D25 080-80 36	15	80-80	25
15	SL 15D25 080-80 32	15	80-80	25
15	SL 20D25 050-50 42,5	20	50-50	25
15	SL 20D25 050-80 42,5	20	50-80	25
15	SL 20D25 080-50 42,5	20	80-50	25
15	SL 20D25 080-80 42,5	20	80-80	25



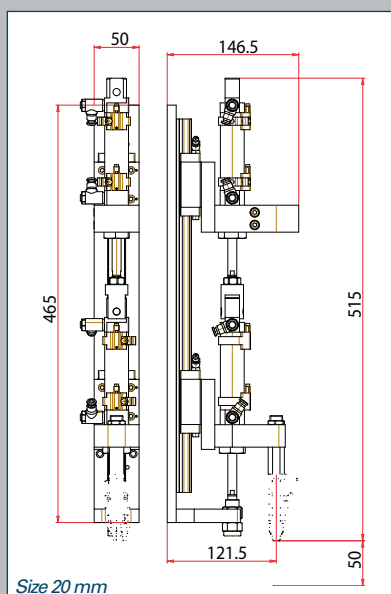
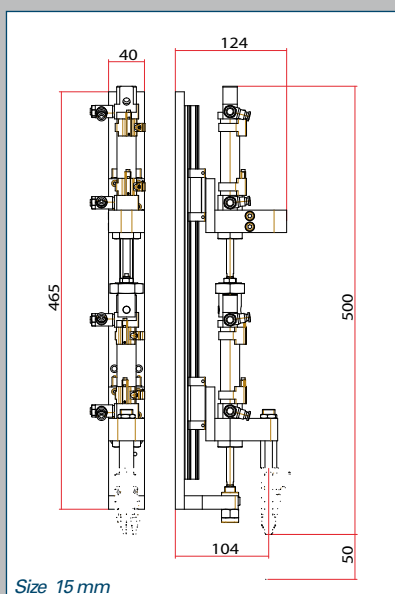
To be ordered separately:

- nutrunner motor
- bit and bit holder
- screw head

For order please specify the size of the motor to be installed.

Legend

SL = Tightening slide • 15 = Dimension of rail in mm • D 20 = Ø cylinder in mm • 050 = Tightening stroke in mm • 50 = Approaching stroke in mm • 36 = Ø brackets in mm



Technical drawing of the dual-stroke fastening slide

Technical drawings of fastening slides in dxf and dwg formats are available.

TECHNICAL FEATURES

RUNNING ON BALL RECIRCULATING RUNNERS (WITH FEATHER GUIDE SIZE 15/20 mm)

MAGNETIC CYLINDERS (CYLINDER BORE Ø 20 mm STANDARD, UPON REQUEST Ø 25 mm)

PNEUMATIC DECELERATORS

LIMIT SWITCH POSITION SENSORS

AIR FLOW GOVERNORS

WEIGHT OF THE SLIDE: 2,5 + 2,9 KG.

TO BE USED WITH FIAM NUTRUNNER MOTORS AND WITH ALL AIR NUTRUNNER MOTORS HAVING DIAM. UP TO 42,5 mm.

THE FASTENING SLIDE IS AVAILABLE ALSO IN THE VERSION EQUIPE WITH PRECISION SENSOR, WITH A MAX. PRECISION RANGE OF 0,5 MM.

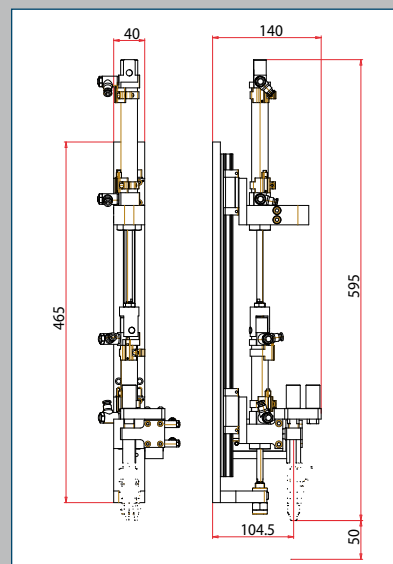
SLIDE WITH ANTI-OVERTURNING DEVICE (DUAL STROKE)

This slide, available both in single or dual stroke versions, is equipped with an **anti-overturning device to handle screws having a ration total length/head diameter equal more or less to 1**. This device allows the "movement of the head" avoiding screw incorrect positions during tightening and preventing screws from getting stuck with consequent production stop.

Component	Slide with anti-overturning device	Size (dimension of rail)	Tightening stroke approaching	Ø Cylinder
		mm	mm	mm
15	SL 15 D20 100-50 32 AR	15	100 - 50	20
15	SL 15 D20 100-50 36 AR	15	100 - 50	20
15	SL 15 D25 100-50 32 AR	15	100 - 50	25
15	SL 15 D25 100-50 36 AR	15	100 - 50	25

Legend

SL = Tightening slide • 15 = Dimension of rail in mm • D 20 = Ø cylinder in mm • 100 = Tightening stroke in mm • 50 = Approaching stroke in mm • 32 = Ø brackets in mm



Technical drawing of the slide with anti-overturning device (dual movement)



To be ordered separately:

- nutrunner motor
- bit and bit holder
- head for holding screws

For order it is necessary to specify the size of the motor to install.

TECHNICAL FEATURES

RUNNING ON BALL RECIRCULATING RUNNERS (WITH FEATHER GUIDE SIZE 15 mm)

MAGNETIC CYLINDERS (CYLINDER BORE Ø 20 mm STANDARD, UPON REQUEST Ø 25 mm)

PNEUMATIC DECELERATORS

WEIGHT OF SLIDE: 2,9 KG.

LIMIT SWITCH POSITION SENSORS

AIR FLOW GOVERNORS

TO BE USED WITH FIAM NUTRUNNER MOTORS AND WITH ALL AIR NUTRUNNER MOTORS HAVING DIAM. UP TO 36 mm

THE FASTENING SLIDE IS AVAILABLE ALSO IN THE VERSION EQUIPE WITH PRECISION SENSOR, WITH A MAX. PRECISION RANGE OF 0,5 mm

Technical drawings of fastening slides in dxf and dwg formats are available.

FiAm

PEOPLE AND SOLUTIONS

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