

**Simply the best fixation.**



**FISO**  
Swiss Made

## **3D Articulated Arms and Holders**

Precise and reliable positioning systems





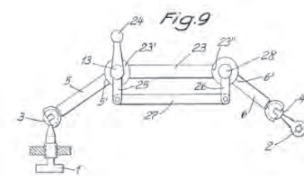
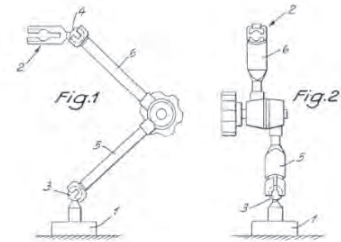
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# FISSO the Beginning

Since its foundation over 60 years ago, Baitella AG has travelled an exciting path of which we can be proud! Our history is a guide and an incentive for us to look ahead and continue to develop, so that we will continue to be successful in the future. Carlo Baitella (1915-2006) was a passionate tinkerer and inventor.

In his workshop in Zurich Oerlikon (Switzerland) he was looking for a better solution to increase productivity when measuring precision parts – the idea for the first 2-arm linkage with 3 joints and central clamping unit was born. This invention was revolutionary, since with one rotation at the central knob all three joints could be tightened and released at the same time. This principle formed the basis of all subsequent developments. Due to the stable fixation, the brand name was determined: **FISSO** = Italian for solid, rigid, immovable.

In 1973 the patent for the first 3D articulated arm was registered



# Method of Operation

## Precisely positioned and quick fixed.

The Fisso articulated arms can be positioned easily and precisely in the desired position. All three joints are fixed with the central tightening knob. The quick lock and the stepless tensioning system assure high ease of use and allow efficient working.

### Innovative top-quality products

The Fisso brand stands for user-friendly, individualized holding systems that meet all customer requirements. Fisso, the well-proven original, ensures high reliability,

functional design and is Swiss made. Fisso systems are made of high-quality steel and light alloy. Their solid quality guarantees a long-lasting and maintenance-free service life.

### Stability

The strongly dimensioned components and precise fitting in the ball joint assure high stability.

### Reliable holders:

- different top-quality head components

### Clever central tightening system:

- easy positioning
- all three joints fixed safely with one handle
- maintenance-free, mechanical central tightening system
- quick, stepless lock

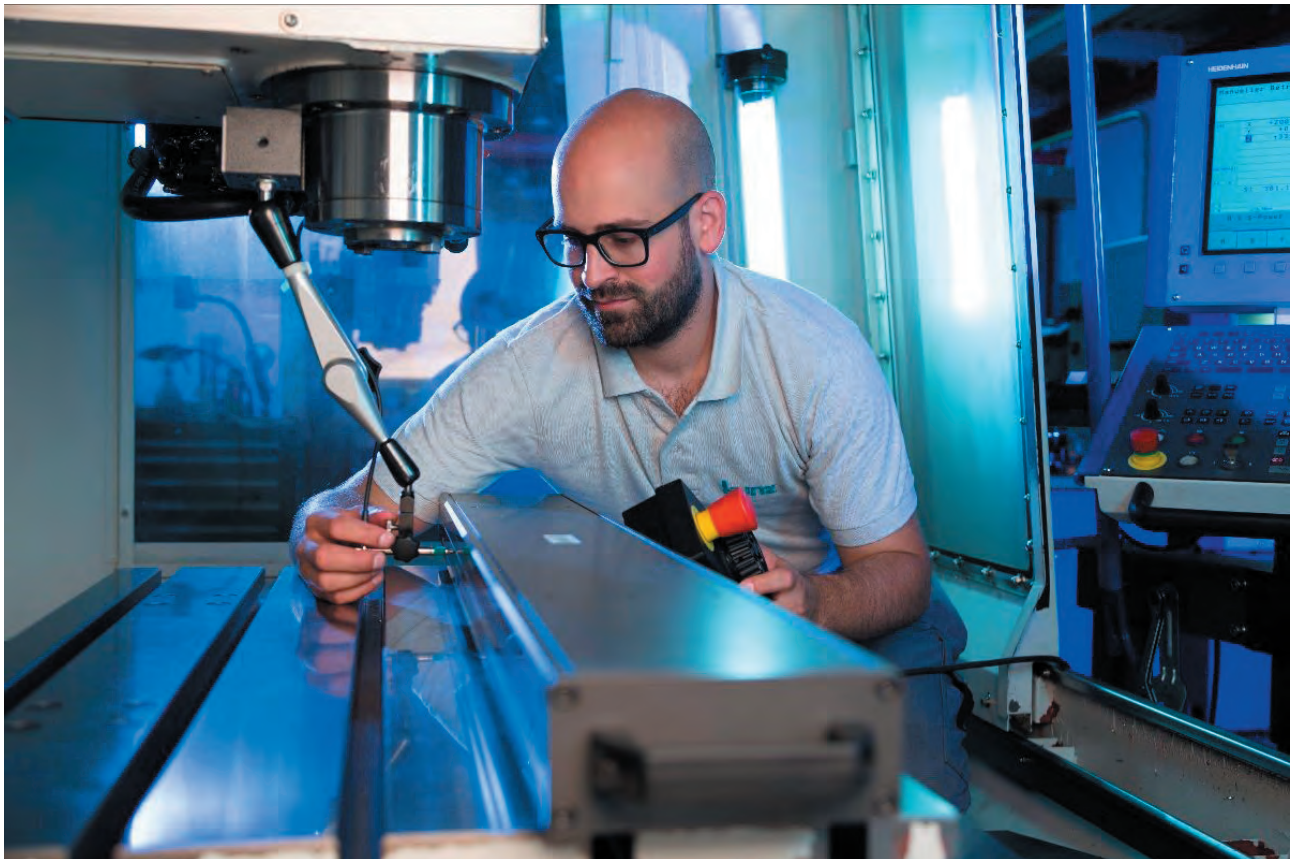
### Secure, stable base:

- different top-quality bases



# Metrology

The 3D dial indicator stands from Fisso, with a central tightening articulated arm and a strong adhesive magnet stand out due to their **high quality and reliability**. Fisso has developed different magnetic stands and accessories for holding dial indicators and dial test indicators.



Source: Kunz Precision AG

## 3D Articulated Indicator Holder

They are available in several designs: The Strato Line, made of a high-quality red anodized light alloy, is supplied in four sizes. The  $\mu$ -Line design allows high-precision measurements.

The Classic Line, made of steel with chrome arm sections, is available in six sizes and is quite versatile thanks to an action radius of movement ranging from 130 to 630 mm. The simpler Base Line articulated gauging arms are supplied in three sizes.



### Precise microfine adjustment:

- zero-play fine adjustment made of high-quality steel
- precise positioning of the gauging instruments
- high accuracy
- combined holder for dial gauges and electronic length probes

## Strato Line

### 3D articulated indicator holder

The Strato Line is the modern series with red anodized arm sections made of high-quality light alloy. The articulated arms are available in four sizes and can be combined with different bases. All models are equipped with a zero-play microfine adjustment (F) (approx. 1.3mm stroke per revolution related to the mounting hole) with a combined holder for dial gauges, electronic length probes with shaft and dial test indicators.

### Strato XS-13

The smallest Strato model is suitable for use with dial test indicators on machine tools, in measurement systems and when only limited space is available. Pre-tensioning cannot be set.



**XS13.20** with pot magnet (TMS)  
(permanent)



**XS13.41** with dial gauge holder (f)  
without fine adjustment, with  
clamping pivot (C) for positioning  
and -alignment on machines



**XS13.50** with switch magnet (S2)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>XS-13 F + TMS</b>	210	130	Ø 8	Ø 30 x 25	150	<b>XS13.20</b>
<b>XS-13 F</b>	185	130	Ø 8	-	-	<b>XS13.30</b>
<b>XS-13 f + C</b>	201	130	Ø 8	Ø 10 x 40	-	<b>XS13.41</b>
<b>XS-13 F + S2</b>	220	130	Ø 8	36 x 30 x 35	300	<b>XS13.50</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" hole diameter results in order number nnnn.n5 (e.g.: XS13.25)



## Strato S-20

The mid-range Strato model for measurement probes and dial gauges can be used in any type of mechanical system. Pre-tensioning cannot be set.



**S-20.10** with switch magnet (M)



**S-20.20** with pot magnet (TM) (permanent) and column (50 mm)



**S-20.30** with anyform magnet (AM) (permanent)



**S-20.60** with anyform magnet (AMO), which can be switched on and off with a turning handle

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>S-20 F + M</b>	310	200	Ø 8	60 x 50 x 55	800	<b>S-20.10</b>
<b>S-20 F + S + TM</b>	335	200	Ø 8	Ø 40 x 30	300	<b>S-20.20</b>
<b>S-20 F + AM</b>	310	200	Ø 8	77 x 48 x 55	600	<b>S-20.30</b>
<b>S-20 F</b>	255	200	Ø 8	-	-	<b>S-20.50</b>
<b>S-20 F + AMO</b>	310	200	Ø 8	91 x 52 x 55	600	<b>S-20.60</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: S-20.15)

## Strato M-28

The large Strato model additionally features steplessly adjustable pre-tensioning to protect the instrument.



**M-28.10** with switch magnet (M)



**M-28.20** with vacuum base (V)



**M-28.40** with sliding granite base (G)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>M-28 F + M</b>	390	280	Ø 8	60 x 50 x 55	800	<b>M-28.10</b>
<b>M-28 F + V</b>	365	280	Ø 8	Ø 88 x 27	-	<b>M-28.20</b>
<b>M-28 F</b>	335	280	Ø 8	-	-	<b>M-28.30</b>
<b>M-28 F + G</b>	385	280	Ø 8	150 x 120 x 50 x 50	-	<b>M-28.40</b>
<b>M-28 F + SM <sup>3</sup></b>	390	280	Ø 8	75 x 50 x 55	1000	<b>M-28.50</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: S-28.15)

<sup>3</sup> with switch magnet (SM)

## Strato $\mu$ -Line

### 3D articulated indicator holder for extremely high precision

The Strato  $\mu$ -Line is an expansion of the Strato Line into areas requiring **extremely high precision**. The articulated arms are available in four sizes and can be combined with different bases. The articulated arm stands out due to its well-dimensioned components, very high stability and accuracy. The precision fine adjustment (P) (approx. 0.1 mm stroke per revolution related to the mounting hole) with excellent ease of setting and high repetitive accuracy makes the unit exceptionally well suited for **measurements in the  $\mu$  range**.

### Strato $\mu$ -Line A-13

The smallest Strato  $\mu$ -Line model is optimally suitable for use on machine tools, in measurement systems and when only limited space is available. Pre-tensioning cannot be set.



AP13.10 with switch magnet (S3)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
A-13 P + S3	228	130	Ø 8	40 x 40 x 40	600	AP13.10
A-13 P	185	130	Ø 8	-	-	AP13.30

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> Us standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: AP13.15)

### Strato $\mu$ -Line A-20

The mid-range Strato  $\mu$ -Line model can be used in any type of mechanical system. Pre-tensioning cannot be set.



AP20.10 with switch magnet (M)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
A-20 P + M	317	204	Ø 8	60 x 50 x 55	800	AP20.10
A-20 P	259	204	Ø 8	-	-	AP20.30

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> Us standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: AP20.15)

## Strato $\mu$ -Line A-28

The standard Strato  $\mu$ -Line model additionally features steplessly adjustable pre-tensioning to protect the instrument.



AP28.10 with switch magnet (M)



AP28.50 with switch magnet (SM)



AP28.20 with vacuum base (V)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
A-28 P + M	399	287	Ø 8	60 x 50 x 55	800	AP28.10
A-28 P + V	369	287	Ø 8	Ø 88 x 27	-	AP28.20
A-28 P	342	287	Ø 8	-	-	AP28.30
A-28 P + SM	399	287	Ø 8	75 x 50 x 55	1000	AP28.50

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> Us standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: AP28.15)

## Strato $\mu$ -Line A-33

The largest Strato  $\mu$ -Line model features steplessly adjustable pre-tensioning to protect the instrument.



AP33.10 with switch magnet (SM)



AP33.20 with sliding granite base (G)

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
A-33 P + SM	444	330	Ø 8	75 x 50 x 55	1000	AP33.10
A-33 P + G	438	330	Ø 8	150 x 120 x 50 x 50	-	AP33.20
A-33 P	386	330	Ø 8	-	-	AP33.30

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> Us standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: AP33.15)

## 3D Articulated Indicator Holder with Carrying Case

### Strato carrying cases

The Strato set with carrying case is suited for a wide range of measurements and for on-site use.



**XS13.90**



**AP28.90**



**M-28.92**

Model	Action radius mm	Base size mm	Holding strength approx. N	Fine adjustment mm	Order no.
<b>XS13 F + S2 + C1</b>	130	34 x 30 x 35	300	Ø 8	<b>XS13.90</b>
<b>S-20 F + M + C2</b>	200	60 x 50 x 55	800	Ø 8	<b>S-20.90</b>
<b>M-28 F + M + C2</b>	280	60 x 50 x 55	800	Ø 8	<b>M-28.90</b>
<b>M-28 F + SM + C2</b>	280	75 x 50 x 55	1000	Ø 8	<b>M-28.91</b>
<b>M-28 F + V + G + C3</b>	280	V Ø 88 G 150x120x50x50	300 (V)	Ø 8	<b>M-28.92</b>
<b>A-20 P + M + C2</b>	204	60 x 50 x 55	800	Ø 8	<b>AP20.90</b>
<b>A-28 P + M + C2</b>	287	60 x 50 x 55	800	Ø 8	<b>AP28.90</b>
<b>A-28 P + SM + C2</b>	287	75 x 50 x 55	1000	Ø 8	<b>AP28.91</b>
<b>A-28 P + V + G + C3</b>	287	V Ø 88 G 150x120x50x50	300 (V)	Ø 8	<b>AP28.92</b>



**C-02**



**C-03**

Model	Dimensions	Suitable for order no.	Placeholder	Order no.	
<b>Case C1</b>	235 x 185 x 48mm	XS13.50	Dial test Indicator	<b>C-01</b>	
<b>Case C2</b>	340 x 275 x 83 mm	S-20.10 M-28.10 M-28.50	AP20.10 AP28.10 AP28.50	Dial gauge Indicator Ø 40/ Ø 60 Dial test Indicator	<b>C-02</b>
<b>Case C3</b>	340 x 275 x 83 mm	M-28.20 M-28.40	AP28.20 AP28.40		<b>C-03</b>

## Classic Line

### 3D articulated indicator holder

The Classic Line contains well-proven products with chrome-plated arm sections. The articulated arms are available in six different sizes and can be combined with different bases. All models are equipped with a zero-play microfine adjustment (F) (approx. 1.3 mm stroke per revolution related to the mounting hole) with a combined holder for dial gauges, electronic length probes and dial test indicators.

### Classic 1100-13

The smallest Classic model is suitable for use with dial test indicators on machine tools, in measurement systems and when only limited space is available. Pre-tensioning cannot be set.



1113.10 probes with switch magnet (S2)

Model	Overall height mm	Action Radius mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
1100-13 F + S2	220	130	Ø 8	36 x 30 x 35	300	1113.10
1100-13 F	185	130	Ø 8	-	-	1113.20

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" hole diameter results in order number nnnn.n5 (e.g.: 1113.15)

### Classic 2200-20

The small Classic model for measurement probes and dial gauges can be used in any type of mechanical system. Pre-tensioning cannot be set.



2220.10 with switch magnet (M)



2220.50 with pot magnet (TM) (permanent) and column (50 mm)

Model	Overall height mm	Action Radius mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
2200-20 F + M	310	200	Ø 8	60 x 50 x 55	800	2220.10
2200-20 F + MC	310	200	Ø 8	60 x 50 x 55	750	2220.10-C
2200-20 F	255	200	Ø 8	-	-	2220.30
2200-20 F+S+TM	335	200	Ø 8	Ø 40 x 30	300	2220.50

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" hole diameter results in order number nnnn.n5 (e.g.: 2220.15)

## Classic 3300-28 and 3300-40

The standard Classic model for measurement probes and dial gauges can be used in any type of mechanical system. Pre-tensioning cannot be set.



**3328.10** with switch magnet (M)



**3340.10** with switch magnet (SM)

Model	Overall height mm	Action Radius mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>3300-28 F + M</b>	390	288	Ø 8	60 x 50 x 55	800	<b>3328.10</b>
<b>3300-28 F + MC</b>	390	288	Ø 8	60 x 50 x 55	750	<b>3328.10-C</b>
<b>3300-28 F</b>	335	288	Ø 8	-	-	<b>3328.30</b>
<b>3300-28 F + SM</b>	390	288	Ø 8	75 x 50 x 55	1000	<b>3328.40</b>
<b>3300-40 F + SM</b>	510	400	Ø 8	75 x 50 x 55	1000	<b>3340.10</b>
<b>3300-40 F + SMC</b>	510	400	Ø 8	75 x 50 x 55	900	<b>3340.10-C</b>
<b>3300-40 F</b>	455	400	Ø 8	-	-	<b>3340.30</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" hole diameter results in order number nnnn.n5 (e.g.: 3328.15)

## Classic 4400-45

The large Classic model is well suited for large workpieces and machines. The steplessly adjustable pre-tensioning protects the instruments.



**4445.10** with switch magnet (SM)

Model	Overall height mm	Action Radius mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>4400-45 F + SM</b>	568	450	Ø 8	75 x 50 x 55	1000	<b>4445.10</b>
<b>4400-45 F + SMC</b>	568	450	Ø 8	75 x 50 x 55	900	<b>4445.10-C</b>
<b>4400-45 F</b>	513	450	Ø 8	-	-	<b>4445.20</b>
<b>4400-45 F + MM<sup>3</sup></b>	585	450	Ø 8	120 x 60 x 55	1500	<b>4445.30</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: 4445.15)

<sup>3</sup> with switch magnet (MM)

## Classic 6400-63

The Maxi Classic model with steplessly adjustable pre-tensioning to protect the instrument is very well suited for workpieces and machines with very large dimensions.



**6463.10** with switch magnet (MM)



**6463.49** with double switch magnet (DMM) and 450 mm column

Model	Overall height mm	Radius of movement mm	Fine adjustment <sup>1,2</sup> mm	Base size mm	Holding strength approx. N	Order no.
<b>6400-63 F + MM</b>	740	630	Ø 8	120 x 60 x55	1500	<b>6463.10</b>
<b>6400-63 F</b>	685	630	Ø 8	-	-	<b>6463.20</b>
<b>6400-63F+S+MM</b>	1210	630	Ø 8	120 x 60 x55	1500	<b>6463.48</b>
<b>6400-63F+S+DMM</b>	1210	630	Ø 8	2 x120 x 60 x55	2 x 1500	<b>6463.49</b>

All models without dial gauge/dial test indicator

<sup>1</sup> Microfine adjustment with dovetail and mounting hole

<sup>2</sup> US standard: microfine adjustment with 3/8" diameter hole results in order number nnnn.n5 (e.g.: 6463.15)

## Base Line

### indicator holder

The Base Line models are simple, practical solutions with a high degree of stability. They feature strong clamping with robust aluminum clamping jaws, an additional joint for fine adjustment as well as precise microfine adjustment (F) with a combination holder for dial gauges and probes with dovetails.

### Base Line LXS25, LS30, LM35



LS30.10 with switch magnet (M)

Model	Overall height mm	Horizontal arm Ø x L mm	Vertical arm Ø x L mm	Base size mm	Fine adjust- ment <sup>1</sup> mm	Holding strength approx. N	Order no.
LXS25 F + S2	277	8 x 75	10 x 106	36 x 30 x 35	Ø 8	300	LXS25.10
LS30 F + M	367	10 x 106	12 x 156	60 x 50 x 55	Ø 8	750	LS30.10
LM35 F + M	453	12 x 164	14 x 184	60 x 50 x 55	Ø 8	750	LM35.10

All models without dial gauge/dial test indicator

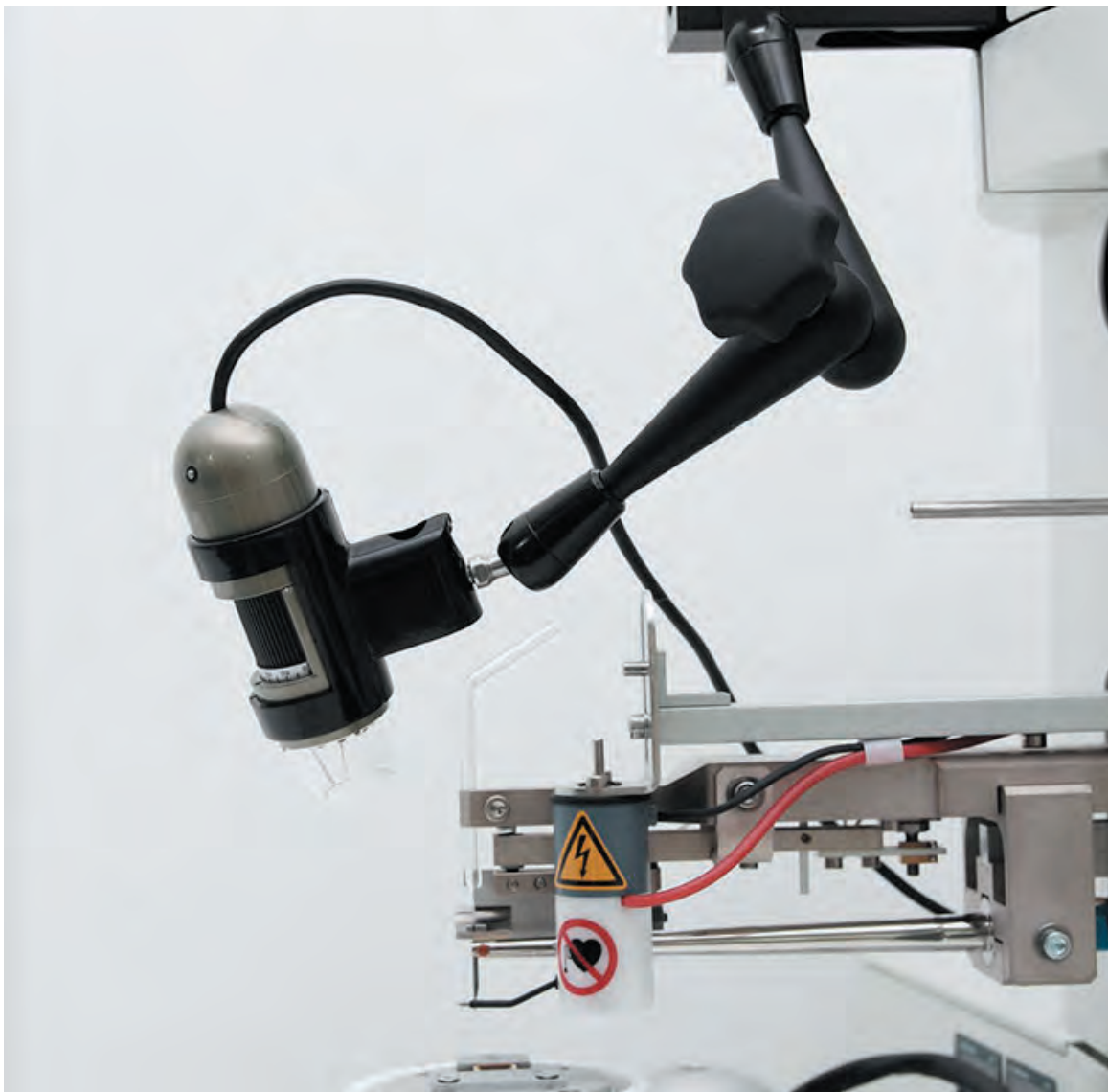
<sup>1</sup>Microfine adjustment with dovetail and mounting hole



# Optoelectronic

When projecting a light, laser or sensor signal on to a specific surface, you may need a flexible holding arm that allows an **easy and quick positioning** of such optical devices.

The 3D articulated arms from Fisso allow an individual and accurate positioning of fibre optic light guides, laser, sensors or cameras for an optimal visualisation or measurement. Different arms, bases and holders are available in our catalogue. Please do not hesitate to contact us if you don't find the right solution for you.



Source: TPT Wire Bonder

# Optoelectronic

The 3D articulated arms from Fisso are not only easy and quick to position, but they are also **strong and robust in the fixed position**. We have arms for different weights and action radius categories to hold heavy objects such as microscopes, projectors, cameras, scanners and light panels. Please do not hesitate to contact us to find out which arm is the best solution for your application.



Source: BW-Tec AG



# Optoelectronic

If your measurement has to be carried out **outdoors or under corrosive conditions**, we have **FISSO** arms in Inox or aluminium with a special coating that are more resistant to such exposure. An example is our holding system for holding rotary transducers to test a circuit breaker. For an easy and comfortable transportation and storage we offer the Strato Line products with a carrying case. Please do not hesitate to ask us for more information about Inox arms, coated arms and components as well as for carrying cases.



# Photography and Video

Our articulated arms and photo sets are the **hidden champions in the photography** world. Well known photo-studios, universities and prestige professionals in still life photography have been using our articulated arms and stands for years, showing a strong loyalty to the Strato line. If you want to know more about it, please contact us for more information.



## Strato, Photography Set with Carrying Case

Every photo and film professional knows how nerve-wracking it can be to fixate small objects, mirrors, or brighteners without the risk of the structure collapsing with every movement. The Fisso holding system is the solution for this application. The arms can be combined and used with accessories such as base plates, magnetic and vacuum bases, clamps, extensions and various adapters.



Model	Dimensions	Type of thread	Thread	Item no.	Order no.
Strato S-20 articulated arm	Radius of movement 200 mm	Outside thread	2 x M6	4.120	<b>Complete set S-20.00</b>
Steel base	Ø 100 mm	Inside thread	3 x M6	5.041	
Clamping base	80 x 20 x 40 mm	Inside thread	2 x M6	5.202	
Quick clamp with plastic jaws	-	Inside thread	M6	5.310	
Extension	200 mm	Outside/inside threads	M6 / M6	5.440	
Adapter	31 x 15.7 mm	Inside thread	M6 / 3/8" Ww	93.766	
Conversion bushing	-	Outside/inside threads	3/8" Ww / 1/4" Ww	93.587	
Open-end wrench	Size 7	-	-	92.800	

# Universal Applications

## OEM

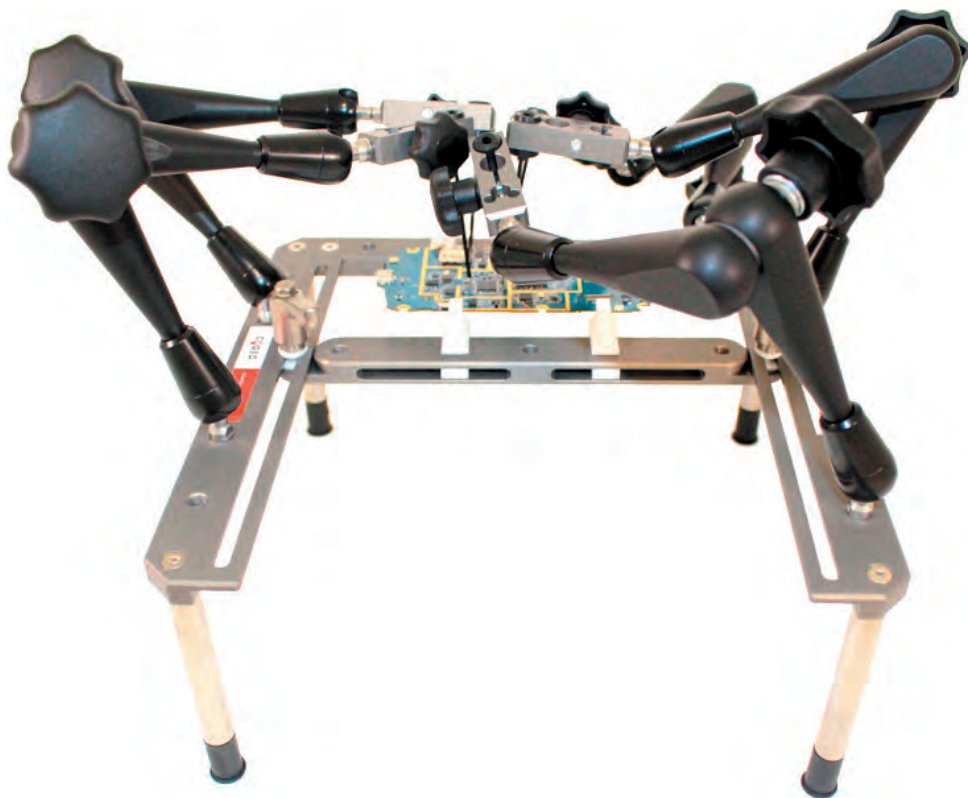
The comprehensive catalogue of components allows for the assembly of a **customized FISSO holding system** which will meet any customer requirements and applications. All available arms and components are listed from page 26. If you don't find the component you need, please do not hesitate to contact us to find the right solution for you.



# Electronic and Forensic

The 3D articulated arms and accessories, in different material, sizes and colours, serve you as a **third hand** when assembling, controlling, or repairing PCBs and electrical components.

All available arms and components are listed from page 26. We will be glad to help you find the Fisso component that best meets your needs.



# Tube Positioner

Holding tubes i.e. on aspiration/suction systems can be useful during gridding, drilling processes when it comes to keep the environment or machine free of dust and particles. The **flexible and long action radius** of the FISSO arm helps to find the positioning of the tube. We will be glad to help you find the Fisso system that best meets your needs.





## Strato, printed circuit board (PCB) holder set

The printed circuit board holder in the Strato Line is especially well suited for applications in assembly, repairs, in the laboratory or in a testing environment.



Model	Overall height	Radius of movement	Steel base	Quick clamp with plastic jaws	Order no.
M-28	433 mm	280 mm	Ø 150 mm	50 mm	M-28.100

## Classic, stabilizing holder set

The stabilizing holder serves as a 'third hand' and is especially well suited for assembly and repair applications.



6362.80

Model	Overall length	Radius of movement	Top quick clamp	Bottom quick clamp	Order no.
4300-40, KT 2 + 3	-	400 mm	KT2 ST	KT3 ST	4340.80
6300-62, KT 3 + 4	-	620 mm	KT3 ST	KT4 ST	6362.80

## Articulated Arms and Components

FISSO articulated arms and holders are manufactured to the highest quality standards. Special know-how and experience have created technical innovations in response to customer needs.

FISSO products are designed and manufactured in Switzerland.



## Articulated Arms

The 3D articulated arms from Fisso with a central tightening system stand out due to their high quality and reliability.

- Strato Line made of high quality read anodized light alloy
- Strato  $\mu$ -Line, a superior version of Strato line for high-precision measurements
- Classic Line, made of steel with chrome arm sections. Very stable and reliable
- Classic Line-4900, light but a powerful line, made in anodized aluminium

When selecting an articulated arm for your application, you may take into account certain parameters in your election, as the holding power, the arm length, the threads or special features.

## Articulated arm holding power

Holding Power	Strato	Strato $\mu$	Classic-4900	Classic
up to 2 Kg	XS-13 / S-20 sz/S-26	-	-	1100-13 / 3200-38 3300-56
up to 3 Kg	S-20 /L-34 <sup>Inox</sup>	A-13/ A-20	4900-55	2200-20/ 3300-40
up to 4 Kg	M-28/ L-34	-	-	3300-28/4300-40
up to 5 Kg	-	A-33	4900-40	-
> 5 Kg	-	A-28	4900-30	4400-45/ 6300-62 6400-63

## Articulated arm total length L

The total length of an FISSO articulated arm can be found by the model name or in the tables from page 28 to 30

Strato Line model: XS-13: 13 cm, S-20: 20 cm, M-28: 28 cm

Classic Line model: 1110-13: 13 cm, 3300-28: 28 cm, 4900-55: 55 cm

## Special features

### Cathodic electrocoating

- Higher levels of corrosion protection
- Higher UV-light resistance

Models with electro coating: XS-13 (black), S-20 (black), S-26 (black), 3200-38 (black)

### Pre-Tensioning

Adjustable Pre-Tensioning of the lower arm for a softer or tighter arm movement

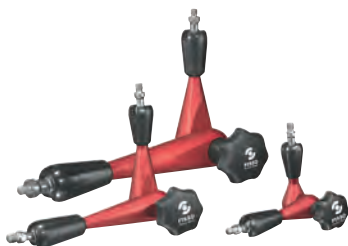
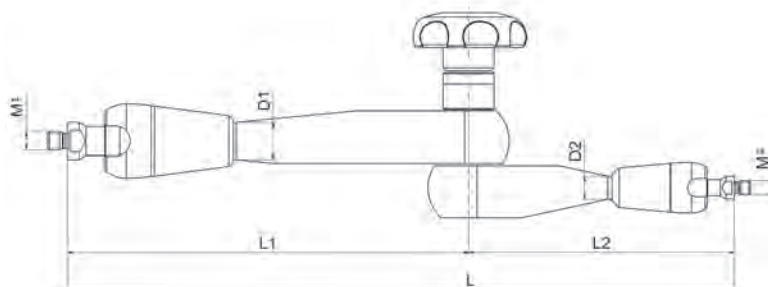
Models with adjustable Pre-Tensioning: M-28, A-28, A-33, L-34, 4300-40, 4400-45, 4900 (all models), 6300-63, 6400-63

### Blocking Screw

Security screw to block the lower arm

Models with blocking screw: 4400-45, 6300-63, 6400-63

## Articulated arm Strato Line



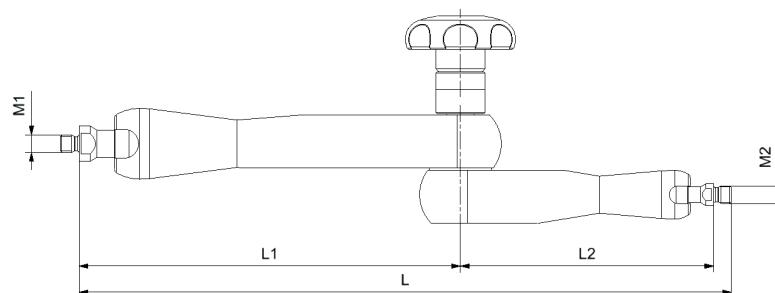
**Strato Line articulated arms**  
4.000-4.300



**Strato Line articulated arms**  
4.030-4.160

Model	Arm Colour	L mm	L1 mm	D1 mm	M1	L2 mm	D2 mm	M2	Order no.
XS-13	Red	130	70	9	M6	60	8	M6	4.000
XS-13	Black	130	70	9	M6	60	8	M6	4.030
S-20	Red	200	120	10	M8	80	9	M6	4.100
S-20 sz	Black	200	100	10	M8	100	9	M6	4.120
S-26 sz	Black	250	135	10	M8	115	10	M6	4.160
M-28	Red	280	170	16	M8	110	10	M6	4.200
L-34	Black	340	170	16	M8	170	16	M8	4.300
L-34-INOX	Black	340	170	16	M8	170	16	M8	4.350

## Articulated arm Strato $\mu$ -Line



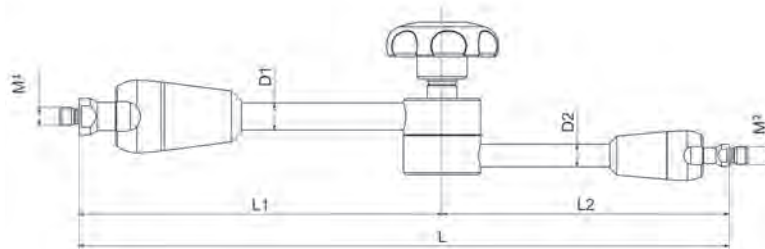
**Strato  $\mu$ -Line gauging arms  
4.500-4.800**



**Strato  $\mu$ -Line gauging arms  
4.505-4.805**

Model	Arm Colour	L mm	L1 mm	M1	L2 mm	M2	Order no.
Strato A-13	Red	130	71	M6	59	M6	4.500
Strato A-13	Black	130	71	M6	59	M6	4.505
Strato A-20	Red	204	116	M8	88	M6	4.600
Strato A-20	Black	204	116	M8	88	M6	4.605
Strato A-28	Red	287	172	M8	115	M8	4.700
Strato A-28	Black	287	172	M8	115	M8	4.705
Strato A-33	Red	330	201	M8	129	M8	4.800
Strato A-33	Black	330	201	M8	129	M8	4.805

## Articulated arm Classic Line



**Classic Line gauging arms**  
1.110-1.640



**Classic Line articulated arms**  
1.320, 3.307, 3.308

Model	Arm Colour	L mm	L1 mm	D1 mm	M1	L2 mm	D2 mm	M2	Order no.
1100-13	chrome	130	71	9	M6	59	8	M6	1.110
2200-20	chrome	197	112	10	M8	85	9	M6	1.220
3200-38	black	374	187	10	M8	187	10	M6	1.320
3300-28	chrome	288	161	12	M8	127	10	M6	1.330
3300-28	chrome	288	161	12	M8	127	10	M8	1.335
3300-40	chrome	407	220	12	M8	187	10	M8	1.360
3300-56	chrome	559	296	12	M8	263	10	M8	1.370
4300-40	chrome	392	196	12	M8	196	12	M8	1.430
4400-45	chrome	453	260	16	M8	193	12	M8	1.440
4900-30	black	302	151	16	3/8"	151	16	3/8"	3.305
4900-30	black	304	152	16	M10	152	16	M10	3.307
4900-40	black	400	200	16	M10	200	16	M10	3.306
4900-55	black	550	275	16	M10	275	16	M10	3.308
6300-62	chrome	622	358	24	M12	264	20	M12	1.630
6400-63	chrome	635	373	24	M10x1.25	262	16	M8	1.640

## Head Components

### Fine adjustments/dial gauge holders



Microfine adjustment (F)



Microfine adjustment (F) to Base Line



Dial gauge holder (f)



Precision fine adjustment (P)

Model	(F)	(F)	(F)	(F)	(F) Base Line	(f)	(f)	(P)	(P)
Mounting hole mm	Ø 8	Ø 8	Ø 3/8"	Ø 3/8"	Ø 8	Ø 8	Ø 8	Ø 8	Ø 3/8"
Dovetail	yes	yes	yes	yes	yes	yes	yes	yes	yes
Connection thread	M6	M8	M6	M8	M6	M6	M8	M8	M8
Stroke per revolution related to the mounting hole	approx. 1.3mm	approx. 1.3mm	approx. 1.3mm	approx. 1.3mm	approx. 1.3mm	approx. 1.3mm	approx. 1.3mm	approx. 0.1 mm	approx. 0.1 mm
Order no.	5.320	5.321	5.322	5.323	5.327	5.330	5.332	5.350	5.352

### Quick clamps



Model	KT 1	KT1	KT2	KT2	KT2	KT3	KT3	KT4
Max.Clamping opening mm	25	25	50	50	50	75	75	110
Thread	M6	M6	M8	M6	M6	M8	M12	M12
Material	Steel	Aluminium	Steel	Steel	Aluminium	Steel	Steel	Steel
Order No.	5.140	5.145	5.150	5.151	5.155	5.160	5.161	5.180



Model	Quick clamp 50	Quick clamp 21	Platte Holder
Jaws size mm	50 x 17	10 x 19	75 x 40
Max. Opening mm	1-10	1-10	4
Thread	M6	M6	M8
Material	Steel	Steel	Plastic
Order No.	5.301	5.310	5.406

### Light guide holder



Model	Tube/guide holder	Tube/guide holder	Tube/guide holder
Orifice dimensions mm	Ø 9-12	Ø 11-16	Ø 10
Thread	M6	M6	M6
Order No.	5.450	5.451	5.452

### rotary transducer holder



Model	D55	D36	D31
Orifice dimensions mm	Ø 55	Ø 36	Ø 31
Plate dimensions mm	90 x 85 x 15	90 x 85 x 15	90 x 85 x 15
Thread	M8	M8	M8
Order No.	5.414	5.414-D36	5.414-D31

## Base Components



Model	S2	S3	M	SM	MM	DMM
Holding power N	300	600	800	1000	1500	2 x 1500
Switchable	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions mm	36x30x35	40 x 40 x 40	60 x 50 x 55	75 x 50 x 55	120 x 60 x 55	120x130x55
Thread	M6	M6	M8	M8	M10 x 1.25	M10 x 1.25
Order no.	5.060	5.065	5.079	5.081	5.082	5.089



Model	TM	TMS	AM	AMO
Holding power N	300	150	600	600
Switchable	No	No	No	Yes
Dimensions mm	Ø 40 x 30	Ø 30 x 25	77 x 48 x 55	91 x 52 x 55
Thread	M8	M6	M8	M8
Order no.	5.083	5.086	5.084	5.088



Model	Steel base 150	Steel base 150	Steel base 100	Steel base 100	Vacuum base	Granite Base
Dimension mm	Ø 150 x 20	Ø 150 x 20	Ø 100 x 20	Ø 100 x 20	Ø 88 x 27	150 x 120 x 50 x 50
Weight kg	2.2 kg	2.2 kg	1.2 kg	1.2 kg		2 kg
Holding power N					300 N	
Thread	4 x M6	M8	2 x M6, 1 x M8	3 x M6	M8	M8
Order no.	5.031	5.032	5.040	5.041	5.090	5.091



Model	Clamping base 20sz	Clamping base 30sz	Clamping base 30K	Clamping base 80
Dimension mm	80 x 20 x 50	80 x 30 x 50	80 x 30 x 45	150 x 82 x 60
Max. Opening mm	40	40	40	80
Thread	2 x M6	2 x M8	2 x M8	as requested
Order no.	5.202	5.204	5.203	5.208



Model	Universal Clamp	Column S	Column M	Column L	Stop Lid
Dimensions mm	80 x 45 x 60	50 / Ø 16	300 / Ø 16	450 / Ø 16	Ø 20
Max. Opening mm	40	-	-	-	-
Thread	with column D16	M10 / M8	M12 x 1 / M8	M12 x 1 / M8	M12 x 1
Order no.	5.253	5.481	5.462	5.469-1	93.690



## Adapter/Connectors



Model	Adapter	Adapter	Adapter	Adapter	Adapter	Adapter
External thread	M6	M8	1/4" Ww	1/4" Ww	3/8" Ww	3/8" Ww
Internal Thread	M8	M6	M6	M8	M6	M8
Length mm	17	17	17	17	17	17
Material	Inox	Inox	Inox	Inox	Inox	Inox
Order no.	5.910	5.911	5.930	5.931	5.932	5.933

Ww: BSW (British standard whitworth), The flank angle is 55°.



Model	Adapter	Adapter	Adapter	Adapter	Adapter	Adapter
External thread	M12	M10 x 1.25	M10 x 1.25	M10 x 1.25	M10	M8
Internal Thread	M8	M8	M10	M12 x 1	M8	M12 x 1
Dimensions mm	40 / Ø 20	31 / Ø 20	31 / Ø 20	31 / Ø 20	37 / Ø 20	31 / Ø 20
Material	Steel	Steel	Steel	Steel	Steel	Steel
Order no.	5.980	5.982	5.983	5.984	5.985	5.986



Model	Adapter	Adapter	Adapter	Reduction	Reduction	Adapter	Adapter	Sleeve
Internal thread	M6	M8	M10	1/4" Ww	M8	M8	M8	Ø 8
Internal Thread	3/8" Ww	3/8" Ww	3/8" Ww	3/8" Ww	M6	M10	M10 x 1.25	Ø 6
Dimensions mm	31 / Ø 15.7	31 / Ø 15.7	31 / Ø 15.7	6	6	20 / Ø 20	20 / Ø 32	12
Material	Inox	Inox	Inox	Steel	Steel	Steel	Steel	Brass
Order no.	93.766	93.767	93.768	93.587	93.589	5.951	5.950	5.850



Model	Adapter	Adapter	Thread Pin	Thread Pin
External thread	M6	1/4" Ww	M8	M10 x 1.25
External Thread	M8	3/8" Ww	M8	M10 x 1.25
Length mm	26	26	16	17
Material	Inox	Inox	Inox	Steel
Order no.	5.901	5.902	93.921	94.114

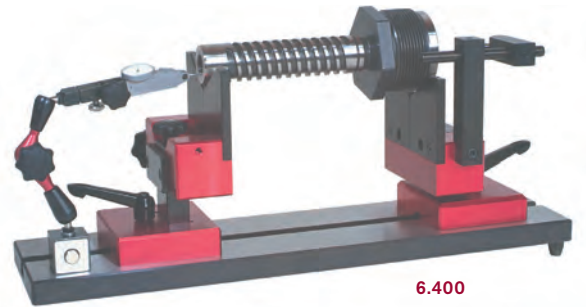
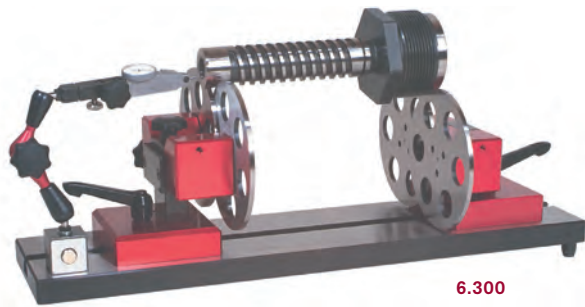


Model	Column 50 mm	Column 50 mm	Column 200 mm	Column 300 mm	Column 450 mm	Column 450 mm
Internal thread	M8	M10	M6	M8	M8	M10 x 1.25
Internal Thread	M8	M8	External M6	M12 x 1	M12 x 1	M10 x 1.25
Dimensions mm	50 / Ø 22	50	200 / Ø 8	300 / Ø 16	450 / Ø 16	450 / Ø 40
Material	Steel	Inox	Steel	Inox	Inox	Steel
Order no.	5.460	5.481	5.440	5.462	5.469-1	5.458

## Testing and Balancing

### Run out tester

The run out tester is available with roller wheels (120 mm, accuracy <math><0.005\text{ mm}</math>) or V-shaped prism supports made of hard metal (adjustable laterally). The two supports can be moved on the base plate and fixed with one handle in the desired position. One support can be adjusted in height up to 30 mm to compensate for different diameters of the workpieces.



Model	Execution	Technical Data	Order no.
RLPG 240/500	Base plate length 500 mm	Roller wheel-Ø 120x4 mm Diameter compensation max. 60 mm Workpiece Ø max. 240 mm Workpiece weight max. 25 kg Groove stone width 14 mm	6.300
RLPG 240/0	without base plate		6.301
RLPG 240/1000	Base plate length 1000 mm		6.302
PPG 240/500	Base plate length 500 mm	Carbide support in the prism Diameter compensation max. 60 mm Workpiece Ø max. 240 mm Workpiece weight max. 25 kg Groove stone width 14 mm	6.400
PPG 240/0	without base plate		6.401
PPG 240/1000	Base plate length 1000 mm		6.402

### Balancing unit

The balancing unit is equipped with two wheel supports which can be adjusted steplessly on the base plate and fixed with one handle in the desired position. Static balancing eliminates laborious alignment with spirit levels.



Model	Execution	Technical Data	Order no.
AWA 500/330 N	Base plate length 330 mm	Roller wheel-Ø 120x4 mm Workpiece Ø max. 500 mm Balance weight max. 25 kg Groove stone width 14 mm	6.500
AWA 500/500 L	Base plate length 495 mm		6.520

# Abbreviations

Abbreviation	Term
AM, AMO	Anyform magnet
C	Case
F	Microfine adjustment
f	Dial gauge holder
G	Sliding granite base
P	Precision fine adjustment
S, M, SM, MM, DMM	Switch magnet
TM, TMS	Pot magnet
V	Vacuum base

Simply the best fixation.



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