



# QUICKSET

## MODULAR MEASURING SYSTEM



Bench Gauges

**Quick Set™** is a retoolable modular system that can be assembled in three different gauging configurations: horizontal and vertical for multidimensional and geometric checking of shaft-like parts; chuck for multidimensional and geometric checking on parts that cannot be referenced horizontally with Vees or held between centers, such as bushings, bearings, pistons and cylindrical parts that are manufactured with a flange.

## Displacement Sensors



## Bore Gauges



## Forks and Ring Gauges



## Bench Gauges



## Indicators and Electronic Display Units



## Interface Boxes for Data Acquisition



## Software



## Product features

Its design concept ensures high flexibility and quick retooling, using shop-floor components available off the shelf. 30 mm diameter stainless steel bars assure rigidity and exact positioning of the bench gauge elements. The bar system allows size expansion of the bench. The narrow 12 mm (0.47") width of all components allows a large number of measuring sections on a short part surface. Several measuring assemblies can be mounted on the base to carry on diameter, distance and geometric measurements. Part support options allow static as well as dynamic inspection. It can accommodate any measuring gauge with clamping diameter 8 mm or 3/8", such as Red Crown2™, TD dial indicators or Quick Digit™ digital indicators.



## QUICKSET

### Horizontal

Parts can be supported and referenced through Vees or between centers. In association with Vees, optional part axial limiters and part radial limiters can be used to ensure correct part positioning and part introduction respectively.



## QUICKSET

### Vertical

Parts are supported and referenced between centers. Two versions are available, Single and Dual station; the second is used when a large number of measurements is required. Two different types of arms with center supports allow static or dynamic acquisitions respectively.



## QUICKSET

### Chuck

Parts can be supported and referenced through the serrated plate and a Vee.

## TECHNICAL SPECIFICATIONS

Gauge Configuration	Quick Set-Horizontal	Quick Set-Vertical	Quick Set-Chuck
Measurable Diameter	5 – 160 mm (0.02" – 6.30")	5 – 160 mm (0.02" – 6.30")	5 – 160 mm (0.02" – 6.30")
Max. Non-measurable Diameter	260 mm (10.24")	260 mm (10.24")	260 mm (10.24")
Max. Measurable Length	700 mm (27.56")	840 mm (33.07")	250 mm (9.84")
Weight	up to 14 kg	up to 8 kg (*)	-

(\*) Special versions are available to measure heavier parts.



ASSEMBLIES FOR PART MEASURING

## Quick Set **Horizontal**

Centers solution



"V" solution

ASSEMBLIES FOR PART SUPPORT AND REFERENCE



ASSEMBLY OF BASE STRUCTURE

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# THE PRODUCT LINE

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ASSEMBLIES FOR PART MEASURING

Quick Set  
**Vertical**

Quick Set  
**Chuck**



ASSEMBLIES FOR PART SUPPORT AND REFERENCE



ASSEMBLIES OF BASE STRUCTURE

## Application examples



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Indicators and  
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Display Units



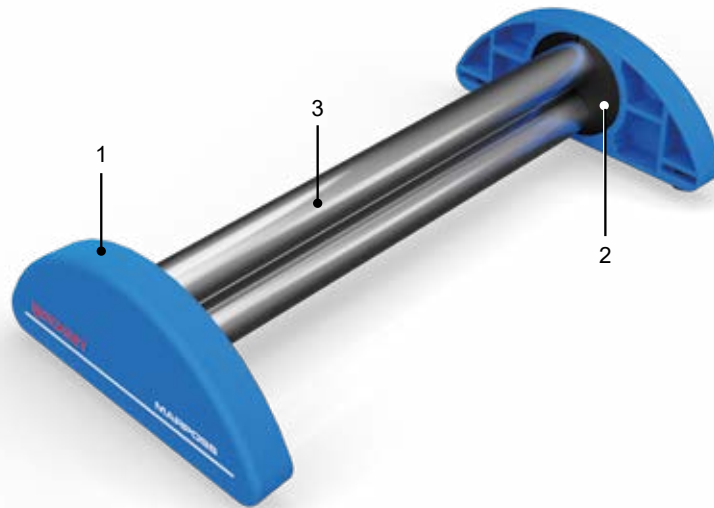
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## Assembly of **base structure**



Bars Length		Bench with "V"				Bench with Pivoting centers unit	
		Max. part length with 2 introducing axial limiters		Max. part length with 1 introducing axial limiter and 1 measuring axial limiter		Max. part length	
200 mm	7.87"	100 mm	3.94"	70 mm	2.76"	80 mm	3.15"
300 mm	11.81"	200 mm	7.87"	170 mm	6.69"	180 mm	7.08"
400 mm	15.75"	300 mm	11.81"	270 mm	10.63"	280 mm	11.02"
500 mm	19.69"	400 mm	15.75"	370 mm	14.57"	380 mm	14.96"
600 mm	23.62"	500 mm	19.69"	470 mm	18.50"	480 mm	18.89"
800 mm	31.50"	700 mm	27.56"	670 mm	26.38"	680 mm	26.77"

Note: longer bars are available on request

Ref.	Description	Order code
1	SUPPORT FEET (PAIR)	B2924017005
2	CLAMPING DEVICES (PAIR)	B2924017115
3	BARS L = 200 mm (PAIR)	B2924017010
	BARS L = 300 mm (PAIR)	B2924017020
	BARS L = 400 mm (PAIR)	B2924017030
	BARS L = 500 mm (PAIR)	B2924017040
	BARS L = 600 mm (PAIR)	B2924017050
	BARS L = 800 mm (PAIR)	B2924017070

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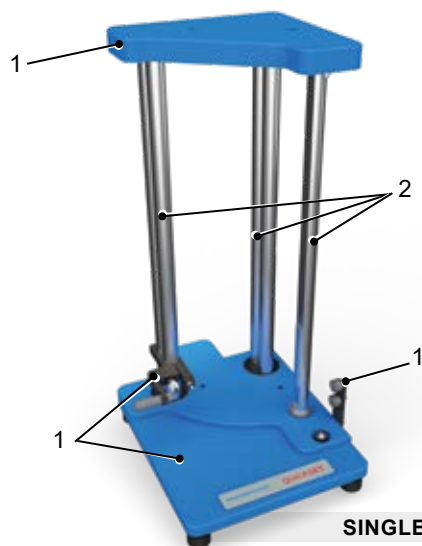


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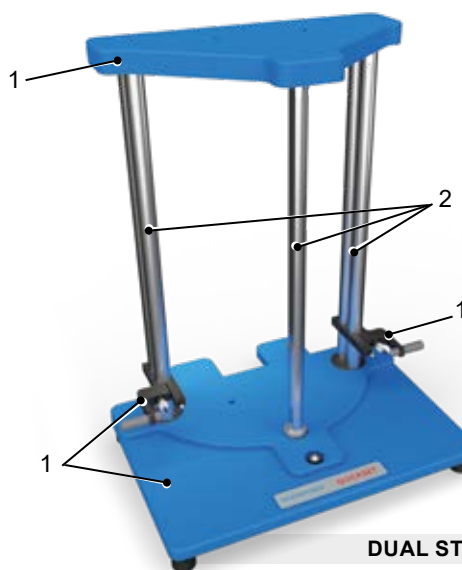




## Assemblies of **base structure**



**SINGLE STATION**



**DUAL STATION**

Bars Length		Quick Set-Vertical			
		Part length with static measurements		Part length with dynamic measurements	
500 mm	19.69"	190 mm	7.48"	100 mm	3.94"
600 mm	23.62"	290 mm	11.41"	200 mm	7.87"
700 mm	27.56"	390 mm	15.35"	300 mm	11.81"
800 mm	31.50"	490 mm	19.29"	400 mm	15.75"
900 mm	35.43"	590 mm	23.22"	500 mm	19.69"
1000 mm	39.37"	690 mm	27.16"	600 mm	23.62"
1150 mm	45.28"	840 mm	33.07"	750 mm	29.53"

Part length values are referred to bench gauges equipped with:  
Standard interchangeable centers (see page 13-14) for static measurements  
Cone center L = 100 mm, diameter 18 mm, for dynamic measurements

The assembly of base structure is composed of base and bars. Centers are supplied separately (see page 12).

Ref.	Description	Order code
1	SINGLE STATION BASE (INCLUDES UPPER AND LOWER PLATES AND STOPPERS)	B3024025503
	DUAL STATION BASE (INCLUDES UPPER AND LOWER PLATES AND STOPPERS)	B3024025003
2	BARS L = 500 mm	B3024025025
	BARS L = 600 mm	B3024025026
	BARS L = 700 mm	B3024025027
	BARS L = 800 mm	B3024025028
	BARS L = 900 mm	B3024025029
	BARS L = 1000 mm	B3024025030
	BARS L = 1150 mm	B3024025031

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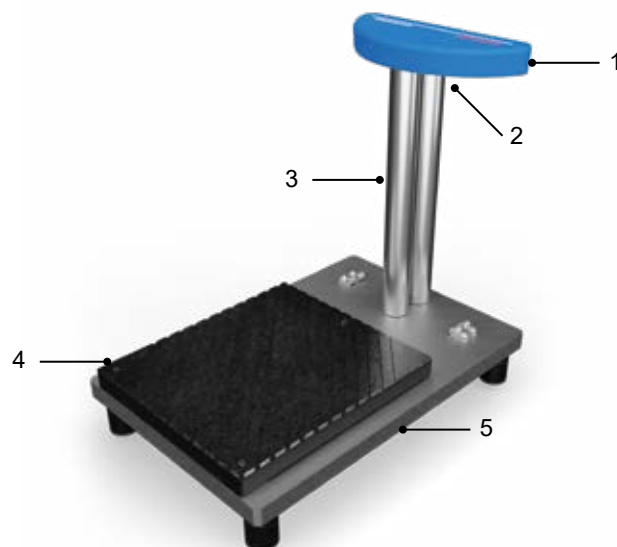
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## Assembly of **base structure**



The assembly of base structure is composed of support plate, support feet, clamping devices, bars and serrated referencing plate.

Ref.	Description	Order code
1	SUPPORT FEET	B2924017005
2	CLAMPING DEVICE	B2924017115
3	BARS L = 300 mm (PAIR)	B2924017880
	BARS L = 500 mm (PAIR)	B2924017882
4	SERRATED REFERENCING PLATE (220 x 250 mm)	B2924017885
	CHROMED SERRATED REFERENCING PLATE (220 x 250 mm, HRC 68)	B2924017886
5	SUPPORT PLATE (INCLUSIVE OF RUBBER FEET)	B2924017890

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## Assemblies for **part support and reference**

### WITH FRONTAL "V"



For Horizontal and Chuck versions

The frontal "V" accurately defines the measuring mechanical axis of the part. An assembly is composed of one support bracket and one frontal "V", and is available in two versions:

- with self-centering screw, for fast and frequent retooling
- without self-centering screw, for economical part positioning

Two assemblies are normally required to support the part.

	Support Bracket			Frontal "V"	
	Length		Order code	Range	Order code
Assembly with self-centering screw	200 mm	7.87"	B3024017540	5 - 10 mm	0.19" - 0.39"
				10 - 15 mm	0.39" - 0.59"
				15 - 24 mm	0.59" - 0.94"
				24 - 40 mm	0.94" - 1.57"
				40 - 70 mm	1.57" - 2.76"
				55 - 100 mm	2.16" - 3.94"
Assembly without self-centering screw	200 mm	7.87"	B3024017000	5 - 10 mm	0.19" - 0.39"
				10 - 15 mm	0.39" - 0.59"
				15 - 24 mm	0.59" - 0.94"
				24 - 40 mm	0.94" - 1.57"
				40 - 70 mm	1.57" - 2.76"
				55 - 100 mm	2.16" - 3.94"
	250 mm	9.84"	B3024017050	100 - 150 mm	3.94" - 5.91"

Description	Order code
OPTIONAL GUIDE FOR VEE RANGE 55-100 mm (it has to be used when onto the same support bracket of the vee, two single transmissions are assembled to check the diameter (55-100 mm))	B2924017695

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## Forks and Ring Gauges



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## WITH CROSSED "V"



For Horizontal and Chuck versions

The crossed "V" is used for very frequent retooling and when a large retooling range is needed. An assembly is composed of one support bracket and one crossed "V", and is available in two versions:

- with self-centering screw, for fast and frequent retooling
- without self-centering screw, for economical part positioning

Two assemblies are normally required to support the part.

	Support Bracket			Crossed "V"		
	Length		Order code	Range		Order code
Assembly with self-centering screw	200 mm	7.87"	B3024017540	5 - 100 mm	0.19" - 3.94"	B3024017553
Assembly without self-centering screw	200 mm	7.87"	B3024017000	5 - 100 mm	0.19" - 3.94"	B3024017552

## WITH MEASURING "V"



For Horizontal and Chuck versions

The measuring "V" is used when both part reference and part diameter measurement have to be carried out in the same section

The assembly is available in two versions:

- with self-centering screw, for fast and frequent retooling
- without self-centering screw, for economical part positioning

An assembly is composed of one support bracket, one measuring "V", and one single transmission unit or one direct sensor unit.

The measurement is performed by using a special contact for measuring "V" mounted on the single transmission unit or on the direct sensor unit (see Contacts for Measuring "V"). The special contact for measuring "V" and the sensor to be mounted in the transmission unit or in the direct sensor unit must be ordered separately.

	Support Bracket			Measuring "V"		
	Length		Order code	Range		Order code
Assembly with self-centering screw, for single transmission or direct sensor unit	200 mm	7.87"	B3024017540	5 - 35 mm	.19" - 1.39"	B3024017524
				35 - 65 mm	1.39" - 2.56"	B3024017526
Assembly without self-centering screw, for single transmission or direct sensor unit	200 mm	7.87"	B3024017000	5 - 35 mm	.19" - 1.38"	B3024017520
				35 - 65 mm	1.38" - 2.56"	B3024017522

Sensor Support	Clamping $\phi$ for Sensor	Order code
SINGLE TRANSMISSION UNIT	8 mm	B3024017155
	3/8"	B3024017157
DIRECT SENSOR UNIT	8 mm	B3024017145
	3/8"	B3024017147

## WITH RADIAL LIMITERS



For Horizontal and Chuck versions

The part radial limiters ensure correct part introduction in the bench. An assembly is composed of one support bracket and one pair of radial limiters.

Two versions of limiter are available:

- steel limiter
- brass limiter for parts with low hardness

### Support Bracket

Length		Order code
200 mm	7.87"	B3024017000
250 mm	9.84"	B3024017050

### Description

STEEL RADIAL LIMITERS (PAIR)

### Order code

B3024017200

BRASS RADIAL LIMITERS (PAIR)

B3024017210

## AXIAL LIMITERS



For Horizontal version

The part axial limiter ensures correct part positioning in the bench.

Two versions are available:

- Introducing axial limiter to limit part position
- Measuring axial limiter used both to limit part position and as mechanical reference for a distance measurement carried out by a shoulder transmission unit (see Assemblies for part measuring).

This component is not assembled together with others, as it is fixed directly on the two bars of the horizontal bench.

### Description

INTRODUCING AXIAL LIMITER

### Order code

B3024017214

MEASURING AXIAL LIMITER

B3024017218

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## WITH ARMS FOR CENTER SUPPORTS



For Vertical version

These arms are suitable for static measurement acquisitions and accept standard, interchangeable universal and short center with cylindrical shank.

An assembly is composed of the two arms. Centers must be ordered separately or provided by the customer.

Description	Order code
UPPER ARM WITHOUT CENTER FOR SINGLE AND DUAL STATION, FOR STATIC MEASUREMENTS	B2924017190
LOWER ARM WITHOUT CENTER FOR DUAL STATION, FOR STATIC MEASUREMENTS	B2924017221
LOWER ARM WITHOUT CENTER FOR SINGLE STATION, FOR STATIC MEASUREMENTS	B2924017220
UNIVERSAL CENTER (see page 13)	B1024017753
SHORT CENTER (see page 13)	B1024017755



For Vertical version

These arms are suitable for dynamic measurement acquisitions (the lower arm is equipped with a brushless motor) and accept standard MK2 cone centers.

An assembly is composed of the two arms. Centers must be ordered separately or provided by the customer.

Description	Order code
UPPER ARM WITHOUT CENTER FOR SINGLE AND DUAL STATION, FOR DYNAMIC MEASUREMENTS	B2924017170
LOWER ARM WITHOUT CENTER FOR SINGLE STATION, WITH FAULHABER MOTOR FOR DYNAMIC MEASUREMENTS	B2942441808
LOWER ARM WITHOUT CENTER FOR SINGLE STATION, WITH COMMERCIAL MOTOR FOR DYNAMIC MEASUREMENTS	B2942441809
LOWER ARM WITHOUT CENTER FOR DUAL STATION, WITH FAULHABER MOTOR FOR DYNAMIC MEASUREMENTS	B2942441813
LOWER ARM WITHOUT CENTER FOR DUAL STATION, WITH COMMERCIAL MOTOR FOR DYNAMIC MEASUREMENTS	B2942441814

## WITH PIVOTING CENTERS UNIT



For Horizontal version

This unit is needed when the part to be measured is provided with center holes.

The part is loaded between the centers and then introduced into the measuring station.

It is recommended for small parts [max. part weight 3 kg and max. flywheel overall diameter 170 mm (6.69")].

An assembly is composed of one pair of pivoting supports and their connecting shaft, whose length depends on the length of the bars of the base structure assembly.

The centers, their supports and the dampers must be ordered separately.

Dampers are available to avoid impacts during part introduction in the measuring station.



UNIVERSAL CENTER



SHORT CENTER



IDLE CENTER SUPPORT



IDLE CENTER RELOADING SUPPORT



FIXED CENTER SUPPORT

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### Pivoting Supports (pair)

Base Bars Length		Max Part Length		Order code	Length		Order code
200 mm	7.87"	80 mm	3.15"		360 mm	14.17"	
300 mm	11.81"	180 mm	7.08"		460 mm	18.11"	
400 mm	15.75"	280 mm	11.02"		560 mm	22.04"	
500 mm	19.69"	380 mm	14.96"		660 mm	25.98"	
600 mm	23.62"	480 mm	18.89"		760 mm	29.92"	
800 mm	31.50"	680 mm	26.77"		960 mm	37.79"	

Note: longer bars and connecting shafts are available on request

### Description

Description	Order code
FIXED CENTER SUPPORT	B1024017567
IDLE CENTER SUPPORT	B3024017325
IDLE CENTER RELOADING SUPPORT	B3024017315
UNIVERSAL CENTER	B1024017753
SHORT CENTER	B1024017755
DAMPER (FOR MAX. PART WEIGHT 3 kg)	B44331AC108

N.B. With this unit diameter, ovality and distance measurements only can be carried on. For measurements such as perpendicularity, T.I.R., concentricity, etc., that are referred to the centers axis, please contact your nearest Marposs office.

## Assemblies for **part measuring**

### WITH SELF-CENTERING UNIT WITH TRANSMISSION



For all versions

The self-centering unit with transmission is used to carry out diameter measurements only. It can accommodate pencil probes and indicators with diameter 8 mm or 3/8".

The sensor is not in direct contact with the part and is therefore preserved during part loading/unloading.

The working range of the transmission unit is 1,150 mm.

An assembly is composed of one support bracket and one self-centering unit with transmission. The sensor and the two contacts to be mounted on the unit must be ordered separately (see Contacts and Armsets).

Support Bracket			Self-Centering Unit with Transmission			
Length	Order code		Range		Clamping $\phi$ for Sensor	Order code
200mm	7.87"	B3024017000	5 - 80 mm	0.20" - 3.15"	8 mm	B3024017460
					3/8"	B3024017462

## WITH SELF-CENTERING UNIT WITH DIRECT SENSOR



For all versions

The self-centering unit with direct sensor is used to carry out diameter measurements only. It can accommodate pencil probes and indicators with diameter 8 mm or 3/8".

An assembly is composed of one support bracket and one self-centering unit with direct sensor. The sensor and the contact to be mounted on the unit must be ordered separately (see Contacts and Armsets).

Support Bracket			Self-Centering Unit with Direct Sensor		
Length	Order code		Range	Clamping $\phi$ for Sensor	Order code
200 mm	7.87"	B3024017000	5 - 80 mm	0.20" - 3.15"	
				8 mm	B3024017470
				3/8"	B3024017472

## WITH SINGLE TRANSMISSION UNIT



For all versions

The single transmission unit is used to carry out diameter and form measurements. It can accommodate pencil probes and indicators with diameter 8 mm or 3/8". The sensor is not in direct contact with the part and is therefore preserved during part loading / unloading.

The working range of each transmission unit is 1,150 mm.

The assembly with only one transmission unit is particularly used for T.I.R. (runout) measurements.

An assembly is composed of one support bracket (L=200 mm or 250 mm) and one or two single transmission units. The sensor and the contact to be mounted on each unit must be ordered separately (see Contacts and Armsets).

Support Bracket				
Length		Range		Order code
200 mm	7.87"	3 - 118 mm	0.12" - 4.64"	B3024017000
250 mm	9.84"	3 - 160 mm	0.12" - 6.30"	B3024017050

Sensor Support	Clamping $\phi$ for Sensor	Order code
SINGLE TRANSMISSION UNIT	8 mm	B3024017155
	3/8"	B3024017157

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## Displacement Sensors



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## Indicators and Electronic Display Units



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### WITH DIRECT SENSOR UNIT



For all versions

The direct sensor unit is used to carry out diameter and form measurements. It can accommodate pencil probes and indicators with diameter 8 mm or 3/8".

An assembly is composed of one support bracket (L=200 mm or 250 mm) and one or two direct sensor units.

The sensor to be mounted on each unit must be ordered separately.

Support Bracket				
Length		Range		Order code
200 mm	7.87"	3 - 118 mm	0.12" - 4.64"	B3024017000
250 mm	9.84"	3 - 160 mm	0.12" - 6.30"	B3024017050

Sensor Support	Clamping $\phi$ for Sensor	Order code
DIRECT SENSOR UNIT	8 mm	B3024017145
	3/8"	B3024017147

### WITH SHOULDER TRANSMISSION UNIT



For all versions

The shoulder transmission unit is used to carry out distance measurements. It can accommodate pencil probes and indicators with diameter 8 mm or 3/8". The working range of this transmission unit is 1,50 mm.

The sensor is not in direct contact with the part and is therefore preserved during part loading/unloading.

Distance measurements can be carried out by using two assemblies or one assembly and a measuring axial limiter.

An assembly is composed of one support bracket and one shoulder transmission unit. The sensor, the armset and the contact to be mounted on the unit must be ordered separately (see Contacts and Armsets).

Support Bracket			
Length		Order code	
200 mm	7.87"	B3024017000	
250 mm	9.84"	B3024017050	

SHOULDER TRANSMISSION UNIT	Clamping $\phi$ for Sensor	Order code
	8 mm	B3024017330
	3/8"	B3024017331

## Accessories and Tools

### PART PUSHER



For Horizontal version

The part pusher ensures the contact between the part and the "V" supports.

It is particularly useful for parts with weight lower than 200 gr.

It is suitable for part diameters from 5 to 50 mm (0.19" - 1.97").

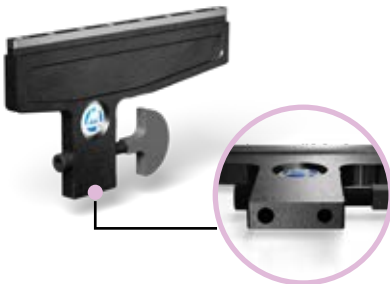
#### Description

PART PUSHER

#### Order code

B3024017980

### SUPPORT BRACKET WITH BACK HOLES



This support bracket is used with the Vertical version; it is equipped with two holes in the bottom that allow the use of the specific retooling tool to setup it horizontally.

#### Description

SUPPORT BRACKET WITH BACK HOLES

#### Order code

B2924025255

### RETOOLING TOOL (ONLY FOR BRACKET WITH BACK HOLES)



This tool allows to setup the support bracket code B2924025255 horizontally.

#### Description

RETOOLING TOOL FOR BRACKET WITH BACK HOLES

#### Order code

B2924025050

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## Displacement Sensors



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## STANDARD CONTACTS



To be used with:

- Self-centering unit with transmission (Q.ty = 2)
- Self-centering unit with direct sensor (Q.ty = 1)
- Single transmission unit (Q.ty = 1)

Radius R		Thread	Material	Order code
10 mm	0.39"	M 2.5	CARBIDE	B3392401702
50 mm	1.97"	M 2.5	CARBIDE	B3392401705
100 mm	3.94"	M 2.5	CARBIDE	B3392401706
10 mm	0.39"	M 2.5	DIAMOND	B3392401722
50 mm	1.97"	M 2.5	DIAMOND	B3392401725
100 mm	3.94"	M 2.5	DIAMOND	B3392401726

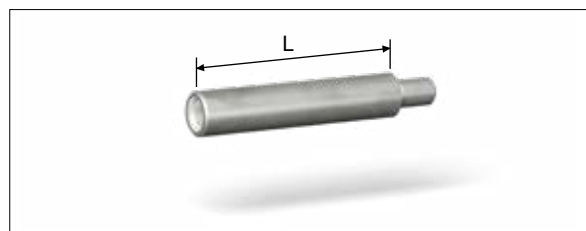
## CONTACTS FOR MEASURING 'V'



Special carbide contacts to be mounted on the single transmission unit or directly on the sensor.

Radius R		Thread	Order code
10 mm	0.39"	M 2,5	B3392401701
50 mm	1.97"	M 2,5	B3392401720
100 mm	3.94"	M 2,5	B3392401721

## CONTACT EXTENSIONS



To be used with:

- Self-centering unit with transmission or direct sensor
- Single transmission unit
- Direct sensor unit
- Indicators

L		Thread	Order code
10 mm	0.39"	M 2.5	B1024017105
15 mm	0.59"	M 2.5	B1024017106
20 mm	0.79"	M 2.5	B1024017107
25 mm	0.98"	M 2.5	B1024017108
30 mm	1.18"	M 2.5	B1024017109
10 mm	0.39"	4 - 48 UNF	B1024017115
15 mm	0.59"	4 - 48 UNF	B1024017116
20 mm	0.79"	4 - 48 UNF	B1024017117
25 mm	0.98"	4 - 48 UNF	B1024017118
30 mm	1.18"	4 - 48 UNF	B1024017119

## OFF-SET ARMS

### ARMSET FOR SELF-CENTERING UNIT WITH TRANSMISSION

It is needed to carry out measurements very close to each other and close to a shoulder (min. 3 mm) by offsetting the contact.



Min. distance between two measuring sections: 5,2 mm.

Armset + fixing screw

#### Order code

B2924017405

### ARMSET FOR SINGLE TRANSMISSION UNIT

For contact off-set when measurements close to each other must be carried out.



Min. distance between two measuring sections: 5,2 mm.

Armset + fixing screw

#### Offset L

8.5 mm

0.33"

#### Order code

B2924017150

10 mm

0.39"

B2924017151

## CONTACTS AND ARMSETS FOR SHOULDER TRANSMISSION UNIT



#### Armset

It is the interface for mounting the contact on the unit.



#### Contact

Available with carbide or diamond tip.

Displacement  
Sensors



Bore  
Gauges



Forks and  
Ring Gauges



Bench  
Gauges



Indicators and  
Electronic  
Display Units



Interface  
Boxes for Data  
Acquisition



Software



## Displacement Sensors



## Bore Gauges



## Forks and Ring Gauges



## Bench Gauges



## Indicators and Electronic Display Units



## Interface Boxes for Data Acquisition



## Software



### Armset for Grooves

It is equipped with a carbide contact and must be directly mounted on the unit.

#### Description

ARMSET  
CARBIDE CONTACT  
DIAMOND CONTACT  
ARMSET FOR GROOVES

#### Order code

B2924017302  
B3292401702  
B3292401712  
B3292401705

## WRENCH SET



For bench assembly and set-up.

#### Description

WRENCH SET

#### Order code

B2924017990