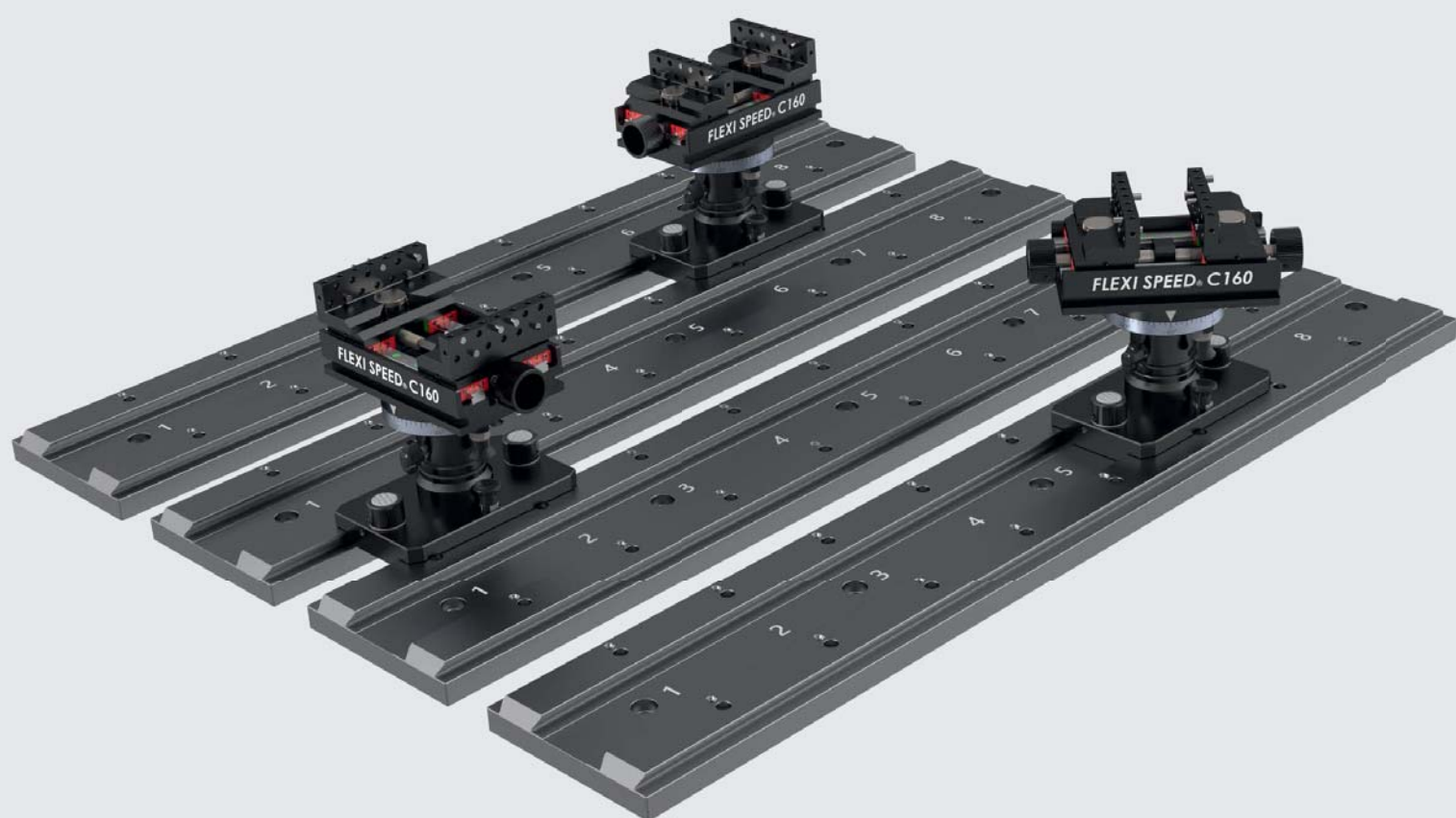




Metal Cutting Solutions



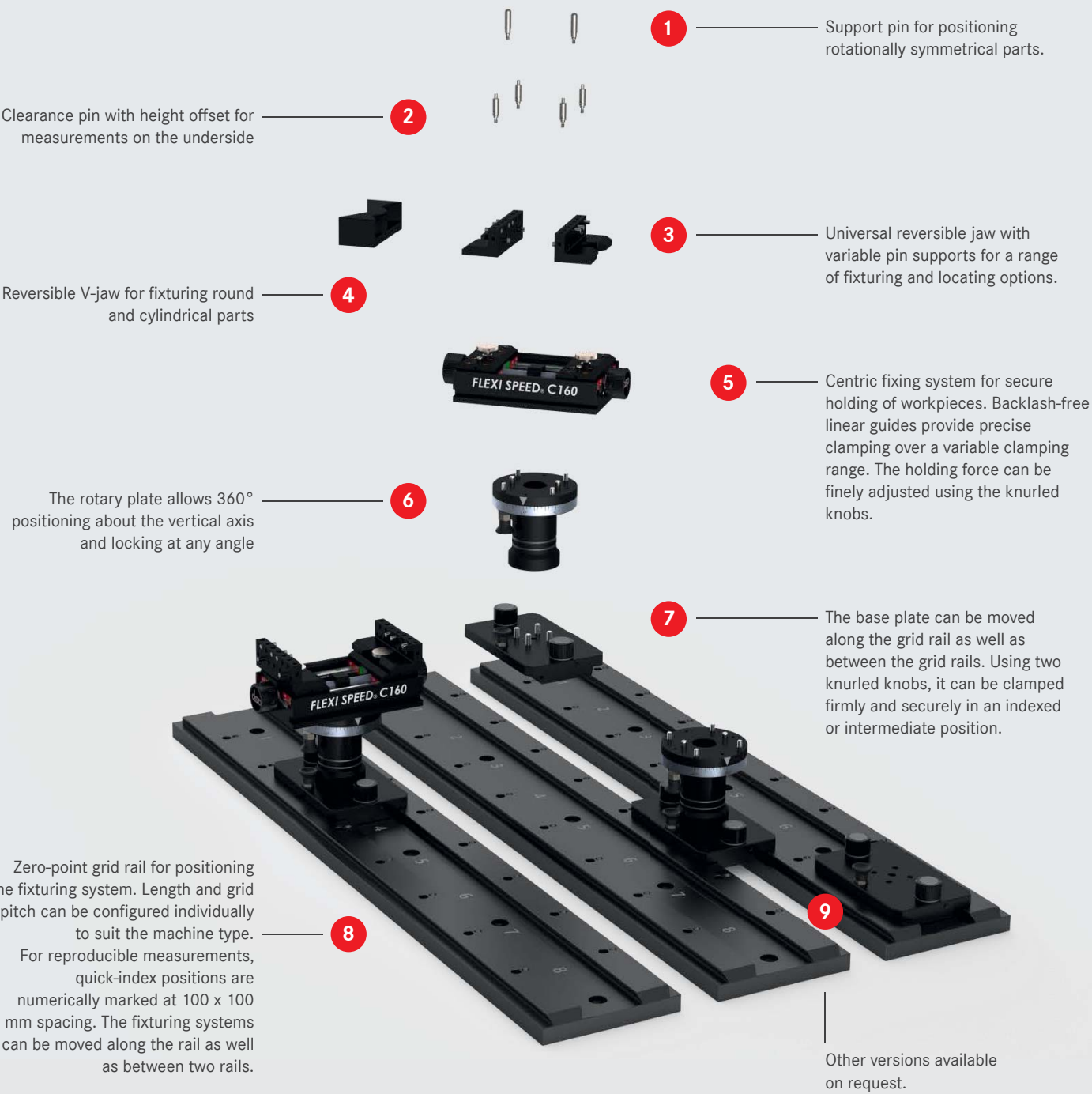
Axon FlexiSpeed

Catalog

Axon FlexiSpeed fixturing system



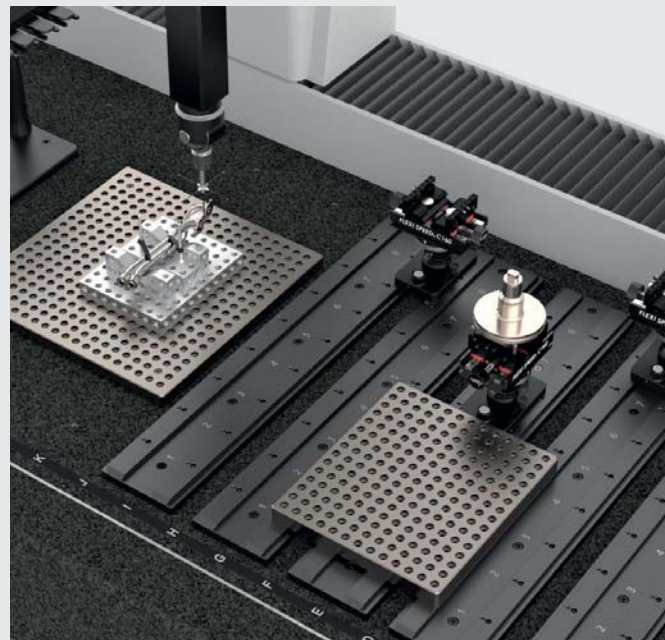
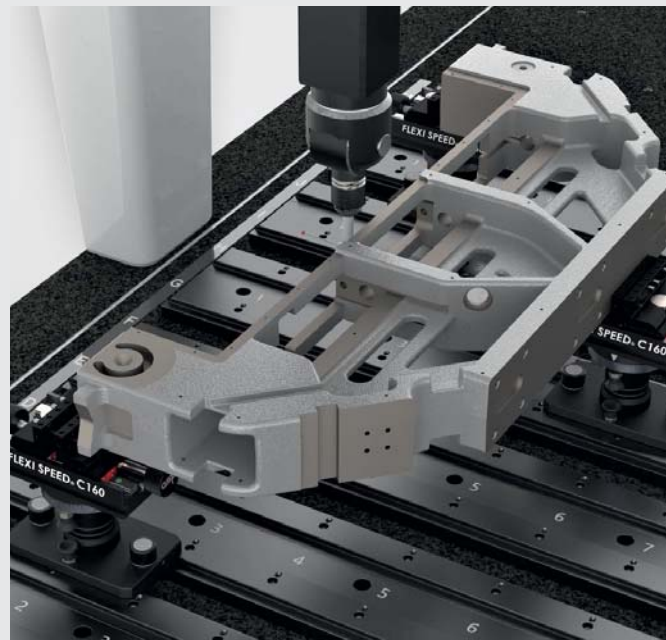
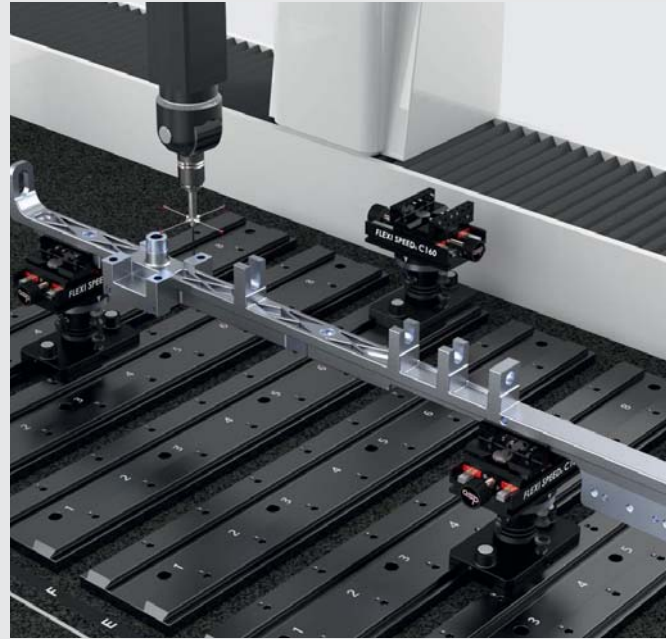
System components



Axon FlexiSpeed is a workpiece fixturing system developed out of metrology practice – for individual parts as well as series parts. Its range of applications is wide: coordinate measuring machines, height gauges, inspection fixtures, and surface and contour measuring instruments. The system is also ideally suited to other fields, such as assembly technology.

The modular design comprises the grid rail, the base with connector and the C160 centric fixing system. Axon FlexiSpeed is a practical, well-engineered system that can also be used in combination with fixtures already in service. Customised configurations to suit specific customer requirements are available.

Benefits of Axon FlexiSpeed for metrology



Components for optimisation



GRID RAIL

The zero-point grid rail ensures precise positioning of the fixturing system. Length and grid pitch can be configured individually to suit the machine type. The rail is designed for a 200 x 200 mm hole grid on the machine table. Quick-index positions are numerically marked at 100 x 100 mm spacing.

The holding systems can be moved along the rail as well as between the rails. Using two central clamping screws, the holding system can be clamped firmly and securely in an indexed or intermediate position – without tools.

Other configurations available on request.



BASE WITH ROTARY PLATE

The rotary base is the link between the fixturing system and the grid rail. The rotary plate allows 360° positioning about the vertical axis and locking at any angle. A 4 x 90° locking detent assists in setting common angular positions.

Quick clamping to the grid rail is achieved via the two knurled knobs on the base plate. An integrated index pin can be used to locate on the 100 mm grid of the grid rail.



CENTRIC FIXING SYSTEM

The centric fixing system holds workpieces securely. Backlash-free linear guides provide precise clamping over a variable clamping range. The holding force is set using the knurled knobs. The special universal reversible jaws give the fixing system a very compact size combined with maximum clamping range, thus minimising interfering contours during measurement.

Thanks to the slim design, good accessibility and optimum use of the measuring volume are achieved even on small CMMs. Sliding pin supports enable a wide variety of fixturing options for the most diverse part geometries.

- Enormous time savings thanks to minimal setup times
- Few system components, maximum output
- Simple, tool-free handling
- Optimum use of the measuring volume thanks to the slim design
- Flexible and versatile fixturing options
- Rigid construction
- Minimal interfering contours on the overall setup
- Precise workpiece fixturing thanks to recirculating ball guides
- Longer CMM run times thanks to multi-part setups
- Other and conventional systems can be integrated

Axon FlexiSpeed

GRID RAIL RS 200

	Item	Description
	RS 200 x L	Zero-point grid rail Scope of supply: 1 x RS grid rail, length L as ordered M10 screws for mounting on the machine table Item weight: 9.20 kg per metre
	L = 400mm	Weight: 3.7 kg/pc.
	L = 500mm	Weight: 4,6 Kg/pc.
	L = 600mm	Weight: 5,5 Kg/pc.
	L = 700mm	Weight: 6,5 Kg/pc.
	L = 800mm	Weight: 7,4 Kg/pc.
	L = 900mm	Weight: 8,3 Kg/pc.
	L = 1000mm	Weight: 9,2 Kg/pc.
	L = 1100mm	Weight: 10,1 Kg/pc.

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C160 SERIES BASES WITH CONNECTOR

	Item	Description
	SDT 160	Base with rotary plate Scope of supply: 1 x rotary plate with rail-mount base plate 4 x M5 mounting screws 2 x Ø5 dowel pins Fully assembled Item weight: 1.70 kg
	SDT 160K	Base with rotary plate, short version Scope of supply: 1 x rotary plate with rail-mount base plate 4 x M5 mounting screws 2 x Ø5 dowel pins Fully assembled Item weight: 1.50 kg
	SFT 160	Base with fixed plate Scope of supply: 1 x fixed plate with rail-mount base plate Fully assembled Item weight: 1.60 kg
	S 160	Base plate Scope of supply: 1 x base plate, fully assembled Item weight: 0.90 kg
	SAF 25-5	Base with 4 x 5 adapter plate, 99 x 125 mm, for Witte ALUFIX AF25 Scope of supply: 1 x adapter plate with rail-mount base Fully assembled Item weight: 1.65 kg



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C 160 SERIES CENTRIC-FIXING-SYSTEM

	Item	Description
	CF 160	Centric-fixing-system Scope of supply: 1 x CF 160 centric-fixing-system Fully assembled Item weight: 1.90 kg
	CFB 160	Centric-fixing-system with universal reversible jaws Scope of supply: 1 x CF 160 centric-fixing-system 2 x AWB 160 universal reversible jaws Fully assembled, Item weight: 2.70 kg
	AWB 160	Universal reversible jaw Scope of supply: 1 x top jaw with 4 support pins Item weight: 0.40 kg
	PWB 160	Reversible V-jaw Scope of supply: 1 x reversible V-jaw Item weight: 0.45 kg
	RWB 160	Reversible jaw blank Scope of supply: 1 x RWB 160 reversible jaw blank 1 x M8x1 mounting screw Pack of 2 supplied as a set Weight per jaw: 0.35 kg
	PSB 160	Sliding V-jaw Scope of supply: 1 x PSB 160 sliding V-jaw Item weight: 0.17 kg
	RTP 160	Grid support plate Scope of supply: 1 x RTP 160 grid support plate 1 x M8x1 mounting screw Item weight: 0.35 kg

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160 SERIES ACCESSORIES

	Item	Description
	SAS 18	Sliding support pin for AWB 160 Scope of supply: Pack of 4 supplied as a set
	APS 13	Locating shoulder screw Scope of supply: Pack of 3 supplied as a set
	AS 25	Support pin Scope of supply: Pack of 4 supplied as a set
	FS 23	Clearance pin Scope of supply: Pack of 3 supplied as a set
	MLR 100	Mounting gauge for grid rails Scope of supply: Pack of 2 supplied as a set



Axon FlexiSpeed

C160 SERIES SYSTEM KITS

Item	Description
	KIT 1-1 Starter Kit comprising: 1 x CFB 160 centric-fixing-system 1 x SDT 160 base with rotary plate 1 x RS 200 grid rail, L = 800 mm plus: 1 set AS 25 support pins 1 set FS 23 clearance pins Total weight: 12.0 kg
	KIT 1-2 Eco Kit comprising: 1 x CFB 160 centric-fixing-system 1 x SDT 160 base with rotary plate 2 x RS 200 grid rails, L = 800 mm plus: 1 x PWB 160 reversible V-jaw 1 set AS 25 support pins 1 set FS 23 clearance pins Total weight: 20.0 kg
	KIT 2-3 Comfort Kit comprising: 2 x CFB 160 centric-fixing-systems 2 x SDT 160 bases with rotary plate 3 x RS 200 grid rails, L = 800 mm plus: 1 x PWB 160 reversible V-jaw 1 set RWB 160 jaw blanks 1 set AS 25 support pins 1 set FS 23 clearance pins 1 set APS 13 locating shoulder screws 1 set MLR 100 mounting gauges Total weight: 33.0 kg

Item	Description
	KIT 3-4 Pro Kit comprising: 3 x CFB 160 centric-fixing-systems 3 x SDT 160 bases with rotary plate 4 x RS 200 grid rails, L = 800 mm plus: 1 x PWB 160 reversible V-jaw 1 set RWB 160 jaw blanks 2 sets AS 25 support pins 2 sets FS 23 clearance pins 1 set APS 13 locating shoulder screws 1 set SAS 18 sliding support pins 1 set MLR 100 mounting gauges Total weight: 45.0 kg
	KIT 4-3-5 Pro Plus Kit comprising: 4 x CFB 160 centric-fixing-systems 4 x SDT 160 bases with rotary plate 3 x S 160 base plates 5 x RS 200 grid rails, L = 800 mm plus: 2 x PWB 160 reversible V-jaws 2 sets RWB 160 jaw blanks 2 sets AS 25 support pins 2 sets FS 23 clearance pins 2 sets APS 13 locating shoulder screws 2 sets SAS 18 sliding support pins 1 set MLR 100 mounting gauges Total weight: 60.5 kg



About Axon



We are a modern, innovative sales and service company for CNC machine tools, laser machines and automation. Since 2003, we have been serving more than 2,000 satisfied customers from our headquarters in Schorndorf, Swabia.

Our roots are in mechanical engineering – today we also see ourselves as a service and solutions provider across your entire production process: from CNC machine tools and laser machines, through automation solutions for automated loading and unloading, to our own fixturing systems for coordinate measuring machines.

It is our aim to keep all spare parts for our Axon machines in stock and available ex warehouse. In our showroom, innovative machines and automation systems can be seen in operation at any time.

During your visit to Schorndorf, an applications engineer will advise you on how to turn your technical ideas into a realistic solution – based on the latest technologies and machines.

Our own service technicians are trained on our CNC machine tools and laser machines and are on call for you throughout Germany. Our service hotline provides expert advice, and in many cases problems can be solved directly over the phone.

Axon is an owner-managed company focused on quality and close customer relationships. Alongside our high level of customer satisfaction, we place great value on fast, uncomplicated service. That is what makes us the right partner for you – for the long term.

We look forward to your visit to Schorndorf.
Your Axon team

Our service

Telephone service
The AXON service line offers advice, diagnosis and assistance – on all working days from 8 a.m. to 5 p.m.

Service hotline: +49 7181 9927-200
Email: service@axon-mcs.de



Maintenance
Minimise the risk of machine downtime and extend the service life and value of your machine with contractually agreed service and maintenance intervals. Following inspection and assessment, assemblies can be overhauled or replaced in good time before problems arise. Our central service desk takes your enquiries by phone or email and helps you immediately – quickly and without complication.

Training
Properly trained operators ensure the efficient use of your machines, their longevity and error-free machining of your workpieces. We pass on this knowledge quickly and practically – on request, on site at your machine.

- Training and qualification of your operating staff
- Training on site at the customer’s premises or at the manufacturer
- Programming optimisation
- Electrical maintenance
- Mechanical maintenance

Service
As your service partner, Axon Services GmbH helps you restore the availability of your machines as quickly as possible in the event of a breakdown. Axon is also committed to always offering its customers affordable terms.

- Diagnosis, assistance and advice via the service line
- Modern inventory and service-call management
- Specially trained Axon repair team (centrally coordinated)

Axon Services GmbH

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