

Datasheet



Features at a glance

- With ATS splined telescopic shafts in combination with GCC cardan joints, it is possible to transmit torque and movement easily and precisely from two shaft ends at high speeds.
- Due to the telescopic length adjustment, the shaft misalignment can be compensated, and the rotary movements can be transmitted without clearance.
- High reliability, maintenance-free, extremely precise, and easy-of-use.
- Suitable for intermittent (UI) and continuous (UC) operation in combination with GCC cardan joints.
- Torque from **25 Nm** to **50 Nm**.
- Telescopic shaft and cardan joint made entirely of solid stainless steel (AISI 303).
- Sliding bushes made of self-lubricating plastic material.
- Flexible application possibilities with angular gearboxes, gear-reducers, and screw jacks.
- Universally applicable and ideal for retrofitting existing installations.

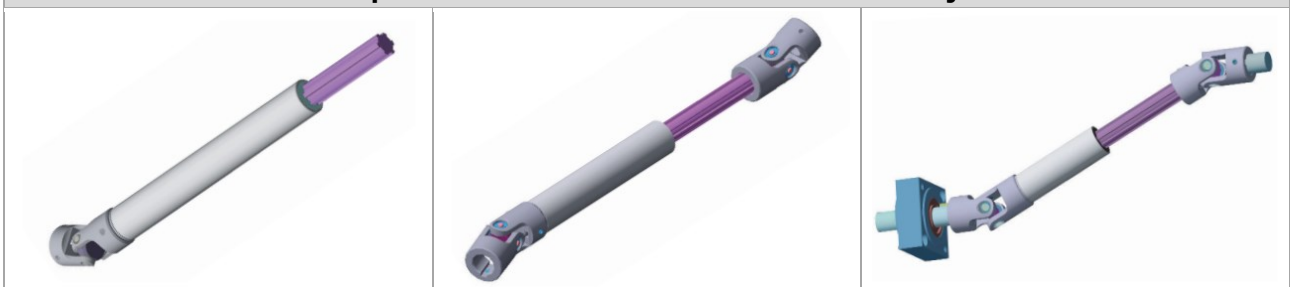


Our ATS splined telescopic shafts are available in combination with **GCC14** and **GCC20** cardan joints, to transmit movements of non-aligned elements and to compensate misalignments.

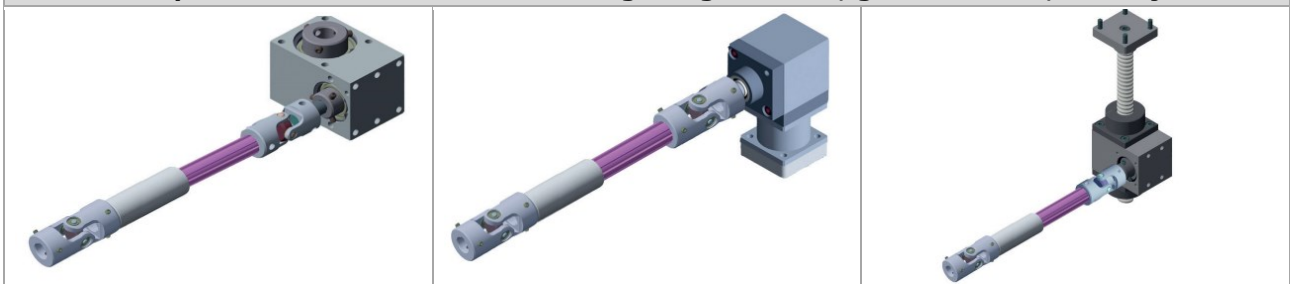
Application examples

The telescopic shafts are ideal to connect two elements with a constant or variable center to center distance; also available in combination with GCC cardan joints to compensate an offset between the axes.

Telescopic shafts in combination with GCC cardan joints

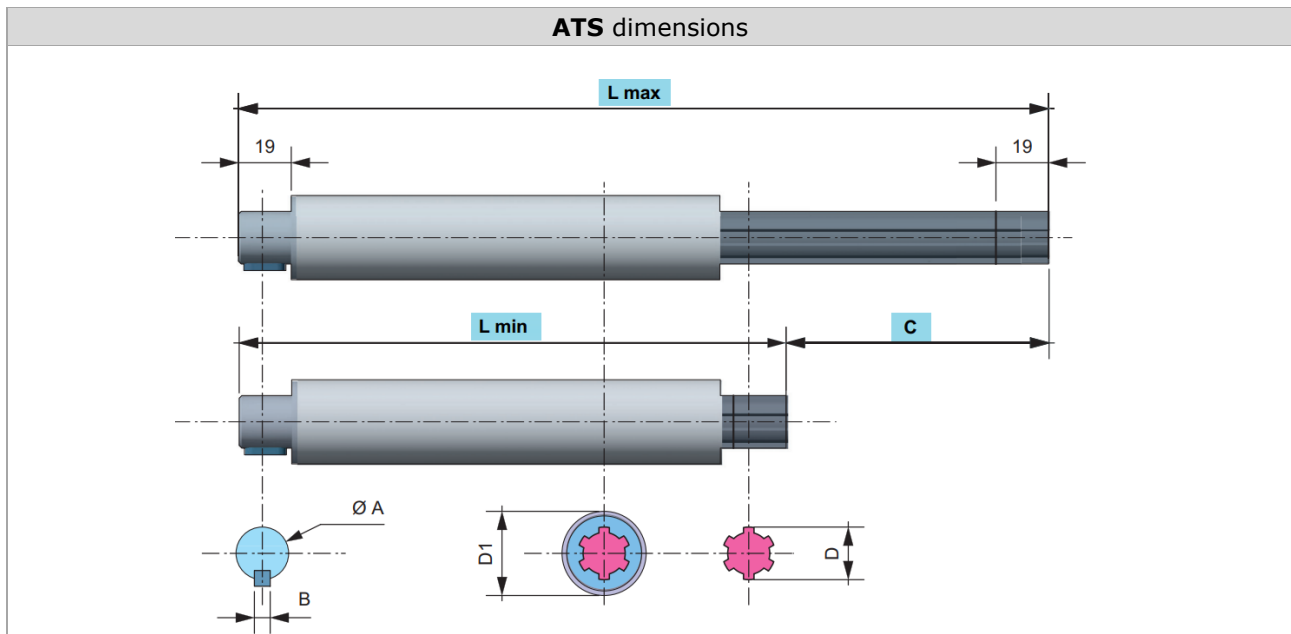


Telescopic shafts in combination with angular gearboxes, gear-reducers, screw jacks



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Dimensions



All dimensions in mm

Version	L max	L min	C	D	D1	ØA	B
ATS14	-----	-----	-----	14	Ø22	Ø14	5
ATS20	-----	-----	-----	20	Ø32	Ø20	6

L max (maximum length) = **L min** + **C**

L min (minimum length) = **L max** - **C**

C (extension length) = **L max** - **L min**

Efficiency table

Version	ATS efficiency	
	max. Torque	max. Speed
ATS14	25 Nm	2000 rpm
ATS20	50 Nm	1500 rpm

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Ordering example

Type **ATS14** - **700** - **600** - **100**
ATS

Version (diameter $\varnothing A$ of the telescopic shaft)

14 = $\varnothing 14$ mm

20 = $\varnothing 20$ mm

Maximum length ¹⁾

----- = **L max** (maximum length of the telescopic shaft in mm)

Minimum length ¹⁾

----- = **L min** (minimum length of the telescopic shaft in mm)

Extension length ¹⁾

----- = **C** (extension length in mm)

¹⁾ Please specify the dimensions for the required length in mm.



Other versions that cannot be generated from the order code are available on request as special versions.

Our ATS splined telescopic shafts are available in combination with **GCC14** and **GCC20** cardan joints, to transmit movements of non-aligned elements and to compensate misalignments. Please order GCC cardan joints separately. For more information on our GCC cardan joints, please refer to the corresponding data sheet.

Manufacturer:  **FIAMA**
since 1913

The manufacturer reserves the right to make changes to the products that it deems necessary for their improvement without prior notice.

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Areas of application

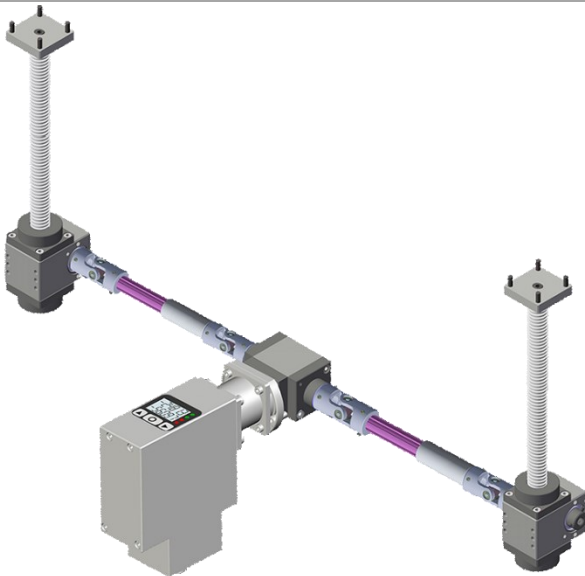
ATS splined telescopic shafts in combination with GCC cardan joints, are used in a wide range of industries and systems, ideal for retrofitting existing installations:

- remote operation of elements
- filling and packaging machines
- palletizers
- sliding doors and closures
- textile machines
- connection of lifting jacks
- printing machines
- machine tools
- food processing machines
- automotive systems (remote opening of valves, seat adjustment, window mechanism operation)
- paper machines
- automatic assembly machines
- linear multi-axis systems

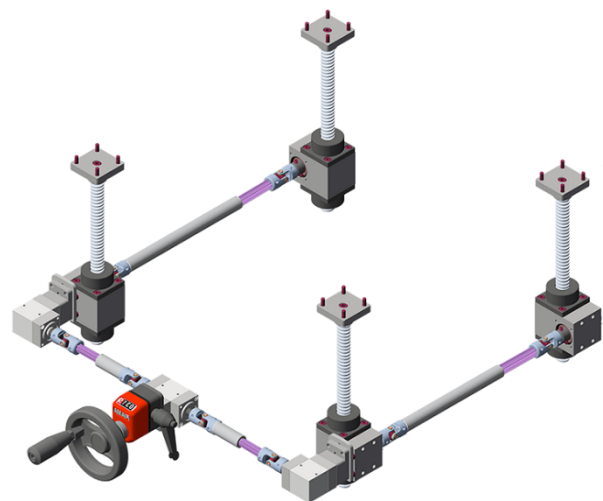
Combinable devices - coupling via telescopic shaft with cardan joints

Flexible application possibilities with various position indicators, angular gearboxes, gear-reducers, screw jacks.

ATS combinable devices



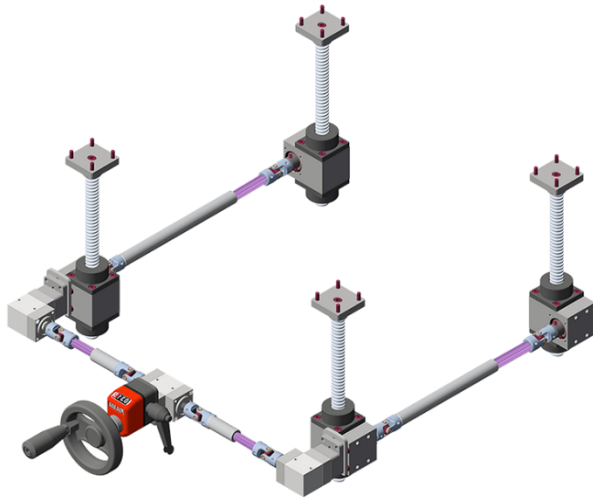
ATS_ telescopic shaft with **GCC_** cardan joints, **SERVO.ALL** drive and position control system, **MAR_** gear-screw jacks, lifting and actuation system



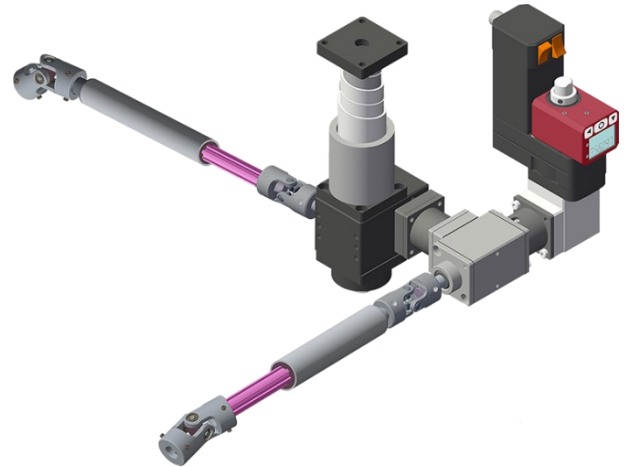
ATS_ telescopic shaft with **GCC_** cardan joints, **OP_** mechanic digital spindle position indicator, **FKE_** shaft clamping flange, **P_** hand wheel for manual adjustment, series **66/_** angular gearboxes, **MAR_** gear-screw jacks, lifting and actuation system

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ATS combinable devices

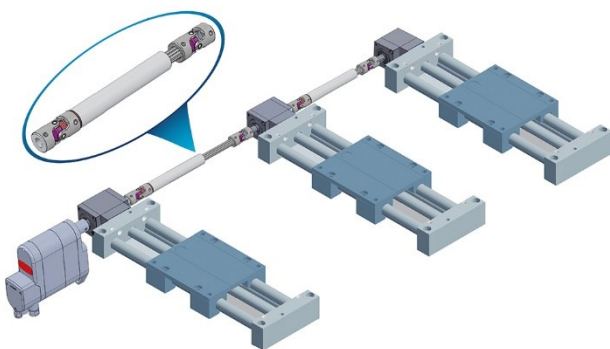


ATS_ telescopic shaft with **GCC_** cardan joints, **OP_** mechanic digital spindle position indicator, **FKE_** shaft clamping flange, **P_** hand wheel for manual adjustment, series **66/_** angular gearboxes, **MAR_** gear-screw jacks, lifting and actuation system

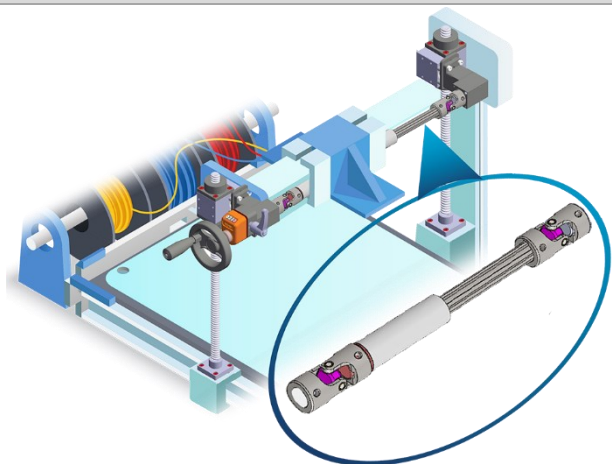


ATS_ telescopic shaft with **GCC_** cardan joints, **SERVO.OP** electronic rotary actuator with position indicator, **EP4_** programmable electronic-digital spindle position indicator, **MAR_** gear-screw jacks, lifting and actuation system, series **66/_** angular gearboxes and **RDE_** planetary gear-reducers

ATS combinable devices



System for linear adjustment: **ATS_** telescopic shaft with **GCC_** cardan joints combined with **SERVO.M** electronic rotary actuator with position indicator and series **66/_** angular gearboxes



System for cutting meter goods to length: **ATS_** telescopic shaft with **GCC_** cardan joints combined with **OP_** mechanic digital spindle position indicator, **FKE_** shaft clamping flange, **P_** hand wheel for manual adjustment, **MAR_** gear-screw jacks, lifting and actuation system and series **66/_** angular gearboxes