

Engine Turning Mechanism

300/500/800 series

Gali

DV-CA_en-b



300 Series

500 Series

800 Series

The **turning mechanism** is designed **for engine assembly and maintenance operations**. It's **self-locking device securely holds the engine** in position thanks to a high reduction ratio. A **remote control enables** the operator **to perform maintenance** tasks independently, without the need for assistance.

For use as a **portable engine alignment tool** for technicians and on-board operation. **Manual, pneumatic or electrical drives are available**. Attachment to the engine flywheel housing **is achieved** by means of an **SAE 3 flange** or a **separate bracket mounted on the engine**.

PART	300 series	500 series	800 series
Pinion	Same part number		
Flange	Different	Same part number	

Features include:

- **Integrated pneumatic/electrical safeguards** for **blocking starting facilities** for all standard starters.
- **Integrated air connection** and **electrical limit switch**.
- **Manual engagement of the pinion** into the flywheel gear ring by **actuating the pneumatic safeguards**.
- **Manual engagement of the worm-gear drive** by actuating the electrical safeguard.
- **Worm-gear drive can be removed and used as a tool**, for multiple engine installations.
- **Reversible sense of rotation**.
- **Self-locking function** ensures retention by friction in both directions.
- **Protection cover** in place of the worm-gear drive.
- **Protection tube** for the engagement spindle.

TECHNICAL DATA

Model	300 series	500 series	800 series
Admissible output torque	0 – 300 Nm	0 – 500 Nm	0 – 800 Nm
Transmission ratio	i = 39	i = 40	i = 62
Constant drive torque (μ60%)	15 Nm	25 Nm	26 Nm
Drive at 430/760 min ⁻¹ , E-Motor	1,1 kW	1,3 kW	2,5 kW
Maximum Pinion RPM at 430/760 min ⁻¹	17 min ⁻¹	15 min ⁻¹	8 min ⁻¹
Weight without worm-box	10 kg	13 kg	22 kg
Weight of worm-box including E-Motor	7,5 kg	9 kg	18 kg
Gear with self-blocking device	Yes	Yes	Yes
Maximum system pressure	40 bar	40 bar	40 bar
Max. output torque, continuous rating	300 Nm	500 Nm	800 Nm
Max. output torque, break away	340 Nm	690 Nm	1300 Nm
Weight	≈18 kg	≈22 kg	≈40 kg

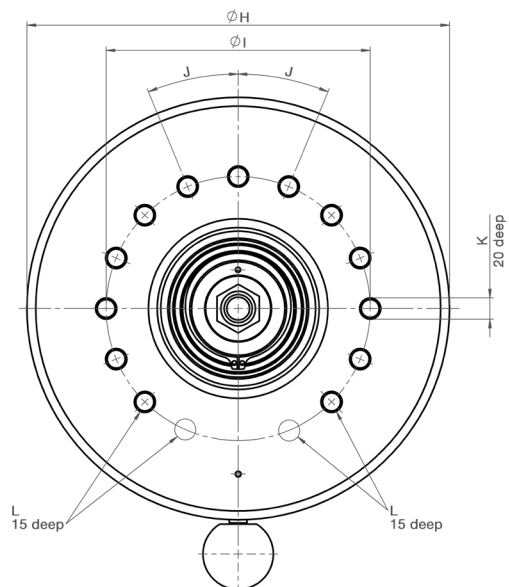
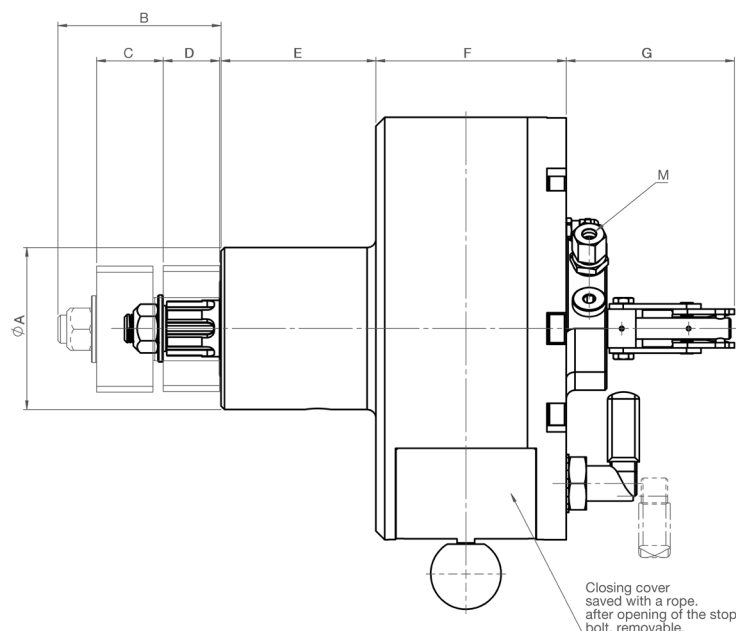
Pneumatic and electric safeguard against inadvertent starting

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Pos.	300 series	500 series	800 series
A		Ø92	
B		93 mm	
C		38 mm	
D		32 mm	
E		88 mm	
F		108 mm	
G		96 mm	

Pos.	300 series	500 series	800 series
H	Ø150	Ø178	Ø240
I	Ø127,2	Ø150	
J	Ø22,5°		
K	M12 (11x)		M12 (13X)
L	M12		
M	Ø NW 8		

Electric or pneumatic drivers to operate our turning mechanism.

Electric driver

We supply our electric drivers as complement to our turning devices, with different power range depending on each installation.

Pneumatic driver

Our pneumatic driver is an option to our electric drivers for installations where the electric connections are difficult or needed a longer working time.



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