

LT300 SERIES LOWER TILT AND TELESCOPE STEERING COLUMNS



**SETTING
A NEW
DIRECTION**

STEERING SYSTEMS

Kongsberg Automotive is one of the world's leading suppliers of modular and custom engineered steering systems for off-highway vehicles. Our products are in use today in a wide range of agricultural, material handling and construction vehicles manufactured by market leading OEMs across Europe and America.

The Kongsberg Automotive LT300 Series Lower Tilt and Telescope Column has been specifically designed for use in vehicle cabins where space is at a premium and/or where seat rotation is required, providing maximum comfort, convenience and steering performance for the driver.



AT A GLANCE

- Fully developed, tooled up and tested components and assemblies which meet all legislative and durability requirements
- High component commonality for optimized tooling and manufacturing efficiency and reduced lead times to production
- Variable length shaft
- Low tilt point with foot pedal release and 30° tilt angle with infinite positioning
- The foot bracket can be fitted to the steering pump, to the floor or to the low tilt point to provide maximum comfort and convenience
- Variable steering shaft, foot bracket and spline end
- Endorsed by major OEMs

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STANDARD PRODUCT SPECIFICATIONS

MECHANICAL AND STRENGTH DATA

- The steering column is a self supporting design, connected to the front wall or the floor by a flange. It can also be connected directly to the steering pump. The column is designed to withstand the following conditions:
 - The complete steering column, including the tilt locking device, can resist a force of 1000N in the plane of the steering wheel without causing permanent deformations.
 - Maximum torque to start angular motion is 0.5 Nm.
 - The steering shaft will withstand a torque of 150 Nm without permanent deformation. The rupture torque is minimum 300 Nm.

TILT

- Rotates in an angle of 30 ° with infinite positioning.

TILT POINT

- The tilt point is 60mm above the connection surface. Minimum distance between the tilt centre and serration for the steering wheel is 300mm.

MATERIAL

- The steering column tubes and shafts are fabricated from steel in accordance with the appropriate EN standards.

SURFACE TREATMENT

- The tube is coated with hexavalent chrome free coating, Fe/Zn8C4.

STANDARD ISO 5010

- The specification of the steering column is according to ISO 5010.

TEST AND VALIDATION

- All steering columns are tested and validated according to our global product specifications.

MODULAR OPTIONS:

For quantities in excess of 300 units, Kongsberg Automotive offers a full range of modular features, including:

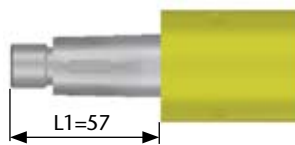
- Shaft length as specified by the customer
- Cable release option
- Connection to floor and pump as specified by customer
- Integration of travel controls, indicator switches, etc.

STANDARD OPTIONS

STEERING COLUMN TYPE	STEERING WHEEL CONNECTION	PART NO.	STANDARD COLUMN LENGTHS (L2)				OPTIONAL COVER/BELLOWS	
			400MM	500MM	600MM	700MM	WITH COVERS & BELLOWS	WITHOUT COVERS & BELLOWS
LT300 Series	A01	21494	-400	-500	-600	-700	n/a	-0
Lower Tilt Column	A04	21495	-400	-500	-600	-700	n/a	-0
	A05	21496	-400	-500	-600	-700	n/a	-0

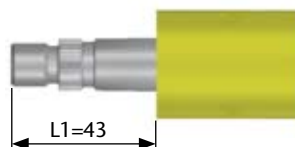
A01

Shaft diameter: 25mm
Cone: 1:20
Woodruff Key (+ washer & nut)
Thread: M18x1,5 - 6g



A04

Shaft diameter: 25mm
Cone: 1:19,26
Serration: 7/8" -36
Thread: M18x1,5 - 6g



A05

Shaft diameter: 20mm
Cone: 1:3,43
Serration: 5/8" -36
Thread: M14x1,5 - 6g

