

Setting a New Direction

Steering Systems - FC100 Fixed Steering Columns



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
- Direct fitting to steering pump or floor with no requirement for support bracket
- Variable steering shaft, foot bracket and spline end
- Easily packaged into any driver compartment
- Endorsed by major OEMs

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 FC100 Series Fixed Column is an entry level high performance product with multiple fitting options designed to support and complement our entire range of steering systems. When fitted with its optional cover, the FC100 column is directly interchangeable with the higher specification tilt or tilt/telescope columns, giving vehicle manufacturers the freedom to offer their customers the steering options to suit their requirements.

FC100 SERIES FIXED STEERING COLUMNS

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:
 - 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.

MATERIAL

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

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 the Kongsberg Automotive global product specifications.

MODULAR OPTIONS:

For quantities in excess of 300 units, Kongsberg Automotive offers a full range of modular features for the FC100 as specified by the customer, including:

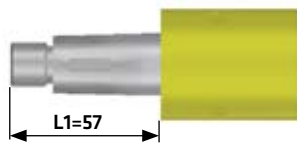
- Shaft length
- Connection to floor and pump
- Connection to steering wheel
- Integration of travel controls, indicator switches, etc.

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
FC100 Series	A01	21488	-400	-500	-600	-700	-1	-0
Fixed Column	A04	21489	-400	-500	-600	-700	-1	-0
	A05	21490	-400	-500	-600	-700	-1	-0

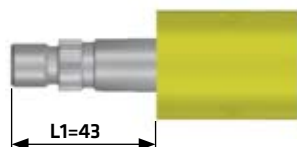
A01

Shaft diameter: 25mm
Cone: 1:20
Woodruff Key (+ washer Et 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

