



AT A GLANCE

- > KA'S UNIQUE MODULAR, SELF-SUPPORTED DESIGNS
- > MODULAR BUILDING BLOCKS FOR TILT AND TELESCOPE FUNCTIONS
- > VARIABLE STEERING COLUMN LENGTH
- > VARIABLE POSITION OF TILT AND TELESCOPE
- > VARIABLE ANGLES FOR TILT FUNCTION AND STEP IN AND STEP OUT POSITIONS
- > TILT LOCKING SYSTEM, INCREMENTAL OR INFINITY LOCKING
- > TELESCOPE FUNCTION WITH INFINITE
 POSITIONING, LOW OR HIGH TELESCOPE
 POSITIONS COMPATIBLE WITH ALL TYPES
 OF STEERING WHEEL CONNECTIONS
- > SINGLE HAND LEVER, FOOT PEDAL OR CABLE OPERATED RELEASE
- > COMPATIBLE WITH ALL TYPES OF HYDRAULIC PUMP INTERFACES
- > VIBRATION DAMPING SYSTEMS
- > OPTIONAL DRIVER CONTROL MODULES, SWITCHES, HORN MODULE, COVERS AND DISPLAYS

PRODUCT DESCRIPTION

Kongsberg Automotive offers a full range off fixed, tilt and telescopic steering columns, designed to withstand the most challenging environments for off-road vehicles. With our unique modular design, all columns provide best-in-class ergonomic working conditions for the driver.

BENEFITS

- > Fully developed, tooled up and validated concepts
- > Minimal capital and design investment

- > High component commonality, enables short lead time on launches and modification
- > Unique modular design our steering column range enables best-in-class ergonomic working conditions for the driver
- > Highly experienced engineering and manufacturing team with over 20 years of market & product knowledge

Kongsberg Automotive offers completely tailored steering columns from our modular system according to customer specifications with full in-house design, development and validation services.



PRODUCT SPECIFICATIONS

FIXED AND TELESCOPE COLUMNS



TILT COLUMNS



GENERAL SPECIFICATION

ALL COLUMNS CAN BE SPECIFIED BY CUSTOMER, INCLUDING:

- > COLUMN LENGTH (FROM 100MM TO 700MM)
- > CONNECTION TO STEERING WHEEL, Ø 20 AND 25 WITH DIFFERENT CONES AND SERRATIONS
- > TELESCOPE STROKE: 85MM
- > TOP TUBE DIMENSION 45 MM

GENERAL SPECIFICATION

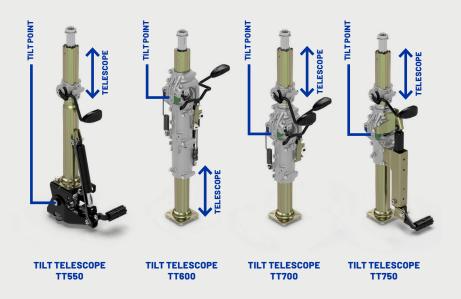
ALL COLUMNS CAN BE SPECIFIED BY CUSTOMER, INCLUDING:

- > COLUMN LENGTH (FROM 100MM TO 700MM)
- > CONNECTION TO STEERING WHEEL, Ø 20 AND 25 WITH DIFFERENT CONES AND SERRATIONS
- > TILT ANGLE AREA: ± 24°, STEP IN / STEP OUT 36/52°
- > TOP TUBE DIMENSION 45 MM



PRODUCT SPECIFICATIONS

TILT AND TELESCOPE COLUMNS



GENERAL SPECIFICATION

ALL COLUMNS CAN BE SPECIFIED BY CUSTOMER, INCLUDING:

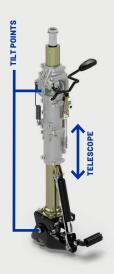
- > COLUMN LENGTH (FROM 100MM TO 700MM)
- > CONNECTION TO STEERING WHEEL, Ø 20 AND 25 WITH DIFFERENT CONES AND SERRATIONS
- > TILT ANGLE AREA: ± 24°, STEP IN / STEP OUT 36/52°
- TELESCOPE STROKE: 85MM
- > TOP TUBE DIMENSION 45 MM

DOUBLE TILT AND TELESCOPE COLUMNS



DOUBLE TILT

XT850





DOUBLE TILT, MID TELESCOPE XT950

DOUBLE TILT, UPPER TELESCOPE XT1050

GENERAL SPECIFICATION

ALL COLUMNS CAN BE SPECIFIED BY CUSTOMER, INCLUDING:

- > COLUMN LENGTH (FROM 100MM TO 700MM)
- > CONNECTION TO STEERING WHEEL, Ø 20 AND 25 WITH DIFFERENT CONES AND SERRATIONS
- > TILT ANGLE AREA: ± 24°, STEP IN / STEP OUT 36/52°
- > TELESCOPE STROKE: 85MM
- > TOP TUBE DIMENSION 45 MM

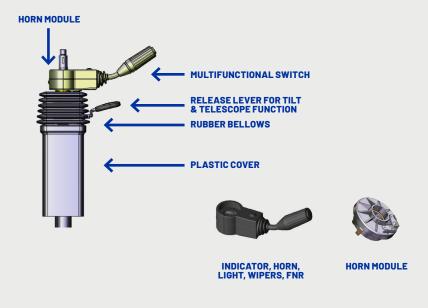


STEERING COLUMN RANGE SUMMARY



STEERING COLUMN FEATURES

- > KA COLUMNS ARE AVAILABLE WITH COVERS,
 BELLOW AND A RANGE OF INTEGRATED SWITCHES
 AND SHIFTERS
- > SWITCHES CAN BE FIXED DIRECT TO THE STEERING TUBE AND POSITIONED WITH INDEX HOLE



GENERAL SPECIFICATION

- > THE SPECIFICATION OF ALL STEERING COLUMNS
 IS ACCORDING TO ISO 5010 AND SAE J1814
- > ALL COLUMNS MEETS KONGSBERG AUTOMOTIVE
 PRODUCT SPECIFICATION FOR OFF ROAD
 VEHICLES, AGRICULTURAL TRACTORS
 AND CONSTRUCTION EQUIPMENT TEST
 AND VALIDATION
- > ALL COLUMNS ARE TESTED AND VALIDATED
 ACCORDING TO KONGSBERG AUTOMOTIVE
 PRODUCT SPECIFICATION AND ABOVE
 MENTIONED STANDARDS