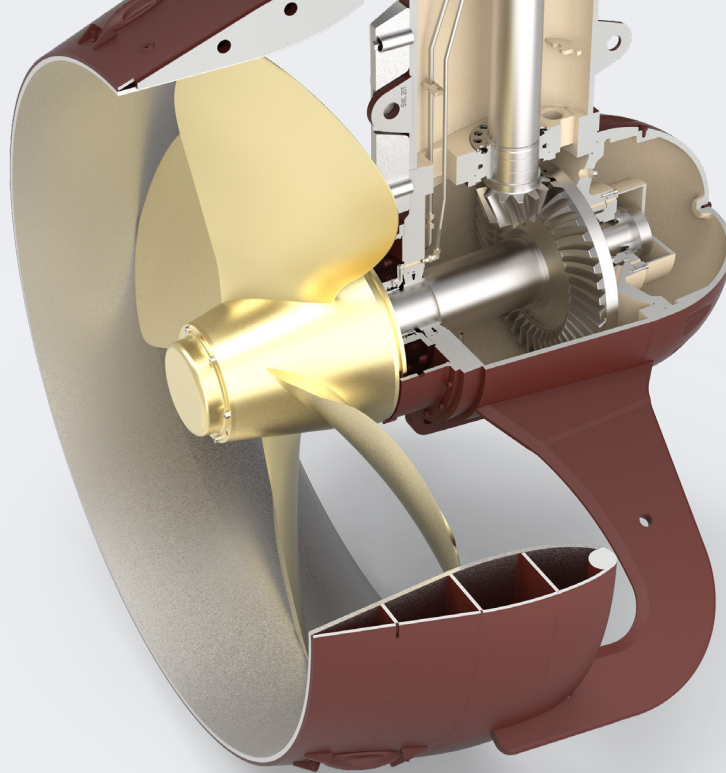


# US AZIMUTH THRUSTER FAMILY



KONGSBERG

## KONGSBERG AZIMUTH THRUSTERS

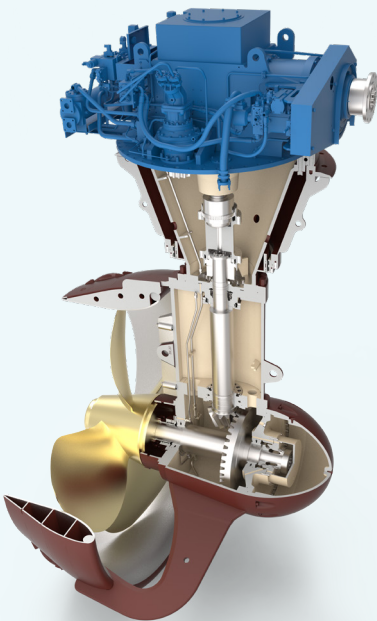
### S-model series for US azimuth thruster family

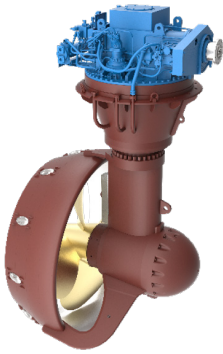
KONGSBERG US thruster family has set the industry standards for decades being one of our all-time most selling propulsion product. US thrusters have been the obvious choice for ship applications where reliability and performance really matters, which is proven by over 9000 globally delivered US units in the past 50+ years. A new chapter of this success story has begun by launching new generation US azimuth thrusters, the S-model series.

Towing industry is one the main market segments for US thrusters. Many tug owners today are more and more interested in the product life cycle costs than the lowest purchase price. Effective shipyards are searching ways to cut both time and costs from boat building processes. The shipping industry sets new standards for performance to be able to tow larger vessels. We have been listening to our customers from each side and created new features accordingly, many of them being a win-win solution for all parties.

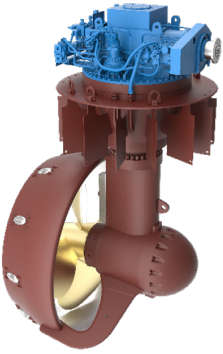
#### Developed together with our customers

The increased bollard pull requirements made us think new ways for extending our existing product model range. During that process we have been also able to find some subjects for constructional optimization thanks to the latest probabilistic design methods.

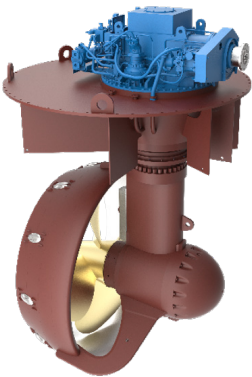




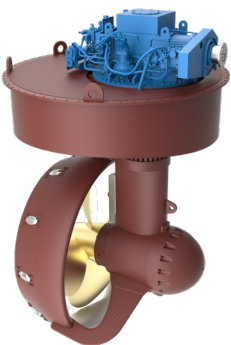
Weld-in Collar installation



Weld-in Spider installation



Bolt-in Bottom well cover installation (open)



Bolt-in Bottom well cover installation (tailored)

## S-model features

- **No support bearing** - Forces affecting to S-model thruster are carried to ship hull through a new type of slewing ring with double row ball bearings. No need to cover support bearing for welding work during installation.
- **Advanced steering tube seal maintenance** - No need to disconnect lower gear during steering tube seal change.
- **New hull fitting options** - In addition to broad range of standard US azimuth thruster installation options “open bottom well cover” and compact “bolted from below” options are also available.
- **Less weight** – Constructional optimization and new material selections have reduced the weight of the unit.
- **Universal lower gear connection** – Standard US thruster lower gear can be replaced directly with the new generation S-model lower gear.
- **Less bolted connections** – More robust structure, less potentially risky connections.
- **Short stem options** – Shorter stem lengths compared to standard US- thrusters available, which is a benefit for example on Tug boats.
- **More bollard pull** – New lower gear design made bigger propeller design possible. US 255S has 3,0m propeller available to create bollard pull over 90 metric tons. US 205S comes with an option for 2,8m propeller and 70 tBP.

**Note:** Always ask for specific dimensional drawings from your KONGSBERG contact as some dimensions may differ between S-model and standard US-thrusters

## TECHNICAL DATA

	205S P18	205S P20	255S P30
Max. power kW	1471	2000	2600
Input speed rpm	750	750-1800	750-1800
Built-in clutch type	On/Off LD slip	On/Off LD slip HD slip	On/Off LD slip HD slip
Propeller dia mm	2200	2200-2800	2500-3000
Stem length mm	2800	3000/3305	3600/3800
Weight tons	12-14	16-21	25-30
Max. BP mtons with 2 thrusters	50	70	91

