



KONGSBERG

# CPX PROPELLER LINES

HIGH QUALITY PROPELLER SOLUTIONS

## KONGSBERG CPX propeller lines

By dividing the world's leading propeller systems into three different offerings, C-Line, P-Line, and X-Line, KONGSBERG can provide high quality propeller solutions fully adapted to all customer specific needs and requirements. KONGSBERG propeller design is based on almost a century of engineering experience and hydrodynamic expertise and contributes to improved safety, reliability, and performance in all conditions.

### KONGSBERG PROPELLER SOLUTIONS

#### C-Line

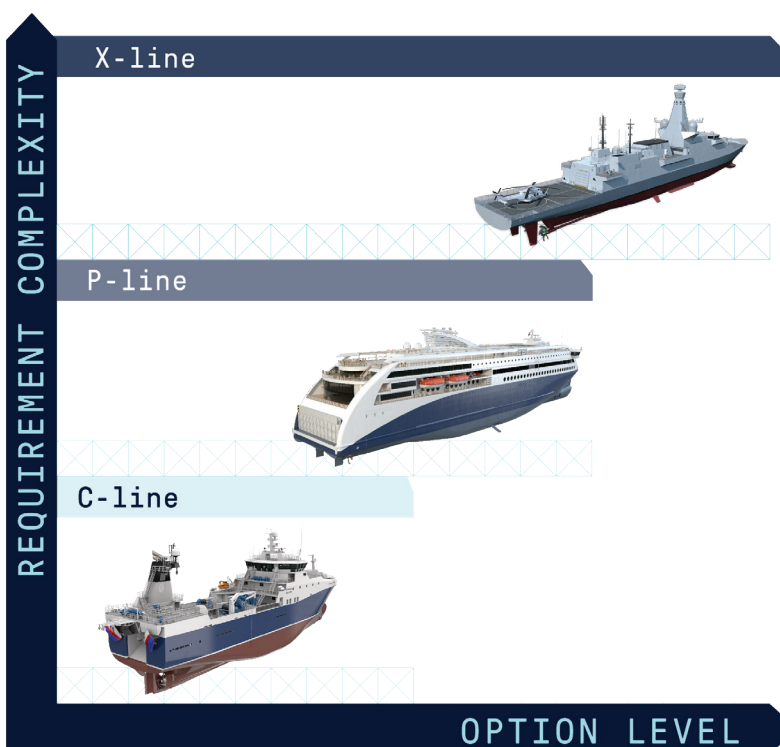
- CONFIGURED solutions for best performance to cost.

#### P-Line

- Engineered solutions for maximised PERFORMANCE.

#### X-Line

- Fully tailored solutions for EXTREME requirements.



X-line



P-line



C-line



OPTION LEVEL

## KONGSBERG CPX PROPELLER LINES BENEFITS

High quality, cost efficient solutions available for all customers

### C-Line

- Short delivery time.
- Proven robust technology.
- Best performance to cost.

### P-Line

- Configured by KM experts.
- High adaptation to customer specific integration requirements.

### X-Line

- Fully tailored solutions where development of new technical and hydrodynamic solutions are created as required.

## C-Line

**Configured** solutions to fit the specific customer vessel. Suitable when short lead times and best performance to cost are prioritised. The C-Line propeller solution is configured within the pre-defined technical limitations based on KONGSBERG's proven performance and world class expertise. The C-Line propeller solution provides a number of possible options, which offers a clear, simple and short decision process.

## P-Line

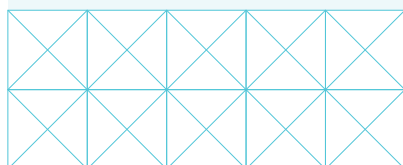
Engineered propeller solutions for maximised world class **Performance**. Suitable when requirements such as high efficiency, noise, and vibration are prioritised. The P-Line propeller solution is engineered with high adaptation to the customer specific integration requirements. The P-Line propeller solution is configured with close contact between the customer and the appointed KONGSBERG project team including unique hydrodynamic expertise. The P-Line propeller solution offers a large number of possible options.

## X-Line

Fully tailored propeller solutions for **Extreme** requirements. Suitable when there is a very high demand on special features and integration requirements. The X-Line propeller solution is configured with close contact between the customer and the appointed KONGSBERG project team including unique hydrodynamic expertise, where development of new technical and hydrodynamic solutions are created as required. With the X-Line propeller solution, there are nearly no limits in option possibilities, almost anything is possible.

## CPX TECHNICAL DATA

	C-Line	P-Line	X-Line
Propeller type	CPP	CPP, FBP, FPP, ABP	Standard type or special
No. of main propulsors	Single or twin	Up to 4	As requested
Propulsion application	Stern propeller	As requested	As requested
Propulsion mounting	Pushing	As requested	As requested
Engine power	≤ 10 MW	≤ 75 MW	Unlimited
Performance	≤ 23 knots	≤ 32 knots	Limited by physics
Ice class	Up to 1AS	All	All
Propeller tolerance	ISO 484 Class I	ISO 484 Class I-S	Special standards, 3D scanning
Hub size Ø cm	46-121	46-202	46-240
No. of blades	4	4, 5	As requested
Blade and hub material	NiAl Bronze	NiAl Bronze, Stainless Steel	NiAl Bronze, Stainless Steel, or as requested
For nozzle applications	19A (default) or InnoDuct (option)	19A, InnoDuct, 37	As requested
For Promas applications	MK II standard	MK II optimised	MK II optimised
Hydraulic system	Standard A1 with options. Applicable with integrated hydraulics.	A or A1, low noise variable piston pumps	As requested
Control system	CanMan C-Line, Closed loop	CanMan, Mcon, Closed loop	CanMan, Mcon, Closed loop or special
Classification society	DNV-GL, BV, LRS	All	All
KONGSBERG warranty	12/18 months	As requested	As requested
Documentation/Manuals	English language (PDF only)	Any language (PDF and printed)	Any language (PDF and printed)
Terms and Conditions	Orgalime + KM amendments or KM T&C	Orgalime or Customer's	Any, also incl. risk sharing
Delivery terms	FCA or CIP	As requested	As requested



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