



CLEEMANN
CHAIR-SYSTEMS

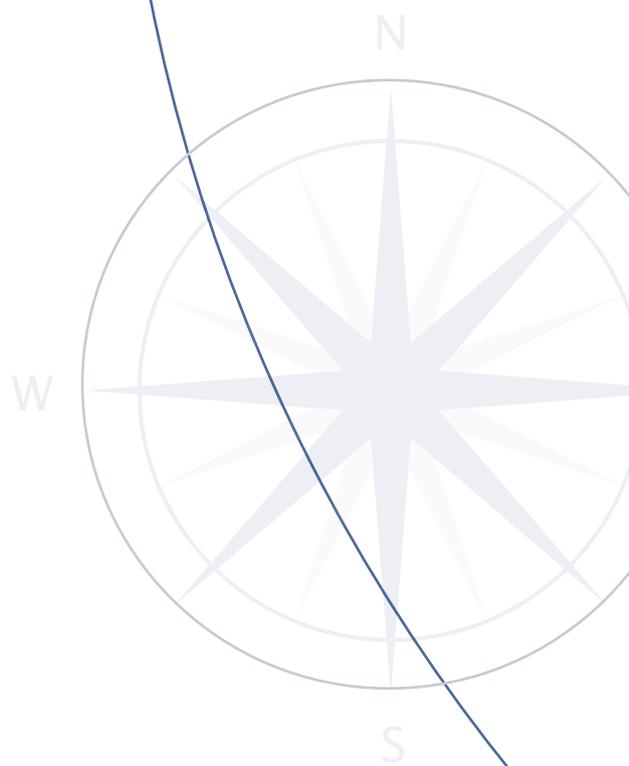
GLOBAL EXPERTS
IN MARITIME SEATING

EDITION 2014



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CLEEMANN – GLOBAL EXPERTS IN MARITIME SEATING



Tested, certified and approved in cooperation with:



References Navy including

- German Navy · German Coast Guard · Finnish Coast Guard · Russian Navy
- Royal Navy of Malaysia · Police Departement V.A.E · Spanish Guardia Civil
- Indish Coast Guard · Hellenic Navy · UK-Coast Guard · Finnish Navy · US-Navy
- Singapore Coast Guard · Chinese Coast Guard · Royal Netherlands Navy

References miscellaneous

- Transas Marine · Furuno · SAM Electronics · Imtech Marine · Telecom Italia
- Technical University Munich · MAN Ferrostahl · Hydrovision · Bombardier
- Kaefer Schiffausbau · R&M Shiptec · Raytheon Marine · CAE Simulators
- Lufthansa Flight Training · SPA Gorizont · AIDA Cruises · MOOG Simulators
- Rheinmetall Defence · BAE Systems

Since 1978, Cleemann Chair-Systems have been providing highly sophisticated, functional and extremely comfortable pilot chair systems to shipbuilders and shipowners all over the world. Being well-known for the high level of flexibility when designing an individual seat application, we have become established a leading company in the market.

Cleemann specialises in purpose built, ergonomic chair solution for a wide range of vessels including navy ships, rescue boats, work boats, luxury yachts and commercial ships. Our chairs are manufactured in accordance with strict ISO quality standards as well as the rules of major international classification societies and defence regulations.

Nowadays Cleemann makes use of the latest Solid Works 3D software in order to present a fast and professional solution when the standard does not fit.

Being situated in Ense/Western Germany, we are performing global presence being supported by trading partners and agents all over the world.

We are an ISO-certified company!



References Shipyard including

- Samsung Heavy Industries · Blohm & Voss · IHI Marine · Daewoo
- Hudong Zhonghua · Shanghai Shipyard · ABG India · Aker Solutions
- Colombo Dockyard · Hyundai Heavy Industries · Yardimci · Balenciaga
- Daewoo Shipbuilding · Bharati Shipyard · Volkswerft Stralsund · Riviera Boats
- HDW Shipbuilding · Rodman Polyships · Volharding · Sedef Shipyard
- Constanta Shipyard · 3. Maj · Thyssen Krupp Nordseewerke · Strategic Marine
- Jiangzhou Shipyard · Fujian Shipbuilding · Baltic Workboats · Wang Tak Eng.
- Flensburger Shipyard · Seaward Marine · Odense Shipyard · Meyerwerft
- Abeking & Rasmussen · Shipyard Rousse · Abu Dhabi Shipbuilding
- Saigon Shipyard · Hanjin Heavy Industries · Cochin Shipyard · Goa Shipyard
- Qingshan Shipyard · Dalian Shipbuilding · Shipyard Gdynia · Weihai Shipyard
- Grandweld Shipyards · TOPAZ Engineering · and many more ...



QUICK FINDER

Our quick finder gives you a first overview of the different seat-models and their key features.

The naming of our seats already includes the most important features. The *Nautic PRO* for example offers lots of comfort and ergonomic design. The *Nautic STAR* however features a heavy duty suspension unit. Please check also the symbol-guide below for more information.



NAUTIC PRO
The Professional

High comfortable, professional helmsman chair in ergonomic design.

→ 6/7



NAUTIC
The Classic

Popular and highly-functional helmsman chair. Strong and proven design.

→ 8



NAUTIC STAR
The Allrounder

With same functions as "Nautic" but with strong suspension system. 12G-Version available.

→ 9



NAUTIC PRO STAR
The Professional Allrounder

With same functions as "Nautic Pro" but with strong suspension system.

→ 10



NAUTIC PRO STAR AIR
The Comfortable

With same functions as "Nautic Pro" but with advanced air damping system.

→ 11



OPERATOR STAR
The Strong

Special mission chair with strong shock absorbing system. 12G-Version available.

→ 12



OPERATOR PRO STAR
The Strong Professional

With same functions as "Operator Star" but with new ergonomic backrest design.

→ 13



SEAMASTER STAR
The Specialist

Highly functional operator seat with strong suspension system.

→ 14



DOLPHIN COMPACT
The Suitable

Compact and foldable operator seat. A space-saving solution.

→ 15

QUICK FINDER



SEAGULL
The Flexible

→ 16

Strong but movable work-chair for pilots and operators with 5-star-leg.



OYSTER
The Compact

→ 17

Foldable seat for wall fastening. Space-saving and convenient.



COMMANDER XXL
The Mastermind

→ 20

Most professional operator seat. Capable to include numerous control units and functions.



COMMANDER XL
The Mastermind

→ 21

High-class operator seat. Capable to include up to 3 control units and screen holders.



COMMANDER L
The Mastermind

→ 22

Mid-class operator seat with sufficient space for smaller controlling equipment.



COMMANDER M
The Mastermind

→ 23

The perfect solution if only one control unit is requested.



NAUTIC STAR CREW
The strong Allrounder

→ 24

A suspended and 12G-tested modular seat concept for crew members on board.



PASSENGER
The Voyager

→ 25

Comfortable and 12G-tested passenger seat with several options.

SYMBOL-GUIDE



PRO
Ergonomical design, comfortable functions



STAR
With strong suspension or shock absorber

Special features:



12 G
Tested acc. to HSC Codes and certified by GL



SHOCK
Tested acc. to Naval shock regulations



Customized
Individual seat configuration possible

NAUTIC PRO

The Professional



Profile

High ergonomical, professional helmsman chair in a brand-new design. Corresponds to the highest standards of ergonomics, comfort and functionality. With just a few adjustments, it turns into a fully customized wheelhouse-chair that precisely meets every captain's individual requirements. The innovative ergonomic basic shape and easy-to-use controls promote a healthy posture at all times.

Recommended application

Large ships such as:
Container, Tanker, MPC, Ro-Ro, Ferry.

Article Code

CCS030

Serial features

- High comfort-backrest
- Foldable armrests
- Seat angle adjustment
- Adjustable backrest
- Seat rotates 360°
- Foldable footrest
- Fabric or real leather, black

Options

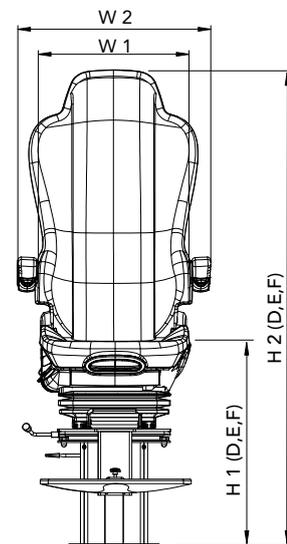
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page *Commander*
- Seat top only
- For direct mounting or mounted on box – see page *Nautic STAR CREW*

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	615-815	1510-1710	500	645
E (mm)	675-935	1570-1830	500	645
F (mm)	765-1115	1660-2010	500	645
fixed (mm)	on req.	on req.	500	645

All measurements rounded. Relevant measurements on technical drawing



THE NAUTIC PRO ... MORE THAN EXPECTED!

NEW
DESIGN | COLUMN | RAIL



12 GOOD REASONS

FOR A CLEEMANN SEAT:

- | | | |
|---|--------------------------------------|----------------------------|
| 1. High quality upholstery with individual logo stitch (optional) | 5. Seat angle adjustment | 9. 360° rotating mechanism |
| 2. Adjustable armrests | 6. Length adjustment of the seat top | 10. Strong Lifting-column |
| 3. Variable seat depth | 7. Adjustable footrest | 11. Deck rail |
| 4. Infinitive height adjustment of the seat top | 8. Adjustable backrest | 12. Ramp-frame |

NAUTIC

The Classic



Profile

This popular and highly-functional helmsman chair offers high comfort to the user. All functions can be operated while seated. The chair is designed according to the ergonomical and technical requirements of leading classification companies. Also available as »ergo-package« with lumbar support and comfort seat cushion for special demands.

Recommended application

Large ships such as:
Container, Tanker, MPC, Ro-Ro, Ferry.

Article Code

CCS020

Serial features

- Adjustable headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°
- Lumbar support
- Foldable footrest
- Upholstery:
fabric or real leather, black

Options

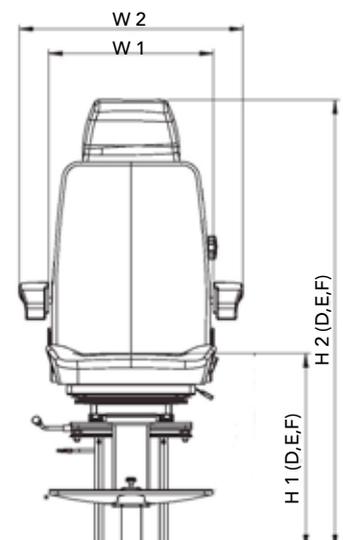
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page *Commander*
- Seat top only
- For direct mounting or mounted on box – see page *Nautic Star Crew*

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	535-695	1310-1470	680	500
E (mm)	595-818	1370-1590	680	500
F (mm)	685-995	1460-1770	680	500
fixed (mm)	on req.	on req.	680	500

All measurements rounded. Relevant measurements on technical drawing





NAUTIC STAR

The Allrounder

Profile

The helmsman chair *Nautic STAR* offers the same functions as the *Nautic* but is additionally equipped with a special suspension system, lumbar support and an individual weight-adjustment for the most comfortable seating even in »rough« seas. Shock tested and 12G-tested version available.

Recommended application

Same as *Nautic* but also for smaller vessels and workboats.

Article Code

CCS021



Serial features

- Mechanical suspension
- Weight adjustment
- Adjustable headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°
- Lumbar support
- Foldable footrest

Options

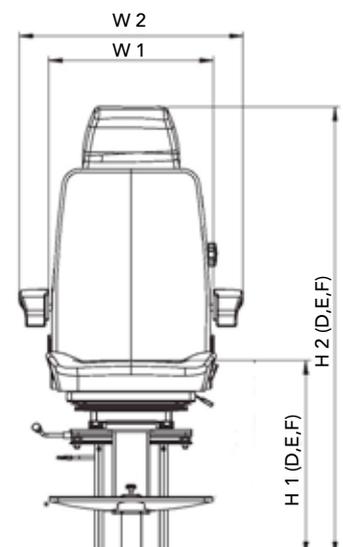
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page *Commander*
- Seat top only
- For direct mounting or mounted on box – see page *Nautic Star Crew*

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	595-755	1370-1530	490	670
E (mm)	655-875	1430-1650	490	670
F (mm)	745-1055	1520-1830	490	670
fixed (mm)	on req.	on req.	490	670

All measurements rounded. Relevant measurements on technical drawing



NAUTIC PRO STAR

The Professional Allrounder



Profile

The helmsman chair *Nautic PRO STAR* offers such functions as the Nautic Pro but is additionally equipped with a special suspension system and an individual weight-adjustment for most comfortable seating even in »rough« sea.

Recommended application

Large ships such as: Container, Tanker, MPC, Ro-Ro, Ferry also for smaller vessels, workboats and Navy

Article Code

CCS031

Serial features

- Mechanical suspension
- Weight adjustment
- High comfort-backrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°
- Lumbar support
- Foldable footrest

Options

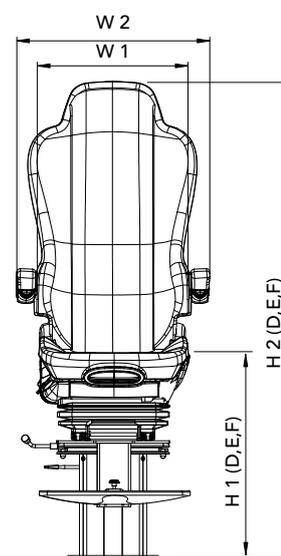
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page *Commander*
- Seat top only
- For direct mounting or mounted on box – see page *Nautic Star Crew*

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	575-735	1350-1510	550	730
E (mm)	635-860	1410-1630	550	730
F (mm)	725-1035	1500-1810	550	730
fixed (mm)	on req.	on req.	550	730

All measurements rounded. Relevant measurements on technical drawing.





NAUTIC PRO STAR AIR

The Comfortable

Profile

The brand new high ergonomical, professional helmsman and operator seat offers the best possible air damping system ensures high-performance even in heavy conditions. This seat corresponds to the highest standards of ergonomics, comfort and functionality.

Also available as non-suspended helmchair – *Nautic PRO* see page 6.

Recommended application

Large ships such as: Container, Tanker, MPC, Ro-Ro, Ferry also for smaller vessels, workboats and Navy

Article Code

CCS032



Serial features

- Advanced air damping system
- Adjustable vertical suspension
- Pneumatical height adjustment
- High comfort-backrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°
- Lumbar support
- Foldable footrest

Options

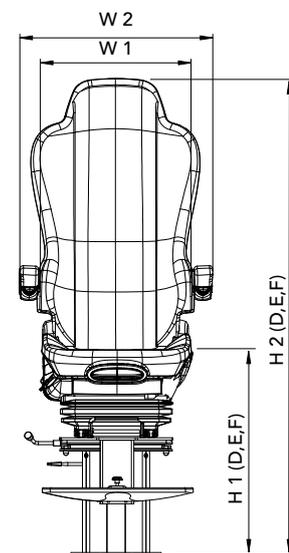
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page *Commander*
- Seat top only
- For direct mounting or mounted on box – see page *Nautic Star Crew*

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	615-815	1510-1710	500	645
E (mm)	675-935	1570-1830	500	645
F (mm)	765-1115	1660-2010	500	645
fixed (mm)	on req.	on req.	500	645

All measurements rounded. Relevant measurements on technical drawing



OPERATOR STAR/IMO

The Strong



Picture shows IMO-Version

Serial features

- Shock absorbing-system
- Weight-adjustment
- Adjustable headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°

Options

- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

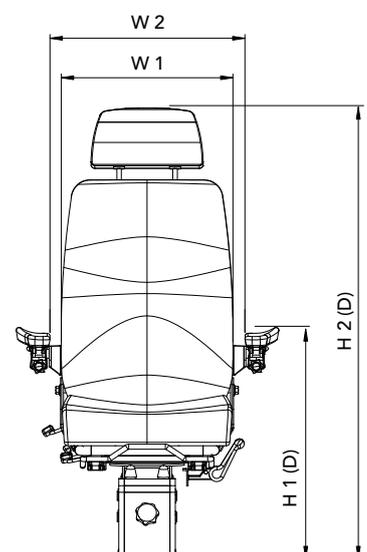
- Deck rail – see page 26-27
- Controller equipped armrest see page *Commander*

IMO-Version

- Tested with 12 G
- 4-point harness belt
- Extra-strong steel-frame

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	430-515	1020-1110	460	640

All measurements rounded.
Relevant measurements on technical drawing.





OPERATOR PRO STAR

The Strong Professional

Profile

Special mission chair for naval and high-speed applications. A very special and strong shock absorbing system combined with a proven mechanical suspension leads to ultimate power in »rough« seas and speedy operations.

Also available with low backrest.

Recommended application

Hightspeed-crafts, Navy, Coast-guard, Patrol-boats, Police-boats.

Article Code

CCS044 Operator STAR – high back

CCS045 Operator STAR – low back

CCS046 Operator STAR IMO

CCS047 Operator PRO STAR



Serial features

- Shock absorbing-system
- Weight-adjustment
- Adjustable headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°

Options

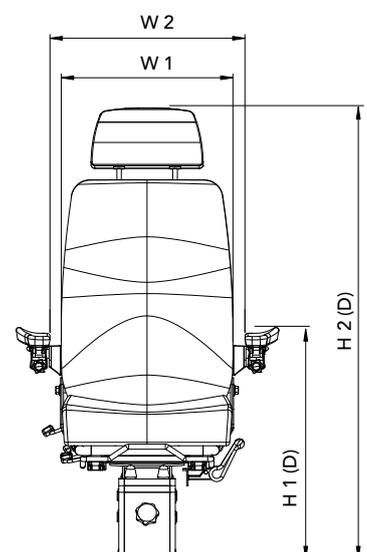
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest see page Commander

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	470-555	1025-1110	470	590

All measurements rounded.
Relevant measurements on technical drawing.



SEAMASTER STAR



The Specialist



Profile

Highly functional operator chair fulfilling all ergonomical and technical requirements. Due to its strong design, and a special shock-absorbing-system often used for special mission-boats and in rough sea.

Recommended application

Naval Ships, Offshore Suppliers, Workboats

Article Code

CCS060

Serial features

- Mechanical suspension
- Weight adjustment
- Adjustable headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°
- Lumbar support
- Foldable footrest

Options

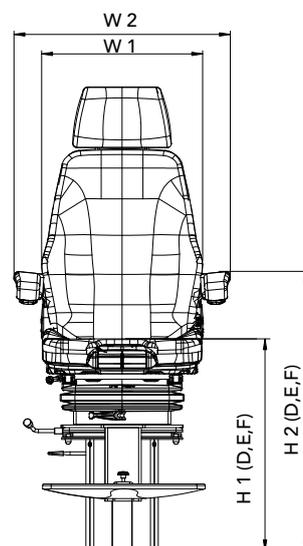
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail – see page 26-27
- Controller equipped armrest – see page Commander
- Seat top only
- For direct mounting or mounted on box – see page Nautic Star Crew

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	590-750	1260-1420	490	660
E (mm)	650-870	1420-1580	490	660
F (mm)	740-1050	1510-1820	490	660
fixed (mm)	on req.	on req.	490	660

All measurements rounded. Relevant measurements on technical drawing.





DOLPHIN COMPACT

The Suitable

Profile

Compact and space-saving seat for different applications on board. Due to its swivel mechanism in combination with the fold-away seat cushion the *Nautic Compact* offers an ideal solution for close bridge cabs.

Recommended application

All ships

Article Code

CCS091



Serial features

- High comfort-backrest with integrated headrest
- Foldable armrests
- Adjustable backrest
- Seat rotates 360°

Options

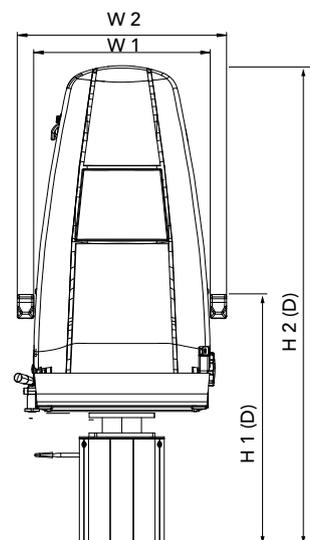
- Foldable footrest
- Electrical height adjustment
- Seat heater
- Seatbelt
- Logo-Stitch
- Custom upholstery – see page 29
- More accessories – see page 30

Extras

- Deck rail
- Seat top only (includes turntable)

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	on req.	on req.	460	540
fixed (mm)	on req.	on req.	460	540

All measurements rounded. Relevant measurements on technical drawing.



SEAGULL

The Flexible



Profile

Strong, but easy to move work-chair for pilots and operators. Available also with securing-lug and mounting plate.

Recommended application

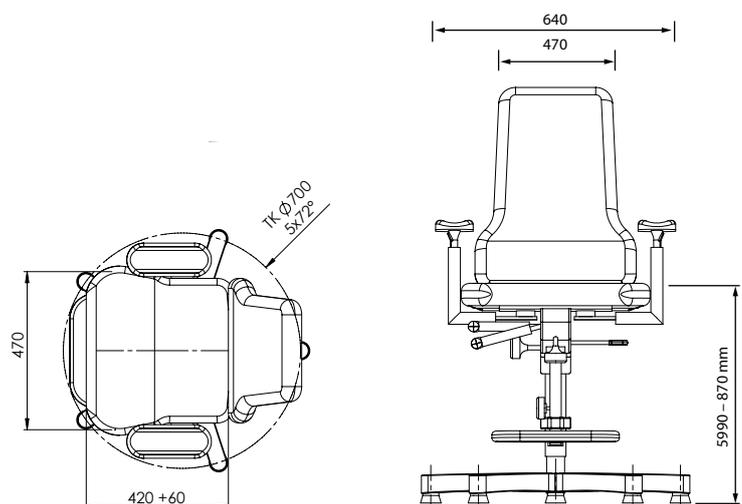
All ships (for pilots), Inland waterway vessels.

Article Code

CCS080

Serial features

- Adjustable headrest
- Multifunctional comfort armrests
- Backrest adjustment
- Seat-top angle adjustment
- Revolvable or non-revolvable version available
- Foldable / height-adjustable footrest
- Upholstery: vinyl black
Other materials and colours on request



OYSTER

The Compact

Profile

Foldable seat for wall fastening.
A place-saving and convenient solution
on board.

Article Code

CCS100



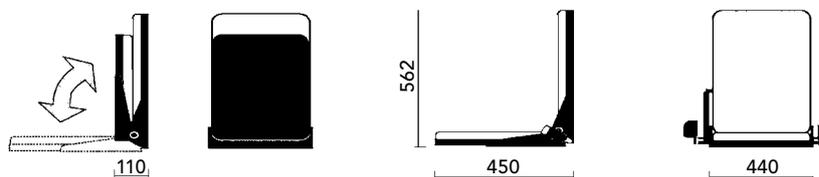
Serial features

- Upholstered backrest
- Tension spring supported folding mechanism
- Upholstered and upfoldable seat pan
- Underside of seat pan with black plastic cover
- Surface: metal parts phosphated and powder-coated, standard black, connecting pieces to be galvanized
- Upholstery-material: standard vinyl black

Also available without backrest
and in various widths.

Accessories

- Upholstered headrest for wall-fixing
- Seatbelt with retractor
- Upholstery-material: special material according to customer's specification



COMMANDER

The Mastermind



Cleemann's brandnew operator seat *Commander* has specially been developed to meet the extreme needs and levels of comfort required on the new generation of vessel.

The custom built armrests are designed and manufactured individually to include a wide range of control-equipment provided or specified by the customer.

The SolidWorks 3D CAD solutions enable us to transform quickly new ideas into real products. Together with our design-team the customers have easy and comfortable way to create almost an unlimited number of configuration.

Please contact us for details.

COMMANDER – let's make it individual.

COMMANDER

The Mastermind

Cleemann's new development

Customizable operator seats for on- and offshore application. With fully integrated controls in the armrest the new operator seat *Commander* has specially been developed to meet the extreme needs and levels of comfort required on the new generation of vessels.

The special armrest-consoles provide plentiful space for a number of steering controls and instruments. This permits relaxed manoeuvring without any loss of comfort and control. Lots of individual adjustment possibilities meet the strongest demands of ergonomics for the operator.

The custom built armrests are designed and manufactured individually to include a wide range of equipment provided or specified by the customer.

With four modular cut-out sizes (M · L · XL · XXL) we will guide you through hundreds of combination possibilities.

3D-Design

In order to react on individual requests from our customers we are now able to design customized seat solutions with a professional 3D software.

The SolidWorks 3D CAD solutions enable us to transform quickly new ideas into real products.

As a result we are able to convert the drawings into any common data format (.IGS/.STEP/.dxf etc.) so that our customers can easily integrate our seats into the existing ship design.



LET'S GO
DESIGN



COMMANDER XXL



Profile

The *Commander XXL* is the most professional operator seat of the latest generation and offers almost unlimited possibilities for planning and producing your individual command chair. The seat is capable to include numerous control units and functions such as DP, autopilot, chart radar and conning display.

Possible Seat-Combinations

Nautic PRO – see page 6

Article Code

Individual

Customized

Column type

- Electrical
- Fixed height

Revolving type

- Electrical
- No turning

Options

- Electrical deckrail
- Communication system
- Screen holder
- Joystick holder
- Trackball holder
- Keyboard pad
- Switch panel



Profile

The *Commander XL* represents the high-class-range of the new Cleemann operator seat. This seat is capable to include up to 3 control units. Furthermore a screen holder can be attached at the front face of each armrest.

Possible Seat-Combinations

Nautic PRO – see page 6
Nautic – see page 8
Nautic STAR – see page 9
Nautic PRO STAR – see page 10

Article Code

Individual

Customized

Column type

- Electrical
- Fixed height

Revolving type

- Electrical
- No turning

Options

- Electrical deckrail
- Communication system
- Screen holder
- Joystick holder
- Trackball holder
- Keyboard pad
- Switch panel

COMMANDER L



Profile

The *Commander L*, representing the mid-class range, also offers sufficient space for armrest casings which can be fitted with up to three controlling equipment of the customer's choice. Screen holders can be attached at the front face of the armrest as well.

Possible Seat-Combinations

- Nautic PRO* – see page 6
- Nautic* – see page 8
- Nautic STAR* – see page 9
- Nautic PRO STAR* – see page 10
- Seamaster STAR* – see page 14

Article Code

Individual

Customized

Column type:

- Electrical
- Mechanical
- Fixed height

Revolving type:

- Electrical
- Mechanical
- No turning

Options

- Mechanical deckrail
- Electrical deckrail
- Communication system
- Screen holder
- Joystick holder
- Trackball holder
- Keyboard pad
- Switch panel



Profile

The *Commander M* is the perfect solution if only one control unit is requested. The holder for the controller will also be customized and can include a wide range of equipment such as joysticks, trackballs and smaller monitors.

Possible Seat-Combinations

Nautic PRO – see page 6

Nautic – see page 8

Nautic STAR – see page 9

Nautic PRO STAR – see page 10

Seamaster STAR – see page 14

Operator STAR – see page 12

Article Code

Individual

Customized

Column type:

- Electrical
- Mechanical
- Fixed height

Revolving type:

- Electrical
- Mechanical
- No turning

Options

- Mechanical deckrail
- Electrical deckrail
- Joystick holder
- Trackball holder
- Keyboard pad
- Switch panel

NAUTIC STAR CREW

The strong Allrounder



Profile

The Nautic Star CREW is a suspended and certified (12G) modular seat concept originally designed for crew members on offshore supply vessels, wind farm transfer vessels and similar kind of workboats.

The seat offers safe, secure and comfortable seating at any time even in rough conditions.

Recommended application

Crew boat, offshore supply vessel, passenger vessel

Article Code

Individual

Serial features

- Mechanical suspension
- Weight adjustment
- Adjustable headrest
- Foldable armrests
- Adjustable backrest

Options

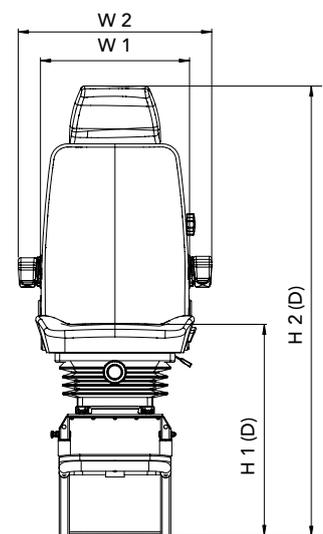
- Box (measurements on request)
- Turntables
- Seatbelts
- Footrests

New: Bench-seat

The seats can be mounted in a row configuration on just one light weight aluminium base (up to six seats in a row are possible). Mounted like passenger seats, but offering the comfort of a highly functional operator seat.

HEIGHT	H 1	H 2	W 1	W 2
D (mm)	on req.	on req.	490	670
fixed (mm)	on req.	on req.	490	670

All measurements rounded.
Relevant measurements on technical drawing.





PASSENGER SEAT

The Voyager

Profile

Cleemann's range of passenger seats have been designed in order to ensure the most comfortable and safe travelling on board.

Certified by GL (12G/dynamic test) and equipped with fire-resistant components, our seats correspond to the highest standards of quality and safety.

Article Code

Individual

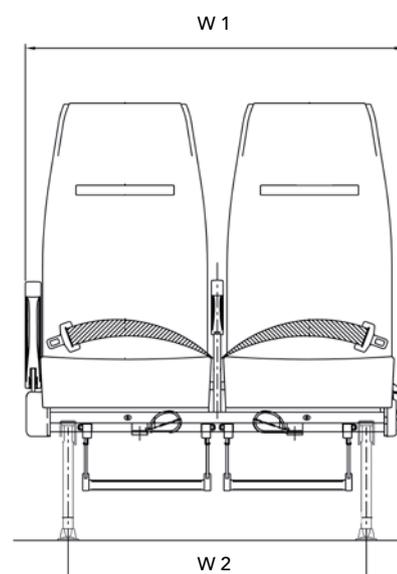


Optional accessories

- Armrests
- Seat-belts
- Ashtray
- Foldable backrest
- Newspaper-net
- Food-tray
- Life-jacket holder
- Cupholder

HEIGHT	W 1	W 2
2-seater	980	790
3-seater	1470	1560
4-seater	1970	1760
5-seater	2450	2250

All measurements rounded.
Relevant measurements on technical drawing.



DECK RAIL



ADVANTAGES OF A CLEEMANN DECK RAIL

- ✓ Low weight
- ✓ Easy to install
- ✓ Compact mounting height
- ✓ Heavy duty ball bearing system
- ✓ Comfortable control of the rail from sitting position
- ✓ Available in lengths up to 12 m

Serial features

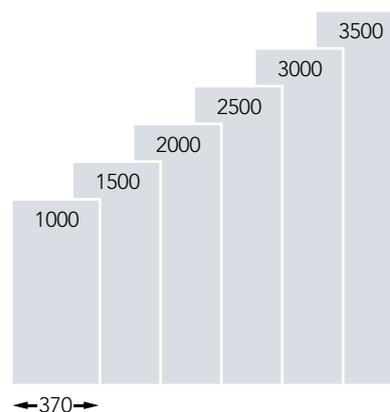
- mounting height of only 36 mm
- special sliding system for smooth and fast moving
- closed ends for easy mounting
- available in lengths 800–12000 mm

Options

- Electrical version 12V/ 24V (mounting height 90mm)
- Cable tray/ energy chain
- Anti-trip surface
- Curved version
- Several mounting systems – see page 28

Standard lengths

other length available on request



DECK RAIL

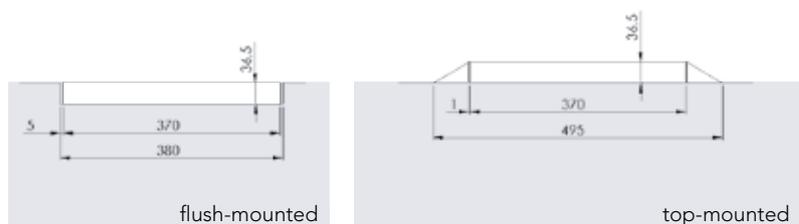
Profile

Our famous deckrails – made of a light-weight but strong combination of aluminium and stainless steel – offer a wide range of possibilities to increase the comfort and safety »on deck« of nearly every wheelhouse. They also allow movement of the chair into the desired position while seated.

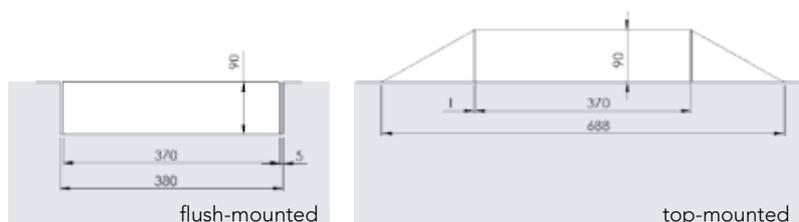
Usable in combination with all Cleemann seats!



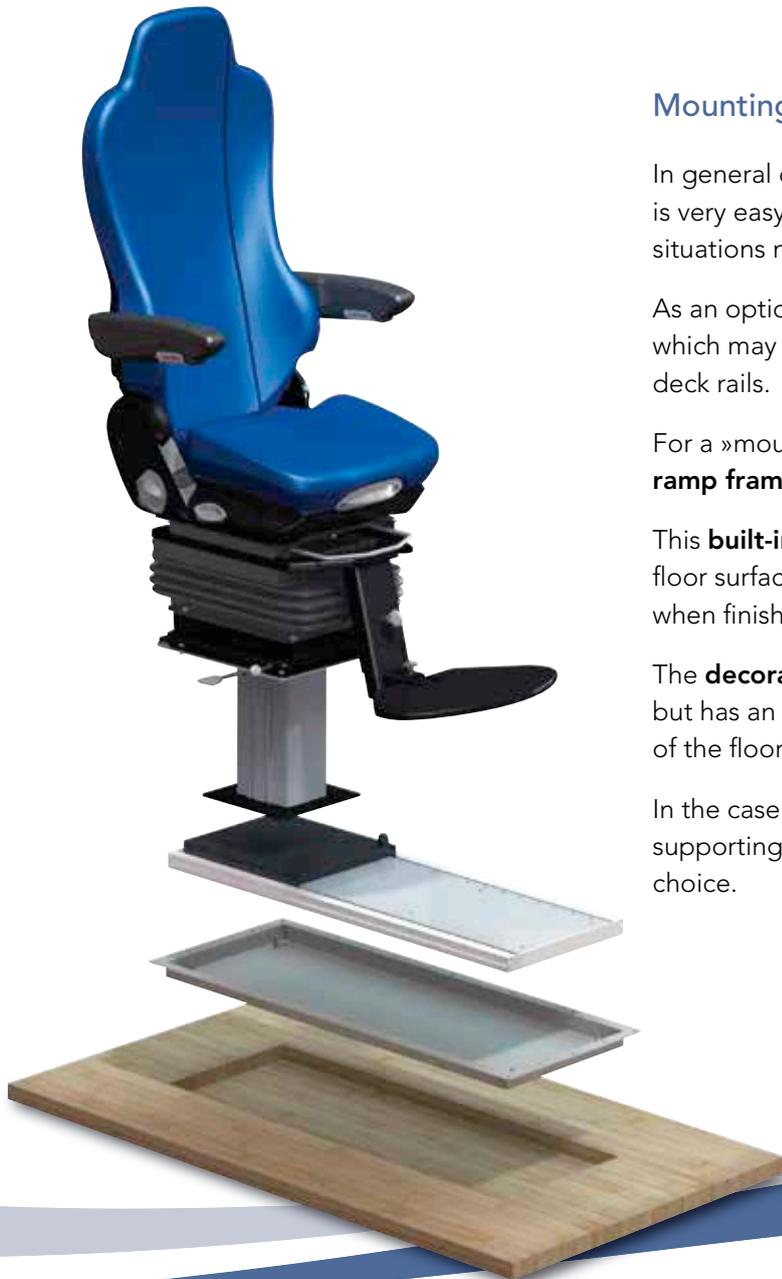
Manually operated deck rail



Electrical operated deck rail



MOUNTING SYSTEM



Mounting system for deck-rails (optional)

In general our deck-rail is a closed system and it is very easy to install. However, some mounting situations may require some additional support.

As an option we offer special mounting systems which may help to improve the installation of the deck rails.

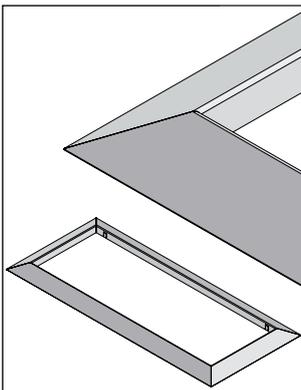
For a »mount-on-deck« version we offer a special **ramp frame** in order to avoid potential accidents.

This **built-in tube** can be used as a dummy during floor surface work. The deck rail can be laid inside when finishes.

The **decorative frame** offers the same advantages but has an additional side frame. The mating-faces of the floor surface are hidden under this frame.

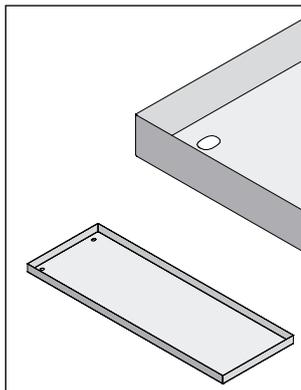
In the case of deck-surfacing/deck cutouts the self supporting **mounting system** offers the perfect choice.

Ramp frames



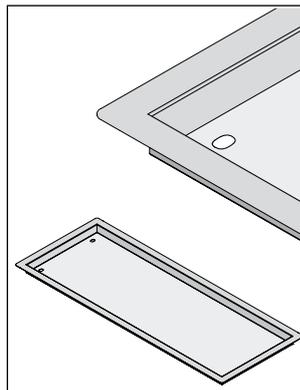
Ramp frame to cover the deck-rails when built »on deck«.

Built-in tube



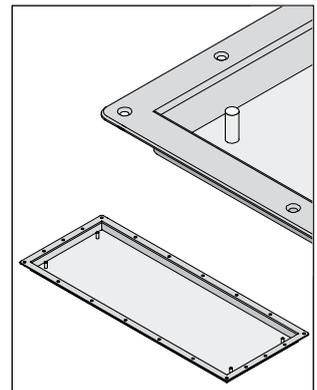
Simplifies installation. Also permits problem-free replacement of the deck during system modification or revision.

Decorative frame



An optically pleasing transition between floor surface and deck rail is guaranteed.

Built-in system



Extremely stable mounting system with fixed bolts for installation on deck cutouts.

UPHOLSTERY

Design

Our own upholstery division and design department enable us to realize an optimum combination of reliable, experienced craftsmanship and materials with excellent shape and look. Therefore, we are always able to satisfy special requests from our customers, such as having an entire chair upholstered with leather (no visible metalparts), which has been carried out for several customers in the yacht building industry. As a matter of course, our standard-models also benefit from this professional performance.

See samples:



Collection

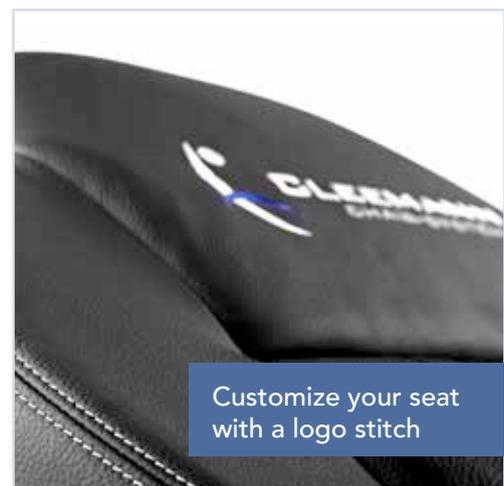
Three ways to customize your chair-system in material and colour:

- From Cleemann's own collection
- As specified by our customers
- As supplied by our customers

Material

We only use proven high-quality materials from leading European manufacturers.

Alcantara™	This material combines softness, elegance and rich colours. Enduring and easy to clean.
Leather	Always a good choice – real leather. Standard colour is black.
Vinyl	High quality vinyl (artificial leather). Standard colour is black. Any colour /pattern available.
Fabric	Trevira™ – high quality fabric / fire-resistant material (certified).
ACC 1000	(Cleemann's own material). Heavyduty material. Fireproof and vandalism-protected (not cuttable).

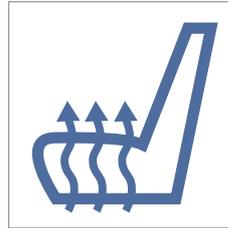


ACCESSORIES



Seat belts

Available for all seats as lap belt or 4-point-belt.



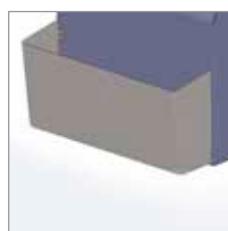
Seat heater

Set of heaters for seat pan and backrest. Need 12/24 DC power supply.



Document pocket

To be mounted on the backrest of the seat.



Document holder

Different sizes available. Also suitable as a binocular holder.



Reading light

Can be combined with i.e. folding table/ notebook holder.



Folding table

Available in different sizes i.e. as a keyboard table or notepad board.



Joystick holder

Different sizes available. To be mounted in front of the armrest in combination with *Commander L/ M* seats.



Monitor holder

Different sizes and styles available. To be mounted or integrated in combination with the *Commander*-seats.



Communication system

Contains microphone and loudspeaker system. Available for *Commander XXL/ XL and L* seats.



Cup holder

To be mounted in front of the standard armrest or to be integrated into the *Commander XXL/ XL* armrest.

MODULAR CONCEPT

Generate the article code

To configure your desired chair, please select the desired seat-top with the appropriate upholstery. Decide on a column variant and select the corresponding height. Finally decide the way of mounting. Please list the item numbers in a row according to the scheme listed below – this will provide you with your completed order number.

Please specify this number when placing your order.

SEAT-TOP			
Seat-Top code CCS 030 or any other product code			
UPHOLSTERY			
Without	00		
Fabric black (standard)	01		
Leather black (standard)	02		
Fabric (no standard) or vinyl	03		
Fabric/vinyl supplied by customer	04		
Leather (no standard) or alcantara	05		
Leather/Alcantara supplied by customer	06		
COLUMN			
Static column	A*	B	C
Lifting column	D*	E	F
Static column with cable for armrest controller	AW	BW	CW
Lifting column with cable for armrest controller	DW	EW	FW
Electric Lifting column	DE	EE	FE
Electric lifting column with cable for armrest controller	DEW	EEW	FEW
MOUNTING			
Base plate (direct mounting on floor)	1		
Mechanical rail (36 mm)	2		
Electrical Rail (90 mm)	3		
Rolling plate	4		
5-star-leg	5		
<i>Deck Rail see page 26/27!</i>			

C	C	S	0	3	0	-	0	1	-	E	0	0	-	2
Seat-Top							Upholstery			Column			Mounting	

EXAMPLE

Seat top: Nautic Pro (CCS030)
 Upholstery: fabric black (01)
 Column: sitting height E (E00)
 Mounting: Mounted on mechanical rail (2)
 Number code: **CCS030-01-E00-2**



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