# / Naval architecture & design studio

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R2 MARINE

# / R2 Marine key figures

**Awards** 







Designing boats since

2012

Growing team of

**20** 

Mockup studio

13x5m

Designs in operation

30+

Concepts delivered

60+

#### / About us

# Naval architecture. Design. Engineering.

We combine design and engineering expertise with creativity to improve your experience at sea, whether you're out there for work, exploration, or pleasure.

Designing an excellent boat requires a complex process of skillfully balancing its conflicting aspects, such as interior layout, exterior design, structural integrity, and performance. When you work with us, you can rely on our skilful team to meet your requirements exactly. The result? A synergistic design in which every element performs to its full potential.

#### / Services

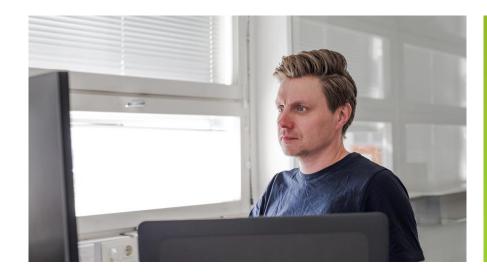
# Naval architecture

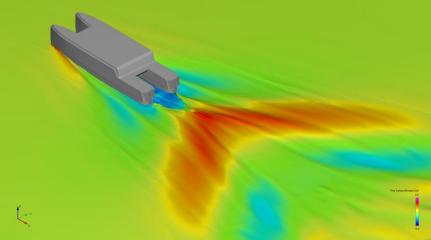
01 / 03

Our portfolio includes everything from electric cruisers to passenger ferries. In operation all over the world, our boats are testament to our expertise in hull forms, propulsion systems, and construction materials. Whether you're seeking a new design or an adaptation of an existing one, you can be sure that we have the experience, technological proficiency, and creativity to exceed your expectations.

- 1. Hull form design and development
- 2. CFD analysis
- 3. Weight calculation
- 4. Stability analysis

- 5. Propulsion system design
- 6. Structural design
- 7. Rules & regulations compliancy
- 8. Specifications writing





#### / Services

# **Design**

02 / 03

With our extensive experience, we can help you discover market opportunities — uncovering any hidden challenges — and create practical solutions. We believe in clear communication, which allows us to fine-tune initial concept plans so that they align perfectly with your requirements. We use sophisticated VR modelling technology, too, meaning you'll be able to step into full-size mock-ups, to examine and evaluate for yourself the design's ergonomics and usability.

- 1. Idea validation & market fit assessment
- 2. Concept design
- 3. Exterior & interior design
- 4. Photorealistic visualizations & animations
- 5. CMF design
- 6. Ergonomics & usability
- 7. Full size mockups
- 8. VR models





#### / Services

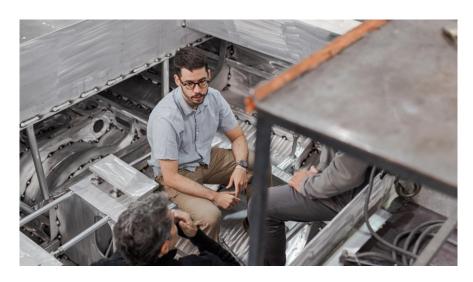
# **Engineering**

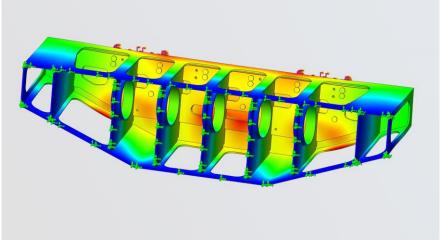
03 / 03

As our extensive portfolio of completed design projects demonstrates, we have a proven ability to evaluate a boat's production time, cost, and maintenance requirements. Moreover, for each project we carefully consider what production methods to use to maximize cost-effectiveness. And if you're seeking original thinking, you've come to the right place. We're experts in the research and development of custom solutions and the evaluation of prototypes.

- 1. Mechanical engineering
- 2. Developing new mechanical systems
- 3. Prototype evaluation
- 4. Systems design

- 5. Production tooling design
- 6. Workshop drawings
- 7. FEM analysis
- 8. Production support





## / R2 Marine competences

# Added value for shipyards

/ **01** Production know how

Hands on experience from welding, assembly, installations.

/ 02 Operational experience of vessel use

Team consists also individuals with background in operating professional vessels.

/ **03** Tender processes

Experience from public tender processes.

/ **04** Broad network

We know the market.

/ **05** Sales and marketing material

High quality renderings and animations to support presales and sales.

/ **06** Proactive innovation

Developing innovations for competitive advantage.

#### / Portfolio

# Professional boats

From conceptualization to execution, we stand as architects of maritime efficiency, meticulously designing and engineering workboats that redefine industry standards. Our commitment to innovation ensures that each vessel is a testament to our dedication to pushing boundaries and delivering solutions tailored to the unique challenges of professional marine environments.



# Serecraft P14-1 SSV

/ Norwegian Navy (Kewatec)

Full design

| Application   | Defence and Security |
|---------------|----------------------|
| Length        | 14,1 M               |
| Beam          | 4,0 M                |
| Engine Range  | 2 x 500 - 700 HP     |
| Propulsion    | Waterjet             |
| Speed Range   | 38 - 45 KN           |
| Applied Rules | DNV Craft            |



#### SC SAR 17

#### / Icelandic Search and Rescue Association (Kewatec)

Concept, naval architecture, structures, selected systems

| Application   | Search and Rescue |
|---------------|-------------------|
| Length        | 16,9 M            |
| Beam          | 4,8 M             |
| Engine Range  | 2 x 500 - 800 HP  |
| Propulsion    | Waterjet          |
| Speed Range   | 30 - 40 KN        |
| Applied Rules | DNV Craft         |



#### Serecraft \$14

/ University Centre in Svalbard (UNIS, NO) (Kewatec)

Full design

| Application   | Harbour and Terminal |
|---------------|----------------------|
| Length        | 14,1 M               |
| Beam          | 4,2 M                |
| Engine Range  | 2 x 500 - 650 HP     |
| Propulsion    | Propeller            |
| Speed Range   | 25 - 40 KN           |
| Draft         | 1,1 M                |
| Applied Rules | FMAW, NBS            |



## SC S8

#### / Kewatec

Full design

| Application   | Fishing and Aquaculture |
|---------------|-------------------------|
| Length        | 7,9 M                   |
| Beam          | 3 M                     |
| Engine Range  | 250 - 400 HP            |
| Propulsion    | Propeller               |
| Fuel          | 350 L                   |
| Speed Range   | 20 - 30 KN              |
| Draft         | 1,1 M                   |
| Applied Rules | FMAW, NBS               |



#### **SC M12**

/ SC M12, Norway (Kewatec)

Concept and basic design

| Application   | Defence and Security, Harbour and Terminal |
|---------------|--|
| Length        | 12,4 M                                     |
| Beam          | 3,6 M                                      |
| Engine Range  | 2 x 300 - 500 HP                           |
| Propulsion    | Waterjet                                   |
| Speed Range   | 30 - 40 KN                                 |
| Applied Rules | FMAW, NBS                                  |



#### **Ambulance 2200**

/ Norwegian First Responders (Buksér of Berging) (Kewatec)

Concept design, hull design

| Application   | Search and Rescue |
|---------------|-------------------|
| Length        | 22,2 M            |
| Beam          | 7,5 M             |
| Engine Range  | 2 x 700 - 1000 HP |
| Propulsion    | IPS, Waterjet     |
| Speed Range   | 25 - 35 KN        |
| Applied Rules | NBS               |



#### e-Work 2360

/ e-Work 2360 Research vessel (Kewatec)

Concept design, hull design

| Application   | Research         |
|---------------|------------------|
| Length        | 23,6 M           |
| Beam          | 6,4 M            |
| Engine Range  | 2 x 600 - 700 HP |
| Propulsion    | Propeller        |
| Speed Range   | 20 - 25 KN       |
| Applied Rules | NBS              |



# e-Work 2390 Survey

/ e-Work 2390 Survey (Kewatec)

Concept design, hull design

| Application   | Research         |
|---------------|------------------|
| Length        | 23,9 M           |
| Beam          | 6 M              |
| Engine Range  | 2 x 600 - 900 HP |
| Propulsion    | Propeller        |
| Speed Range   | 18 - 23 KN       |
| Applied Rules | NBS              |



# **Navy Tug**

/ Norwegian Navy (Kewatec)

Concept design

| Application   | Defence  |
|---------------|----------|
| Length        | 7,5 M    |
| Propulsion    | Waterjet |
| Applied Rules | NBS      |



# 13m Expedition Boat

/ Boomeranger Boats / Viking cruises

Full design

| Application   | Expedition |
|---------------|------------|
| Length        | 13,3 M     |
| Beam          | 3,2 M      |
| Engine Range  | 2 x 440 HP |
| Propulsion    | Waterjet   |
| Speed Range   | 25 - 35 KN |
| Applied Rules | FMAW, NBS  |



#### C-1300 IB Patrol

/ Dutch Coast Guard (Boomeranger Boats)

Full design

| Application   | Defence and Security |
|---------------|----------------------|
| Length        | 14 M                 |
| Beam          | 3,3 M                |
| Engine Range  | 3 x 370 HP           |
| Propulsion    | Sterndrives          |
| Speed Range   | 25 - 45 KN           |
| Applied Rules | LR Grey boat code    |



#### C-1300 VIP

#### / Boomeranger Boats

Concept design and structure

| Application   | Defence and Security |
|---------------|----------------------|
| Length        | 12,4 M               |
| Beam          | 3,2 M                |
| Engine Range  | 3 x 400 HP           |
| Propulsion    | Outboards            |
| Speed Range   | 40 - 60 KN           |
| Applied Rules | RINA, ISO            |





/ German Society for the Rescue of Shipwrecked Persons (DGzRS) (Arctic Boats)

Full design

| Application   | Search and rescue |
|---------------|-------------------|
| Length        | 8,4 M             |
| Beam          | 2,8 M             |
| Engine Range  | 400 HP            |
| Propulsion    | Inboard           |
| Speed Range   | 20 - 45 KN        |
| Applied Rules | FMAW              |



#### Callboats 10

/ Callboats

Full design

| Application   | Transport |
|---------------|-----------|
| Length        | 10 M      |
| Beam          | 3,5 M     |
| Engine Range  | 2 x 20 KW |
| Propulsion    | Pods      |
| Speed Range   | 5 - 15 KN |
| Applied Rules | ISO       |



#### Callboats 10L

/ Callboats

Full design

| Application   | Transport                  |
|---------------|----------------------------|
| Length        | 10 M                       |
| Beam          | 3,5 M                      |
| Engine Range  | 2 x 20 KW                  |
| Propulsion    | Pods & passive foil system |
| Speed Range   | 5 - 20 KN                  |
| Applied Rules | UK Work boat code          |



#### **X Shore PRO**

/ X Shore

Full design on an existing platform

| Application   | Transport |
|---------------|-----------|
| Length        | 8 M       |
| Beam          | 2,6 M     |
| Engine Range  | Electric  |
| Propulsion    | Propeller |
| Applied Rules | ISO       |



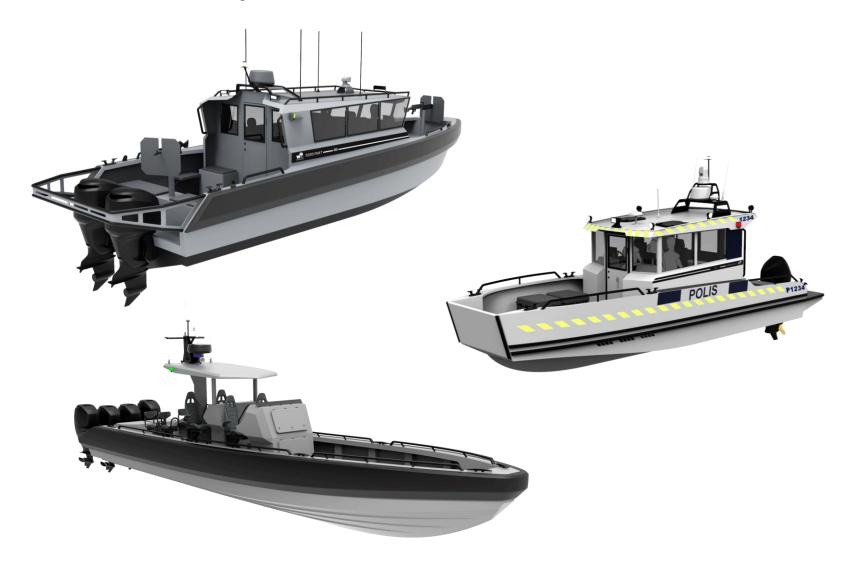
# Ice going passenger ferry

/ Concept proposal for private company

Concept design

| Application   | Transport          |
|---------------|--------------------|
| Length        | 18 M               |
| Engine Range  | 1 x 150 KW         |
| Propulsion    | Propeller + nozzle |
| Speed Range   | 5 - 12 KN          |
| Applied Rules | FMAW               |
|               |                    |

# / Portfolio — defence concepts



# / Portfolio — defence concepts



# / Portfolio — SAR concepts



**/** 21

# / Portfolio — CTV, RSV, FiFi concepts









# / Portfolio — fishing & aquaculture concepts

# / Portfolio — ferry concepts

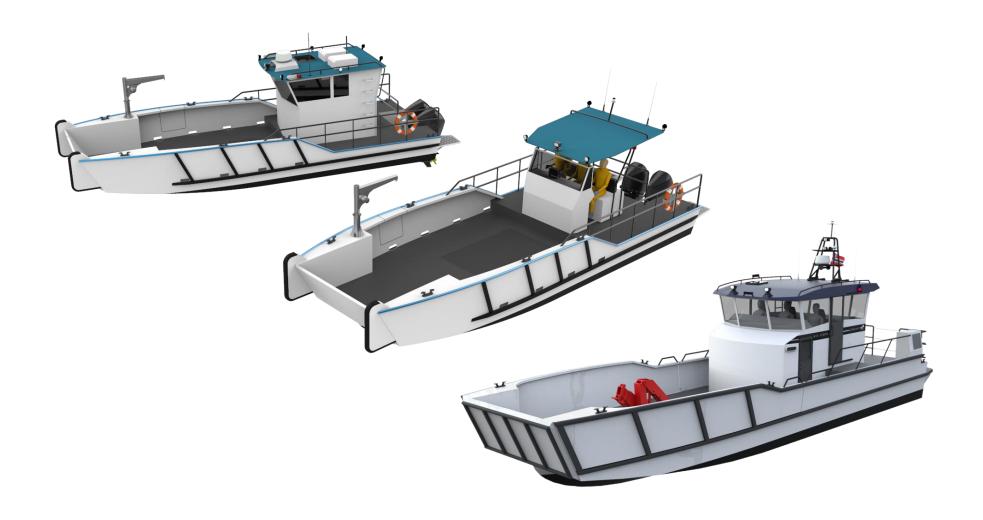








# / Portfolio — landing craft concepts



#### / Portfolio

# Pleasure boats & yachts

At R2 Marine, we understand that every vessel tells a unique story, and our team of skilled naval architects and designers are dedicated to bringing those stories to life. Whether you envision an elegant yacht for entertaining guests in style or a high-performance pleasure boat for thrilling adventures, our bespoke designs cater to your desires.



#### **Quarken 35**

#### / Quarken Boats

Hull design, concept design, structural design, milling files

| Application  | Recreational |
|--------------|--------------|
| Length       | 10,68 M      |
| Beam         | 3,48 M       |
| Engine Range | 2 x 300 HP   |
| Propulsion   | Outboards    |
| Max speed    | 45 KN        |



#### **Quarken 27**

#### / Quarken Boats

Hull design, concept design, structural design, milling files

| Application  | Recreational |
|--------------|--------------|
| Length       | 8,35 M       |
| Beam         | 2,59 M       |
| Engine Range | 300 HP       |
| Propulsion   | Outboard     |
| Max speed    | 45 KN        |



# Fjord 39 XP (XL)

#### / Fjord Yachts

Hull design, naval architecture, milling files, structural design

| Application  | Recreational       |
|--------------|--------------------|
| Length       | 11,6 M             |
| Beam         | 3,89 M             |
| Engine Range | 2 x 400 HP         |
| Propulsion   | Outboard (Inboard) |
| Max speed    | 45 KN              |



#### **EXPLR 44**

#### / XO Boats

Hull design, naval architecture, milling files, structural design

| Application  | Recreational     |
|--------------|------------------|
| Length       | 13,7 M           |
| Beam         | 3,7 M            |
| Engine Range | 2 x 450 - 600 HP |
| Propulsion   | Outboard         |
| Max speed    | 50 KN            |



## **DFNDR A8**

/ XO Boats

Hull design, naval architecture, structural design

| Application  | Recreational      |
|--------------|-------------------|
| Length       | 8,1 M             |
| Beam         | 2,67 M            |
| Engine Range | 2 x 225 / 1 x 450 |
| Propulsion   | Outboard          |
| Max speed    | 50 KN             |



#### Yamarin 80 DC

#### / Yamarin Boats

Concept design, hull design, naval architecture, milling files, structural design, systems design

| Application  | Recreational |
|--------------|--------------|
| Length       | 8,28 M       |
| Beam         | 2,62 M       |
| Engine Range | 300 HP       |
| Propulsion   | Outboard     |
| Max speed    | 43 KN        |



# Juva e/y 30

/ Juva Yachts

Full design, brand development

| Application  | Recreational |
|--------------|--------------|
| Length       | 9,2 M        |
| Beam         | 2,9 M        |
| Engine Range | 2 x 15 KW    |
| Propulsion   | Pod drive    |
| Max speed    | 12 KN        |



## **OQS Carbon tender 14ft**

/ OQS

Full design

| Application  | Tender     |
|--------------|------------|
| Length       | 4 M        |
| Beam         | 2 M        |
| Engine Range | 20 - 60 HP |
| Propulsion   | Outboard   |
| Max speed    | 30 KN      |



# **Anytec A33C**

/ Anytec

Full design, brand development

| Application  | Recreational |
|--------------|--------------|
| Length       | 9,9 M        |
| Beam         | 3,05 M       |
| Engine Range | 2 x 450 HP   |
| Propulsion   | Outboards    |
| Max speed    | 52 KN        |



# **Coastal Explorer 52ft**

/ Private

Full design, brand development

| Application  | Recreational |
|--------------|--------------|
| Length       | 15,5 M       |
| Beam         | 4,74 M       |
| Engine Range | 2 x 600 HP   |
| Propulsion   | Inboard      |
| Max speed    | 35 KN        |

# / Contacts

For project inquires:

**General information:** 

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