



# PROJECT PORTFOLIO

Steel structures and welded equipment

*All structures are fully pre-assembled in our factory — on-site installation is fast, with precision fit.*

**20+**

years of experience

**57+**

projects delivered

**10+**

countries served

**4**

sectors of activity

## CERTIFICATIONS

- EN 1090-1 EXC3
- ISO 9001 : 2015
- ISO 14001 : 2015
- NATO NCAGE
- RINA Certified

# STOVNERTARNET TOWER



## DESCRIPTION

The Stovnertarnet project demonstrated IKON Idee's ability to deliver structurally complex metalwork at urban scale. Spanning 260 m in length and over 15 m in height, the sinusoidal steel-timber composite structure required 14 exceptional heavy transports from Romania to Norway. The entire structure was fully pre-assembled in our factory — on-site installation was fast, with precision fit.

**84 t | 260 m length**

*Sinusoidal steel/timber composite structure*

△ Oslo, Norway



**DETAILS** Client: Oslo Kommune | Location: Oslo, Norway

Weight: 84 t | 260 m length | Equipment: Sinusoidal steel/timber composite structure

## RELEVANCE

- Landmark project for high-complexity architectural steel structures
- Complex international logistics: 14 exceptional transports from Romania to Norway
- Demonstrates capacity to manage high-visibility urban projects

# KRISTIANSAND BRIDGE



## DESCRIPTION

The bridge over the Otra River in Kristiansand is the largest infrastructure project delivered by IKON Idea in Norway. With nearly 200 tonnes of steel structure and a 180 m span, the project confirmed the company's position as a trusted supplier for critical transport infrastructure.

**199 t | 180 m length**

*Steel road bridge deck*

📍 Kristiansand, Norway



**DETAILS** Client: Kristiansand Kommune | Location: Kristiansand, Norway

Weight: 199 t | 180 m length | Equipment: Steel road bridge deck

## RELEVANCE

- Largest bridge project delivered: 199 t steel structure
- Critical transport infrastructure for the second largest city in southern Norway
- Full EN 1090-1 EXC3 certification for load-bearing structures

# FLOYBYEN — ARENDAL TOWER & BRIDGE



## DESCRIPTION

The Floybyen project in Arendal combines structural steel with stainless steel and low-iron glass panels for maximum visual clarity. Over 100 t pre-assembled in Romania — fast installation with precision fit. Winner of the Norsk Stalkonstruksjonspris 2023 (Norwegian Steel Construction Award).

**100 t | 42 m bridge**

*Lift tower + pedestrian bridge — steel, stainless, low-iron glass*

△ Arendal, Norway



**DETAILS** Client: Arendal Eiendom KF | Location: Arendal, Norway

Weight: 100 t | 42 m bridge | Equipment: Lift tower + pedestrian bridge — steel, stainless, low-iron glass

## RELEVANCE

- Norsk Stalkonstruksjonspris 2023 — Norway's most prestigious steel construction award
- Unique material combination: structural steel, stainless steel and low-iron glass
- Fully pre-assembled in Romania — fast on-site installation with precision fit

# PELTON TURBINES



## DESCRIPTION

The Pelton turbine is an impulse hydraulic turbine used in high-head hydropower plants — nozzles direct water onto the runner buckets, converting kinetic energy into mechanical energy. IKON Idea has manufactured Pelton housings, distributors and draft tubes for over 12 years — components up to 18 t in special steels.

## Components up to 18 t/unit

*Pelton turbine housings, distributors, draft tubes*

△ Scandinavia and Central Europe



**DETAILS** Client: Various — Norway, Sweden, Austria | Location: Scandinavia and Central Europe

**Weight:** Components up to 18 t/unit | **Equipment:** Pelton turbine housings, distributors, draft tubes

## RELEVANCE

- Over 12 years of continuous experience in the hydropower sector
- Recurring supplier for power plants in Norway, Sweden and Austria
- Proven expertise in special steels and tight machining tolerances

# HYDROPOWER WATERWAYS



## DESCRIPTION

Components that carry water from the dam to the turbine:

- Inlet Pipes — intake tubes
- Penstocks — pressure pipes
- Bifurcations — distribution branches
- Draft Tubes — diffusion tubes

Plate thickness up to 35 mm, diameters up to 4.5 m, unit weights over 30 t.

**Over 30 t | Ø 4.5 m**

*Inlet pipes, penstocks, bifurcations, draft tubes*

△ Scandinavia and Central Europe



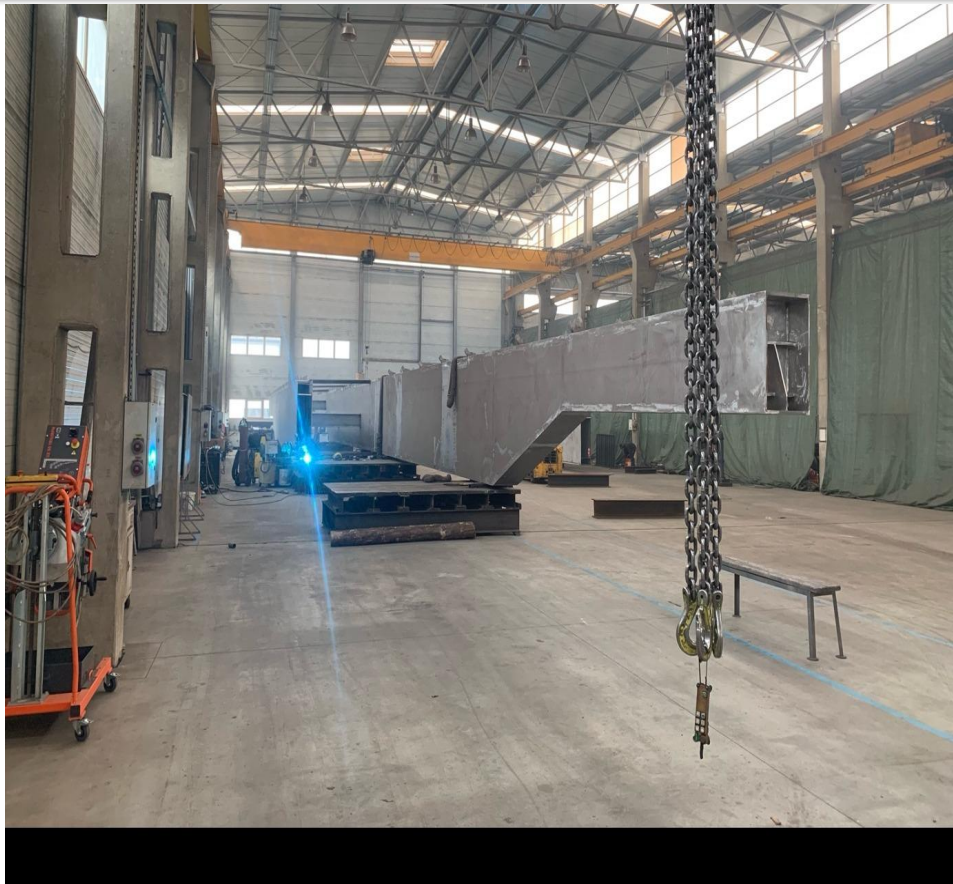
**DETAILS** Client: Various — Norway, Sweden, Austria | Location: Scandinavia and Central Europe

**Weight:** Over 30 t | Ø 4.5 m | **Equipment:** Inlet pipes, penstocks, bifurcations, draft tubes

## RELEVANCE

- Diameters up to 4.5 m and plate thickness up to 35 mm
- Recurring deliveries for hydropower plants in Norway, Sweden and Austria
- Manufacturing certified EN 1090-1 EXC3 with full UT/NDT inspection

# MUNCH MUSEUM BRIDGE — OSLO



## DESCRIPTION

A 50 m pedestrian bridge positioned in front of the Munch Museum, Oslo's iconic landmark building. Fabricated in Duplex stainless steel imported from Finland — a special grade resistant to marine corrosion and extreme sub-zero temperatures. Delivered as a 60 t monolithic structure. Welding procedures and UT inspection were developed from scratch for this project.

**60 t | 50 m monolith**

*Pedestrian bridge in Duplex stainless steel —  
marine & frost resistant*

📍 Oslo, Norway



**DETAILS** Client: Oslo Kommune | Location: Oslo, Norway

Weight: 60 t | 50 m monolith | Equipment: Pedestrian bridge in Duplex stainless steel —  
marine & frost resistant

## RELEVANCE

- Duplex stainless steel imported from Finland — resistant to marine corrosion and frost
- 50 m monolithic structure — transported and installed as a single element
- Special welding procedures and UT inspection developed from scratch for Duplex grade

# BANE NOR RAILWAY BRIDGES



## DESCRIPTION

Single-piece railway bridge decks fabricated to the strict standards of Norwegian rail operator Bane Nor. All full-penetration welds UT-tested, high percentage controlled and X-rayed. Surface treatment in successive stages: blasting, metallization, primer, paint and final polyurea coat. IKON handled full-scope delivery: detail design, fabrication, transport and on-site installation.

**76 t + 24 t**

*Monolithic railway bridge decks — Bane Nor standards*

△ Loten and Evanger, Norway



**DETAILS** Client: Bane Nor / Mesta | Location: Loten and Evanger, Norway

Weight: 76 t + 24 t | Equipment: Monolithic railway bridge decks — Bane Nor standards

## RELEVANCE

- All full-penetration welds — full UT and RT inspection
- 5-layer surface protection: blasting, metallization, primer, paint, polyurea
- Full-scope delivery: detail design, fabrication, transport and on-site installation

# INDUSTRIAL STEEL STRUCTURES



## DESCRIPTION

Industrial buildings, structural frameworks and complex metalwork. IKON Idea offers complete services: structural engineering, fabrication and workshop processing, transport and on-site installation. From column and beam frameworks through to process equipment integrated into the structure.

**Structures up to hundreds of tonnes**

*Industrial buildings, frameworks, equipment*

📍 Romania and Europe



**DETAILS** Client: Various — Romania and export | Location: Romania and Europe

Weight: Structures up to hundreds of tonnes | Equipment: Industrial buildings, frameworks, equipment

## RELEVANCE

- Full-scope service: structural engineering, fabrication, transport and installation
- Workshop capacity for large-scale fabrication and assembly
- Experience across industrial facilities — buildings, silos, process equipment

# REPRESENTATIVE PROJECTS

No.	Project / Client	Project Type	Country	Weight / Dim.	Year
1	Stovnerarnet Tower — Oslo Kommune	Architectural structure	Norway	84 t   260 m	2017
2	Sandvika Bridge — Sandvika Kommune	Road bridge	Norway	58 t   19 m	2018
3	Loten Railway Bridge — Bane Nor	Railway infrastructure	Norway	76 t   16 m	2018
4	Industrial Buildings — Iltom Italia	Industrial buildings & structures	Romania	20,000 m <sup>2</sup>	2011–23
5	Gangbro Brakeroya — Drammen	Pedestrian bridge + towers	Norway	300+ t	2019
6	Museum Bridge — Oslo	Duplex pedestrian bridge	Norway	68 t   39 m	2020
7	Kristiansand Bridge over Otra	Road bridge	Norway	199 t   180 m	2020
8	Mesta Railway Bridge — Evanger	Railway bridge	Norway	24 t   11 m	2020
9	Arendal Tower and Bridge	Observation tower + bridge	Norway	100 t   50 m	2021
10	Pelton Turbines — over 30 projects	Hydro components	NO/SE/AT	Up to 18 t/unit	2012–24
11	Anfoss Kraftverk — Hydropower Gates	Hydro components	Norway	62 t/unit   18 m	2014
12	Inlet Pipes — various projects	Intake pipes	Norway	18 t/unit   14 m	2019
13	Saint-Gobain Rigips Silos	Industrial equipment	Romania	9 units	2020
14	Hidroelectrica Projects	Hydropower flap gates	Romania	60 t/unit	2023

# WHY IKON IDEEA?

---

- **20+ years of experience**  
Expertise built since 2004 in the fabrication of high-complexity steel structures and welded equipment
- **Proven industrial capacity**  
2,745 m<sup>2</sup> workshop, components up to 60 t and 40 m length, capacity of 1,400 t/year
- **International certifications**  
ISO 9001, ISO 14001, EN 1090-1 EXC3, NATO NCAGE, RINA — European-level quality standards
- **Present in over 10 countries**  
Projects delivered from Romania to Norway, Sweden, Austria, Germany, Finland and other European countries
- **Trusted long-term partner**  
Recurring clients in the hydro, infrastructure, construction and industrial equipment sectors