

PROJECT INTRODUCTION Gepatsch Speicher Dam

TIWAG (Tiroler Wasserkraft AG) manages various civil constructions in the Tiroler area in Austria. One of their assets is the Gepatsch Speicher Dam in Kaunertal Austria. This dam is located at an altitude of 1765. This dam It feeds the Kaunertalkraftwerk hydro power station. One of the major issues of this dam, which is a commonly shared issue within the industry, is the accumulation of sediment in front of the dam. DCN Diving was therefore contracted by TIWAG to dredge in front of the spill gates and to install new trashrack system including pouring of underwater concrete at 110msw depth in front of the spillway system.

CLIENT

TIWAG (Tiroler Wasserkraft AG)

DISCIPLINE

Dredging and Saturation Dive Construction Activities



OUR EXPERTISE

- Air and Sat Diving
- Hyperbaric / Wet Welding
- ROV Operations
- DSV Supply
- Subsea Engineering
- Subsea NDT IRM
- Creating Dry Space UW
- Underwater Concreting



DCN AT A GLANCE

<p>OPERATIONS</p> <p>Worldwide with a focus on North Sea, WAF, UAE and SE Asia.</p> <p>Offices in the Netherlands (headquarters), UK, Germany, Abu Dhabi, Singapore and Kuala Lumpur.</p> <p>Bases in the Netherlands, Abu Dhabi and Singapore.</p>	<p>CERTIFICATION</p> <p>ISO 9001 – 2015, ISO 14001 – 2015, ISO 45001:2018. SCC / VCA** FPAL (Verified) IMCA In-water Survey Certification</p>	<p>HSE</p> <p>Strong dedication on ZERO harm to people and environment.</p> <p>LTIFR – 0 (IMCA 0,42) TRIR – 0,72 (IMCA 1,67) FAR – 0 (IMCA 0,93) Env. 5L – 0 (IMCA N/A)</p>	<p>PEOPLE</p> <p>90 FTE's including 32 supervisor / divers. Flexible group of core freelance personnel. Focus on inhouse development, knowledge sharing / training / lessons learned.</p>

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PROJECT

Gepatsch Speicher
Dam

LOCATION

Kaunertal, Austria

WATER DEPTH

110msw

PROJECT DURATION

January 2017 -
December 2017

System

Sat 03 Mobile Sat
System mobilized on
Pontoons, Willem V
Airlift Dredger

SCOPE OF WORK

The works started with commissioning and mobilizing Airlift Dredging System and dredge sediment in front of the trash racks. The amount of sediment that was dredged was monitored with survey equipment.

Once the dredging was completed the following scope consisted of:

- Mobilization of Sat 03 system (8man, 3man bell, HRC) to Kaunertal and set-up on pontoons including 100t Mobile Crane
- Removal of covers emergency lock niches and trash racks by diver
- Installation of New guide frame and gate
- Installation of new trash rack towers
- Underwater concreting of 450m³ at 110msw water depth
- Removal of Ice Protection Roof
- Installation of new guide Frame at top bottom outlet.
- Installation of slope protection
- Removal of movable trash rack
- Final cleaning
- Installation of Injection System and rebar net
- Pouring of final underwater concrete 500m³
- Demobilization of all equipment

TOTAL CONTRACT VALUE

€ 7.5 mln

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PROJECT ACHIEVEMENTS

- ✓ NO ENVIRONMENTAL SPILLS
- ✓ **NO PERSONAL ACCIDENTS**
- ✓ SUCCESSFULL FAT
- ✓ **UNDERWATER CONCRETING @ 100msw**
- ✓ COMPLETED WITHIN SCHEDULE