



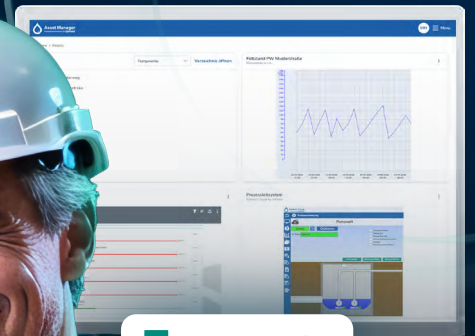
Asset Manager

by **zähnen**

Digitized plants.
Make knowledge
centrally accessible.

The digital twin brings together all plant data as a constantly updated knowledge repository and operational tool in one place.

— Seamlessly integrated into the Wave Cloud by zähnen Plattform.



- ✓ Plant documentation
- ✓ 3D model
- ✓ Reports



Intelligent documentation eliminates searching, secures knowledge & accelerates maintenance.



Your problem administrative effort, time spent searching & knowledge gaps

If expertise is lost, whether in people's minds or in archives, every staff change puts your plant operations and service quality at risk.

- ✗ Isolated data in emails and files costs skilled workers 30% of their working time.
- ✗ Service becomes reactive and costly because there is no clear overview.
- ✗ Incomplete documentation and missing records endanger legal certainty during audits.
- ✗ Paper notes lead to errors and compromise security.



Asset Manager
by **zahn**

Your digital asset repository on demand

The interactive twin consolidates all plant data into a smart database and integrates planning with operations. For maximum safety at every step.

- ✓ Enables instant access via QR code on the device and eliminates the need to search.
- ✓ We guarantee complete digital documentation and full transparency for every audit.
- ✓ Intuitive 3D models that can be linked to the information in the databases.
- ✓ A central repository for all documents and data in one central location.
- ✓ Replaces error-prone paper with constantly updated real-time revisions.

The digital twin of your plant

90 %*

Save time while searching

Find documents in seconds, instead of hours

50 %*

Faster Onboarding

Through intuitive 3D navigation



Lower maintenance costs thanks to smart search



Error-free thanks to centralized expert knowledge



Onboarding in record time



Easily meet documentation requirements



Actively utilize scanned data

Book a 15-minute demo: Experience Asset Manager live



*Project-based estimates; results may vary depending on scope and data quality

The highest standards for your digital twin.

Create a digital model of your plants and consolidate all relevant information about its entire lifecycle in one place.

GATE VALVE 1

Last service: 09.03.2026 [User Manual](#)
[Technical Data Sheet](#)

Technische Details

PN 10												
DN	50	65	80	100	150	200	300	350	400	500	600	695
l ₁	100	100	100	100	100	100	100	100	100	100	100	100
l ₂	185	185	200	250	250	285	345	365	445	505	565	610
l ₃	150	150	160	160	170	200	250	260	300	400	400	510
l ₄	200	200	250	250	250	250	300	400	400	400	400	500
l ₅	200	200	240	240	240	240	280	340	340	300	300	300
l ₆	80	80	100	110	120	140	170	198	223	233	243	315
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GSL Code	4	4	4	4	4	4	4	4	4	4	4	4
GSL Gewinde	M16	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M20
DL Code	13	17	20	23	28	30	40	50	60	70	80	88
Gewichte mit Handrad ca.	9,0	11,8	12,5	15,8	20,0	25,0	37,5	68,8	91,0	134,0	164,0	280,8



Plant structure with Assets



3D graphics with interactive infographics

Central Data Hub

connects your existing systems within the platform

Data Collection

- Collection of all relevant, static and dynamic data in one place
- Structured and analyzable data

Related Documents

- Integration of existing file systems or document management systems
- Central repository for all relevant documents

Photo Gallery

- Intuitive Photo Documentation

Documentation of practical knowledge

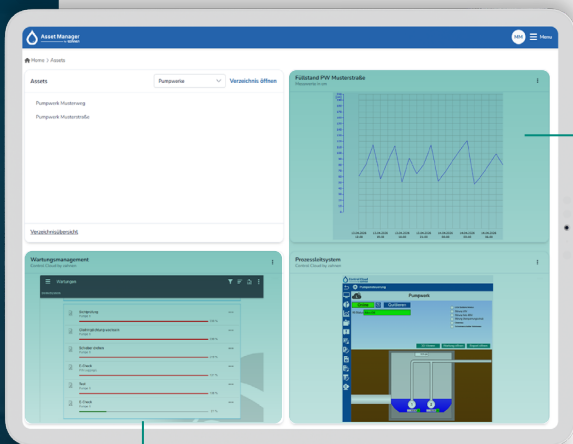
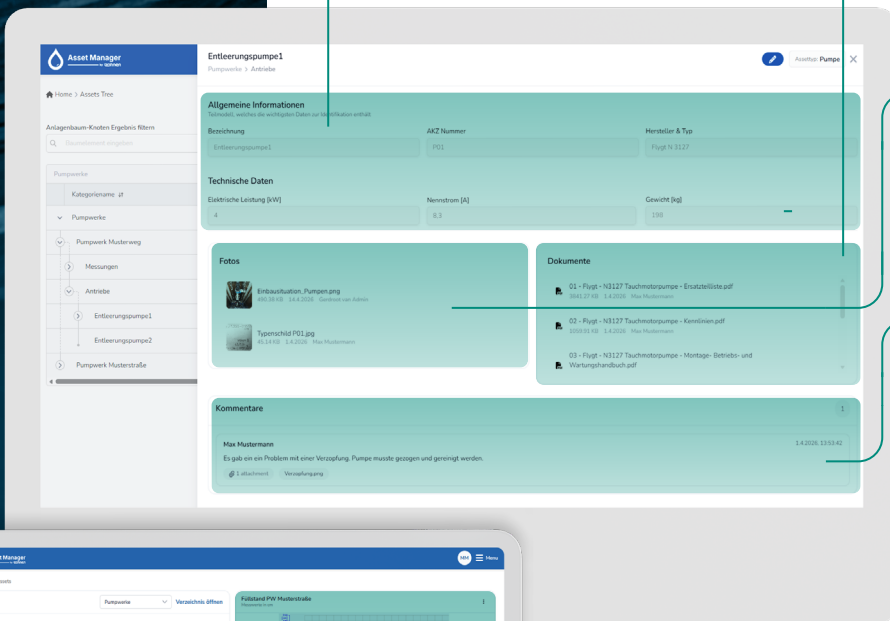
- Documentation of incidents, changes, and other important additional information
- The Asset's lifecycle is made transparent and traceable to everyone

Maintenance Management

- Integrated Maintenance Management
- Integration with customer-owned third system

Graphical representation

- Visualization of a wide variety of data
- Integration of process control systems



Your investment dashboard



Technical Documents,
Photos & Operating
Instructions



Service logs for
recent operations



Information regarding the
last inspection or repla-
cement of a component

Your way to digital investing.

How do you preserve valuable expertise & make it accessible to the entire team?

With Wave Cloud, we transform your unique business processes into an intelligent, digital surroundings.



Asset Manager
by **zahn**

1

Basic Setup

We lay the technical & organizational foundation for your asset manager.

- **PLATFORM SETUP**
Zahn sets up the basic structure of the platform for the client
- **TRAINING & HANDOVER TO THE CLIENT**
Practical training for a smooth & quick start

2

Fill the Platform

Your data is integrated, organized, and made immediately usable.

- **IMPORT OF ASSET DATA**
xlsx, documents, 3D scans, etc.
- **IMPORT FROM THE CUSTOMER'S ASSET MANAGEMENT SYSTEMS**
Data transfer from existing IT and control systems is possible
- **ON-SITE INVENTORY SURVEYS**
Digital recording of real plant structures
- **POPULATION BY THIRD PARTIES**
E.g., plant builders by project
- **IMPORT FROM WAVE CLOUD MODULES**
Pre Planner & Detail Engineer
- **OPTIONAL INTEGRATION OF CUSTOMER SYSTEMS**
E.g., PLS, DMS, maintenance management

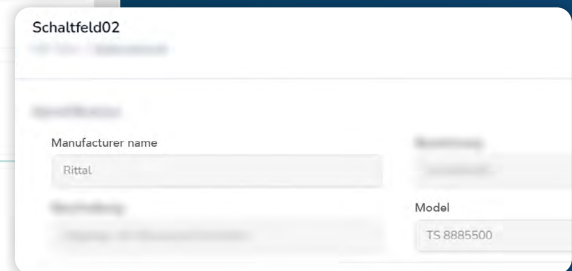
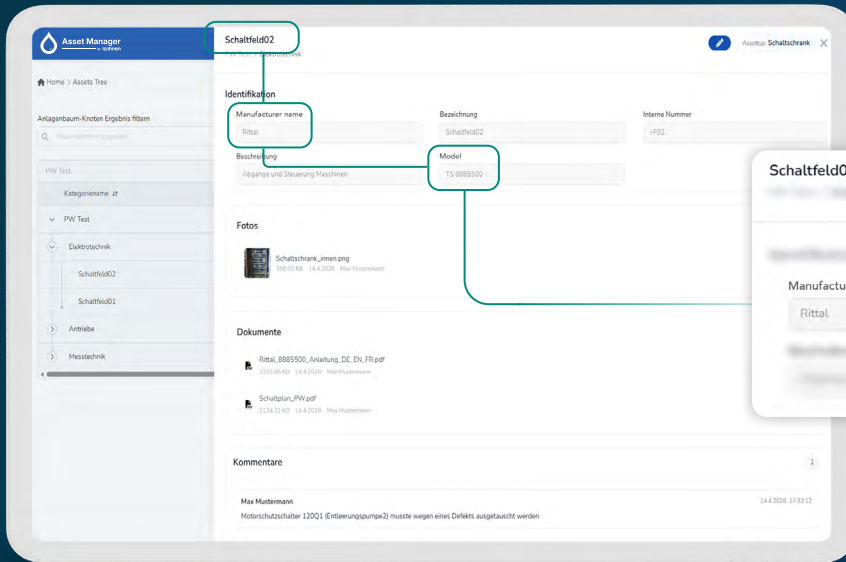
3

Go-Live

After handover, your asset manager will be there to support you.

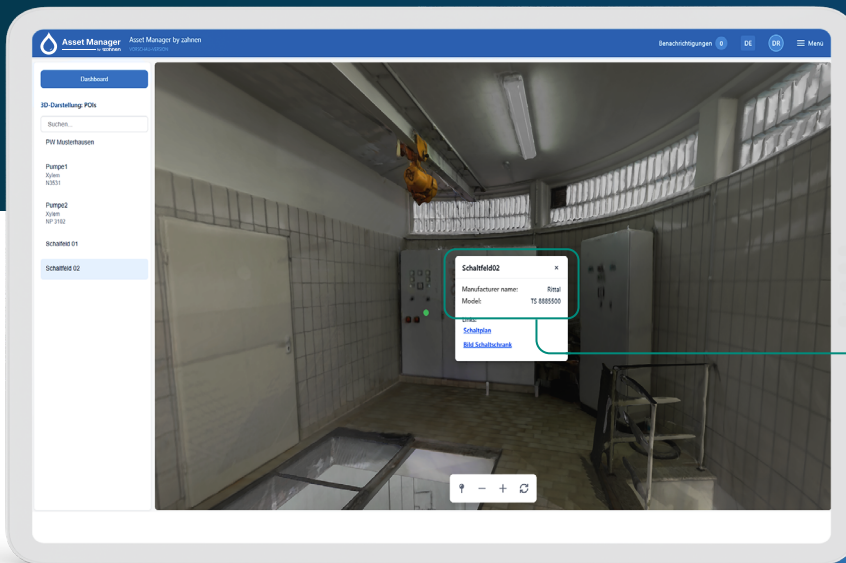
- **PRODUCTIVE USE**
Efficient use in daily operations
- **USERS & LICENSES**
Costs are based on the number of active users; any number of systems can be connected

Database 3D model



Data Hub

Seamlessly integrates your plant data & 3D models in both directions



✓ **Seamless integration** of database & 3D model (Points of Interest)

✓ **Direct access** to relevant information in the 3D model

✓ **Intuitive navigation** between the database and the model in both directions

✓ **Efficient retrieval & visualization** of plant data

Expertise & reliability in service & repair.

We support you throughout
the entire lifecycle of
your water system.

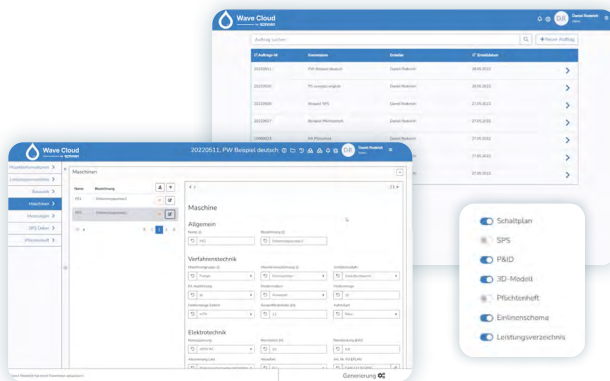


Wave Cloud

by **zahn**



Seamless flow of information from the
initial sketch to the digital twin.



Control Cloud

by **zahn**



Handles intelligent
monitoring during
operation.

Your Benefits IN FOCUS

- **PRESERVING KNOWLEDGE, FIGHTING SKILL SHORTAGES**
Experiential knowledge is stored in a structured digital format and remains within the company, independent of individuals. At the same time, structured processes boost the efficiency of existing teams.
- **SAVING TIME & REDUCING COSTS**
Routine tasks are automated. This reduces manual effort, minimizes errors through a single source of truth, and creates space for strategic tasks
- **MAKING COMPLEXITY MANAGEABLE**
All work steps are logically linked within a single system: transparent, traceable, and structured.

4 Wave Cloud-modules



Pre Planner by zahn

Planning

Preliminary process engineering and technical specifications form the digital starting point.



Detail Engineer by zahn

Engineering

Takes the Pre Planner data and automatically generates CAD Drawings and lists for electrical, mechanical, and automation engineering. Precise and compliant with standards.



Sales Manager by zahn

Sales

Utilizes technological tools to quickly configure and price products and systems during the sales process.



Asset Manager by zahn

Operation

The central, intuitive documentation system. This is where all data from planning and construction comes together to ensure efficient management of the facility for decades to come.

Wave Cloud is much more than just software

- ✓ Specifically developed for water & wastewater technology, based on over 500 completed projects.
- ✓ Tailored precisely to your company, your processes, and your technical standards.
- ✓ Stored in the cloud (Germany), accessible from anywhere and secure.



Daniel Roderich

Product Manager
Wave Cloud
by zahn

Platform effect

One-time data collection, lifetime benefits.

We eliminate data loss at interfaces and integrate planning, engineering, and operations into a **highly efficient, future-proof system.**

Water treatment with decades of experience

We are passionate plant engineers

Driven by our vision that everyone has the right to have clean water, Zahnen Technik develops holistic solutions for water and wastewater technology. Founded in 1958, we combine technical expertise, innovative strength, and experience from over 500 projects to ensure water quality and design plants that are both efficient and sustainable.

Our practical experience in the water sector forms the foundation of our Wave Cloud platform.



Zahnen core values

- Effective innovation
- Sustainable value
- Real reliability



CORE COMPETENCIES

Innovative solutions for a safe & sustainable water supply



Digitalization

Efficient planning & reliable expert knowledge with Wave Cloud & Control Cloud



Process Engineering

Reliable process solutions for water & wastewater treatment plants



Standardization

Consistent standards for quality, efficiency, and reusability



Mechanical Engineering

Construction & manufacturing of mechanical system components



Electrical Engineering

Planning & implementation of smart control and automation systems

For over 68 years, we have been combining process engineering with innovative project management.

With a nationwide presence

As part of Deutsche Wasser Holding, we combine local expertise with nationwide reach, drawing on over 1,000 completed projects

100 %

specialized in

water & wastewater systems



Deutsche Wasser Holding



Request a workshop

- Gather requirements
- Define specific benefits
- Establish a roadmap





**Because everyone has a right
to have clean water.**

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