Asset Manager

by zahnen

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 zahnen Plattform.



zahnen TECHNIK

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.

- Islands of information such as 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 and poor documentation lead to errors and compromise security.

Asset Manager by zahnen

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.



BENEFITS

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

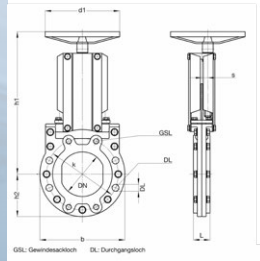
The highest standards for your digital twin.

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

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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

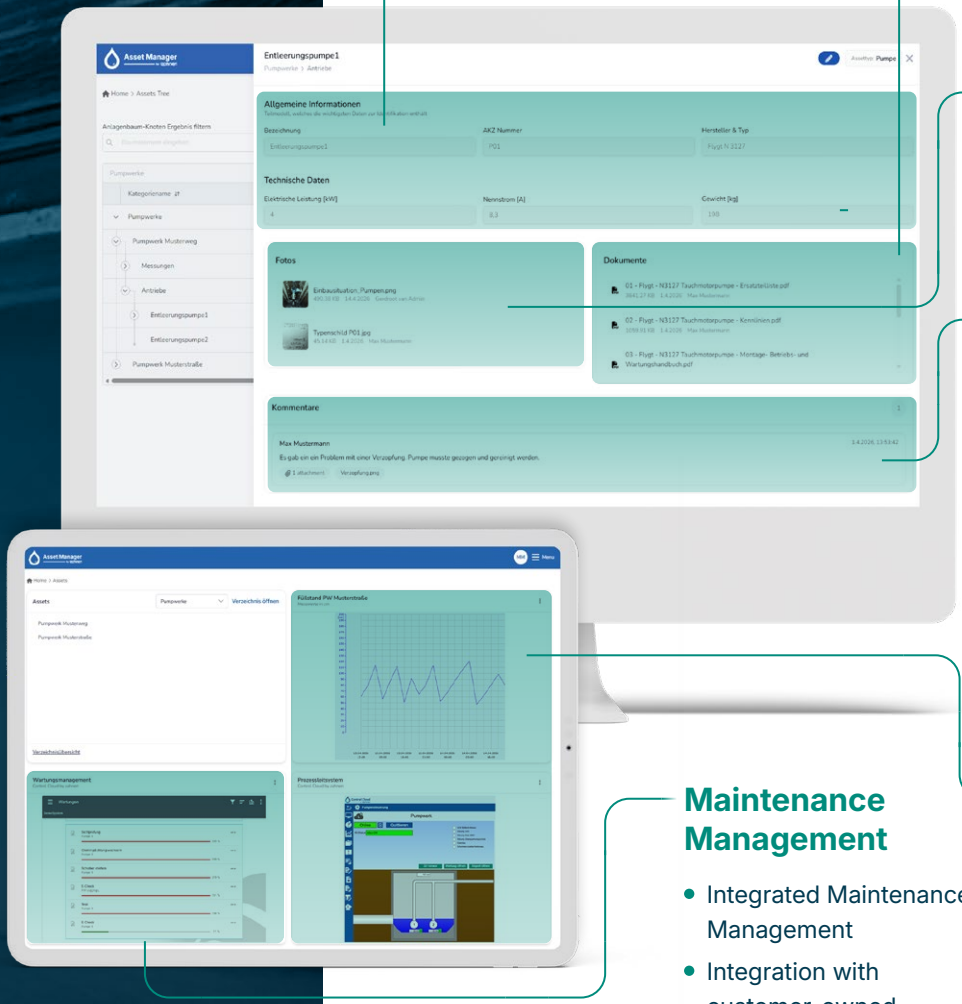


Photo Gallery

- 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 replacement 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 zahnen

1

Basic Setup

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

- **PLATFORM SETUP**
  Zahnen 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

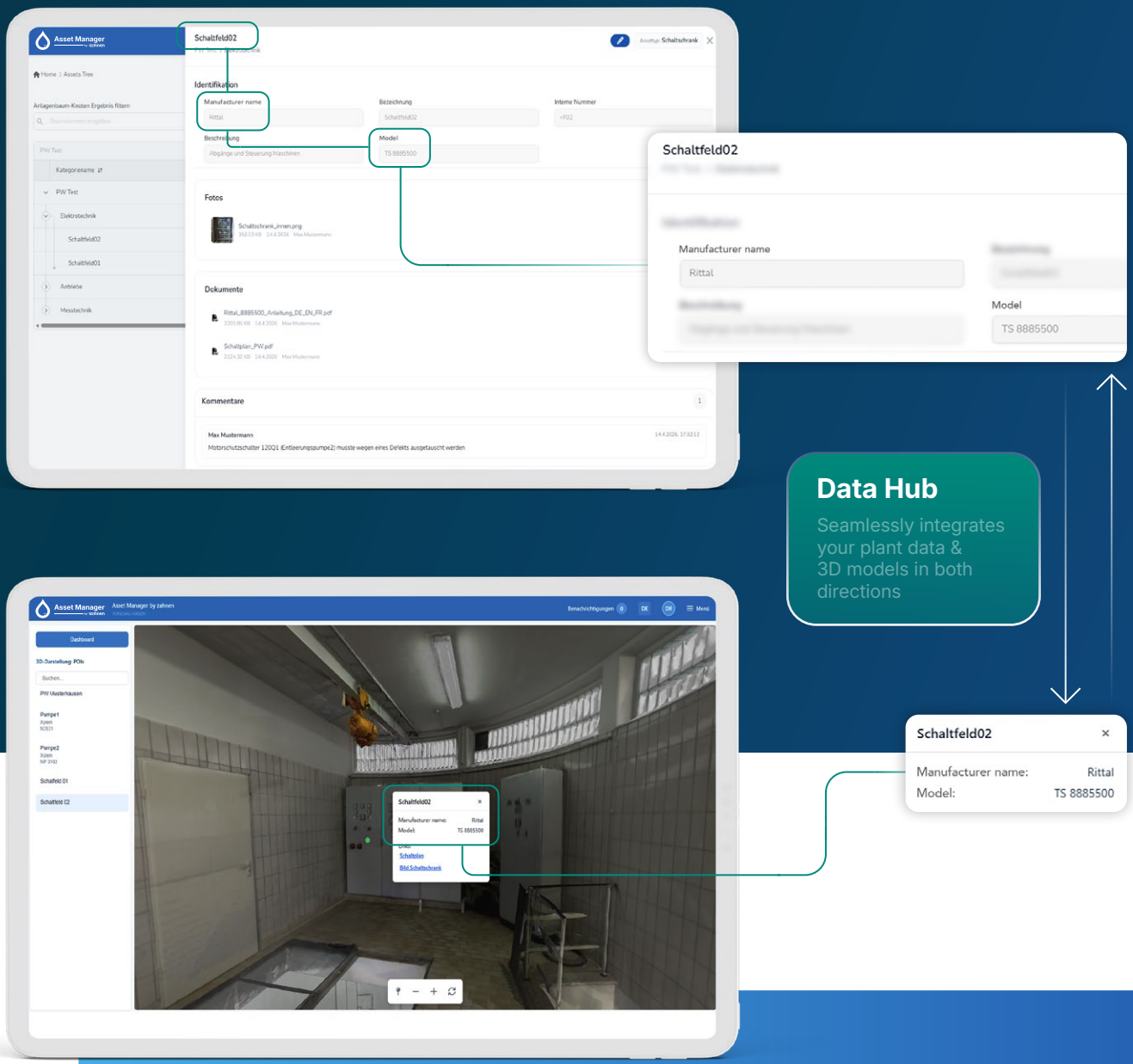
3

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



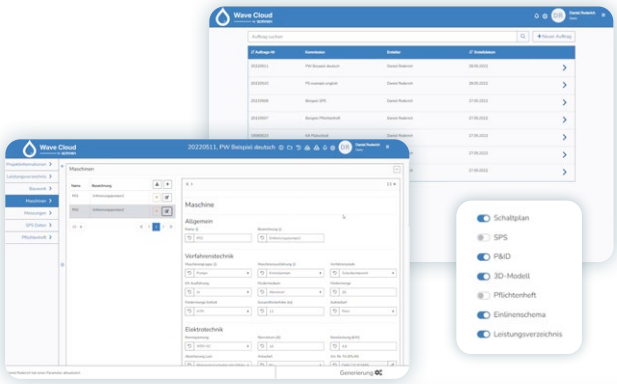
- **Seamless integration** of database & 3D model (Points of Interest)
- **Direct access** to relevant information in the 3D model
- **Intuitive navigation** between the database and the model in both directions
- **Efficient retrieval & visualization** of plant data

Expertise & reliability in service & repair.

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

Wave Cloud
by zahnen

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



Control Cloud
by zahnen

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 zahnen

Planning

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

Detail Engineer by zahnen

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 zahnen

Sales

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

Asset Manager by zahnen

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 zahnen

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

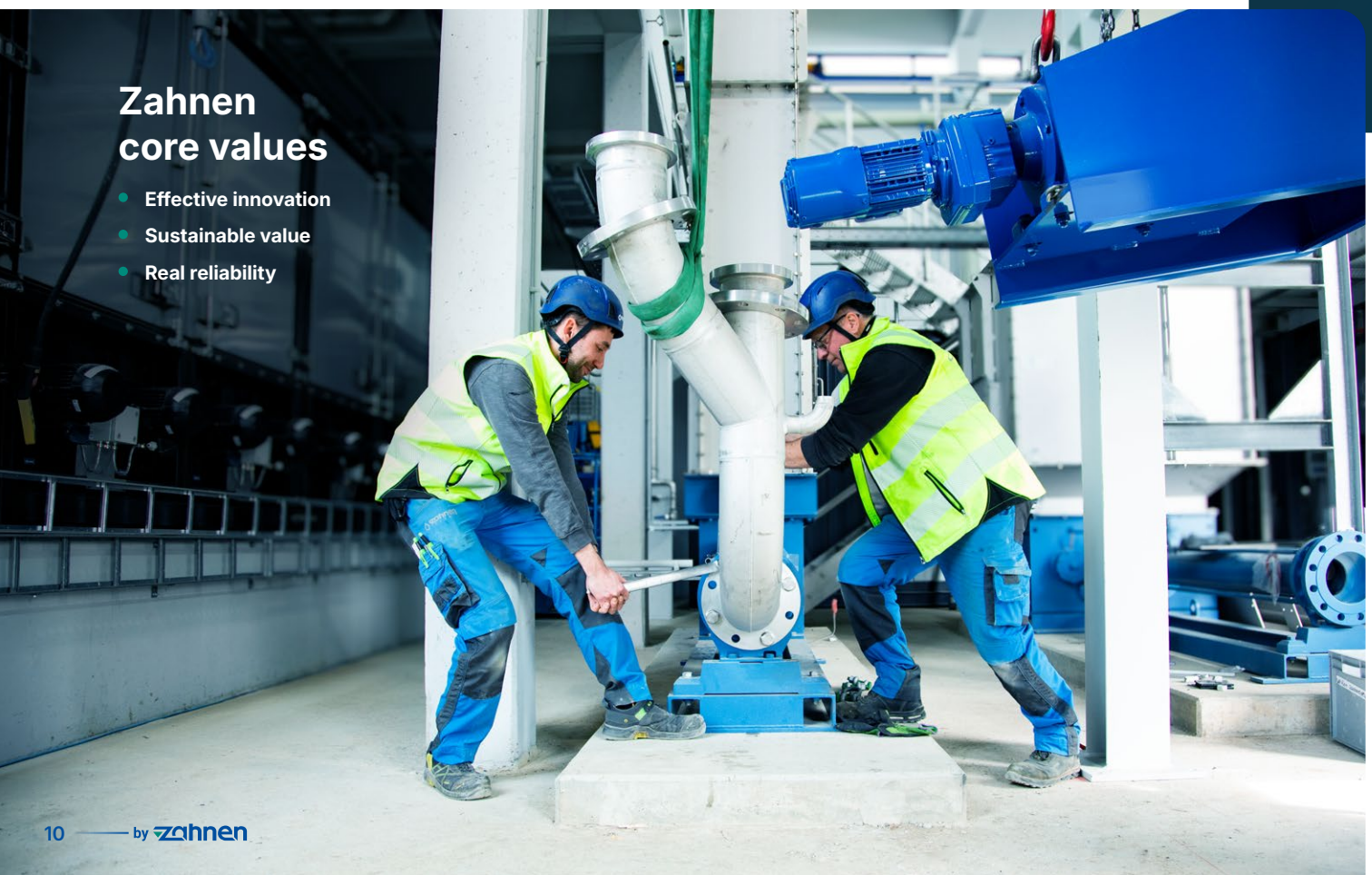
We are passionate plant engineers

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 & waste-water systems





Request a workshop

- Gather requirements
- Define specific benefits
- Establish a roadmap



10.2026
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