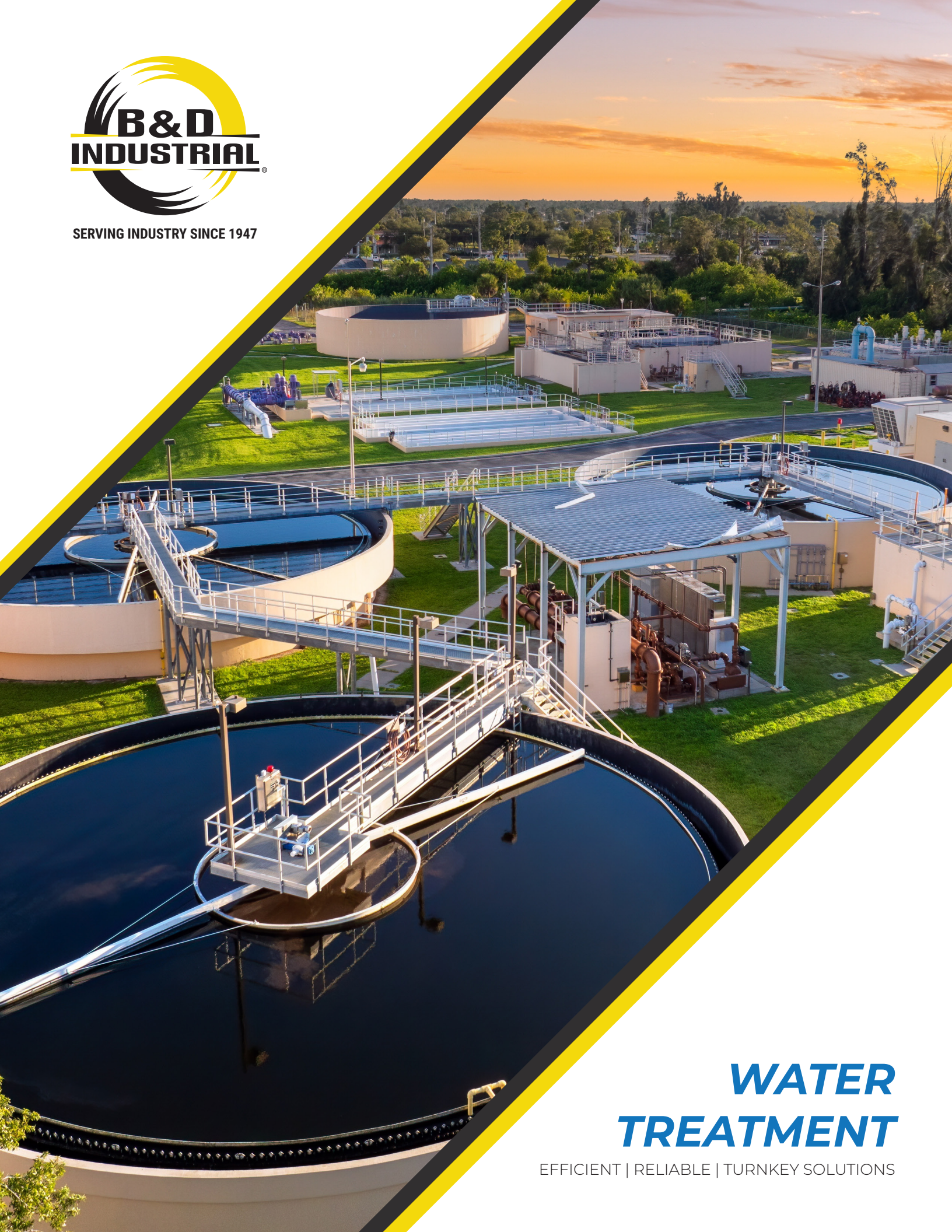




SERVING INDUSTRY SINCE 1947



# ***WATER TREATMENT***

EFFICIENT | RELIABLE | TURNKEY SOLUTIONS



# B&D INDUSTRIAL: A PARTNER BUILT FOR WATER

For over 75 years, B&D Industrial has supplied and serviced the rotating equipment, electrical systems, and material handling solutions that keep industrial facilities running – including the demanding, 24/7 environment of municipal water treatment. We partner with premier manufacturers and bring in-house expertise in gearbox repair, custom gear manufacturing, and electrical engineering, giving plants a single trusted source. From headworks to discharge, we know the equipment, the failure points, and how to keep your plant running.

## 1 LIFTING STATIONS

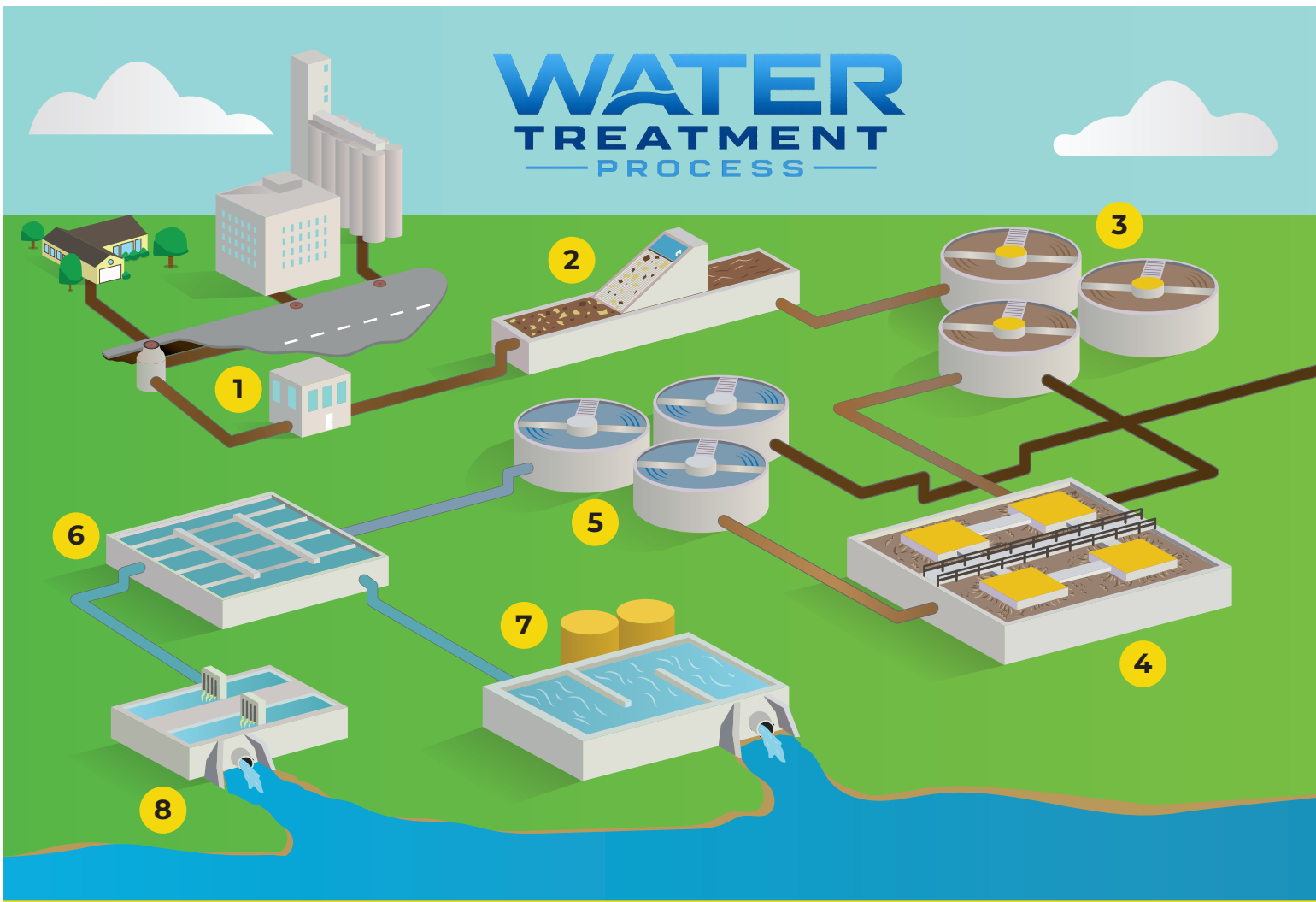
Reliable pumping is the first line of defense against backups and overflows.

- **Gearbox:** for vertical pump drives
- **VFD Service:** match motor speed to flow
- **MRO:** pump bearings, seals, lubricants, couplings
- **Motors:** NEMA & Vertical Hollow Shaft
- **Control Panels:** motor and pump control

## 2 HEADWORKS / BAR SCREENS

Gear-driven screens keep debris from fouling everything downstream.

- **Gearbox:** bar screen & rake drives
- **Material handling:** screw & drag conveyors, bucket elevators for screenings removal
- **Field Service:** for screen maintenance & inspections



### 3 PRIMARY CLARIFIERS

Where the heaviest solids and grease get separated before biological treatment.

- Gearbox: for clarifier rake drives
- Custom Gears: hard-to-source replacements
- Field service: alignment & vibration analysis
- Electrical: Motors, VFDs & Control Panels

### 4 AERATION BASIN

The bio engine of the plant runs on properly driven, properly controlled equipment.

- Gearbox: surface aerators & blower drives
- VFD Service: optimize oxygen levels & energy
- Control panel: for aeration control

### 5 SECONDARY CLARIFIERS

Final separation before water moves to filtration — uptime here is critical.

- Gearbox: for rake drives
- Field Service: emergency response
- MRO: bearings, seals, lubricants
- Electrical: Motors, VFDs & Control Panels

### 6 POLISHING FILTERS

The last mechanical step before disinfection demands consistent performance.

- MRO: seals, replacement parts
- Field Service: backwash system maintenance

### 7 UV/OZONE DISINFECTION

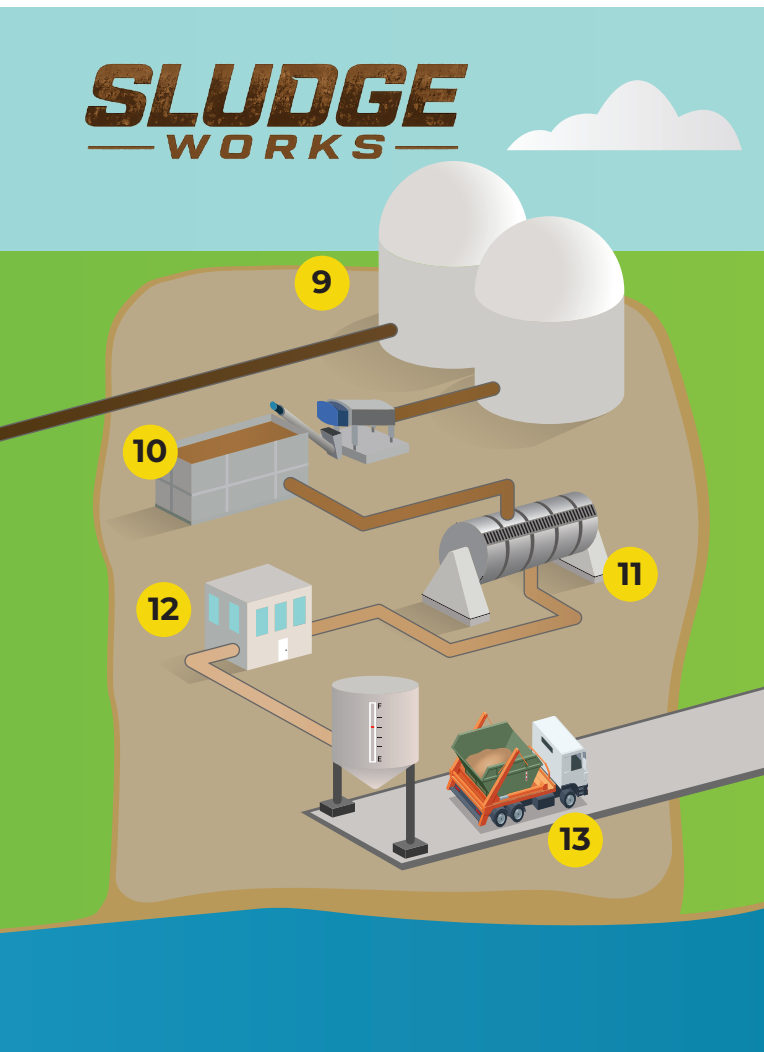
Electrical reliability here directly protects public health.

- Control panel: design & build
- VFD: reconditioning for dosing & circulation pumps

### 8 TESTING & DISCHARGE

Instrumentation and electrical systems must perform flawlessly.

- Electrical engineering & control panel: support for monitoring systems
- MRO: instrumentation & calibration supplies



**SLUDGE  
WORKS**

PROCESS ON BACK

# B&D INDUSTRIAL: A PARTNER BUILT FOR SLUDGE

From digester to dumpster, sludge handling puts equipment through some of the harshest conditions on the planet — B&D keeps it moving.

## 9 DIGESTERS

- **Gearbox:** for slow-speed mixer drives
- **Field Service:** on-site inspection

## 12 COMPACTOR

- **Gearbox:** hydraulic drive
- **MRO:** wear parts & consumables

## 10 DEWATERING

- **Gearbox:** for belt press & centrifuge drives
- **Material handling:** biosolids screw conveyors

## 13 HAUL TO LANDFILL

- **Material Handling:** design for loadout & conveying systems

## 11 DISC DRYER

- **Gearbox & Drive:** for dryer mechanisms
- **VFD Service:** for process control

For more industrial product and service information, reach out to a local branch:

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