

**DOWNUNDER4GOLD**

# DMT-50E

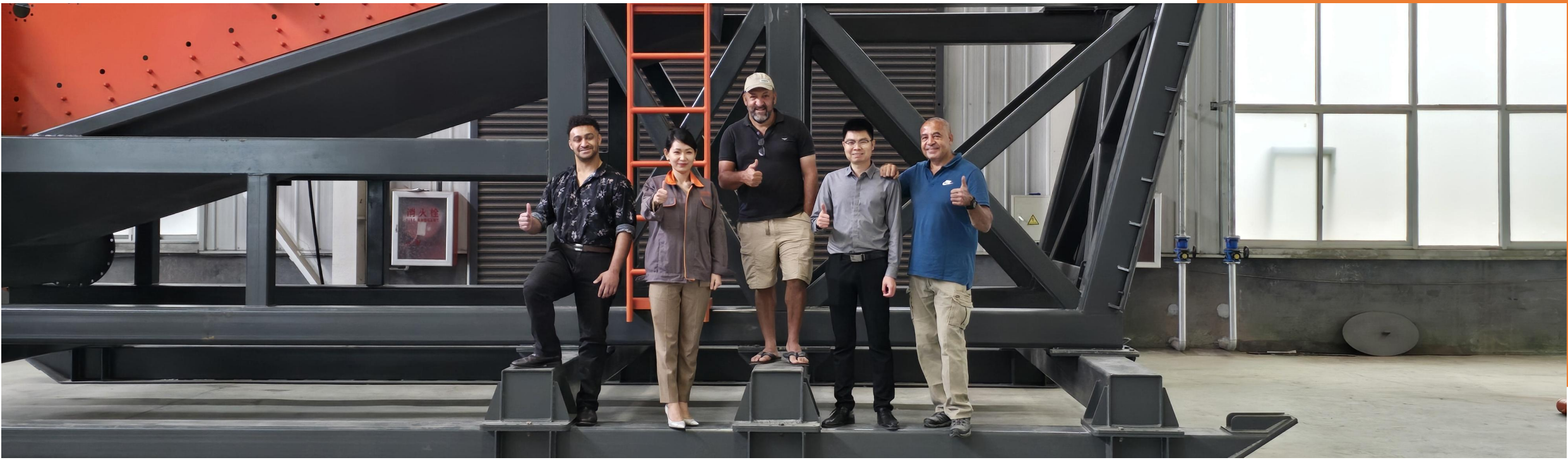
## Gold Trommel Wash Plant

Downunder (Shandong) Mining Technology Co.,Ltd.

**Proudly Made In China**

Product Overview



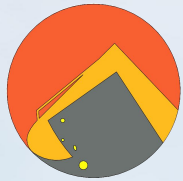


## About Downunder4gold

### Proudly Made In China

Downunder (Shandong) Mining Technology Co., Ltd. (Downunder4gold), established in 2023, is a trusted machinery enterprise specializing in artisanal and small-scale gold mining (ASGM) solutions, large-scale gold mining equipment manufacturing, and comprehensive one-stop services. Backed by our in-house machinery factory, we integrate design, production, and supply to deliver end-to-end value for our clients. Our team of seasoned designers and fabricators is dedicated to providing premium-quality services, ensuring every product meets the highest industry standards. Headquartered in Weifang, Shandong Province, China, we operate as a global innovator and supplier of gold mining machinery, complemented by robust trading and sourcing capabilities.

What sets us apart? Our uniquely engineered equipment is designed for exceptional efficiency—streamlining operations and saving your team critical time across the mining season. Beyond machinery, we stand by you as a reliable partner: our highly experienced professionals offer lifelong mechanical and technical support, ensuring your equipment performs at its best, from installation to long-term operation. Choose Downunder4gold—where innovation meets reliability, and your success is our priority.



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*Part 01*

## Product Introduction

Downunder (Shandong) Mining Technology Co.,Ltd.



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## Product Introduction

**DMT-50E gold trommel wash plant** is a medium to large-scale mining equipment designed for efficient gold recovery from placer deposits, such as riverbeds, alluvial soils, or other gold-bearing materials. This type of wash plant is capable of processing 50 tons of material per hour, making it suitable for larger mining operations or contractors who need higher throughput compared to mini wash plants.





*Part 02*

## **Key Features**

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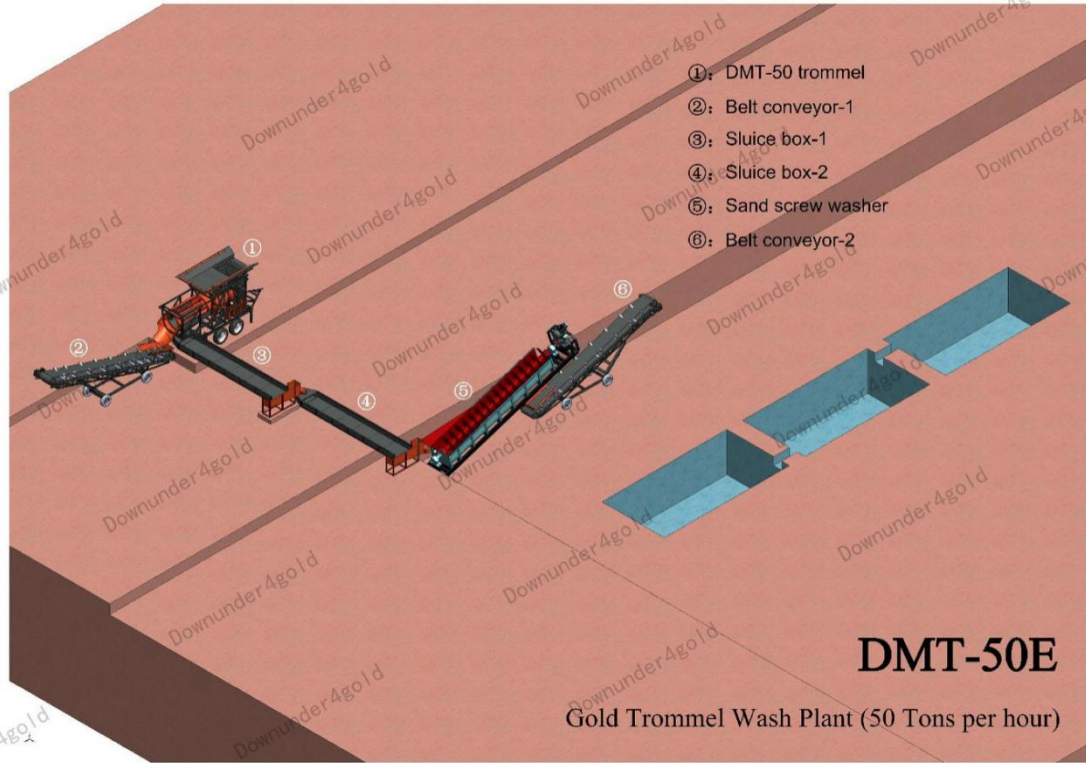
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## Key Features



### 1. High Capacity

Processes up to 50 tons of material per hour, making it ideal for medium to large-scale operations.

### 2. Trommel Design

Includes a rotating trommel screen to classify and separate material by size, ensuring efficient washing and gold recovery.

### 3. Durability

Built with robust materials to withstand harsh mining conditions.

### 4. Modular Design

Often modular for easy assembly, disassembly, and transportation.

### 5. Water Recycling System

Many models include water recycling systems to reduce water consumption and environmental impact. This part is optional, depends.

### 6. Customizable

Can be tailored to specific mining conditions, such as adding a sluice box, centrifugal concentrator, or other gold recovery systems.

### 7. Low Maintenance

Designed for minimal downtime and easy maintenance.



## *Part 03*

# Components

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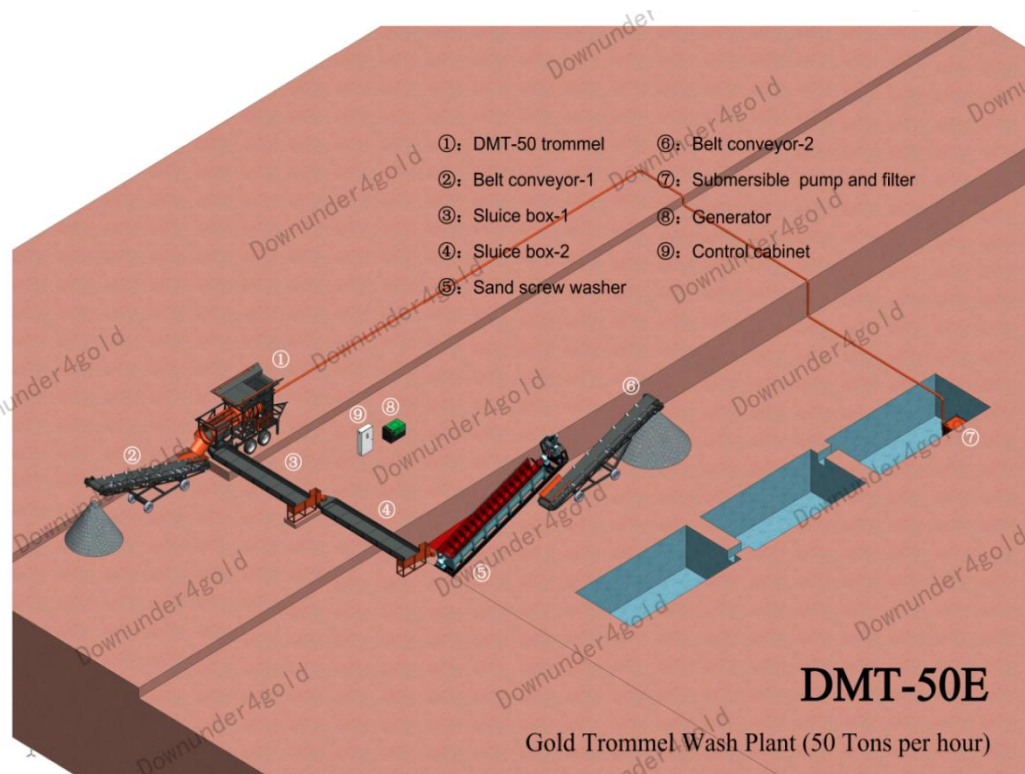
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## Components



- 1 Feeding Hopper** >>> Where raw material is loaded into the plant. Hopper with vibrating, Water jets inside hopper to wash the material, Ensures consistent material feed.
- 2 Trommel Screen** >>> A rotating cylindrical screen that separates larger rocks and debris from finer material. The trommel is often lined with mesh or punch plates to classify material by size.
- 3 Spray Bars** >>> Water jets inside the trommel wash the material, breaking up clay and releasing gold particles.
- 4 Sluice Box** >>> A gold recovery system with riffles to trap gold particles as water washes the material through.
- 5 Water Pump** >>> Supplies water to the trommel and spray bars for washing.
- 6 Concentrator (Optional)** >>> Additional equipment like a centrifugal concentrator or shaking table can be added to improve gold recovery.
- 7 Generator (Optional)** >>> Provides power in remote locations without electricity.
- 8 Support Structure** >>> A sturdy frame to support the trommel, sluice box, and other components.

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*Part 04*

**How It Works**

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## How It Works

### 1. Material Feeding

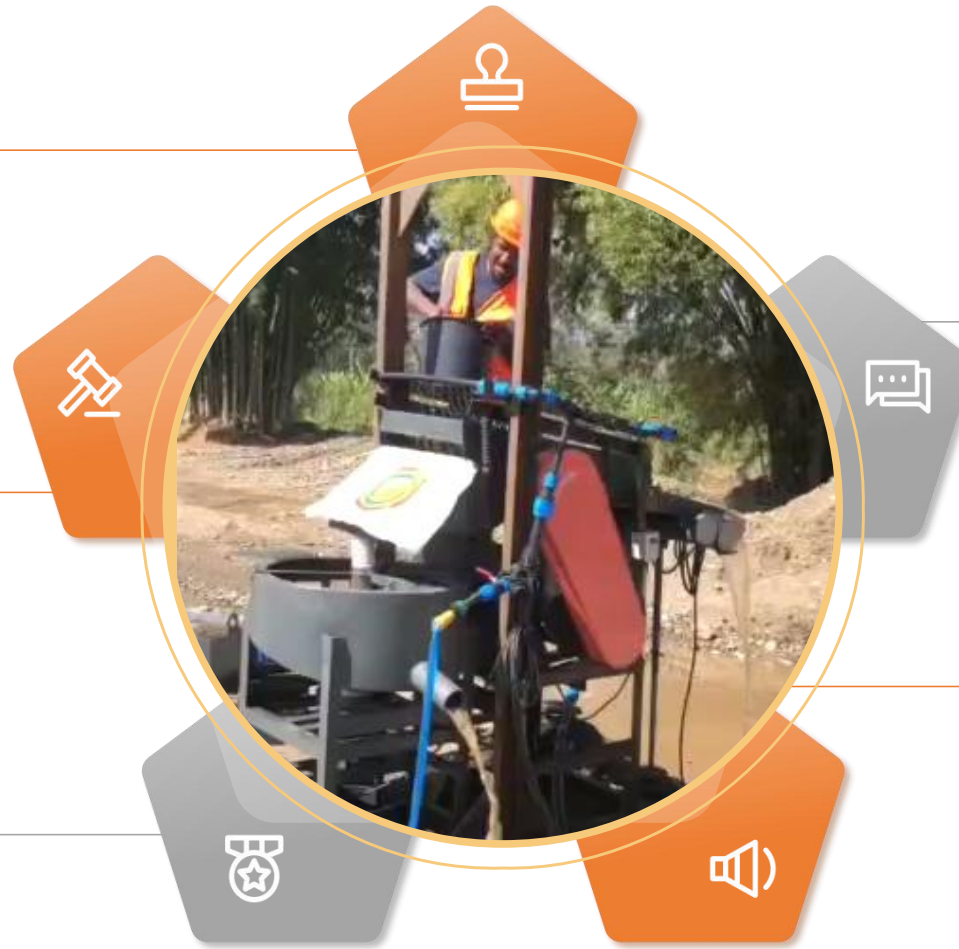
Raw material (gravel, soil, or sediment) is fed into the hopper.

### 5. Concentrate Collection

Concentrates from the sluice box are collected for further processing or refining.

### 4. Gold Recovery

The washed material flows into the sluice box, where gold particles are trapped by the riffles.



### 2. Trommel Screening

The trommel rotates, separating larger rocks and debris while washing the finer material.

### 3. Washing and Classification

Water from the spray bars breakdown clay and washes the material, allowing gold and finer particles to pass through the trommel screen.



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*Part 05*

## **Applications**

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## Applications



**Alluvial gold recovery in riverbeds or floodplains**



**Large-scale placer gold mining**



**Processing large volumes of gold-bearing material**



**Commercial mining operations**



*Part 06*

## **Advantages**

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## Advantages

### 5. Environmentally Friendly

Water recycling systems reduce water usage and environmental impact. It's optional.



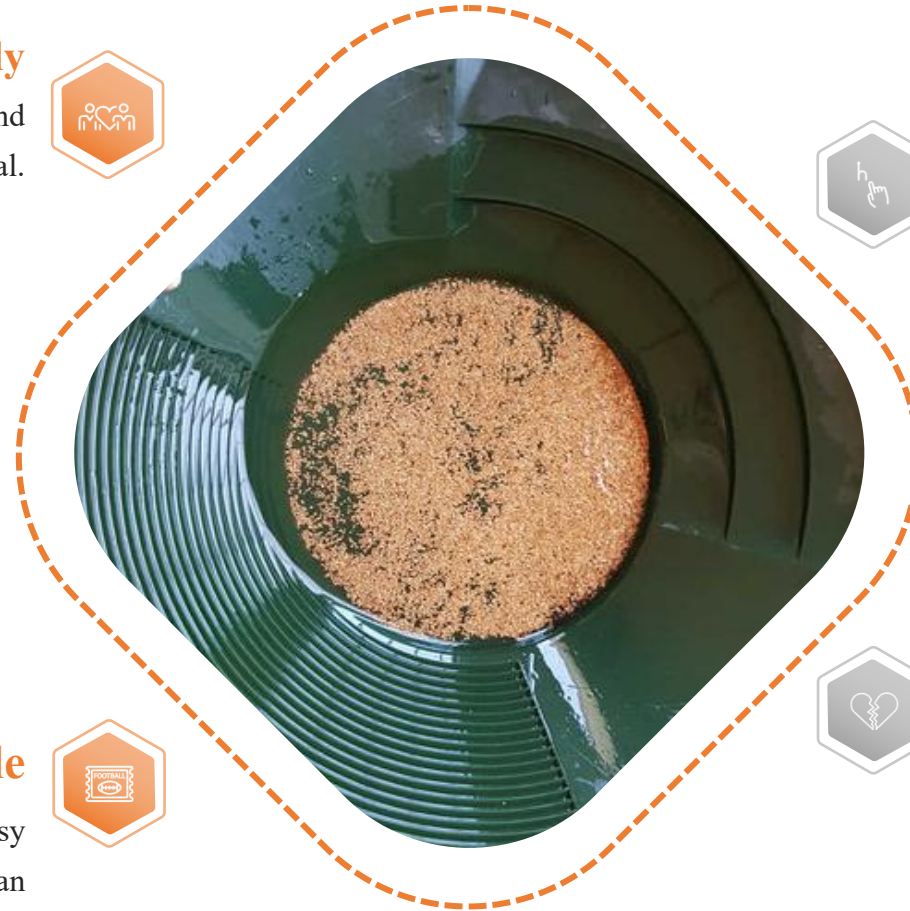
### 4. Scalable

Can be customized with additional equipment to improve recovery rates.



### 3. Portable or Semi-Portable

Many models are designed for easy relocation, though they are larger than mini wash plants.



### 1. High Throughput

Capable of processing 50 tons of material per hour, making it efficient for larger operations.



### 2. Efficient Gold Recovery

Combines trommel washing and sluice box recovery for high gold recovery rates.





## *Part 07*

# Considerations

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## Considerations



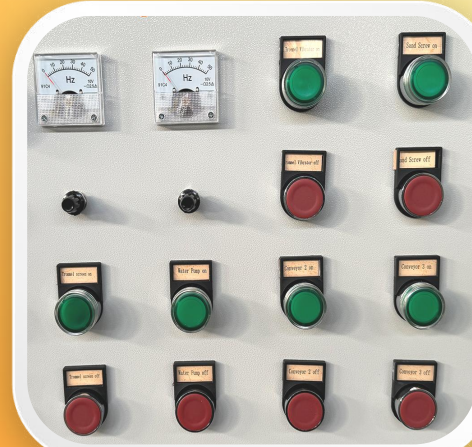
### - Water Supply

Requires a reliable water source for operation.



### - Power Supply

May need a generator or external power source in remote locations.



### - Setup Time:

Larger than mini wash plants, so setup and disassembly may take more time.



### - Cost

Higher initial investment compared to smaller wash plants, but justified by higher throughput and efficiency.



## *Part 08*

# Product parameters

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## Product parameters



### Technical Data Sheet: DMT-50E gold trommel wash plant

#### General Specifications:

Model	DMT-50E
Capacity	50 tons per hour (depending on material type and conditions)
Power Requirement	20-30 kW (depending on configuration)
Water Requirement	100 cubic meter hour(m <sup>3</sup> /h)
Dimensions (L x W x H)	5600*2000*3500 mm (approx.)
Weight	5,000-7,000 kg (depending on configuration)
Material	High-grade steel (wear-resistant and durable)

#### Trommel Specifications:

Trommel Diameter	1.0 meters
Trommel Length	4.0 meter
Screen Mesh Size	Customizable (e.g., 10mm, 20mm, or 30mm)
Rotation Speed	8-12 RPM (adjustable)
Spray Bars	6-8 bars with high-pressure nozzles for efficient washing
Drive System	Electric motor or diesel engine (optional)

#### Sluice Box Specifications:

Length	6-12 meters
Width	1.0 meters or 2.0 meters
Riffle Design	Hungarian riffles or expanded metal riffles
Matting	Rubber matting or miner's moss or dream mat for gold trapping
Adjustability	Sluice angle can be adjusted for optimal recovery

#### Water System:

Water Pump	4-6 inch centrifugal pump or submersible pump
Flow Rate	100 m <sup>3</sup> /h-150 m <sup>3</sup> /h
Water Recycling	Optional water recycling system available
Hose Diameter	4-6 inches
Hose Type	PVC Lay-flat or rubber hose

#### Power Options:

Electric Motor	Trommel 7.5kw + Water pump 18.5kw (standard)
Diesel Engine	Optional for remote locations
Generator	Available as an add-on for off-grid operations



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# Product parameters



This technical data sheet provides a comprehensive overview of a 50 ton-per-hour gold trommel wash plant. For specific details or customization options, consult Downunder4gold.

Technical Data Sheet: DMT-50E gold trommel wash plant	
<b>Optional Add-Ons:</b>	
Centrifugal Concentrator	Enhances fine gold recovery.
Shaking Table	For final concentration of gold.
Conveyor Belt	For easier material handling.
Water Recycling System	Reduces water consumption.
Gold Recovery Rate	60-95% (depending on material and setup)
<b>Performance</b>	
Material Handling	Suitable for clay-rich, gravel, or sandy soils
Operating Conditions	Can operate in wet or dry environments (with modifications)
Mobility	Mounted on a trailer or skids for easy transport
Transportation:	
Setup Time	4-6 hours (depending on site conditions)
Dismantling Time	3-5 hours
<b>Environmental Features</b>	
Water Recycling	Reduces water usage and environmental impact
Low Noise	Designed for minimal noise pollution
Eco-Friendly	Minimal chemical use (if any)
<b>Maintenance</b>	
Lubrication Points	Easy-access grease points for bearings and moving parts
Wear Parts	Replaceable trommel screens, spray bars, and riffles
Service Interval	Every 200-300 operating hours
<b>Applications</b>	Placer gold mining/Alluvial gold recovery
	River and stream mining/Large-scale prospecting
<b>Manufacturer Support</b>	
Warranty	1-year limited warranty
Technical Support	Available for setup, operation, and troubleshooting
Spare Parts	Readily available for quick replacements



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Thank you for your attention.  
If you have any questions,  
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code and contact us. Looking  
forward to hearing from you!

