

DOWNUNDER4GOLD

DMT-100

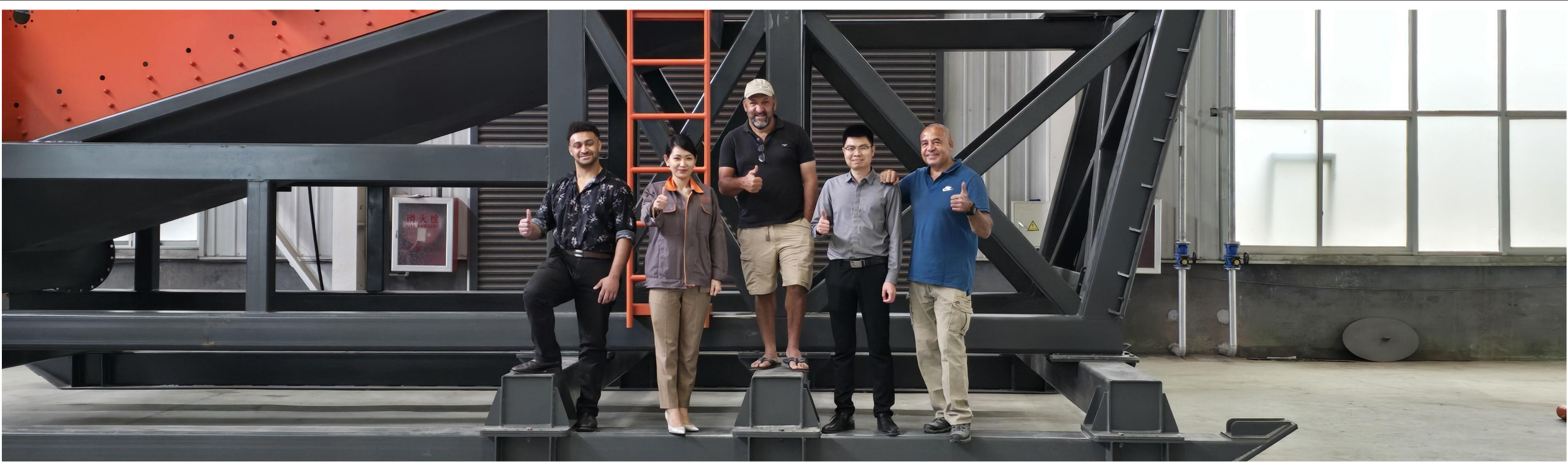
Gold Trommel Wash Plant

Downunder (Shandong) Mining Technology Co.,Ltd.

Proudly Made In China

Product Overview



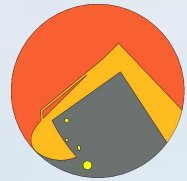


About Downunder4gold

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.



DOWNUNDER4GOLD

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Part 01

Product Introduction

Downunder (Shandong) Mining Technology Co.,Ltd.



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Factory address: No.777 Qingling road, Qingzhou city, Weifang, Shandong Province, China

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Product Introduction



DMT-100 gold trommel wash plant is a large-scale, high-capacity 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 100 tons of material per hour, making it ideal for commercial mining operations, large-scale contractors, or mining companies with significant gold-bearing material to process.



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Part 02

Key Features

Downunder (Shandong) Mining Technology Co.,Ltd.



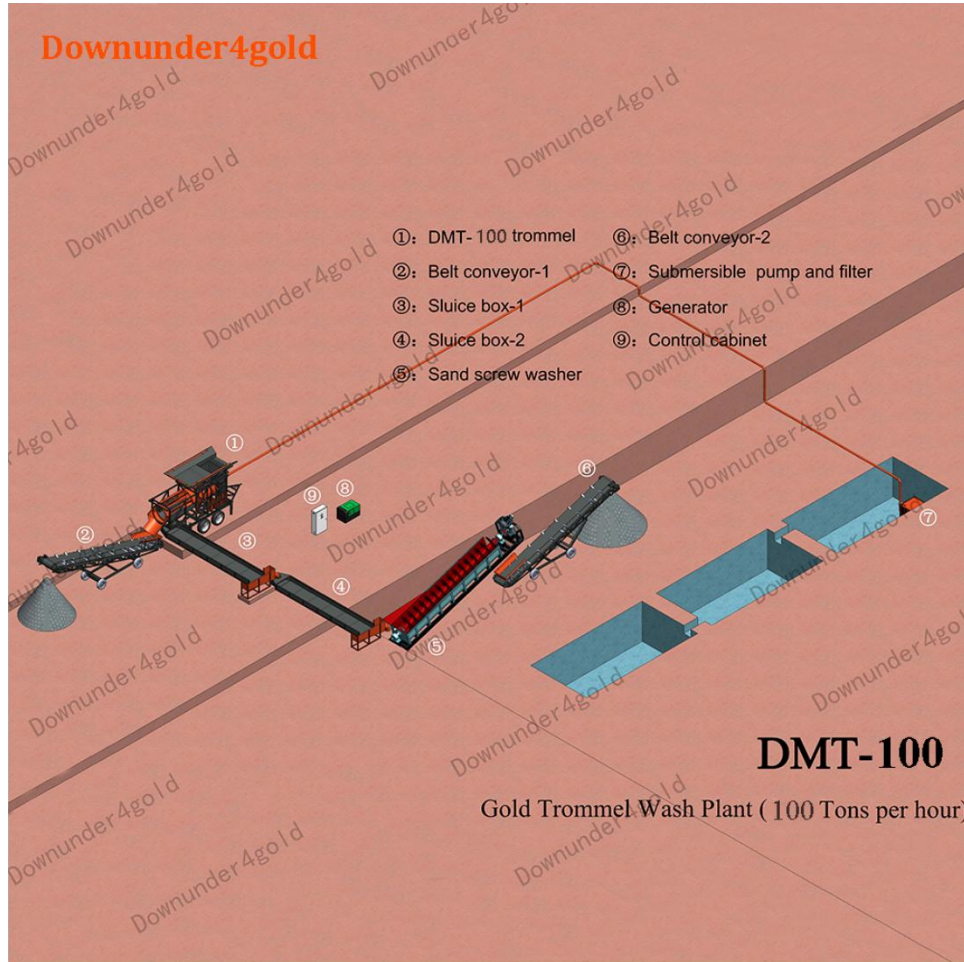
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Key Features



High Capacity

Processes up to 100 tons of material per hour, making it suitable for large-scale operations.

Trommel Design

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

Durability

Built with heavy-duty materials to withstand harsh mining conditions and continuous operation.

Modular Design

Often modular for easy assembly, disassembly, and transportation.

Water Recycling System

Includes water recycling systems to reduce water consumption and environmental impact.

Customizable

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

Low Maintenance

Designed for minimal downtime and easy maintenance.



Part 03

Components

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Components

Feeding Hopper

1

Where raw material is loaded into the plant. Hopper with vibrating, Water jets inside hopper to wash the material,Ensures consistent material feed.

Trommel Screen

2

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.

Spray Bars

3

Water jets inside the trommel wash the material, breaking up clay and releasing gold particles.

Sluice Box

4

A gold recovery system with riffles to trap gold particles as water washes the material through.



8

Support Structure

A sturdy frame to support the trommel, sluice box, and other components.

Generator (Optional)

7

Provides power in remote locations without electricity.

Concentrator (Optional)

6

Additional equipment like a centrifugal concentrator or shaking table can be added to improve gold recovery.

5

Water Pump

Supplies water to the trommel and spray bars for washing.



Part 04

How It Works

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How It Works

02. Trommel Screening

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



04. Gold Recovery

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



01. Material Feeding

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



03. Washing and Classification

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



05. Concentrate Collection

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



Part 05

Applications

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Applications



Alluvial gold recovery in riverbeds or floodplains



Processing large volumes of gold-bearing material



Large-scale placer gold mining



Commercial mining operations



Part 06

Advantages

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Advantages



High Throughput

Capable of processing 100 tons of material per hour, making it efficient for large operations.

Efficient Gold Recovery

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

Portable or Semi-Portable

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

Environmentally Friendly

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

Scalable

Can be customized with additional equipment to improve recovery rates.



Part 07

Considerations

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Considerations



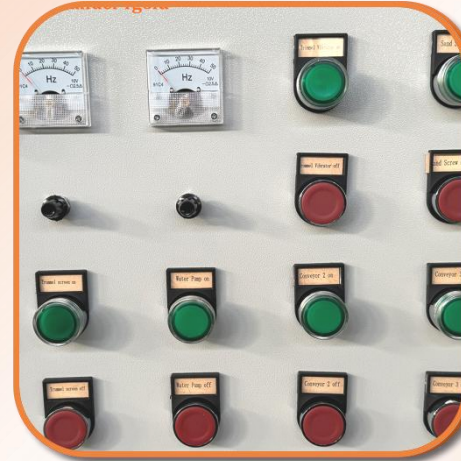
- Water Supply:

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.



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Part 08

Product parameters

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Product parameters



Technical Data Sheet: DMT-100 gold trommel wash plant

General Specifications:

Model	DMT-100
Capacity	100 tons per hour (depending on material type and conditions)
Power Requirement	60-100 kW (depending on configuration)
Water Requirement	200~400 cubic meter hour(m³/h)
Dimensions (L x W x H)	7500*3200*5000 mm (approx.)
Weight	12,000-15,000 kg (depending on configuration)
Material	High-grade steel (wear-resistant and durable)

Trommel Specifications:

Trommel Diameter	1.5 meters
Trommel Length	5.4 meter
Screen Mesh Size	Customizable (e.g., 10mm, 20mm, or 30mm)
Rotation Speed	8-12 RPM (adjustable)
Spray Bars	2-3 bars with high-pressure nozzles for efficient washing
Drive System	Electric motor

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	6-8 inch centrifugal pump or submersible pump
Flow Rate	200 m³/h-350 m³/h
Water Recycling	Optional water recycling system available
Hose Diameter	6-8 inches
Hose Type	PVC Lay-flat or rubber hose

Power Options:

Electric Motor	Trommel 15kw + Water pump 37kw (standard)
Diesel Engine	Optional for remote locations
Generator	Available as an add-on for off-grid operations



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This technical data sheet provides a comprehensive overview of a 100-ton-per-hour gold trommel wash plant. For specific details or customization options, consult Downunder4gold.

Technical Data Sheet: DMT-100 Pro gold trommel wash plant

Optional Add-Ons:

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)

Performance:

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	6-8 hours (depending on site conditions)
Dismantling Time	4-6 hours

Environmental Features:

Water Recycling	Reduces water usage and environmental impact
Low Noise	Designed for minimal noise pollution
Eco-Friendly	Minimal chemical use (if any)

Maintenance:

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

Applications:

Placer gold mining/Alluvial gold recovery
River and stream mining/Large-scale prospecting

Manufacturer Support:

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,
please feel free to scan the
code and contact us. Looking
forward to hearing from you!

