



GOLD MINE TECHNOLOGY

- Develops and implements projects:
 - On-site washing complexes for placer and technogenic gold mining;
 - Placer gold-concentrating sites (PGCS);
- Performs an audit of mining technology at customer sites;
- Mines gold from technogenic deposits.

- We are improving technology from season to season
 - We offer only those products that have proven effective in practice

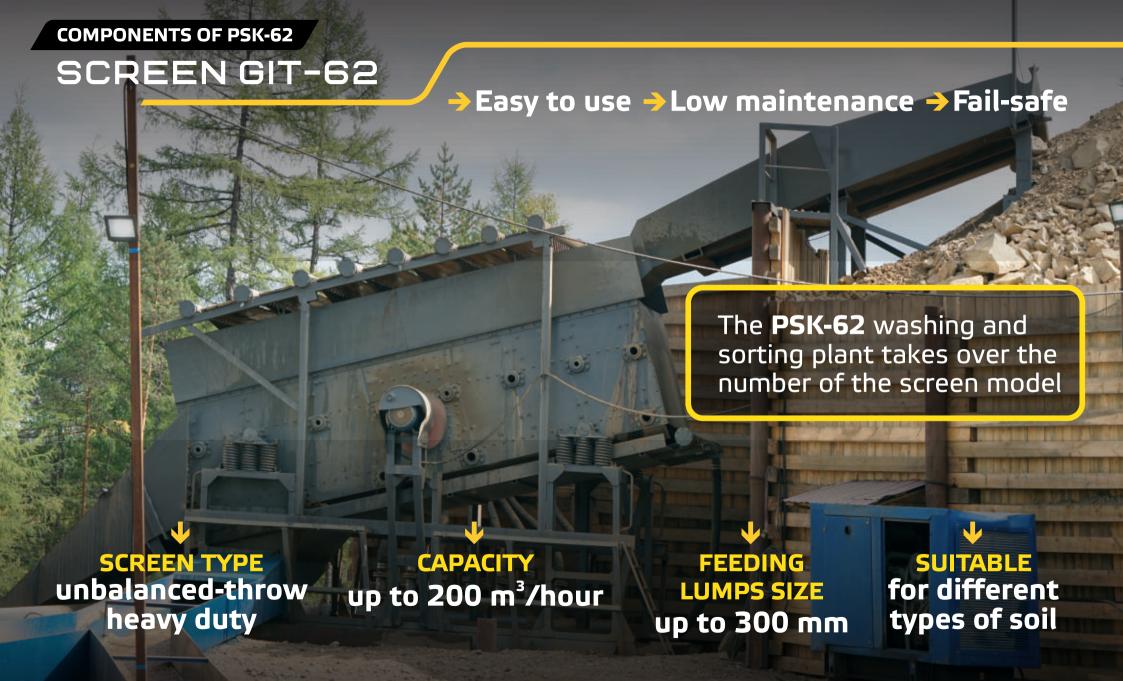
In 2019, Gold Mine Technology started an own project of mining a technogenic gold deposit

- → The technogenic gold deposits are more accessible than the endogenous ones, they have:
 - Simplified documentation procedure
 - Low acquisition cost
 - No stripping required

- → On the other hand, they have:
 - Lower gold content
 - Prevailing small fractions of gold

- The development demands using a washing and sorting plant:
 - Capable to wash a large amount of sand
 - Providing the maximum extraction of the hard-cleaning gold.

We ended up having our PSK-62 washing and sorting plant of enhanced gold recovery designed and tested



SPRINKLER SYSTEM

Provides forced erosion of sand on the washing screen



- Mounted on the screen frame
- Forms soil washout at the top deck
- Adjustable working pressure of the water supplied to the nozzles – up to 3 atmospheres
- The nozzles can rotate to change the approach angle



COMPONENTS OF PSK-62

JIGGING MACHINES

Cascade installation

MOD-1

at the downstream of the first line of the jigging machines to collect the undersize jigging product Capacity up to 10 t/hour Feed size up to 15 mm

MOD-2

for each of four gateways Capacity up to 25 t/hour Feed size up to 15 mm

MOD-0,2

to complete the jigging cascade Capacity up to 0,9 t/hour Feed size up to 8 mm



Capture small grains of gold

Accelerate material take-down from the gateways

Exclude take-down losses



The Gold Mine Technology's placer gold-concentrating site includes

Receiving hopper	Volume 10 m ³		
Jugging screen GIL-21 with sprinklers system	Capacity up to 5 t/hour; Feed size up to 150 mm	Mounted	
Conveyor	Transportation of large fraction to the dump	outside	
Jigging machine with a fixed sieve MOD-1	Capacity up to 10 t/hour; Feed size up to 15 mm		
Jig diaphragm machine MOD-0,2	Capacity up to 0,9 t/hour; Feed size up to 8 mm	Mounted in 20' metal container with wooden	
Concentrating table SKO-1	Capacity 0,044,0 mm; Feed size 0,22,0 mm		
Melting furnace	Melting of enriched concentrate from the concentrating table	additions	

ACHIEVEMENTS OF WASHING SEASON 2019

The determined goal has been achieved! We minimized the small grain and hard-cleaning gold losses while keeping the output high.

 \rightarrow The average gold content in the deposit at the end of the season was 211mg/m³

	Deposit geological data	Screened gold assay			
Gold fraction	Size frequency				
Extra fine (up to 0,25 mm)	6,7%	26%	<0,08 mm	1,8%	
			0,08-0,16 mm	12,2%	
			0,16-0,25 mm	12%	
Fine (0,25-0,8 mm)	85,2%	67%	0,25-0,4 mm	27%	
			0,4-0,8 mm	40%	
Medium size (0,8-2,5 mm)	8%	7%	0,8-1,4 mm	7%	
			>1,4 mm	0%	
Large size (more than 2,5 mm)	0,1%	0%			

