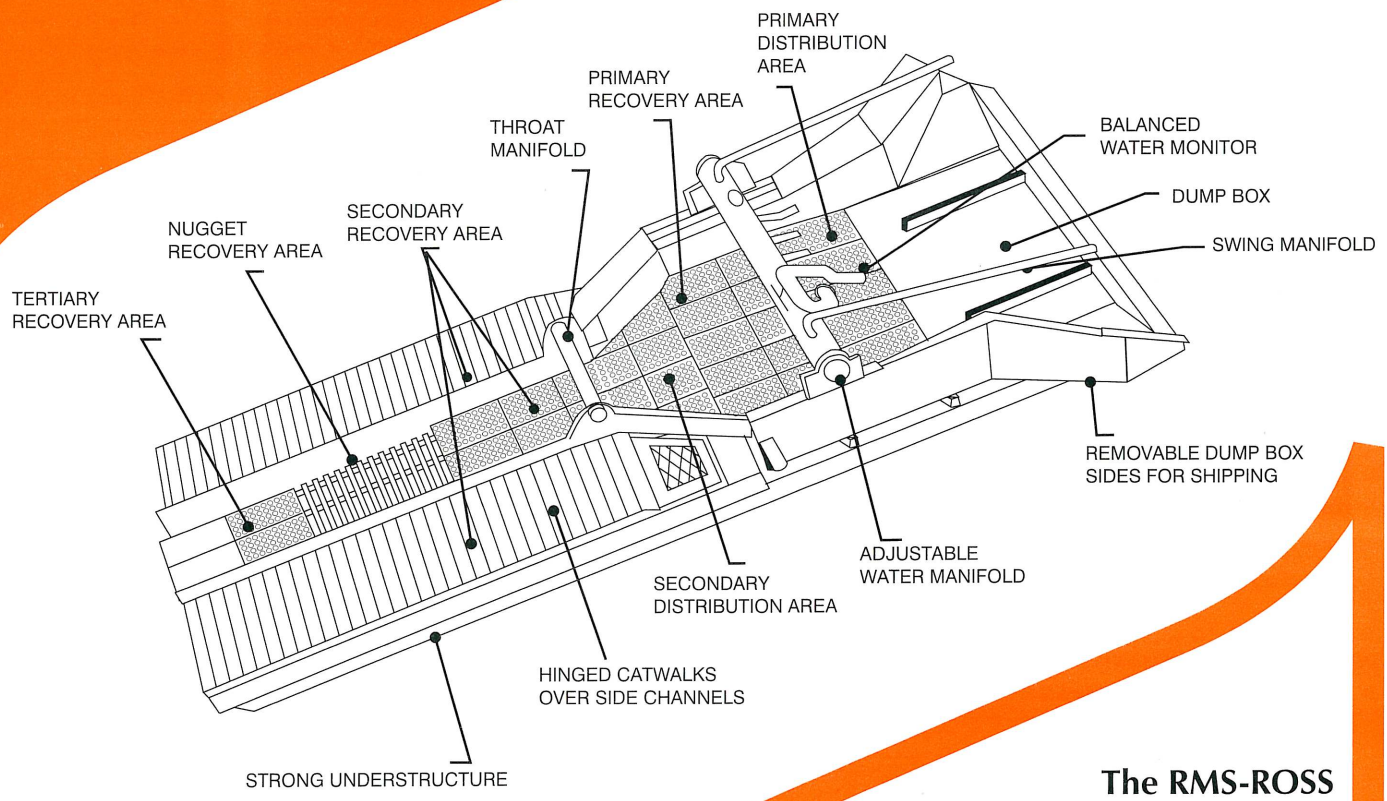
THE RMS-ROSS SYSTEM:

The Economical Mining of Low Grade Placer Gold Deposits



The RMS-ROSS Gravity Recovery System is the ultimate in high volume recovery, low cost operations to create profitable operation even in low grade alluvial deposits.

With no moving parts, except for pumps and earth moving equipment, this RMS-ROSS system is ideal for remote locations.

CANADIAN PATENT: 1074263
U.S. PATENT: 4199441

The RMS-ROSS system is proven, with installations world wide.

RMS-ROSS CORPORATION

44325 YALE ROAD WEST
CHILLIWACK, B.C. V2R 4H2

TEL: (604) 792-5911
or (604) 792-4361
FAX: (604) 792-7148

RMS-ROSS SLUICE BOX

SIZE	DUMP BOX		SLUICE BOX		OVERALL	WATER VOLUME (Minimum)	WEIGHT (Estimate)	YARDS/ HOUR (Approx.)
	Length	Width	Length	Width	Length			
MODEL NUMBER	**FEET** (metres)		**FEET** (metres)		**FEET** (metres)	U.S. Gal/Min (L/Min)	**LBS.** (kgs)	
R9 - 9	10 (3.05)	18 (5.49)	18 (5.49)	9 (2.74)	34 (10.37)	6,500 (26,000)	28,000 (11,250)	150
R9 - 12	12 (3.66)	20 (6.10)	18 (5.49)	12 (3.66)	36 (10.98)	8,000 (32,000)	35,000 (15,750)	200
R9 - 16	16 (4.88)	22 (6.71)	22 (6.71)	16 (4.88)	46 (13.42)	10,000 (38,000)	58,000 (20,500)	350
R9 - 23	16 (4.88)	30 (9.14)	34 (10.36)	23 (7.01)	50 (15.24)	18,000 (60,500)	75,000 (34,000)	500
R9 - 32	18 (5.49)	40 (12.19)	40 (12.19)	32 (9.75)	58 (17.70)	20,000 (76,000)	95,000 (43,000)	700

*All shipping dimensions suitable for flatracks. (*Information subject to change without notice)*

DUMP BOX

Large heavy-duty Dump Box contains a sufficient volume of auriferous gravels to maintain constant feed to the distribution and recovery areas between cycles of the loading equipment.

DISTRIBUTION

The Primary Distribution area is built into the dump box. It is constructed of heavy, punched plates with adjustable pitch, normally flatter than the general slope of the box. The purpose is to ensure proper classification and feed control to minimize "surging" of unwashed gravel into the recovery areas. This promotes vigorous washing and "liberation" of the gold particles which is essential to maximize the high recovery capability of the Ross Box.
The Secondary Distribution area is utilized to classify the gravels, dropping the auriferous fines into the carefully controlled side recovery channels.

RECOVERY AREAS

The Primary Recovery area is located immediately under the Primary Distribution area and traps the gold as it is released from the gravel due to the vigorous scrubbing action of the water.
The Secondary Recovery areas are located downstream from the Secondary Distribution area. The fine gold is recovered in the side channels, and the gold nuggets are captured in the center channel.
The Tertiary Recovery area is a fine gold area, trapping gold released from the coarser material and clays travelling down the center channel.

WATER MANIFOLDS

The Main Manifold is adjustable horizontally and can be rotated to provide a vigorous scrubbing action and regulate the flow of materials into the recovery areas. The two Swing Manifolds ensure excellent dump box coverage and scrubbing of all feed material.
The Throat Manifold in the secondary distribution area ensures effective washing and classification in this zone.
The optional **Water Monitors** mount on the main manifold and offer 360 degree rotation. The balanced design of these swiveling "water cannons" can greatly enhance washing and control of larger rocks with minimal operator effort.

CLEAN UP

During clean up, all of the concentrate is washed into strategically located pockets, to longitudinal tubes transporting the concentrate to the bottom end of the sluice box to maximize security and to simplify pickup.

CONSTRUCTION

The cast alloy steel punch plates are 3/4" thick for long wear, and contain tapered holes to minimize blinding. The reinforced square tube sub-frame and skid ensures strength and facilitates ease of movement with construction

Call or write for system details and complete package information...

MANUFACTURER

RMS-ROSS CORPORATION
44325 YALE ROAD WEST
CHILLIWACK, B.C. V2R 4H2
(604) 792-5911 • FAX: (604) 792-7148
1-800-814-8243

DEALER