

ON SITE CONCRETE RECYCLING

MAKE **MORE** MONEY WITH YOUR MATERIALS



CONTRACTORS FACE **MORE COST PRESSURE** THAN EVER

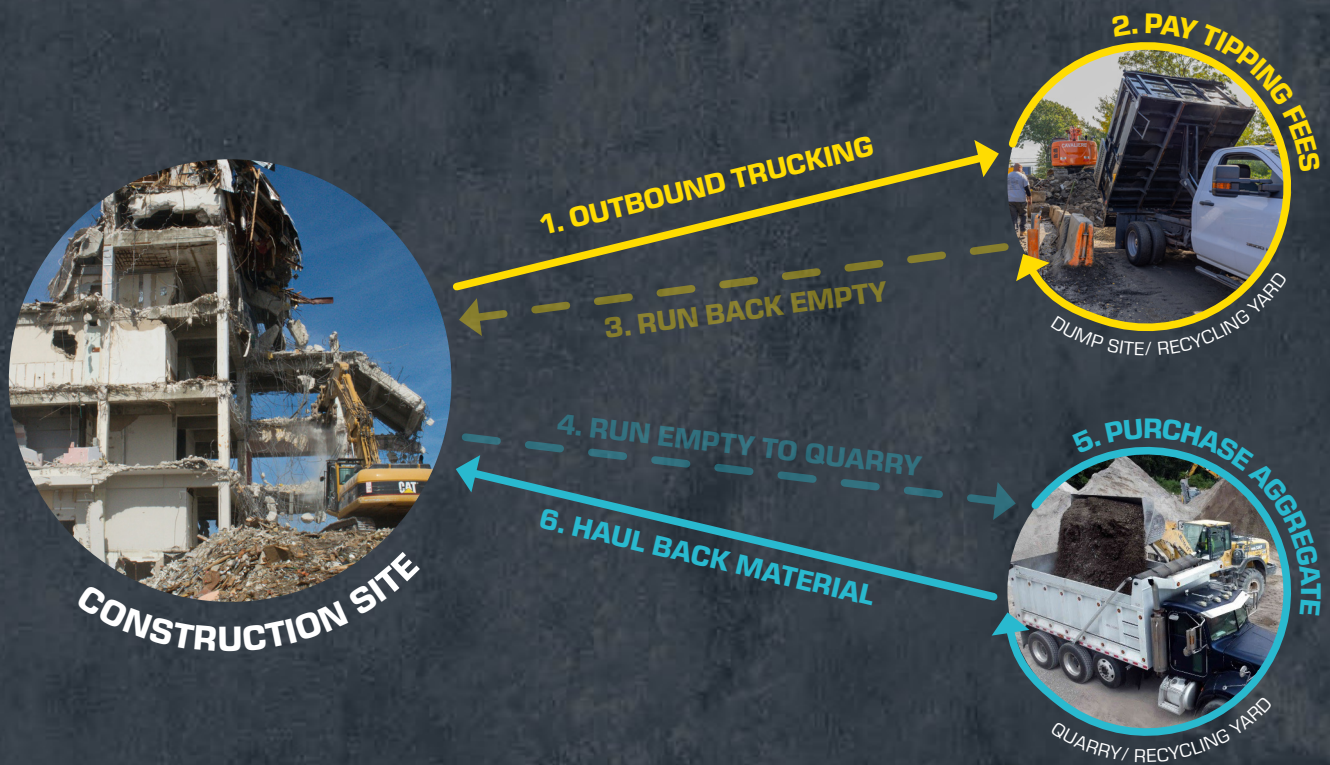
Profits are not what they used to be, and contractors must more often find profits in their existing cost structure. Quarries and gravel pits are being moved out of urban areas, increasing the trucking burden. Endless trucking roundtrips, traffic congestion, and unplanned interruptions keep you waiting for trucks. Without the ability to produce recycled aggregates on-site, you are at the mercy of other contractors, and the output quality varies.

This case study provides an overview of how to make more money with on-site concrete and asphalt recycling.

YOUR DISPOSAL AND MATERIAL COSTS WON'T GO AWAY **UNLESS YOU START CRUSHING**

Many new construction projects require the demolition of old structures. Traditional material disposal processes include costly trucking hours, inefficient round trips, and wear and tear on dump trucks.

Tipping fees may add to the cost. Crushing concrete, asphalt, and rock into aggregates is often cheaper than purchasing virgin aggregates.



COSTS STACK UP QUICKLY

More than ever, material and disposal costs are taken for granted and built into bids. The reason is simple. Many contractors are doing it this way. However, your actual costs are affected by many environmental factors beyond your control, such as traffic, wait times at the scale, truck drivers taking breaks, inefficient cycle times, and many more.

Example: Removing a parking lot yields 10,000 ft² (1,000m²) of concrete slabs, including curbs, gutters, and flatwork. The old material must be removed before the contractor can prepare a new base layer.

The material volume equates to roughly 700 tons of material to be removed. If a tri-axle dump truck is used, this results in 35 trucking roundtrips to a nearby dump site.

OUTBOUND TRUCKING COSTS

35 round trips x 1 hour per trip = **35 hours**

35 hours x 90 \$/hour = **\$3,150**

DISPOSAL COSTS

\$50 per load tipping fees x 35 loads = **\$1,750**

PURCHASE OF NEW AGGREGATES

35 loads x 18 tons/load = **630 tons** of material disposed
(=value opportunity)

Purchase price of recycled aggregates . . **5 \$/ton**

Value of the material = **\$3,150**

TRUCKING OF PURCHASED AGGREGATES

Trucking distance to grab material **1 hour**

1 hour x 35 round trips x \$90/hour = **\$3,150**

TOTAL TRADITIONAL DISPOSAL & MATERIAL COSTS = **\$11,200**

Plus, 70 hours of trucking.



CRUSHER OPERATION COSTS ARE **CHEAPER** THAN YOU THINK

Example: A RM 70GO! 2.0 Compact Crusher is RUBBLE MASTER's most compact professional mobile crusher. Weighing only 54,700 lbs. and being less than 8' wide, it features all the bells and whistles of a full-size quarry crusher.

It can take 18" pieces (the size of an alloy rim) and produce a ¾" - (19mm -) recycled concrete aggregate product at approx. 75 tons per hour. It is best fed with a 14–17-ton excavator.

Instead of hauling material away, contractors can mobilize the crusher on-site and recycle concrete on-site, benefiting from increased efficiencies and additional revenue streams.

MOBILIZATION IN & OUT \$2,000

Material volume: 700 tons
Crusher production capacity: 70 tons per hour
Total crushing time of 10 hours

EXCAVATOR COSTS TO FEED THE CRUSHER \$1,500

\$150 per hour incl fuel and an operator.
The operator controls the crusher via the radio remote control.

CRUSHER WEAR COSTS AT APPROX. \$1 PER TON. . . . \$700

RESERVE FOR LONG-TERM REBUILD \$10/H \$100

CRUSHER FUEL COSTS. 4 GAL/H AT 5 \$/GAL \$200

RUBBLE MASTER uses a fuel-efficient diesel-electric direct drive system.

Crusher finance rate \$8,990 per month
Annual financing costs \$107,880 per annum
Projected annual processing 25,000 tons
(approx. 360 hours of crushing per annum or 4 days of crushing per month)
Financing cost per ton \$4.31

FINANCING COST FOR 700 TONS \$3,017

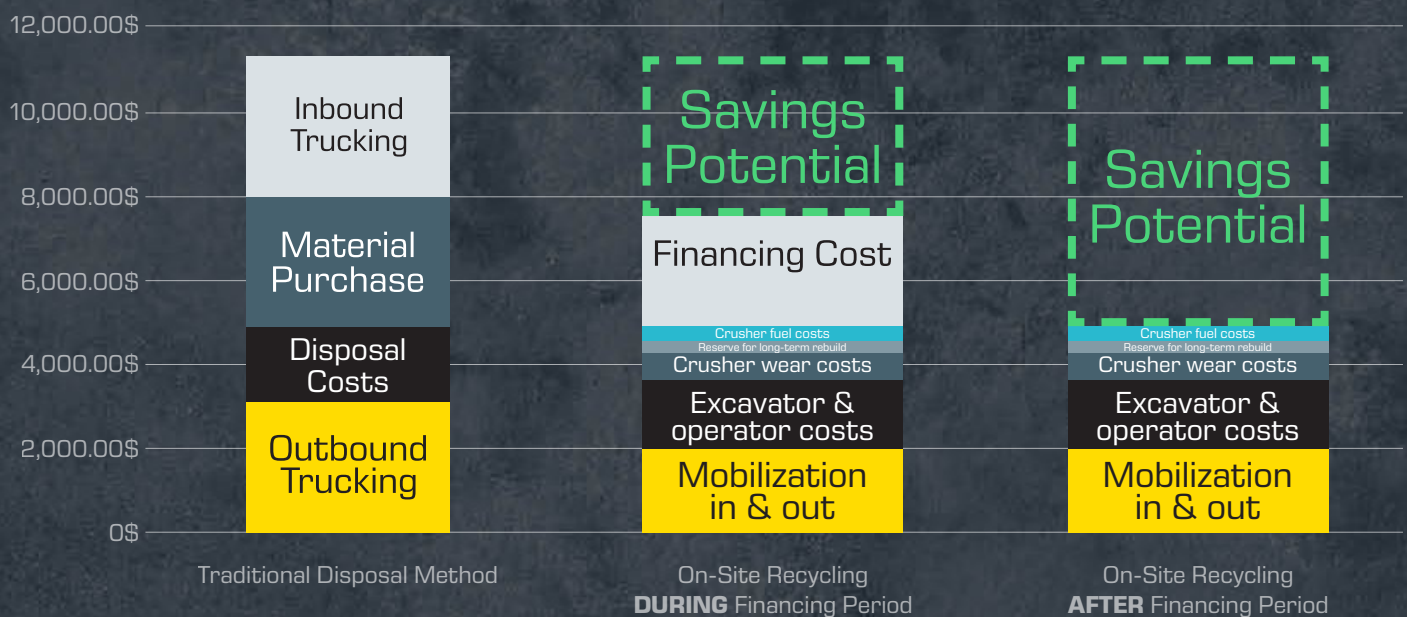
TOTAL OPERATING & OWNING COSTS = \$7,517 (10 hours of crushing)

ON-SITE RECYCLING SAVES UP TO 30% OF YOUR DISPOSAL COSTS

RUBBLE MASTER Compact Crushers turn concrete, asphalt, and natural rock into a valuable commodity-type product (e.g., base, subbase material, or fill) that meets an engineered spec. The crushing process liberates and segregates any unwanted rebar encapsulated in the concrete.

Thanks to their mobility, RUBBLE MASTER lowers the bar for making on-site crushing profitable. Using the same trailers as your excavator, a RUBBLE MASTER Compact Crusher can be unloaded and set up within 15-20 minutes.

SAVINGS ALLOW YOU TO START SMALL AND GROW FAST. THE MORE YOU CRUSH, THE MORE YOU MAKE.



Without changing your bidding process, a 700-ton job can yield savings of up to \$3,683 during the crusher’s financing period. Not only that but after 60 months of owning a crusher, the finance payments are eliminated, significantly boosting your earnings per year. Additional revenue streams come from the sale and trucking of material and occasional custom crushing jobs.

- Total Traditional Disposal & Material Costs \$11,200
- Total Operating & Owning Costs \$7,517
- Savings Potential During the Financing Period \$3,683 or \$5.2 per ton
- Savings Potential After the Financing Period \$6,700 or \$9.57 per ton

Processing **25,000 tons per year**, the savings total up to **\$130,000 - \$239,250 annually**.

5 REASONS WHY RUBBLE MASTER COMPACT CRUSHERS **MAKE YOU MORE MONEY**

1. IMPACT CRUSHERS PRODUCE HIGH QUALITY AGGREGATES

The RUBBLE MASTER impact crusher features a high reduction ratio and produces a finished product with superior gradation and a cuboid shape. It is ideal for concrete and asphalt recycling and rock crushing.

Reduction ratio of jaw and impact crushers:

- ✔ Jaw crusher up to 1:4
- ✔ Impact crusher up to 1:12

2. MEET YOUR SPEC EVERY TIME

Crush and screen simultaneously to produce spec material in a single pass. This is ideal for commodity-type products people wait in line to buy.

3. IDEAL FOR CONCRETE RECYCLING

Magnetic separator to segregate rebar.

4. ONE OPERATOR CAN RUN YOUR CRUSHING OPERATION

Fully radio remote operated. RM XSMART telemetry provides more clarity about the condition and performance of your machine.




5. EASY TO MOBILIZE

Track-mobile compact impact crusher. Less than 8' wide. Utilize the same trailer you use for your excavator.

HOW THE HECK DO I **START WITH CRUSHING?**

In this FREE 45-minute masterclass, you'll learn from an experienced panel of contractors just like you who own crushers. RUBBLE MASTER has helped thousands of contractors get started with material processing, boost their profits, and grow their businesses.

CRUSHING 101

-  **45 Minute Class**
-  **Know You're Doing It Right**
-  **100% Free**



“The thing I like most about the RUBBLE MASTER RM 70GO! is just how simple it is. Even though it’s a very high tech machine, it’s easy to deal with and not overwhelming. The remote is very intuitive and easy to learn.”

NICK HOOPER | DEPENDABLE DEMOLITION



“People look at a pile and see a pile of concrete. When I look at a pile, I see the money I can make from recycling it.”

DANNY SALOMON | BROADWAY RECYCLING

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