

6 WAYS TO BOOST HYDRAULIC SHOVEL PRODUCTIVITY

Hydraulic shovels have a pretty simple job description: Load material onto trucks as quickly as possible. However, getting that job done cost effectively is not so simple. Cat® Hydraulic Shovels are designed and built to move material as productively and efficiently as possible.

HERE ARE SIX WAYS CAT SHOVELS AND YOUR CAT DEALER CAN HELP YOU MAXIMIZE LOAD/HAUL PRODUCTIVITY.



1

BOOST SHOVEL UTILIZATION

Rule number one: The more time a shovel spends on the job, the more output it can produce. **Increasing utilization from 70% to 80% results in an additional 291 tons (264 tonnes) per hour** of output from a Cat 6060 FS Shovel. Over the course of a year, that's a whopping 106,000+ tons (96,000+ tonnes) of added production. How's that for a bottom-line impact?

2

IMPROVE CYCLE TIMES

The Cat 6015B's class-leading engine power produces faster cycle times. On a shovel of its size, a **28-second cycle time produces 47 tons (42.6 tonnes) more per hour than a 32-second cycle time.** Those results are magnified on ultra class machines. The Cat 6060 FS would load 201 tons (182.3 tonnes) more per hour with the same cycle time difference.



3

REDUCE SPOTTING TIMES

Cut truck spotting time from 60 seconds down to 45 seconds and a Cat 6060 FS will produce 238 tons (216 tonnes) more per hour. The Cat Command Truck Spotting system guides truck operators to the loading point more quickly and eliminates the need to hang the bucket as a guide, so the shovel can be digging as the truck backs in.



4

OPTIMIZE FILL FACTORS

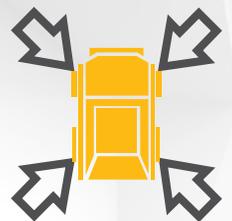
Fill factors and cycle times work together to determine total loader productivity. Assuming that the cycle time remains constant, a Cat 6060 FS produces **245 tons (222 tonnes) more per hour with a 95% fill factor vs. an 85% fill factor.** That results in 762,450 tons (691,675 tonnes) of additional annual production.



5

TIGHTEN PASS MATCH

The Cat 6015B comes with a standard 10.6 yd³ (8.1 m³) bucket, giving it a **full one-pass advantage over the leading standard-equipped shovels** in its class. And like all Cat Hydraulic Shovels, it's precisely pass-matched to a range of Cat Trucks. Your Cat dealer can help you choose the best shovels, buckets and trucks for your operation.



6

MAINTAIN OPERATING PARAMETERS

Lots of factors affect shovel/truck production, including **shovel set-up and digging methods, bench heights, haul road maintenance, truck allocation** and more. The experts at Caterpillar and your Cat dealer offer shovel application consultation that can help you find new ways to boost production across your operation.

RUN THE NUMBERS

Always on the lookout for ways to boost productivity? [Click here.](#)