

conventional diamond grinding

CDG Creates Smooth, Safe, Quiet Pavements



CONVENTIONAL DIAMOND GRINDING (CDG) removes a thin layer of hardened concrete surface using a self-propelled machine outfitted with a series of closely spaced diamond saw blades. The blades gently abrade the pavement surface without introducing aggregate microcracking, unlike micromilling that uses dynamic force to chip away the concrete. CDG is appropriate for both new construction and existing pavement and can be performed at any time during a pavement's life.

After CDG, increased macro-texture provides drainage that mitigates the chance of hydroplaning in wet weather, significantly reducing accident rates. The longitudinal texture produced by diamond grinding reduces noise when compared to transverse tining, which was an early solution for providing traction on concrete pavement. CDG also effectively improves smoothness—which makes the pavement last longer and promotes increased fuel economy.

CDG PROVIDES SEVERAL BENEFITS:

- Smooth riding surface (often as good or better than a new pavement)
- Safe (enhances skid resistance)
- Quiet
- Removes faulting at joints and cracks
- Does not significantly affect fatigue life
- Can extend pavement service life by decades
- Does not affect overhead clearances underneath bridges or signs
- May be done in isolated areas as needed and during off-peak hours
- Cost effective (often less than half the cost of asphalt overlay)

Combined with other CPP techniques, the result is a pavement rehabilitation project that is:



SMOOTH



SAFE



**COST
EFFECTIVE**



**LONG
LASTING**



**ENVIRON-
MENTALLY
FRIENDLY**



**TRAFFIC
FRIENDLY**



**EASY
TO BID**

For more information on CDG, [click here](#).

For complete information on CPP, visit igga.net.