KEY FACTS ABOUT DGK-ACT

- Improved Coating
- Multi-stage coating process
- Improves Lubricity
- Withstands over 2200°F
- Coating is harder than carbide
- Grinds with standard abrasives
- Reduces nicks caused from mineral pockets.
-

APPLICATIONS FOR DGK-ACT

- HSS tools such as moulder steel, router bits, saw blades & boring bits.
- Carbide tools such as router bits, carbide inserts, saw blades, drill bits & boring bits.
- Metal cutting tools such as drill bits, mill cutters, lathe tools & carbide inserts.
-

CUTTING IN HARDWOODS

- Increased run time in oak & hard maple of up to 12 times that of M2.
- Replaces carbide in many applications.
- Better finish than carbide.
- Less regrinds.
- Less jointing in high speed applications.
-

CUTTING IN MDF

- Excellent for runs up to 8,000 lineal feet in most MDF materials.
- Easier to grind and regrind than carbide
- Cost 80% less than carbide.
- Excellent option for small shops to run short runs of MDF.

WHAT IS DGK-ACT?

- Substrate is M2 steel which must meet MSI quality standards.
- DGK-ACT coating is less than 8 microns thick and cannot flake.

This photo shows the marked difference between regular, uncoated M2 knife steel, and DGK-ACT coated M2 knife steel.

MOULDER SERVICES, INC.
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MSI Designs

MOULDER SERVICES, INC.
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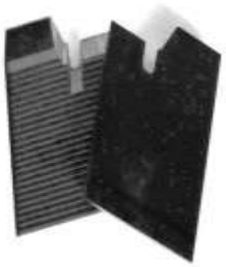
PROUDLY PRESENT

DGK-ACT ADVANCED COATING TECHNOLOGY



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WHY USE DGK-ACT?

COST COMPARISON

- In 2006, M2 steel cost between $4-5 per inch.
- Carbide inlay cost between $12-35 per inch.
- Piggy Back cost between $25-45 per inch.
- DGK-ACT cost between $6-7 per inch.

GRINDING COSTS

- Diamond wheels for carbide cost $150-320 each. Cost per inch to grind is approximately $18.00.
- Top of the line ceramic wheels for M2 and DGK-ACT cost under $35.00.
- Cost per inch to grind approximately $3.00.

COST FACTORS

- Dramatically decreases downtime for dull tools.
- Resetting of dulls after sharpening.
- Material waste for incorrect dimensions.
- Material waste for resetting of the machine after sharpening.
- Grinding time.

REAL COSTS

- Small moulders worth minimum $125/hour, most are valued at over $300/hour.
- Average downtime for dull or nicked tools is 20 minutes.
- Average cost for single downtime is at least $41.67.
- Run length 10,000 lineal feet or a short run in MDF or maple.
- M2 estimated 2 regrinds @ $41.67 each= $83.34.

TOTAL COST OF USING TOOLING

- M2 Initial cost $40 + $24 grinding costs + Downtime cost $83.34 = $147.34
- DGK-ACT Initial cost $56 + $24 grinding costs + 0 downtime = $80.00
- Carbide Initial cost $280 + $144 grinding costs + 0 downtime = $424.00
- This does not include wasted material and improperly dimensioned material.

LINEAL FOOTAGE EXPECTED BETWEEN REGRINDS

- M2 = 1,500-3,500
- Carbide = 30,000-100,000
- DGK-ACT = 15,000-35,000

DGK Costs less in most production applications than any other tooling option. Even in short runs of 2,500 lineal feet, one regrind of the knives results in justifying the use of DGK-ACT knives.

WHERE DOES USING DGK-ACT SAVE MONEY?

- Production runs of over 5,000 lineal feet in most materials.
- Most production runs in maple.
- Short production runs in MDF(6,000-8,000 lineal feet).
- Difficult & multi-spindle setups.
- All long runs in hardwoods, over 5,000 lineal feet.

RESULT

- Reduces cost.
- Increases profit.
- Increases productivity.
- Improves finish.
- Does not change tool room process except eliminates honing of the tool.

CUSTOMER INPUT

"With DGK coated knife steel we have experienced a greater yield savings on the incoming blank size for running profiles in doubles due to the heat reflective coating, yet able to maintain a good cutting edge and longer run times between sharpening.

Using the DGK knife steel, we have found while moulding hard maple in a high speed production mode that the coating helps alleviate "knicks" from mineral streaks occurring and being transferred to the profile.

The DGK coated knife steel grinds in very easy when making new knives for profiles and is easier to get and maintain a jointed edge on the moulder while manufacturing material with a jointed finish."

-Allen Wilfong, Quality Control
Colonial Millwork LTD
Beverly WV