

BTG's revolutionary new creping blade slashes downtime in chipping-prone applications

The latest innovation from BTG, Duroblade®-Satiny™ eliminates the chipping problems that can plague tissue manufacture, dramatically reducing broke and boosting the quality, softness and consistency of finished products.

Tissue manufacturers working with furnish containing a high proportion of inorganic materials have often found themselves caught between a rock and a hard place. Creping with conventional steel blades necessitates costly blade changes around every three hours – impacting not just expenditure but valuable production time. Yet moving to high-performance ceramic blades was often ruled out because of these blades' vulnerability to chipping and microchipping when they encounter large inorganic particles.

To solve the problem, BTG researchers have developed a revolutionary new high-performance creping doctor blade that offers maximum protection against damage and chipping. Called Duroblade-Satiny, the blade surface is composed of a special new material that offers previously unattainable resistance to chipping induced by particles and contaminants in the furnish. The result: much longer blade lifetimes, fewer blade changes, significant productivity improvements and a superior quality tissue finish guaranteed to please even the most demanding customer.

Proven performance

Tests confirm that Duroblade-Satiny's lower friction-wear coefficient and resistance to both particle-related chipping and thermo-chipping deliver significantly better performance than any other type of creping blade.

With a longer average blade lifetime – up to ten times that of conventional steel blades – Duroblade-Satiny keeps production up and running at full speed, translating into valuable additional tons at the end of each day. Because it's insensitive to paper impact, the new blade tip ensures more stable production conditions, delivering excellent paper softness and limiting dust generation. Consistently high tissue quality also means less scrap in the converting section, and less recycling.



Duroblade®-Satiny™

Duroblade-Satiny offers tissue makers a highly effective means of boosting productivity while reducing overheads

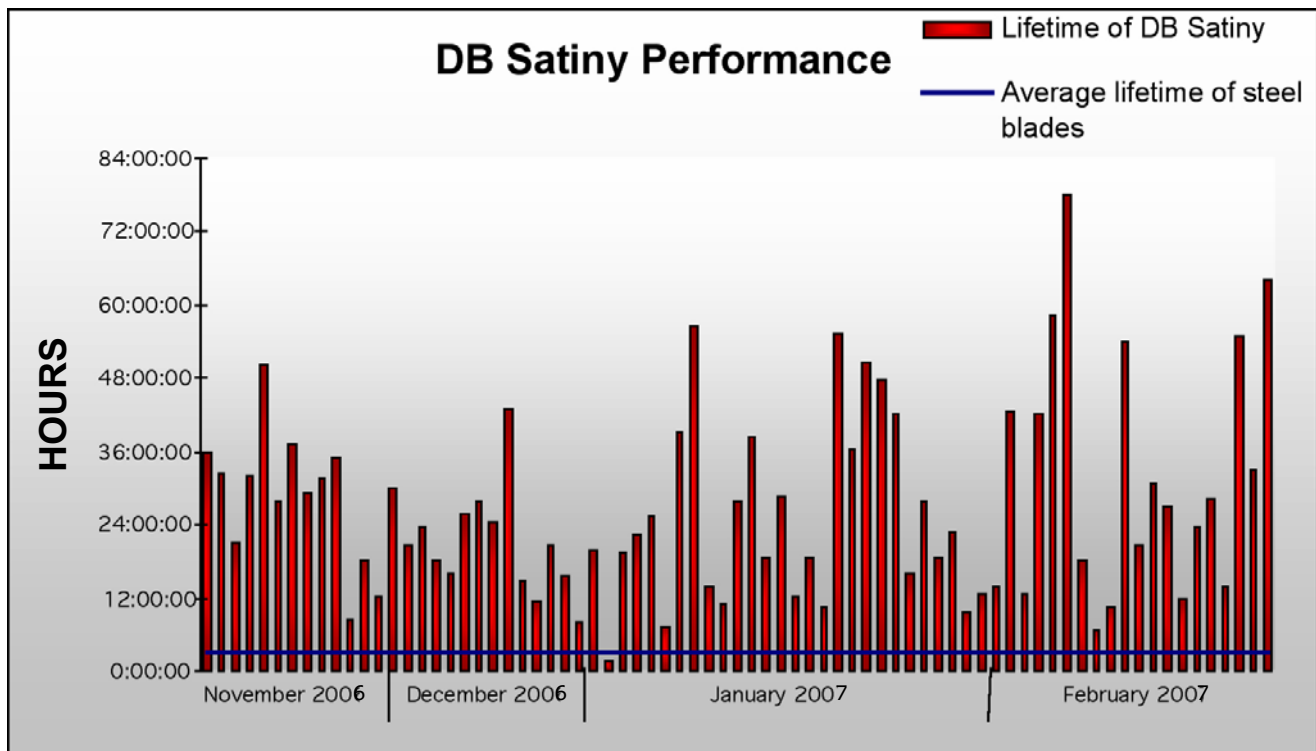
One customer's experience . . .

A tissue manufacturer producing toilet and towel grades based on 100% deinked pulp found it impossible to use standard high-performance ceramic blades because very high levels of ash in the machine chest posed a serious risk of blade damage.

Trials with Duroblade-Satiny not only delivered improved paper quality, but cut machine downtime due to blade changes from 12 - 15 hours a month to just 1.5 - 2 hours per month – a dramatic performance improvement that reduced the amount of broke by 88%.

On average, blade lifetime using Duroblade-Satiny was around six times longer than standard steel blades, and examination of the blade surface after production confirmed no trace of blade damage.

Blade Type	Average Lifetime [hours]	Amount of broke [tons/month]	Broke reduction [%]
Steel Blade	3	35	88
DB Satiny	25	4.5	88



Duroblade-Satiny benefits:

- Blade lifetime up to ten times longer than conventional steel blades
- Dramatic reduction in broke over steel blades
- Exceptional tissue quality stability
- Excellent friction compatibility with the Yankee
- Fewer blade changes = improved runnability.

BTG's revolutionary new creping blade slashes downtime in chipping-prone applications