KEGEL'S REVERSE DROP BRUSH FEATURE

Over the years Kegel has been involved in 1000's of tournaments worldwide by performing lane maintenance at every high level bowling event in the world. At these events our technicians are developing many different types of oil patterns and paying strict attention on how those oil patterns are affected during play. What we have found over the last couple years is an ever increasing rate of oil depletion from previous years.

Because of this increased depletion rate, we have been testing both competitive and recreation type oil patterns using the 'reverse drop brush' feature that has been in lane machines using the CP1H plc's (machines with a touchscreen). Our goal was to increase the amount of conditioner in the midlane so the patterns would hold up longer without compromising the end of the pattern. That goal was reached with a couple positive byproducts.

What we found with the 'reverse drop brush' function is we can load much farther downlane on the forward pass increasing the amount of conditioner in the midlane and control the amount of conditioner on the outside boards. By applying conditioner in this method, we can increase the side-to-side ratios in a more symmetrical manner. Patterns with higher ratios downlane tend to be more forgiving.

Until now with the current transfer brush patterns, many have had to reduce the amount of conditioner outside upfront to protect from getting too much conditioner on the outsides at the end of the pattern. By doing this though, these type oil patterns may have "handcuffed" many players. Basically the outsides hook too early and when certain type players move in, they can't get the ball to hit or around the corner.

With the reverse drop brush function, more oil can be added outside up front and to the midlane allowing these players to start more from the outside while still giving players a defined hook spot to throw at downlane.

The 'reverse drop brush' function also helps control the break point area in a much more defined manner. Meaning, if the break point for most customers is too late, the reverse brush drop can be brought more towards the foul line. If the break point is too early, the reverse brush drop can be taken more towards the end of the pattern. We have found for medium length patterns in most environments, a reverse brush drop at the 32' distance is a good starting point.

To illustrate how the reverse drop brush can affect an oil pattern, here are two examples which show the same amount of conditioner on the outsides towards the end of the pattern but with different amounts on the outsides in the front portion of the pattern.

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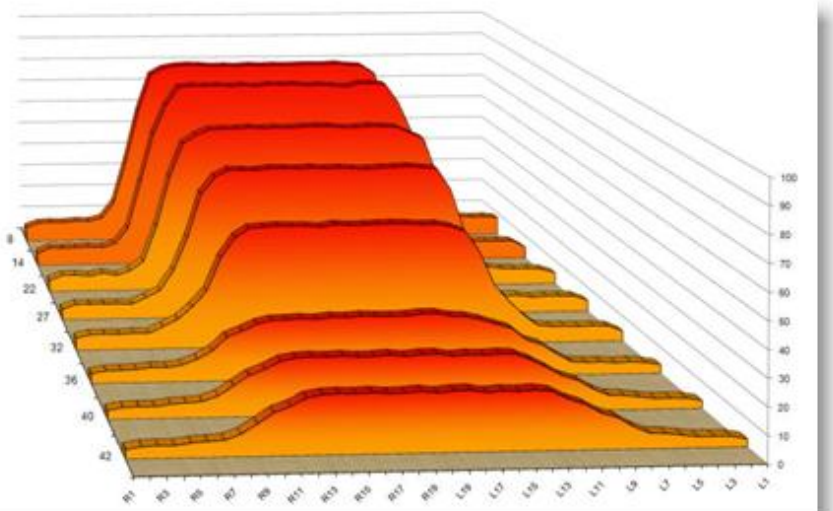
Example without reverse drop brush:

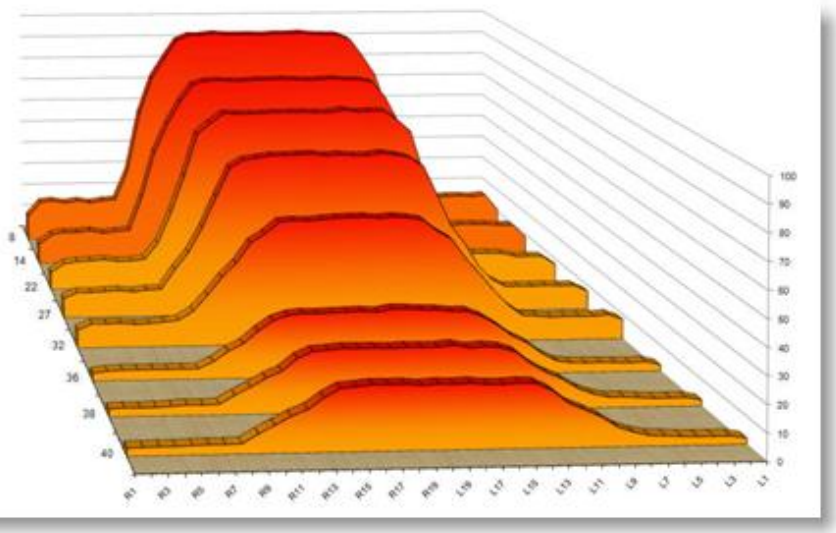
Tape Distance	USBC Sport Bowling Ratios
8'	8.9 to 1
14'	9.9 to 1
22'	**9.6 to 1**
27'	9.1 to 1
32'	7.0 to 1
36'	4.3 to 1
40'	**4.1 to 1**
42'	4.1 to 1



Notice how the ratios are higher upfront and lower downlane. Also notice how much conditioner is on the outside boards at each distance.

Example with the reverse drop brush:

Tape Distance	USBC Sport Bowling Ratios
8'	5.4 to 1
14'	5.8 to 1
22'	**6.2 to 1**
27'	6.2 to 1
32'	5.3 to 1
36'	6.2 to 1
38'	**6.7 to 1**
40'	6.8 to 1



Notice how the ratios are more symmetrical throughout the pattern and higher at the end. Also notice the amount of conditioner on the outside portion of the lane up front versus down lane. In the above example, the reverse brush drop distance was 33'.

For more information or help with individual scenarios, please contact Kegel Tech Support.