

STINGER

THE FUTURE OF ID CLEANING

R&R Manufacturing proudly introduces a safe, low noise, economical solution for preparing the ID of tubulars to an inspection ready status. The patent pending **STINGER** is an innovatively designed product that virtually eliminates noise and safety challenges of rotating parts used on conventional cleaning methods. Upon actuating your current air valve, the **STINGER's** blades extend to the ID to remove scale from OCTG products.

- 300% reduction in sound level.
 - No motor required.
 - Manufactured using high grade stainless steel.
 - Work hardening blades.
 - Will retrofit to any existing lance.
 - Overall cost reduction.
 - Rear facing air jets allow for superior debris removal.
 - Reduced risk of thread damage during cleaning operations.
 - No lubrication required.
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- Only one size body is required per tubular size. For different weights of tubing simply change the low cost blades.
 - Made in the U.S.A. "For the Oilfield, by the Oilfield"
 - Please call or email for pricing at sales@rr-mfg.com



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According to OSHA:

“Twenty-two million workers are exposed to potentially damaging noise at work each year. Last year, U.S. businesses paid more than \$1.5 million in penalties for not protecting workers from noise. While it is impossible to put a number to the human toll of hearing loss, an estimated \$242 million is spent annually on workers' compensation for hearing loss disability.

Exposure to loud noise kills the nerve endings in the inner ear. More exposure will result in more dead nerve endings. The result is permanent hearing loss that cannot be corrected by surgery or medicine.”

“OSHA allows 8 hours of exposure to 90 dBA but only 2 hours of exposure to 100 dBA sound levels. NIOSH would recommend limiting the 8 hour exposure to less than 85 dBA. At 100 dBA, NIOSH recommends less than 15 minutes of exposure per day.”

The **STINGER** employs a method of frictional cleaning powered by the natural rotation of any tubular cleaning unit. The **STINGER** has a dBA of 82 to 84, while conventional high impact ID cleaning methods produce an average of 115 to 119 dBA sound levels. A 10 dBA increase is equivalent to doubling the SPL (Sound Pressure Level). **The STINGER's sound levels are 300% less than that of the current methods of ID cleaning.**

Sound sources (noise) Examples with distance	Sound pressure Level L_p dB SPL
Jet aircraft, 50 m away	140
Threshold of pain	130
Threshold of discomfort	120
Chainsaw, 1 m distance	110
Disco, 1 m from speaker	100
Diesel truck, 10 m away	90
Kerbside of busy road, 5 m	80
Vacuum cleaner, distance 1 m	70
Conversational speech, 1 m	60
Average home	50
Quiet library	40
Quiet bedroom at night	30
Background in TV studio	20
Rustling leaves in the distance	10
Hearing threshold	0

The chart to the left illustrates the dB SPL difference in the **STINGER** compared to conventional ID cleaning methods. The **STINGER** falls just above “standing next to a busy road”, while other ID cleaning methods approach the “threshold of discomfort”. The **STINGER's** low noise level permits an operator to have a conversation without raising his voice. In most cases, the power supply or the dust collection system is louder than the **STINGER** running at full speed.