H&L Mesabi proudly serves Minnesota, Wisconsin & Upper Michigan as the premier custom wear specialist in construction, governmental and mining applications

H&L Mesabi Milling and Reclamation Guide

H&L Mesabi is a proud representative of Kennametal® and their premium, American-made, tungsten carbide milling and reclamation tools.

Choosing the Conical
Troubleshooting

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Choosing the Conical

Machine

Low HP: <100HP, <1 meter drum
Medium HP: 100-300HP, 1-2 meters drum
High HP: >300HP, >2 meters drum

Surface

LA/HA: low abrasion high hardness
AA/AH: ave abrasion ave hardness
HA/LH: high abrasion low hardness

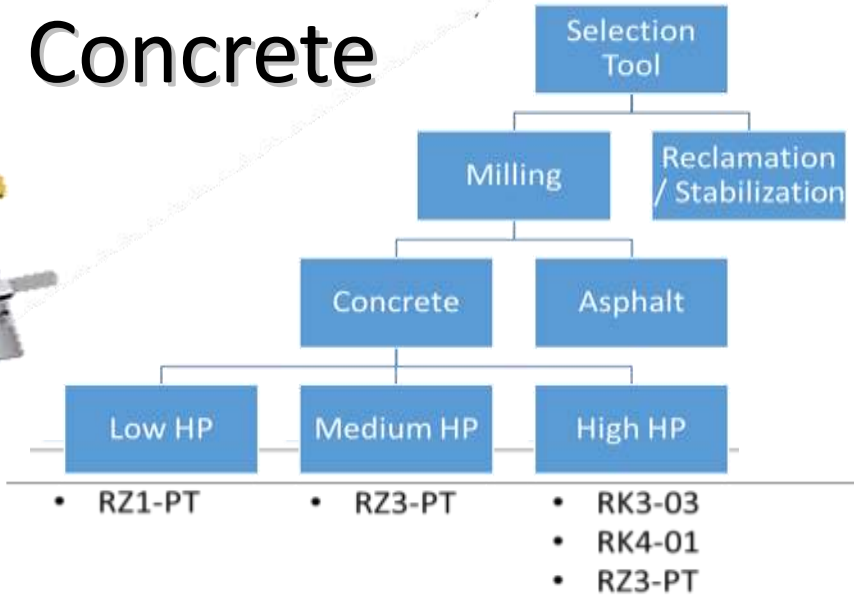
KENNAMETAL®

Milling

Asphalt

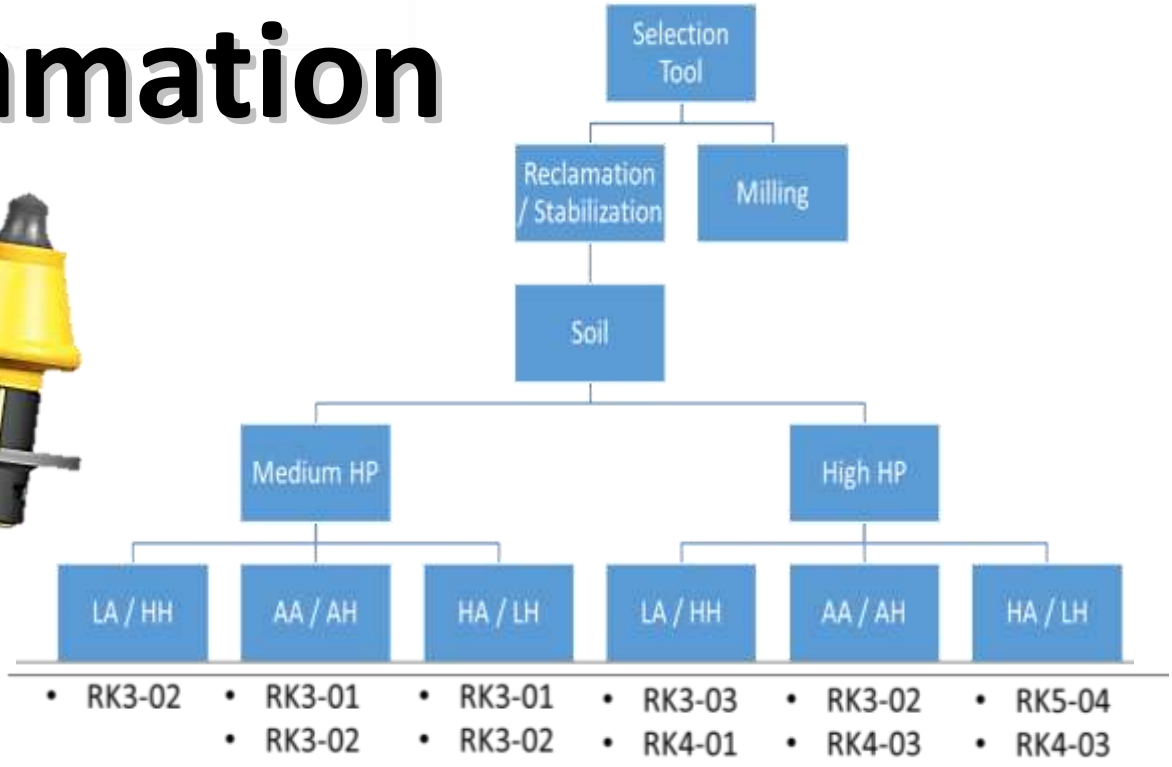
Milling

Concrete



Reclamation

Soil



Troubleshooting

Problem	Possible Cause	Solution
 Poor Rotation	Worn toolholders	Replace worn holders
	Excess material build-up on tool	Increase water flow to drum
	Holders not properly aligned	Remove incorrect holders and correct positioning
	Excessive machine speed	Slow down machine
	Cutting too deep	Decrease cutting depth (make 2 or more passes)
 Excessive Steel Body Wear	Caused by highly abrasive material	Consider using a tip design with bigger start diameter
	High rotation speed	Reduce rotation speed (if possible)
		Consider using a heavier body tool
	Worn belts are not removing the material	Check and replace worn belt
 Extreme Carbide Tip Wear	Hard material (aggregate)	Consider using a larger carbide tip tool
	Heat build-up on tool	Increase coolant (water) to the drum
	High rotation speed	Reduce rotation speed (if possible)
	Cutting too deep	Decrease cutting depth (make 2 or more passes)
 Tip Fractures	Extremely hard material (aggregate)	Consider using a larger carbide tip tool
	Heat build-up on tool	Increase coolant (water) to the drum
	Poor rotation	Check for worn holders, excess material build-up on tool, etc.
		Consider doing a "warm-up" cut when starting
	Excessive machine speed	Slow down machine
	Using hard objects for tool installation	Use air hammer installation tool, rubber mallet or copper hammer