

	Probable Cause	<u>Solution</u>
Blade Breakage Straight Break Indicates Fatigue	 Incorrect blade Band tension too high Excessive feed Incorrect cutting fluid Wheel diameter too small for blade being used Worn or chipped back-up guide Blade rubbing on wheel flanges Teeth in contact with work before starting saw Side Guides too light 	Teeth too coarse. Check Cutting Chart* Reduce and tension. See Machine Operator's Manual Reduce feed pressure Check Coolant Table** Use thinner blade and lower speed Check pressure block. Replace if worn Adjust wheel alignment Allow 1/2" clearance before starting cut See Operator's Manual
Premature Dulling of Teeth	 Blade teeth inverted (backwards) Improper break-in periods Hard spots in material (like scale) Material work hardened (check for hardness and adjust feed) Improper cutting fluid or mixture Speed and feed too high 	Install blade correctly Reduce feeds and speeds during break-in period in accordance with manufacturer's recommendations Check material for actual hardness—hard spots like scale or flame cut surfaces Increase feed pressure Check Coolant Table** Check cutting Chart*
MATERIAL MATERIAL Inaccurate Cut	 Teeth dull Over or under feed Improper pitch blade Cutting fluid not applied evenly Incorrect blade (too many teeth per inch) Guides worn or loose 	 Use new blade Check Cutting Chart* Check Cutting Chart* Adjust coolant nozzles Check Cutting Chart* Tighten or replace guides
Band Leading in Cut	 Over feed Lack of band tension Tooth set damage Loose guide arms or set too far from work 	Check Cutting Chart* Check Operator's Manual for correct tension Check material hardness Adjust arm close to work at possible—tighten and align. Check Guide
Chip Welding	 Improper or lack of cutting fluid Wrong coolant concentration Excessive speed or pressure Incorrect blade (wrong pitch) 	 Check Coolant Table** Check Coolant Table** Reduce speed or pressure, Check Cutting Chart* Check Cutting Chart*
Teeth Fracture Back of Tooth (indicates work spinning in vise)	 Incorrect feed and/or speed Incorrect blade (wrong pitch) Saw guides not adjusted properly 	 Check Cutting Chart* Check Cutting Chart* Adjust or replace saw guides
Irregular Break (indicates material movement)	Indexing out of sequenceMaterial loose in vise	Check for correct indexing sequence (head rise) Check hydraulic pressure



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	Feed pressure to high	Reduce feed pressure see Cutting Chart* and or speed
	Tooth lodged in cut	Never enter same (old Blade) cut with new blade
	No cutting fluid or incorrect coolant Hard spots scale, inclusions, etc.	 Check Coolant Table** Check hardness. Descale and or anneal if necessary
Teeth Stripping	 Incorrect blade (wrong pitch) Work spinning in vise: loose "nest" or bundles Blades teeth running backwards 	 Check Cutting Chart* Check Hydraulic pressure: be sure work is firmly held Reverse blade teeth, turn inside out
	Insufficient blade tension	See Machine Operator's Manual for correct band tension
	Incorrect blade (back too soft)	If using Hard Back Blade switch to Mix-Tooth
	• Incorrect feed (excessive)	• Reduce feed pressure see Cutting Chart*
	 Back-up guide frozen in position, damaged, or worn off Guide arms too far apart, cocked, worn or loose Blade rubbing on wheel flanges 	 Free pressure block and realign if worn replace (never regrind) Move arms close to work as possible Adjust wheel alignment
	Dull or damaged blade Incorrect feed and or speed	Replace with proper blade Check Cutting Chart* Adjust until noise disappears
(September 1)	Lack of band support	Set guide arm properly—close to work as possible
Rough Cut Washboard Surface Vibration and or Chatter	Insufficient band tension	Check Operator's Manual for correct tensions
	Incorrect pitch blade	Check Cutting Chart*
	 Saw guide inserts or roller are riding on teeth Insufficient blade tension 	Check table and Operator's manual for correct blade width Check for correct blade tension
AAAAA	 Incorrect blade (width of blade incorrect) 	Check Cutting Chart*
Wear Lines, Loss of Set	 Hard spots Back-up Guide worn	Check material hardness Replace
Twisted Blade Contour Sawing	 Band binding in cut Side guides adjusted too tight Work not held firmly Incorrect or lack of cutting fluid 	 Check for over-feed, damage set, sight width blade for radii being cut Set side guides properly Check vise and hydraulics Check Coolant Table**
Blade Wear / Teeth Blued	Incorrect blade Incorrect feed or speed Improper or lack of cutting fluid	 Check Cutting Chart* Check Cutting Chart* Check Coolant Table**
mm	 Material loose in vise Incorrect blade (wrong pitch)	• Check hydraulic pressure • Check Cutting Chart*
Teeth Fracture / Front of Tooth (indicates work spinning in vise)		