### YNotchStartGap Parameter

Definition and use of the yNotchStartGap parmeter

#### Contents

Problem

Solution

Comments

# Problem

#### Applies to machines with V notching on the ring - worse if the blade size is 200mm

If a Y notch is at the very start of the bar, there is a combination of the gripper location inside the ring with the Y and Z axes in an extrreme position. This leads to a clash between the gripper and the ring.

# Solution

Original solution was to build a big "minable" into the gaps.saw file to force a big waste cut at the beginning of the bar. This was done by specifying a gap of "s+s" (minable+minable) or "s+s+s" (minable+minable+minable).

zaps -	SQ	\ MI	< AH	/ IM	e ES	s mSQ	m mMI	a mAH	i mIM	# YF	r YR	(Lead)
SQ	k	j+v	w+j	j+v	t	k	3+4	w+5	3+v	k	k	
IN /	j+v	j+v	w+j	j+v	t	5+v	3+4	W+5+V	5+v	5+4	j+v	
> AH	k+x	j+v	5	j+v	t	k+x	5+V	1	5+v	k+x	k+x	
/ IM	j+v	j+v	w+j+v	j+v	t	j+v	j+v	W+j+V	j+v	j+v	j+v	
e ES	k	1	1	j.	0	5	5	5	5	5+5	5+5	
s mSQ	k	j+v	w+j	j+v	e	k	j+v	w+j	j+v	k	k	
m mMI	j+v	j+v	w+j	3+4	e	5+4	3+4	W+5+V	3+v	5+4	j+v	
a mAH	k+x	j+v	5	j+v		k+x	3+v	j i	j+v	k+x	k+x	
i mIM	j+v	j+v	w+j+v	j+v	e	j+v	j+v	w+j+v	j+v	j+v	j+v	
f YF	k	j+v	w+j	j+v	e	k	j+v	w+j	j+v	k	+	
r YR	k	j+v	w+1	j+v	e	k	j+v	w+1	1+v	1	k	
for u	ersion	6.63										

This is a bit cumbersome, and there are downsides to it when using it on a Microline becasue this amount needs to be reflected in the mnd files used to control the saw blade - W\_ESYF.mnd and W\_ESYR.mnd

From software version 4.65.0.0 a new parameter was introduced, specifically for this purpose - YNotchStartGap. This is normally set at a value of 270 for a Microline or ZX3

This allows the variable to be used in the mnd files

W_ESYF.mnd - Notepad	
File Edit Format View Help	
:Saw Prep Ef	
;for Microline	
;(c) Stuga Limited 2006	
startOffset=sawcl <mark>+yNotchStartGap-k</mark> erf/2	
;move saw head	
sp=TRAVERSE	
ma.a=0	
ou.\$90=1	
ou.\$135=0	
go	
in.S@90=1	

The gaps file calls on this with the variable "y"

				Help								
Ę,	aps	SQ	/ MI	< AM	/ IM	e ES	s mSQ		a mAH		f YF	r YR (Lead)
L	sQ	k	j+v	w+3	j+v	t	k.	j+v	w+j	j+v	k	k
١	MI	k+x	j+v	w+j	j+v	t	k+x	j+v	w+j+v	j+v	k+x	k+x
>	AH	k+x	j+v	1	j+v	t	k+x	j+v	1	j+v	k+x	k+x
I	IM	k+x	j+v	w+j+v	3+4	t	k+x	3+v	W+3+V	j+v	k+x	k+x
e	85	k	3	5	5	0					•	
\$	mSQ.	k	j+v	w+j	j+v	5	k	5+V	w+j	3+v	k	k
	mMI	j+v	j+v	w+j	j+v	5	j+v	j+v	w+j+v	j+v	j+v	j+v
ð	mAH	k+x	j+v	1	j+v	5	k+x	j+v	1	j+v	k+x	k+x
1	mIM	j+v	j+v	w+j+v	j+v	5	j+v	j+v	w+j+v	j+v	j+v	j+v
f	YF	k	j+v	w+j	j+v	Y	k	3+v	w+5	3+v	k	f
r	YR	k	j+v	w+j	j+v	Y	k	5+4	w+5	5+v	f	k

1 ...This gaps file looks different to the one above because it is from a later version of software and is not handed