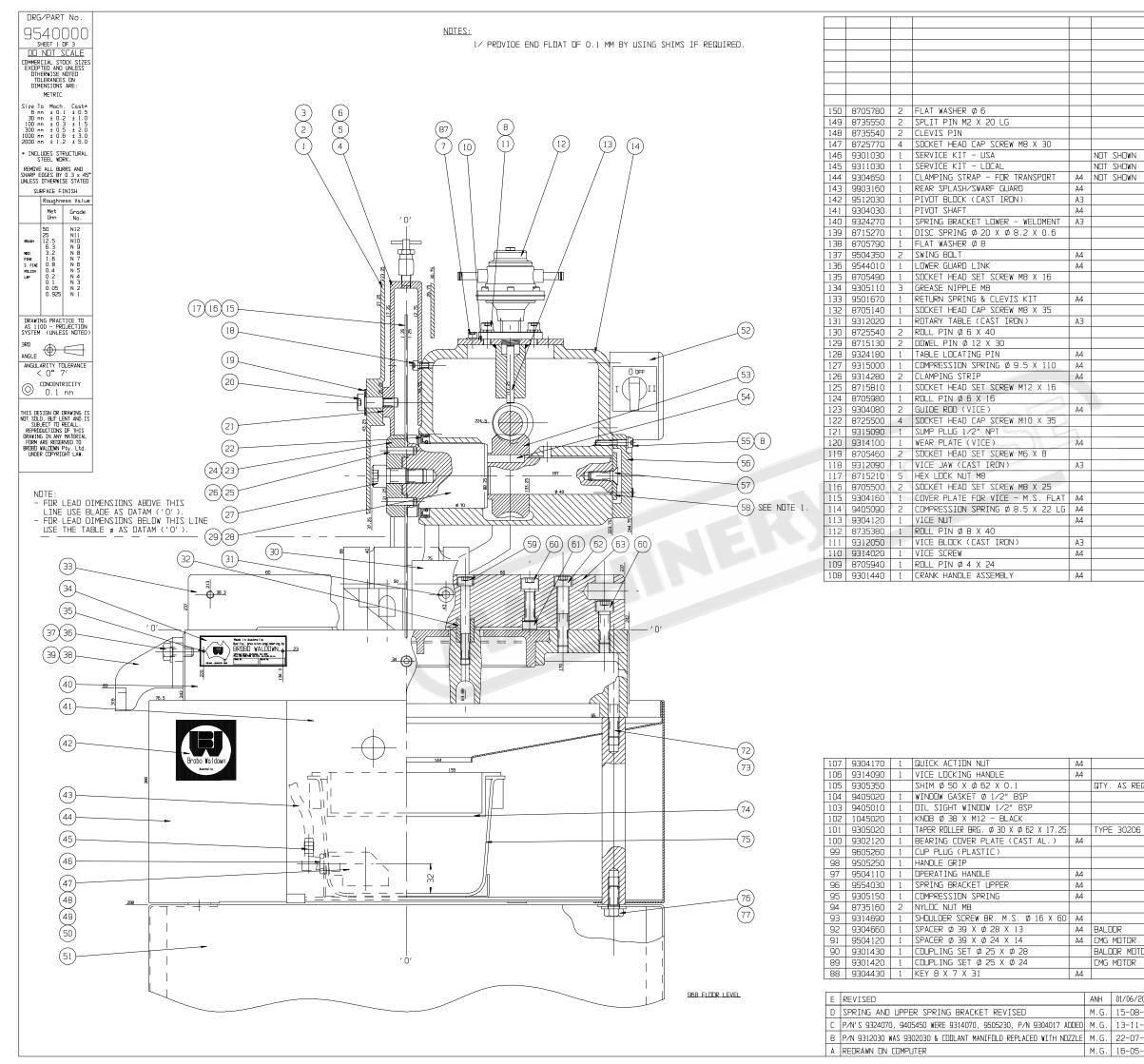
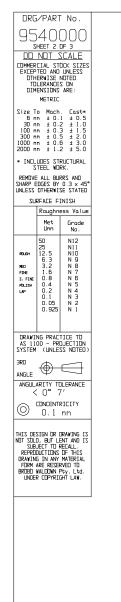
## 3.3. Operation Recommendations

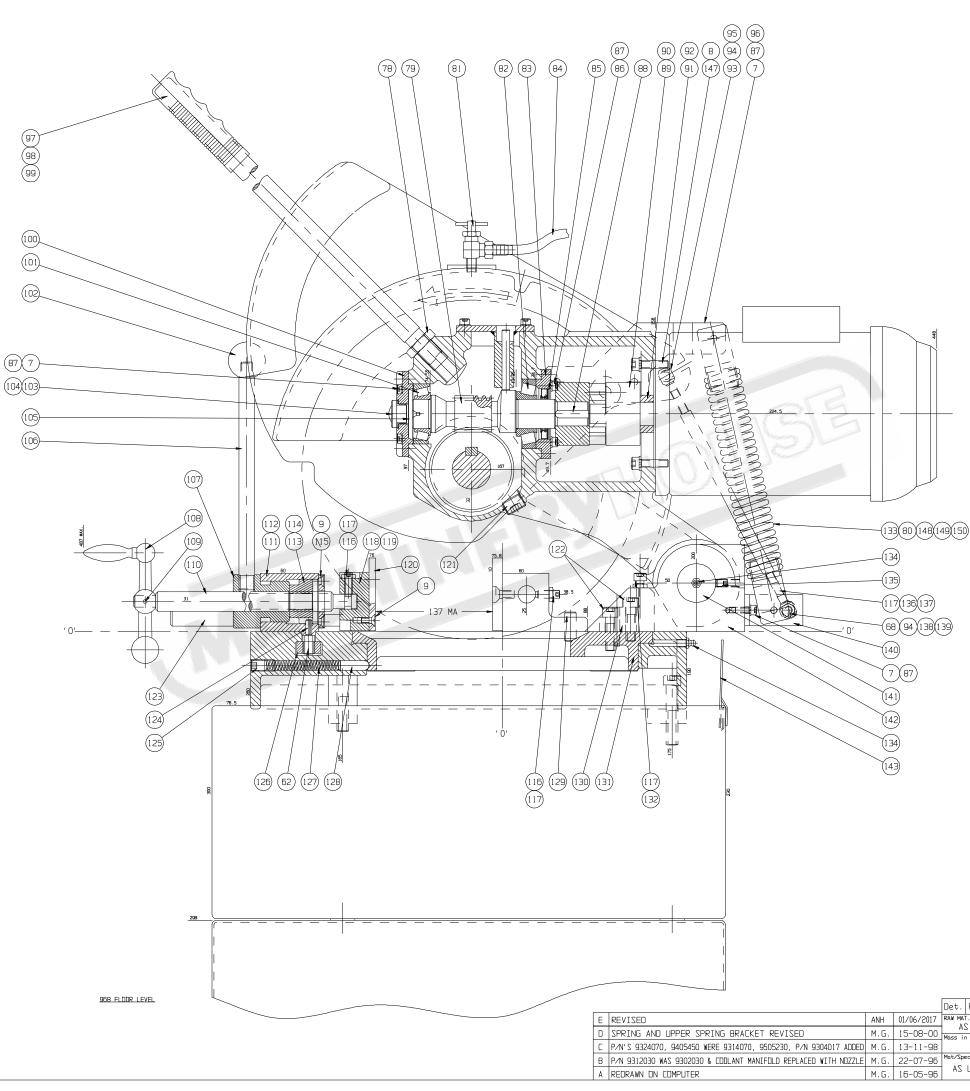
- Select the correct saw blade with the correct tooth pitch and form to suit the material to be cut to provide minimum burr and maximum blade lifespan.
- Use the smallest diameter blade and coarsest pitch that is practical within the required speed and material limitations.
- Generally use a tooth pitch to give 2 4 teeth engagement with the material during cutting.
- Ensure that sufficient coolant is flowing over the cutting teeth.
- Do not allow the machine's gearbox to run idle in the upright position for more than **3 minutes** otherwise, damage can occur to the drive system.
- The rate of feed affects the quality of the final cut and blade life. This varies also by the material and crosssectional dimensions. When cutting stainless steel or high carbon steel (*Brinell hardness above 200*), the slowest speed machine should be used together with a cobalt type high speed steel blade.
- When manually feeding the saw head, keep in mind to maintain a steady, continuous pressure, thus *avoiding work hardening* on the cutting piece. Avoid 'forcing' the blade through the material as this might damage or break the blade.
- As a rule of thumb the softer the component, the faster the rate of speed. Thus, it is recommended that
  slower speeds be used for hard and tough materials and higher speeds for soft, ductile materials. Note that
  for non-ferrous materials such as brass, copper, aluminium etc. require much faster speeds than provided
  on this machine. If these are the majority of materials cut, a Brobo NF Series machine should be considered.

## CHAPTER 4 - Drawings, Layouts, Assembly and Spare Parts



						,
		0705010	10			
	87	8705840	16	SPRING WASHER Ø 6		
	86	8705070	4	SDCKET HEAD CAP SCREW M6 X 20		
			<u> </u>			TC12405
	85	9315040	1	DIL SEAL Ø 30 X Ø 52 X 7		TC12495
	84	9504160	1	CLEAR PLASTIC HDSE Ø 8 I.D. X 300 LG		USE 9505030
	83	9312100	1	RETAINER RING (CAST IRDN)	A4	
_	82	9305030	1	TAPER RDLLER BRG, Ø 30 X Ø 72 X 20.75		TYPE 30306
				TAPER RULLER BRG, Ø 30 X Ø 72 X 20,75		00200
	81	9105050	1			
1	80	9502120	2	SPRING CLEVIS	A4	7
	79	9324000	1	WORM SHAFT	A4	
					744	
	78	9305140	1	HEX LOCK NUT M20 X 1.5		
	77	8705810	4	FLAT WASHER Ø 12		
	76	8705650	4	HEX HEAD SCREW M12 X 25		
			<u> </u>			
	75	9505540	1	CDDLANT TANK (PLASTIC)	A4	
	74	9523040	1	CHIP BASKET (PERFURATED SHEET)	A4	
	73	8705270	2	SDCKET HEAD CAP SCREW M12 X 60		
	72	8705300	2	SUCKET HEAD CAP SCREW M12 X 100		
-						
	<u> </u>	0705100	-	SECKET HEAD CAD SEDEN NO Y OF		
	68	8705130	2	SUCKET HEAD CAP SCREW M8 X 25		
_ 1						
	63	9332060	1	BACK FENCE RH (CAST IRDN)	AЗ	
	62	8705280	4	SDCKET HEAD CAP SCREW M12 X 65		
	61	9304220	2	LDCKING PAD Ø 15 X 15 (BRASS)	A4	
					<del>n4</del>	
	60	8705250	4	SDCKET HEAD CAP SCREW M12 X 40		I
	59	8705210	2	SDCKET HEAD CAP SCREW MIO X 80		
	58	9304130	1	RETAINER WASHER Ø 55 X 10	A4	
			-		H4	
	57	8705420	1	FLAT HEAD SDCKET SCREW M10 X 25		
	56	9302110	1	CDVER PLATE (CAST AL.)	A4	
	55	8705090	3	SUCKET HEAD CAP SCREW M6 X 35		
	54	9314420	1	KEY 12 X 8 X 40 LG	A4	
	53	9314050	1	WDRMWHEEL	A4	
-	52	9540000	1	ELECTRICAL ARRANGEMENT S300-S400	AB	SHEET 3 DF 3
	51	9303040	1	MACHINE STAND WELDMENT - DNE PIECE	AЗ	
1	50	9505005	1	BRASS FILTER SCREEN - GDSS MS1223		
	49	9503060	1	FILTERING DISK	A4	
				CIRCLIP INTERNAL Ø 42	art	
	48	1005230	1			
	47	9302220	1	FILTER SUCTION HEAD (CAST AL.)	AЗ	
	46	9305970	1	REDUCING BUSH D-1/4"-3/8"		FROM FESTO
	45	9505460	1	SINGLE BARBED ELBDW 5/16" X 1/4"BSPT		
	44	9533000	1	MACHINE BASE WELDMENT/CDDLANT TANK	A2	
	43	9504170	1	CLEAR PLASTIC HDSE Ø 8 I.D. X 1500 LG		USE 9505030
_				LABLE - SMALL	14	
	42	8115090	1		A4	
	41	9533010	1	FRDNT PANNEL (SHEET METAL)	A4	
	40	9312000	1	CLAMPING TABLE (CAST IRDN)	A1	
	39	9501250	1	CONVEYOR MOUNTING BRACKET - RH	AB	
	38	9501240	1	CONVEYOR MOUNTING BRACKET - LH	A3	
	75	0715700	-			
	35	8715730	2	DRIVE PIN ND. 2		
	34	1065100	1	SERIAL NUMBER PLATE	A4	
	33	9332070	1	BACK FENCE LH (CAST IRDN)	A3	
	32	9304770	2	HOLLOW DOWEL Ø 22 X 30	A4	
					A4	
	31	8705380	4	FLAT HEAD SDCKET SCREW M8 X 16		
	30	9514280	2	WEAR PLATE LH & RH	A4	7
	29	9814010	1	MAIN SPINDLE - S400	AB	
				MAIN SPINDLE - S400 MAIN SPINDLE - S315/S350		
	28	9504080	1		AB	L
	27	8735090	1	SDCKET HEAD CAP SCREW M16 X 40 LH	A4	
	26	8735360	2	DDWEL PIN Ø 10 X 30		FDR S400
	25		2	DDWEL PIN Ø 8 X 25		FDR \$315/\$350
		8715080	<u> </u>			חברי אחיו
	24	9824000	1	CDUNTER PLATE - S400	A4	
	23	9504090	1	CDUNTER PLATE - \$315/\$350	A4	
	22	9305010	1	DIL SEAL Ø 70 X Ø 90 X 10		PR4277
,	21	1033010	2	SHIM Ø 25 X Ø 17 X 0.1	A4	ļ
	20	8705440	1	SDCKET HEAD SHDULDER SCREW Ø 12 X 20 X M10		
	19	8715260	2	DISC SPRING Ø 28 X Ø 12.2 X 1.0		QTY. AS REQ.
Q.	18	8705050	5	SUCKET HEAD CAP SCREW M6 X 12		
а. 						
	17	9035140	1	SAWBLADE Ø 400 X 3 X Ø 40 X 200 TEETH		HSS 4.04 T.P.I.
1	16	9025800	1	SAWBLADE Ø 350 X 2.5 X Ø 40 X 180 TEETH		HSS 4.16 T.P.I.
-	15	9015880	1	SAWBLADE Ø 300 X 2.5 X Ø 40 X 160 TEETH		HSS 4.31 T.P.I.
					. 1	
	14	9512000	1	SAW HEAD/GEARBDX - 315/350/400	A1	CAST IRDN
	13	9304017	1	PIN - CODLANT PUMP	A4	
	12	9405450	1	CDDLANT PUMP (GDSS G 6923/CDRDNA 1895/6)		INC. GASKET
						SHET GRONET
	11	8705120	2	SUCKET HEAD CAP SCREW M8 X 20		
	10	9324070	1	COVER PLATE (PUMP TO GEARBOX)	AЗ	L
	9	8705350	8	FLAT HEAD SUCKET SCREW M6 X 16		
	8		<u> </u>			
		8705850	6	SPRING WASHER Ø 8		
_	7	8705060	12	SDCKET HEAD CAP SCREW M6 X 16		L
	6	9802000	1	INNER GUARD - 400 (CAST AL.)	AЗ	
_			<u> </u>	INNER GUARD - 350 (CAST AL.)		
	5	9502040	1		EA	ļ
	4	9302030	1	INNER GUARD - 315 (CAST AL.)	AB	I
DR	3	9505210	1	LABLE (WARNING STICKER)	A4	
						┝────┤
	2	9532050	1	DUTER GUARD - 350/400 (CAST AL.)	A3	ļ
	1	9342040	1	DUTER GUARD - 315 (CAST AL.)	AB	
		Part No.	Qty.	Name & Material	Sheet	Remark
			· ·		کا ۲۲ اند	
		. #.	Drown			
2017	RAW MAT			ANH NTS HANN	חחר	
					BU	WALLINWN I
2017	RAW MAT		Date	Lhecked	⊥D⊔ IA Pty Ltd	WALDOWN
	Mass in	n Kg.	1			
-00 -98		n Kg.	Date   Titled	01/06/2017	IA Pty Ltd	Davisia
-00 -98 -96	Mass in	n Kg.	1	01/06/2017 Lhecked Austral SAW ASSEMBLY Drg №. 05/	IA Pty Ltd	
-00 -98 -96	Mass in	n Kg.	1	01/06/2017 Lhecked Saturd	IA Pty Ltd	
-00	Mass in	n Kg.	1	01/06/2017 Lhecked Saturd	IA Pty Ltd	





	Det.	Part No.	⊡ty.	N	ane & Material		Sheet	Remark
/2017	RAW MA		Drown	ANH	Scale 1:2			
8-00	AS LISTED Mass in Kg.		N/A         Date         01/06/2017         Checked			BR BR	INGOG #ALOG!	
1-98	N/A				checked	ALISTRA	AUSTRALIA Pty Ltd	
7-96	Mat/Spec Titled SAW AS		SEMBLY	Drg No.         954000         Revision           SHEET 2 DF 3         0         0				
5-96	-96 AS LISTED S315D, S35							

DRG/PART No.							45	9904100	1	LEAD -	TRANSFORME
							44	9504210	2	JUMPER I	LEAD
9540000							43	8745180	12	CABLE T	IE 412mm
SHEET 3 DF 3						(6)	42	8725210	4	EYELET	
DO NOT SCALE	_					(5)	41	8725290	15	SPADE	
COMMERCIAL STOCK SIZES	S		$\bigcirc \bigcirc$				40	9504250	1	JUMPER I	LEAD
EXCEPTED AND UNLESS DTHERWISE NDTED		$\left(2\right)\left(1\right)$	(2)(1)		(4)	1	39	9504240	4	JUMPER I	LEAD
TOLERANCES ON			$\smile$	$\frown$	$\mathbf{n}$		38	9504220	3	JUMPER I	
DIMENSIONS ARE:				(4)			37	9104010	1		NG HANDLE
METRIC				_ >			36	9105040	1		G HANDLE SWIT
Size To Mach, Cast*		*	ní \ <b>r</b> tní				35	9304400	1		NG SWITCH
6 mm ± 0.1 ± 0.5 30 mm ± 0.2 ± 1.0				_ /			34	9615500	1	SOCKET	
100 mm ± 0.3 ± 1.5		_		<u> </u>			33	8725650	2	LOCK WAS	SHER
300 mm ± 0.5 ± 2.0 1000 mm ± 0.6 ± 3.0	(7)						32	8705770	2		SHER Ø 5
2000 mm ± 1.2 ± 5.0							31	8705700	2	HEX, NU	
* INCLUDES STRUCTURAL					$\neg$ / $\sim$		30	8715310	1		SLOTTED SCREW
STEEL WORK.		L				$\square$	29	9615490	1	PLUG	
REMOVE ALL BURRS AND SHARP EDGES BY 0.3 × 45°	-		_			(24)	28	9505620	1		/, 3PH, 8/4POL
UNLESS OTHERWISE STATED		_ /			(22)	$\succ$	27	9505080	1		/, 3PH, 8/4POL
SURFACE FINISH		9				(25)	26	9505010	1		/, 3PH, 4/2POL
Roughness Value	,			(Ξ)	(23)		25	9505150	1		/, 3PH, 8/4POL
						(26)	24	9505220	1		)V, 1PH, 4POL
Met Grade Umm No.	(10)			/			23	9304850	1		EAD 3PH, (
50 N12	$+$ $\sim$ $^{\sim}$			ך (	19)	(27)	22	9304860	1	MOTOR L	EAD 1PH, (
25 N11	(11)			(	20)	(28)	21	9304870	1		LEAD 3PH,
RDUGH 12.5 N10 6.3 N 9					20)	20	20	9314540	1	SUPPLY LE	
MED 3.2 N 8	(12)	/ F		(	21	(47)	19	9501280	1	SUPPLY I	LEAD 1PH,
FINE 1.6 N 7 S. FINE 0.8 N 6						$\bigcirc$	18	8705760	2		Sher $\phi$ 4
POLISH 0.4 N 5							17	8705690	2	HEX, NU	
LAP 0.2 N 4 0.1 N 3						(30)	16	8715280	2		. SLOTTED SCR
0.05 N 2			$\otimes$	(29)			15	9315190	1		RMER 220-4
0.925 N 1						(31)	13	9315220	1		
				h/		$\succ$	13	8715850	2		. SLOTTED SCR
DRAWING PRACTICE TO	-(14)					(32)	12	9305960	1		ROTARY CA
AS 1100 - PROJECTION			and the second se				11	3835190	1		ROTARY CAM, 1
SYSTEM (UNLESS NOTED)						(EE)	10	9305180	1		ROTARY CA
3RD	(15)						9	9505200	1		ELECTRICAL
ANGLE						$\times$ 34	8	9364810	1		E, LARGE (WII
ANGULARITY TOLERANCE			y			7, 34	7	9524130	1		RE, SMALL
< 0' 7"	(16)					$\frown$	6	8705850	4		WASHER $Ø 8$
						-(35)	5	8705130	4		, CAP SCRE
0,1 mm	$\left  \left( 17 \right) \right $	C				$\bigcirc$	4	3215270	2		
THIS DESIGN DR DRAWING IS						(37)	3	9305600	1		
NOT SOLD, BUT LENT AND IS							2	8705780	2		SHER Ø 6
SUBJECT TO RECALL. REPRODUCTIONS OF THIS			)			$\times (36)$	1	8705050	2		, CAP SCRE
DRAWING IN ANY MATERIAL				/	SS'Y P/N:						
FORM ARE RESERVED TO BROBD WALDOWN Pty. Ltd.					9301040			Part No.	Dty.		lame & Mate
UNDER COPYRIGHT LAW.	50						RAW MAT	. #.	Drawn	ANH	Scale N.T.S
	49								<b>D</b> .		
	48						Mass in	n Kg.	Date	)2/06/2017	Checked
		505670 1	MOTOR 220V, 3PH,				Mat/Spe		Titled		
	46 99	904110 1	LEAD – ELECT	RIC INTE	KLULK	A4					ASSEMBLY DIAGRAM
	Det. Pa	rt No. 🛛 ty.	Name 8	& Materia	ι	Sheet	A A A	LISTED		S315D,	S350D, S400B

RMER FEED	A4	
	A4	
mm LG.		
	A4	
	A4	NDT SHOWN
	A4	NDT SHOWN
LE BAR MS PIPE	A4	
SWITCH WITH ENCLOSURE		
CH LEAD	A4	MAT: 8745100
5		
CREW M5 x 20 LG. (EARTH)		
SLREW MJ X ZU LU, (EARIN)		
4POLE, 1.1/1.5kW, 60Hz		L90 FRAME, FACE MDUNT
4POLE, 1.1/1.5kW, 50Hz		L90 FRAME, FACE MOUNT
2PDLE, 1.5/2.2kW, 50Hz		L90 FRAME, FACE MOUNT
′4POLE, 1.1∕1.5kW, 60Hz		L90 FRAME, FACE MOUNT
4POLE, 1.7kW, 50Hz		L90 FRAME, FACE MOUNT
, (ASS'Y) 2 SPPED	A4	
, (ASSEMBLY) H, (ASSEMBLY)	A4	
	A4	
(ND PLUG FOR USA)	A4	
H, 15AMP	A4	
7		
I SCREW M4 x 12 LG.		
0-440/24V, 50/60Hz		
I SCREW M3 × 10 LG.		
CAM		(N.S.WP.W.D.)
M, 1PH & 3PH, 1 SPEED		
CAM, 3PH, 2 SPEED	Λ.Λ	
CAL WARNING (with deadman switch)	A4 A3	USE : 9305880
LL (STD MACHINE)	A3 A3	USE : 9505260
Ø 8		
 CREW M8 x 25 LG,		
13		ONLY IF 2 SPEED MOTOR FITTED
6		
CREW M6 x 12 LG.		
laterial	Sheet	Remark
		Pty Ltd
AGRAM		Revision
B J J H		
		-