## Acknowledgement

The set of drawings has been verified by the construction of a grinder from them. Any mistakes or omissions being corrected when found. This grinder is illustrated below and I would like to thank Laurie Clarke ( Melbourne Australia ) who made it and kept me informed. The drawings should be reliable but I take full responsibility if this proves not to be the case.

Don Willis


## Bonelle TCG Drawing Revisions

20/2/04
21/02/04
23/02/04
24/02/04
25/02/04
26/02/04
28/02/04
01/03/04
06/03/04
06/03/04
06/03/04
30/03/04
31/03/04
22/05/04
00/00/00
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00/00/00

G4 rev $1 \operatorname{dim} 21 / 2$ was $23 / 8$, G3 rev 2 notch added
L1 minor changes principally to clarify 'where used'
C7 Sketch added to show positioning of components.
L2/2 13/13" was 7/8" Rearranged to show slots more clearly.
Cross references to keys \& clamps ( Drgs L1 \& L2) corrected on drawings :B2, B4, D1, G1, G2, G10, H1, H3, K4.
B2 Shape corrected to correspond with B3
C10/2 scale added
C2/4 added
G11 $\operatorname{dim} 47 / 16^{\prime \prime}$ was $45 / 16^{\prime \prime}$
H 2 missing dims added
G5 $\operatorname{dim} 15 / 8^{\prime \prime}$ was $111 / 16^{\prime \prime}$
H1 assembly clarified
H7 \& H8 added
DIdim 2 1/2" added

## Bonelle TCG

## Drawings

A. General Arrangement
B. Base
C. Wheel head
D. Wheel Guard
E. Dust Containment
F. Spindle
G.Workhead
H.Toolholder
J. Front Bar
K.Tooth Rest
L.Miscellaneous

## Conventions used.

The drawings are arranged so that detail drawings follow immediately after the assembly on which they are used and bear the same drawing prefix letter $\mathrm{A}, \mathrm{B}$, etc. Details are usually easily identifiable on the assembly by their appearance. Specific reference by detail number is only made when this is not the case.
The drawings do not show tolerances and mating parts have the same dimensions. The necessary clearances must be considered and provided during manufacture.
Conventions used continued
Reference to a detail

$\qquad$
Example:- F12/3
F12 = Drawing showing that detail.$3=$ Detail number on that drawing.
Detail Numbers.

$\qquad$
Example:- Det3 (2) S.
Det 3 = Detail number
(2) = Quantity required
$\mathrm{S}=$ Material.
B $=$ BrassCI = Cast Iron (Continuously Cast Bar)
S = Bright Mild Steel
SS = Silver Steel
L = Leather

Fixings $\qquad$ The nature of the fixing is shown by the drawing (cheese head screw, cap head screw etc) only the size is specified eg.
2BA X 3/8".

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1.5 X F/S

BEARINGS :- BSI series BML EN metric series (EN13)

| (C) J.B.D.Willis. | Revision <br> 1 | Date <br> $12 / 2 / 04$ |
| :---: | :---: | :---: |

Spindle Assembly
Drg No F1












Det 4 (1) S
Make det 3 initially oversize then finish overall on mandrel to ensure concetricity of hole and to mate with G9 Assemble dets $1,2 \& 3$ using Loctite then lightly machine top face of det 1 with assembly on mandrel Assemble det 4










Det 1 (40) L1/32" thick

> Apply a $1 / 8^{\prime \prime}$ wide band of impact adhesive to each edge that is to be joined. Join then stich together $1 / 16^{\prime \prime}$ from the edge. Join initially in pairs at the centre then at the periphery.

| $\uparrow$ | (C) | J.B.D.Willis. | Revision 0 | $\begin{aligned} & \text { Date } \\ & 11 / 03 / 03 \end{aligned}$ | Bellows | Drg NoG13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |







Use S2 centre drill,


Scale ( repeated in each quadrant)













(C) J.B.D.Willis.



Det 1(6)S used on B1, C7, D1, E1, G2, G10.


Det 3(2)S used on G2 \& K4


Det 4(1)S used on G2


All holes 3/16" dia. To be drilled after trial assembly to determine correct angular position of det 7



Det 4 (1) S
Det 5 (1) S used on G2

(C) J.B.D.Willis.

| Revision | Date |
| :---: | :---: |
| 2 | $24 / 02 / 04$ |

Bar Clamp Details
Drg No L2




$|$| Revision |
| :---: |
| 0 |



