OMNI-X MX
Acceso II Num 1 Bodega 19 Zona Industrial Benito Juárez CP, 76120 Querétaro, QRO México
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OPERATION AND MAINTENANCE OF OMNI-FLEX MANDRELS

DO:

1. Set Mandrel tangent as recommended by chart below for original set-up.
2. Test ball swivel limits before bending. Bottom all balls into bend die groove; all balls should contact.
3. Occasionally rotate Mandrel on mandrel rod to distribute wear.
4. Lubricate Mandrel body and balls properly and frequently.

DON'T:

1. DO NOT drive Mandrel into tube with bending machine mandrel extractor. This may shear ball retainer rings resulting in linkage failure. Special rings are available for this application. 2. DO NOT over-clamp onto balls during bending. Breakge of balls and links will result.
2. DO NOT use more balls than required/recommended.


BALL SEGMENT

## DISASSEMBLY

1. Mandrel sizes of $5 / 6^{\prime \prime}$ O.D. and smaller are factory-repairable ONLY. All other sizes can be field-repaired. Online Video at www.omnibend.com 2. Remove Mandrel-link cap screw from Mandrel body with suitable AllenHead T-wrench. (All sizes available from factory)
2. Remove Mandrel link from work end of Mandrel. Link splits into two halves, releasing ball string.

## RE-ASSEMBLY

1. To re-assemble, reverse above procedure.

| $9 / 8$ to $11 / 8$ | $3 / 2$ to $13 / 8$ |
| :---: | :---: |
| 0.125 | 0.125 |
| 3.2 | 3.2 |
| $37 / 8$ to $21 / 4$ | $43 / 8$ to 6 |
| 0.130 | 0.130 |


| $7 / 4$ to 2 | $17 / 8$ to $5 / 2$ |
| :---: | :---: |
| 0.187 | 0.250 |
| 4.7 | 6.4 |

21/8 to 13/4

0.312
$\begin{array}{r}0.31 \\ \hline\end{array}$

43/8 to 6
8 to 21/4 9.5
0.375
9.5

