

**STANLEY**<sup>®</sup>  
Engineered Fastening

**HELI-COIL**<sup>®</sup>  
Tangless<sup>®</sup> Inserts  
Cross-Reference

Technical Bulletin HC600

**HeliCoil**<sup>®</sup>

| TANGLESS - FREE RUNNING |                |                                                  |
|-------------------------|----------------|--------------------------------------------------|
| Inch Coarse             |                |                                                  |
| HELI-COIL® Part No.     | NAS Part No.   | Equivalent MS Part No. (Tanged - Reference Only) |
| T1185-02C086            | NAS1130-02-10  | MS122095                                         |
| T1185-02C086S           | NAS1130-02-10  | MS122095                                         |
| T1185-02C129            | NAS1130-02-15  | MS122135                                         |
| T1185-02C129S           | NAS1130-02-15  | MS122135                                         |
| T1185-02C172            | NAS1130-02-20  | MS122175                                         |
| T1185-02C172S           | NAS1130-02-20  | MS122175                                         |
| T1185-02CW086           | NAS1130-02-10D | -                                                |
| T1185-02CW086S          | NAS1130-02-10D | -                                                |
| T1185-02CW129           | NAS1130-02-15D | -                                                |
| T1185-02CW129S          | NAS1130-02-15D | -                                                |
| T1185-02CW172           | NAS1130-02-20D | -                                                |
| T1185-02CW172S          | NAS1130-02-20D | -                                                |
| T1185-02CY086           | NAS1130-02-10P | -                                                |
| T1185-02CY086S          | NAS1130-02-10P | -                                                |
| T1185-02CY129           | NAS1130-02-15P | -                                                |
| T1185-02CY129S          | NAS1130-02-15P | -                                                |
| T1185-02CY172           | NAS1130-02-20P | -                                                |
| T1185-02CY172S          | NAS1130-02-20P | -                                                |
| T1185-04C112            | NAS1130-04-10  | MS122076                                         |
| T1185-04C112S           | NAS1130-04-10  | MS122076                                         |
| T1185-04C168            | NAS1130-04-15  | MS122116                                         |
| T1185-04C168S           | NAS1130-04-15  | MS122116                                         |
| T1185-04C224            | NAS1130-04-20  | MS122156                                         |
| T1185-04C224S           | NAS1130-04-20  | MS122156                                         |
| T1185-04CW112           | NAS1130-04-10D | -                                                |
| T1185-04CW112S          | NAS1130-04-10D | -                                                |
| T1185-04CW168           | NAS1130-04-15D | -                                                |
| T1185-04CW168S          | NAS1130-04-15D | -                                                |
| T1185-04CW224           | NAS1130-04-20D | -                                                |
| T1185-04CW224S          | NAS1130-04-20D | -                                                |
| T1185-04CY112           | NAS1130-04-10P | -                                                |
| T1185-04CY112S          | NAS1130-04-10P | -                                                |
| T1185-04CY168           | NAS1130-04-15P | -                                                |
| T1185-04CY168S          | NAS1130-04-15P | -                                                |
| T1185-04CY224           | NAS1130-04-20P | -                                                |
| T1185-04CY224S          | NAS1130-04-20P | -                                                |
| T1185-06C138            | NAS1130-06-10  | MS122078                                         |
| T1185-06C138S           | NAS1130-06-10  | MS122078                                         |
| T1185-06C207            | NAS1130-06-15  | MS122118                                         |
| T1185-06C207S           | NAS1130-06-15  | MS122118                                         |

| TANGLESS - FREE RUNNING |                |                                                  |
|-------------------------|----------------|--------------------------------------------------|
| Inch Coarse             |                |                                                  |
| HELI-COIL® Part No.     | NAS Part No.   | Equivalent MS Part No. (Tanged - Reference Only) |
| T1185-06C276            | NAS1130-06-20  | MS122158                                         |
| T1185-06C276S           | NAS1130-06-20  | MS122158                                         |
| T1185-06CW138           | NAS1130-06-10D | -                                                |
| T1185-06CW138S          | NAS1130-06-10D | -                                                |
| T1185-06CW207           | NAS1130-06-15D | -                                                |
| T1185-06CW207S          | NAS1130-06-15D | -                                                |
| T1185-06CW276           | NAS1130-06-20D | -                                                |
| T1185-06CW276S          | NAS1130-06-20D | -                                                |
| T1185-06CY138           | NAS1130-06-10P | -                                                |
| T1185-06CY138S          | NAS1130-06-10P | -                                                |
| T1185-06CY207           | NAS1130-06-15P | -                                                |
| T1185-06CY207S          | NAS1130-06-15P | -                                                |
| T1185-06CY276           | NAS1130-06-20P | -                                                |
| T1185-06CY276S          | NAS1130-06-20P | -                                                |
| T1185-2C164             | NAS1130-08-10  | MS122079                                         |
| T1185-2C164S            | NAS1130-08-10  | MS122079                                         |
| T1185-2C246             | NAS1130-08-15  | MS122119                                         |
| T1185-2C246S            | NAS1130-08-15  | MS122119                                         |
| T1185-2C328             | NAS1130-08-20  | MS122159                                         |
| T1185-2C328S            | NAS1130-08-20  | MS122159                                         |
| T1185-2CW164            | NAS1130-08-10D | -                                                |
| T1185-2CW164S           | NAS1130-08-10D | -                                                |
| T1185-2CW246            | NAS1130-08-15D | -                                                |
| T1185-2CW246S           | NAS1130-08-15D | -                                                |
| T1185-2CW328            | NAS1130-08-20D | -                                                |
| T1185-2CW328S           | NAS1130-08-20D | -                                                |
| T1185-2CY164            | NAS1130-08-10P | -                                                |
| T1185-2CY164S           | NAS1130-08-10P | -                                                |
| T1185-2CY246            | NAS1130-08-15P | -                                                |
| T1185-2CY246S           | NAS1130-08-15P | -                                                |
| T1185-2CY328            | NAS1130-08-20P | -                                                |
| T1185-2CY328S           | NAS1130-08-20P | -                                                |
| T1185-3C190             | NAS1130-3C-10  | MS122080                                         |
| T1185-3C190S            | NAS1130-3C-10  | MS122080                                         |
| T1185-3C285             | NAS1130-3C15   | MS122120                                         |
| T1185-3C285S            | NAS1130-3C15   | MS122120                                         |
| T1185-3C380             | NAS1130-3C20   | MS122160                                         |
| T1185-3C380S            | NAS1130-3C20   | MS122160                                         |
| T1185-3CW190            | NAS1130-3C-10D | -                                                |
| T1185-3CW190S           | NAS1130-3C-10D | -                                                |
| T1185-3CW285            | NAS1130-3C15D  | -                                                |
| T1185-3CW285S           | NAS1130-3C15D  | -                                                |

### TANGLESS - FREE RUNNING

| Inch Coarse         |                |                                                  |
|---------------------|----------------|--------------------------------------------------|
| HELI-COIL® Part No. | NAS Part No.   | Equivalent MS Part No. (Tanged - Reference Only) |
| T1185-3CW380        | NAS1130-3C20D  | -                                                |
| T1185-3CW380S       | NAS1130-3C20D  | -                                                |
| T1185-3CY190        | NAS1130-3C-10P | -                                                |
| T1185-3CY190S       | NAS1130-3C-10P | -                                                |
| T1185-3CY285        | NAS1130-3C15P  | -                                                |
| T1185-3CY285S       | NAS1130-3C15P  | -                                                |
| T1185-3CY380        | NAS1130-3C20P  | -                                                |
| T1185-3CY380S       | NAS1130-3C20P  | -                                                |
| T1185-4C250         | NAS1130-410    | MS122081                                         |
| T1185-4C250S        | NAS1130-410    | MS122081                                         |
| T1185-4C375         | NAS1130-415    | MS122121                                         |
| T1185-4C375S        | NAS1130-415    | MS122121                                         |
| T1185-4C500         | NAS1130-420    | MS122161                                         |
| T1185-4C500S        | NAS1130-420    | MS122161                                         |
| T1185-4CW250        | NAS1130-410D   | -                                                |
| T1185-4CW250S       | NAS1130-410D   | -                                                |
| T1185-4CW375        | NAS1130-415D   | -                                                |
| T1185-4CW375S       | NAS1130-415D   | -                                                |
| T1185-4CW500        | NAS1130-420D   | -                                                |
| T1185-4CW500S       | NAS1130-420D   | -                                                |
| T1185-4CY250        | NAS1130-410P   | -                                                |
| T1185-4CY250S       | NAS1130-410P   | -                                                |
| T1185-4CY375        | NAS1130-415P   | -                                                |
| T1185-4CY375S       | NAS1130-415P   | -                                                |
| T1185-4CY500        | NAS1130-420P   | -                                                |
| T1185-4CY500S       | NAS1130-420P   | -                                                |

| TANGLESS - FREE RUNNING |               |                                                  |
|-------------------------|---------------|--------------------------------------------------|
| Inch Fine               |               |                                                  |
| HELI-COIL® Part No.     | NAS Part No.  | Equivalent MS Part No. (Tanged - Reference Only) |
| T1191-3C190             | NAS1130-310   | MS124655                                         |
| T1191-3C190S            | NAS1130-310   | MS124655                                         |
| T1191-3C285             | NAS1130-315   | MS124695                                         |
| T1191-3C285S            | NAS1130-315   | MS124695                                         |
| T1191-3C380             | NAS1130-320   | MS124735                                         |
| T1191-3C380S            | NAS1130-320   | MS124735                                         |
| T1191-3CW190            | NAS1130-310D  | -                                                |
| T1191-3CW190S           | NAS1130-310D  | -                                                |
| T1191-3CW285            | NAS1130-315D  | -                                                |
| T1191-3CW285S           | NAS1130-315D  | -                                                |
| T1191-3CW380            | NAS1130-320D  | -                                                |
| T1191-3CW380S           | NAS1130-320D  | -                                                |
| T1191-3CY190            | NAS1130-310P  | -                                                |
| T1191-3CY190S           | NAS1130-310P  | -                                                |
| T1191-3CY285            | NAS1130-315P  | -                                                |
| T1191-3CY285S           | NAS1130-315P  | -                                                |
| T1191-3CY380            | NAS1130-320P  | -                                                |
| T1191-3CY380S           | NAS1130-320P  | -                                                |
| T1191-4C250             | NAS1130-4F10  | MS124656                                         |
| T1191-4C250S            | NAS1130-4F10  | MS124656                                         |
| T1191-4C375             | NAS1130-4F15  | MS124696                                         |
| T1191-4C375S            | NAS1130-4F15  | MS124696                                         |
| T1191-4C500             | NAS1130-4F20  | MS124736                                         |
| T1191-4C500S            | NAS1130-4F20  | MS124736                                         |
| T1191-4CW250            | NAS1130-4F10D | -                                                |
| T1191-4CW250S           | NAS1130-4F10D | -                                                |
| T1191-4CW375            | NAS1130-4F15D | -                                                |
| T1191-4CW375S           | NAS1130-4F15D | -                                                |
| T1191-4CW500            | NAS1130-4F20D | -                                                |
| T1191-4CW500S           | NAS1130-4F20D | -                                                |
| T1191-4CY250            | NAS1130-4F10P | -                                                |
| T1191-4CY250S           | NAS1130-4F10P | -                                                |
| T1191-4CY375            | NAS1130-4F15P | -                                                |
| T1191-4CY375S           | NAS1130-4F15P | -                                                |
| T1191-4CY500            | NAS1130-4F20P | -                                                |
| T1191-4CY500S           | NAS1130-4F20P | -                                                |

| TANGLESS - FREE RUNNING |                 |                                                  |
|-------------------------|-----------------|--------------------------------------------------|
| Inch Coarse             |                 |                                                  |
| HELI-COIL® Part No.     | NAS Part No.    | Equivalent MS Part No. (Tanged - Reference Only) |
| T3585-02C086S           | NAS1130-02-L10  | MS21209-C0210                                    |
| T3585-02C129            | NAS1130-02-L15  | MS21209-C0215                                    |
| T3585-02C129S           | NAS1130-02-L15  | MS21209-C0215                                    |
| T3585-02C172            | NAS1130-02-L20  | MS21209-C0220                                    |
| T3585-02C172S           | NAS1130-02-L20  | MS21209-C0220                                    |
| T3585-02CW086           | NAS1130-02-L10D | MS21209-C0210L                                   |
| T3585-02CW086S          | NAS1130-02-L10D | MS21209-C0210L                                   |
| T3585-02CW129           | NAS1130-02-L15D | MS21209-C0215L                                   |
| T3585-02CW129S          | NAS1130-02-L15D | MS21209-C0215L                                   |
| T3585-02CW172           | NAS1130-02-L20D | MS21209-C0220L                                   |
| T3585-02CW172S          | NAS1130-02-L20D | MS21209-C0220L                                   |
| T3585-02CY086           | NAS1130-02-L10P | MS21209-C0210P                                   |
| T3585-02CY086S          | NAS1130-02-L10P | MS21209-C0210P                                   |
| T3585-02CY129           | NAS1130-02-L15P | MS21209-C0215P                                   |
| T3585-02CY129S          | NAS1130-02-L15P | MS21209-C0215P                                   |
| T3585-02CY172           | NAS1130-02-L20P | MS21209-C0220P                                   |
| T3585-02CY172S          | NAS1130-02-L20P | MS21209-C0220P                                   |
| T3585-04C112            | NAS1130-04-L10  | MS21209-C0410                                    |
| T3585-04C112S           | NAS1130-04-L10  | MS21209-C0410                                    |
| T3585-04C168            | NAS1130-04-L15  | MS21209-C0415                                    |
| T3585-04C168S           | NAS1130-04-L15  | MS21209-C0415                                    |
| T3585-04C224            | NAS1130-04-L20  | MS21209-C0420                                    |
| T3585-04C224S           | NAS1130-04-L20  | MS21209-C0420                                    |
| T3585-04CW112S          | NAS1130-04-L10D | MS21209-C0410L                                   |
| T3585-04CW168           | NAS1130-04-L15D | MS21209-C0415L                                   |
| T3585-04CW168S          | NAS1130-04-L15D | MS21209-C0415L                                   |
| T3585-04CW224           | NAS1130-04-L20D | MS21209-C0420L                                   |
| T3585-04CW224S          | NAS1130-04-L20D | MS21209-C0420L                                   |
| T3585-04CW112S          | NAS1130-04-L10D | MS21209-C0410L                                   |
| T3585-04CY112           | NAS1130-04-L10P | MS21209-C0410P                                   |
| T3585-04CY168           | NAS1130-04-L15P | MS21209-C0415P                                   |
| T3585-04CY168S          | NAS1130-04-L15P | MS21209-C0415P                                   |
| T3585-04CY224           | NAS1130-04-L20P | MS21209-C0420P                                   |
| T3585-04CY224S          | NAS1130-04-L20P | MS21209-C0420P                                   |
| T3585-04CY112S          | NAS1130-04-L10P | MS21209-C0410P                                   |
| T3585-06C138            | NAS1130-06-L10  | MS21209-C0610                                    |
| T3585-06C138S           | NAS1130-06-L10  | MS21209-C0610                                    |
| T3585-06C207            | NAS1130-06-L15  | MS21209-C0615                                    |
| T3585-06C207S           | NAS1130-06-L15  | MS21209-C0615                                    |

| TANGLESS - FREE RUNNING |                 |                                                  |
|-------------------------|-----------------|--------------------------------------------------|
| Inch Coarse             |                 |                                                  |
| HELI-COIL® Part No.     | NAS Part No.    | Equivalent MS Part No. (Tanged - Reference Only) |
| T3585-06C276            | NAS1130-06-L20  | MS21209-C0620                                    |
| T3585-06C276S           | NAS1130-06-L20  | MS21209-C0620                                    |
| T3585-06CW138           | NAS1130-06-L10D | MS21209-C0610L                                   |
| T3585-06CW138S          | NAS1130-06-L10D | MS21209-C0610L                                   |
| T3585-06CW207           | NAS1130-06-L15D | MS21209-C0615L                                   |
| T3585-06CW207S          | NAS1130-06-L15D | MS21209-C0615L                                   |
| T3585-06CW276           | NAS1130-06-L20D | MS21209-C0620L                                   |
| T3585-06CW276S          | NAS1130-06-L20D | MS21209-C0620L                                   |
| T3585-06CY138           | NAS1130-06-L10P | MS21209-C0610P                                   |
| T3585-06CY138S          | NAS1130-06-L10P | MS21209-C0610P                                   |
| T3585-06CY207           | NAS1130-06-L15P | MS21209-C0615P                                   |
| T3585-06CY207S          | NAS1130-06-L15P | MS21209-C0615P                                   |
| T3585-06CY276           | NAS1130-06-L20P | MS21209-C0620P                                   |
| T3585-06CY276S          | NAS1130-06-L20P | MS21209-C0620P                                   |
| T3585-2C164             | NAS1130-08-L10  | MS21209-C0810                                    |
| T3585-2C164S            | NAS1130-08-L10  | MS21209-C0810                                    |
| T3585-2C246             | NAS1130-08-L15  | MS21209-C0815                                    |
| T3585-2C246S            | NAS1130-08-L15  | MS21209-C0815                                    |
| T3585-2C328             | NAS1130-08-L20  | MS21209-C0820                                    |
| T3585-2C328S            | NAS1130-08-L20  | MS21209-C0820                                    |
| T3585-2CW164            | NAS1130-08-L10D | MS21209-C0810L                                   |
| T3585-2CW164S           | NAS1130-08-L10D | MS21209-C0810L                                   |
| T3585-2CW246            | NAS1130-08-L15D | MS21209-C0815L                                   |
| T3585-2CW246S           | NAS1130-08-L15D | MS21209-C0815L                                   |
| T3585-2CW328            | NAS1130-08-L20D | MS21209-C0820L                                   |
| T3585-2CW328S           | NAS1130-08-L20D | MS21209-C0820L                                   |
| T3585-2CY164            | NAS1130-08-L10P | MS21209-C0810P                                   |
| T3585-2CY164S           | NAS1130-08-L10P | MS21209-C0810P                                   |
| T3585-2CY246            | NAS1130-08-L15P | MS21209-C0815P                                   |
| T3585-2CY246S           | NAS1130-08-L15P | MS21209-C0815P                                   |
| T3585-2CY328            | NAS1130-08-L20P | MS21209-C0820P                                   |
| T3585-2CY328S           | NAS1130-08-L20P | MS21209-C0820P                                   |
| T3585-3C190             | NAS1130-3C-L10  | MS21209-C1-10                                    |
| T3585-3C190S            | NAS1130-3C-L10  | MS21209-C1-10                                    |
| T3585-3C285             | NAS1130-3CL15   | MS21209-C1-15                                    |
| T3585-3C285S            | NAS1130-3CL15   | MS21209-C1-15                                    |
| T3585-3C380             | NAS1130-3CL20   | MS21209-C1-20                                    |
| T3585-3C380S            | NAS1130-3CL20   | MS21209-C1-20                                    |
| T3585-3CW190            | NAS1130-3C-L10D | MS21209-C1010L                                   |
| T3585-3CW190S           | NAS1130-3C-L10D | MS21209-C1-10L                                   |
| T3585-3CW285            | NAS1130-3CL15D  | MS21209-C1-15L                                   |
| T3585-3CW285S           | NAS1130-3CL15D  | MS21209-C1-15L                                   |

| TANGLESS - FREE RUNNING |                 |                                                  |
|-------------------------|-----------------|--------------------------------------------------|
| Inch Coarse             |                 |                                                  |
| HELI-COIL® Part No.     | NAS Part No.    | Equivalent MS Part No. (Tanged - Reference Only) |
| T3585-3CW380            | NAS1130-3CL20D  | MS21209-C1-20L                                   |
| T3585-3CW380S           | NAS1130-3CL20D  | MS21209-C1-20L                                   |
| T3585-3CY190            | NAS1130-3C-L10P | MS21209-C1010P                                   |
| T3585-3CY190S           | NAS1130-3C-L10P | MS21209-C1-10P                                   |
| T3585-3CY285            | NAS1130-3CL15P  | MS21209-C1-15P                                   |
| T3585-3CY285S           | NAS1130-3CL15P  | MS21209-C1-15P                                   |
| T3585-3CY380            | NAS1130-3CL20P  | MS21209-C1-20P                                   |
| T3585-3CY380S           | NAS1130-3CL20P  | MS21209-C1-20P                                   |
| T3585-4C250             | NAS1130-4L10    | MS21209-C4-10                                    |
| T3585-4C250S            | NAS1130-4L10    | MS21209-C4-10                                    |
| T3585-4C375             | NAS1130-4L15    | MS21209-C4-15                                    |
| T3585-4C375S            | NAS1130-4L15    | MS21209-C4-15                                    |
| T3585-4C500             | NAS1130-4L20    | MS21209-C4-20                                    |
| T3585-4C500S            | NAS1130-4L20    | MS21209-C4-20                                    |
| T3585-4CW250            | NAS1130-4L10D   | MS21209-C4-10L                                   |
| T3585-4CW250S           | NAS1130-4L10D   | MS21209-C4-10L                                   |
| T3585-4CW375            | NAS1130-4L15D   | MS21209-C4-15L                                   |
| T3585-4CW375S           | NAS1130-4L15D   | MS21209-C4-15L                                   |
| T3585-4CW500            | NAS1130-4L20D   | MS21209-C4-20L                                   |
| T3585-4CW500S           | NAS1130-4L20D   | MS21209-C4-20L                                   |
| T3585-4CY250            | NAS1130-4L10P   | MS21209-C4-10P                                   |
| T3585-4CY250S           | NAS1130-4L10P   | MS21209-C4-10P                                   |
| T3585-4CY375            | NAS1130-4L15P   | MS21209-C4-15P                                   |
| T3585-4CY375S           | NAS1130-4L15P   | MS21209-C4-15P                                   |
| T3585-4CY500            | NAS1130-4L20P   | MS21209-C4-20P                                   |
| T3585-4CY500S           | NAS1130-4L20P   | MS21209-C4-20P                                   |



| TANGLESS - FREE RUNNING |                |                                                  |
|-------------------------|----------------|--------------------------------------------------|
| Inch Fine               |                |                                                  |
| HELI-COIL® Part No.     | NAS Part No.   | Equivalent MS Part No. (Tanged - Reference Only) |
| T3591-3C190             | NAS1130-3L10   | MS21209-F1-10                                    |
| T3591-3C190S            | NAS1130-3L10   | MS21209-F1-10                                    |
| T3591-3C285             | NAS1130-3L15   | MS21209-F1-15                                    |
| T3591-3C285S            | NAS1130-3L15   | MS21209-F1-15                                    |
| T3591-3C380             | NAS1130-3L20   | MS21209-F1-20                                    |
| T3591-3C380S            | NAS1130-3L20   | MS21209-F1-20                                    |
| T3591-3CW190            | NAS1130-3L10D  | MS21209-F1010L                                   |
| T3591-3CW190S           | NAS1130-3L10D  | MS21209-F1-10L                                   |
| T3591-3CW285            | NAS1130-3L15D  | MS21209-F1-15L                                   |
| T3591-3CW285S           | NAS1130-3L15D  | MS21209-F1-15L                                   |
| T3591-3CW380            | NAS1130-3L20D  | MS21209-F1-20L                                   |
| T3591-3CW380S           | NAS1130-3L20D  | MS21209-F1-20L                                   |
| T3591-3CY190            | NAS1130-3L10P  | MS21209-F1010P                                   |
| T3591-3CY190S           | NAS1130-3L10P  | MS21209-F1-10P                                   |
| T3591-3CY285            | NAS1130-3L15P  | MS21209-F1-15P                                   |
| T3591-3CY285S           | NAS1130-3L15P  | MS21209-F1-15P                                   |
| T3591-3CY380            | NAS1130-3L20P  | MS21209-F1-20P                                   |
| T3591-3CY380S           | NAS1130-3L20P  | MS21209-F1-20P                                   |
| T3591-4C250             | NAS1130-4FL10  | MS21209-F4-10                                    |
| T3591-4C250S            | NAS1130-4FL10  | MS21209-F4-10                                    |
| T3591-4C375             | NAS1130-4FL15  | MS21209-F4-15                                    |
| T3591-4C375S            | NAS1130-4FL15  | MS21209-F4-15                                    |
| T3591-4C500             | NAS1130-4FL20  | MS21209-F4-20                                    |
| T3591-4C500S            | NAS1130-4FL20  | MS21209-F4-20                                    |
| T3591-4CW250            | NAS1130-4FL10D | MS21209-F4-10L                                   |
| T3591-4CW250S           | NAS1130-4FL10D | MS21209-F4-10L                                   |
| T3591-4CW375            | NAS1130-4FL15D | MS21209-F4-15L                                   |
| T3591-4CW375S           | NAS1130-4FL15D | MS21209-F4-15L                                   |
| T3591-4CW500            | NAS1130-4FL20D | MS21209-F4-20L                                   |
| T3591-4CW500S           | NAS1130-4FL20D | MS21209-F4-20L                                   |
| T3591-4CY250            | NAS1130-4FL10P | MS21209-F4-10P                                   |
| T3591-4CY250S           | NAS1130-4FL10P | MS21209-F4-10P                                   |
| T3591-4CY375            | NAS1130-4FL15P | MS21209-F4-15P                                   |
| T3591-4CY375S           | NAS1130-4FL15P | MS21209-F4-15P                                   |
| T3591-4CY500            | NAS1130-4FL20P | MS21209-F4-20P                                   |
| T3591-4CY500S           | NAS1130-4FL20P | MS21209-F4-20P                                   |

### TANGLESS - FREE RUNNING

| HELI-COIL® Part No. | Metric Coarse |                                                  |
|---------------------|---------------|--------------------------------------------------|
|                     | NAS Part No.  | MA Equivalent Part No. (Tanged - Reference Only) |
| T1084-2.5C025       | NA0276M2A-10  | MA3279-101                                       |
| T1084-2.5C025S      | NA0276M2A-10  | MA3279-101                                       |
| T1084-3C030         | NA0276M3-10   | MA3279-102                                       |
| T1084-3C030S        | NA0276M3-10   | MA3279-102                                       |
| T1084-4C040         | NA0276M4-10   | MA3279-104                                       |
| T1084-4C040S        | NA0276M4-10   | MA3279-104                                       |
| T1084-5C050         | NA0276M5-10   | MA3279-105                                       |
| T1084-5C050S        | NA0276M5-10   | MA3279-105                                       |
| T1084-6C060         | NA0276M6-10   | MA3279-106                                       |
| T1084-6C060S        | NA0276M6-10   | MA3279-106                                       |
| T1084-2.5C038       | NA0276M2A-15  | MA3279-151                                       |
| T1084-2.5C038S      | NA0276M2A-15  | MA3279-151                                       |
| T1084-3C045         | NA0276M3-15   | MA3279-152                                       |
| T1084-3C045S        | NA0276M3-15   | MA3279-152                                       |
| T1084-4C060         | NA0276M4-15   | MA3279-154                                       |
| T1084-4C060S        | NA0276M4-15   | MA3279-154                                       |
| T1084-5C075         | NA0276M5-15   | MA3279-155                                       |
| T1084-5C075S        | NA0276M5-15   | MA3279-155                                       |
| T1084-6C090         | NA0276M6-15   | MA3279-156                                       |
| T1084-6C090S        | NA0276M6-15   | MA3279-156                                       |
| T1084-2.5C050       | NA0276M2A-20  | MA3279-201                                       |
| T1084-2.5C050S      | NA0276M2A-20  | MA3279-201                                       |
| T1084-3C060         | NA0276M3-20   | MA3279-202                                       |
| T1084-3C060S        | NA0276M3-20   | MA3279-202                                       |
| T1084-4C080         | NA0276M4-20   | MA3279-204                                       |
| T1084-4C080S        | NA0276M4-20   | MA3279-204                                       |
| T1084-5C100         | NA0276M5-20   | MA3279-205                                       |
| T1084-5C100S        | NA0276M5-20   | MA3279-205                                       |
| T1084-6C120         | NA0276M6-20   | MA3279-206                                       |
| T1084-6C120S        | NA0276M6-20   | MA3279-206                                       |
| T1084-2.5CW025      | NA0276M2A-10D | MA3280-101                                       |
| T1084-2.5CW025S     | NA0276M2A-10D | MA3280-101                                       |
| T1084-3CW030        | NA0276M3-10D  | MA3280-102                                       |
| T1084-3CW030S       | NA0276M3-10D  | MA3280-102                                       |
| T1084-4CW040        | NA0276M4-10D  | MA3280-104                                       |
| T1084-4CW040S       | NA0276M4-10D  | MA3280-104                                       |
| T1084-5CW050        | NA0276M5-10D  | MA3280-105                                       |
| T1084-5CW050S       | NA0276M5-10D  | MA3280-105                                       |
| T1084-6CW060        | NA0276M6-10D  | MA3280-106                                       |
| T1084-6CW060S       | NA0276M6-10D  | MA3280-106                                       |

| TANGLESS - FREE RUNNING |               |                                                  |
|-------------------------|---------------|--------------------------------------------------|
| Metric Coarse           |               |                                                  |
| HELI-COIL® Part No.     | NAS Part No.  | MA Equivalent Part No. (Tanged - Reference Only) |
| T1084-2.5CW038          | NA0276M2A-15D | MA3280-151                                       |
| T1084-2.5CW038S         | NA0276M2A-15D | MA3280-151                                       |
| T1084-3CW045            | NA0276M3-15D  | MA3280-152                                       |
| T1084-3CW045S           | NA0276M3-15D  | MA3280-152                                       |
| T1084-4CW060            | NA0276M4-15D  | MA3280-154                                       |
| T1084-4CW060S           | NA0276M4-15D  | MA3280-154                                       |
| T1084-5CW075            | NA0276M5-15D  | MA3280-155                                       |
| T1084-5CW075S           | NA0276M5-15D  | MA3280-155                                       |
| T1084-6CW090            | NA0276M6-15D  | MA3280-156                                       |
| T1084-6CW090S           | NA0276M6-15D  | MA3280-156                                       |
| T1084-2.5CW050          | NA0276M2A-20D | MA3280-201                                       |
| T1084-2.5CW050S         | NA0276M2A-20D | MA3280-201                                       |
| T1084-3CW060            | NA0276M3-20D  | MA3280-202                                       |
| T1084-3CW060S           | NA0276M3-20D  | MA3280-202                                       |
| T1084-4CW080            | NA0276M4-20D  | MA3280-204                                       |
| T1084-4CW080S           | NA0276M4-20D  | MA3280-204                                       |
| T1084-5CW100            | NA0276M5-20D  | MA3280-205                                       |
| T1084-5CW100S           | NA0276M5-20D  | MA3280-205                                       |
| T1084-6CW120            | NA0276M6-20D  | MA3280-206                                       |
| T1084-6CW120S           | NA0276M6-20D  | MA3280-206                                       |
| T1084-2.5CY025          | NA0276M2A-10P | MA3281-101                                       |
| T1084-2.5CY025S         | NA0276M2A-10P | MA3281-101                                       |
| T1084-3CY030            | NA0276M3-10P  | MA3281-102                                       |
| T1084-3CY030S           | NA0276M3-10P  | MA3281-102                                       |
| T1084-4CY040            | NA0276M4-10P  | MA3281-104                                       |
| T1084-4CY040S           | NA0276M4-10P  | MA3281-104                                       |
| T1084-5CY050            | NA0276M5-10P  | MA3281-105                                       |
| T1084-5CY050S           | NA0276M5-10P  | MA3281-105                                       |
| T1084-6CY060            | NA0276M6-10P  | MA3281-106                                       |
| T1084-6CY060S           | NA0276M6-10P  | MA3281-106                                       |
| T1084-2.5CY038          | NA0276M2A-15P | MA3281-151                                       |
| T1084-2.5CY038S         | NA0276M2A-15P | MA3281-151                                       |
| T1084-3CY045            | NA0276M3-15P  | MA3281-152                                       |
| T1084-3CY045S           | NA0276M3-15P  | MA3281-152                                       |
| T1084-4CY060            | NA0276M4-15P  | MA3281-154                                       |
| T1084-4CY060S           | NA0276M4-15P  | MA3281-154                                       |
| T1084-5CY075            | NA0276M5-15P  | MA3281-155                                       |
| T1084-5CY075S           | NA0276M5-15P  | MA3281-155                                       |
| T1084-6CY090            | NA0276M6-15P  | MA3281-156                                       |
| T1084-6CY090S           | NA0276M6-15P  | MA3281-156                                       |
| T1084-2.5CY050          | NA0276M2A-20P | MA3281-201                                       |
| T1084-2.5CY050S         | NA0276M2A-20P | MA3281-201                                       |

| TANGLESS - FREE RUNNING |              |                                                  |
|-------------------------|--------------|--------------------------------------------------|
| Metric Coarse           |              |                                                  |
| HELI-COIL® Part No.     | NAS Part No. | MA Equivalent Part No. (Tanged - Reference Only) |
| T1084-3CY060            | NA0276M3-20P | MA3281-202                                       |
| T1084-3CY060S           | NA0276M3-20P | MA3281-202                                       |
| T1084-4CY080            | NA0276M4-20P | MA3281-204                                       |
| T1084-4CY080S           | NA0276M4-20P | MA3281-204                                       |
| T1084-5CY100            | NA0276M5-20P | MA3281-205                                       |
| T1084-5CY100S           | NA0276M5-20P | MA3281-205                                       |
| T1084-6CY120            | NA0276M6-20P | MA3281-206                                       |
| T1084-6CY120S           | NA0276M6-20P | MA3281-206                                       |

| TANGLESS - FREE RUNNING |                |                                                  |
|-------------------------|----------------|--------------------------------------------------|
| Metric Coarse           |                |                                                  |
| HELI-COIL® Part No.     | NAS Part No.   | MA Equivalent Part No. (Tanged - Reference Only) |
| T4184-2.5CW025          | NA0276M2A-L10D | MA3330-101                                       |
| T4184-2.5CW025S         | NA0276M2A-L10D | MA3330-101                                       |
| T4184-2.5CW038          | NA0276M2A-L15D | MA3330-151                                       |
| T4184-2.5CW038S         | NA0276M2A-L15D | MA3330-151                                       |
| T4184-2.5CW050          | NA0276M2A-L20D | MA3330-201                                       |
| T4184-2.5CW050S         | NA0276M2A-L20D | MA3330-201                                       |
| T4184-3CW030            | NA0276M3-L10D  | MA3330-102                                       |
| T4184-3CW030S           | NA0276M3-L10D  | MA3330-102                                       |
| T4184-3CW045            | NA0276M3-L15D  | MA3330-152                                       |
| T4184-3CW045S           | NA0276M3-L15D  | MA3330-152                                       |
| T4184-3CW060            | NA0276M3-L20D  | MA3330-202                                       |
| T4184-3CW060S           | NA0276M3-L20D  | MA3330-202                                       |
| T4184-4CW040            | NA0276M4-L10D  | MA3330-104                                       |
| T4184-4CW040S           | NA0276M4-L10D  | MA3330-104                                       |
| T4184-4CW060            | NA0276M4-L15D  | MA3330-154                                       |
| T4184-4CW060S           | NA0276M4-L15D  | MA3330-154                                       |
| T4184-4CW080            | NA0276M4-L20D  | MA3330-204                                       |
| T4184-4CW080S           | NA0276M4-L20D  | MA3330-204                                       |
| T4184-5CW100            | NA0276M5-L20D  | MA3330-205                                       |
| T4184-5CW100S           | NA0276M5-L20D  | MA3330-205                                       |
| T4184-5CW050            | NA0276M5-L10D  | MA3330-105                                       |
| T4184-5CW050S           | NA0276M5-L10D  | MA3330-105                                       |
| T4184-5CW075            | NA0276M5-L15D  | MA3330-155                                       |
| T4184-5CW075S           | NA0276M5-L15D  | MA3330-155                                       |
| T4184-6CW120            | NA0276M6-L20D  | MA3330-206                                       |
| T4184-6CW120S           | NA0276M6-L20D  | MA3330-206                                       |
| T4184-6CW060            | NA0276M6-L10D  | MA3330-106                                       |
| T4184-6CW060S           | NA0276M6-L10D  | MA3330-106                                       |
| T4184-6CW090            | NA0276M6-L15D  | MA3330-156                                       |
| T4184-6CW090S           | NA0276M6-L15D  | MA3330-156                                       |
| T4184-2.5C025           | NA0276M2A-L10  | MA3329-101                                       |
| T4184-2.5C025S          | NA0276M2A-L10  | MA3329-101                                       |
| T4184-2.5C038           | NA0276M2A-L15  | MA3329-151                                       |
| T4184-2.5C038S          | NA0276M2A-L15  | MA3329-151                                       |
| T4184-2.5C050           | NA0276M2A-L20  | MA3329-201                                       |
| T4184-2.5C050S          | NA0276M2A-L20  | MA3329-201                                       |
| T4184-3C030             | NA0276M3-L10   | MA3329-102                                       |
| T4184-3C030S            | NA0276M3-L10   | MA3329-102                                       |
| T4184-3C045             | NA0276M3-L15   | MA3329-152                                       |
| T4184-3C045S            | NA0276M3-L15   | MA3329-152                                       |
| T4184-3C060             | NA0276M3-L20   | MA3329-202                                       |
| T4184-3C060S            | NA0276M3-L20   | MA3329-202                                       |

### TANGLESS - FREE RUNNING

| HELI-COIL® Part No. | Metric Coarse  |                                                  |
|---------------------|----------------|--------------------------------------------------|
|                     | NAS Part No.   | MA Equivalent Part No. (Tanged - Reference Only) |
| T4184-4C040         | NA0276M4-L10   | MA3329-104                                       |
| T4184-4C040S        | NA0276M4-L10   | MA3329-104                                       |
| T4184-4C060         | NA0276M4-L15   | MA3329-154                                       |
| T4184-4C060S        | NA0276M4-L15   | MA3329-154                                       |
| T4184-4C080         | NA0276M4-L20   | MA3329-204                                       |
| T4184-4C080S        | NA0276M4-L20   | MA3329-204                                       |
| T4184-5C100         | NA0276M5-L20   | MA3329-205                                       |
| T4184-5C100S        | NA0276M5-2L0   | MA3329-205                                       |
| T4184-5C050         | NA0276M5-L10   | MA3329-105                                       |
| T4184-5C050S        | NA0276M5-L10   | MA3329-105                                       |
| T4184-5C075         | NA0276M5-L15   | MA3329-155                                       |
| T4184-5C075S        | NA0276M5-L15   | MA3329-155                                       |
| T4184-6C120         | NA0276M6-L20   | MA3329-206                                       |
| T4184-6C120S        | NA0276M6-L20   | MA3329-206                                       |
| T4184-6C060         | NA0276M6-L10   | MA3329-106                                       |
| T4184-6C060S        | NA0276M6-L10   | MA3329-106                                       |
| T4184-6C090         | NA0276M6-L15   | MA3329-156                                       |
| T4184-6C090S        | NA0276M6-L15   | MA3329-156                                       |
| T4184-2.5CY025      | NA0276M2A-L10P | MA3331-101                                       |
| T4184-2.5CY025S     | NA0276M2A-L10P | MA3331-101                                       |
| T4184-2.5CY038      | NA0276M2A-L15P | MA3331-151                                       |
| T4184-2.5CY038S     | NA0276M2A-L15P | MA3331-151                                       |
| T4184-2.5CY050      | NA0276M2A-L20P | MA3331-201                                       |
| T4184-2.5CY050S     | NA0276M2A-L20P | MA3331-201                                       |
| T4184-3CY030        | NA0276M3-L10P  | MA3331-102                                       |
| T4184-3CY030S       | NA0276M3-L10P  | MA3331-102                                       |
| T4184-3CY045        | NA0276M3-L15P  | MA3331-152                                       |
| T4184-3CY045S       | NA0276M3-L15P  | MA3331-152                                       |
| T4184-3CY060        | NA0276M3-L20P  | MA3331-202                                       |
| T4184-3CY060S       | NA0276M3-L20P  | MA3331-202                                       |
| T4184-4CY040        | NA0276M4-L10P  | MA3331-104                                       |
| T4184-4CY040S       | NA0276M4-L10P  | MA3331-104                                       |
| T4184-4CY060        | NA0276M4-L15P  | MA3331-154                                       |
| T4184-4CY060S       | NA0276M4-L15P  | MA3331-154                                       |
| T4184-4CY080        | NA0276M4-L20P  | MA3331-204                                       |
| T4184-4CY080S       | NA0276M4-L20P  | MA3331-204                                       |
| T4184-5CY100        | NA0276M5-20P   | MA3331-205                                       |
| T4184-5CY100S       | NA0276M5-20P   | MA3331-205                                       |
| T4184-5CY050        | NA0276M5-10P   | MA3331-105                                       |
| T4184-5CY050S       | NA0276M5-10P   | MA3331-105                                       |
| T4184-5CY075        | NA0276M5-15P   | MA3331-155                                       |
| T4184-5CY075S       | NA0276M5-15P   | MA3331-155                                       |

| TANGLESS - FREE RUNNING |              |                                                  |
|-------------------------|--------------|--------------------------------------------------|
| Metric Coarse           |              |                                                  |
| HELI-COIL® Part No.     | NAS Part No. | MA Equivalent Part No. (Tanged - Reference Only) |
| T4184-6CY120            | NA0276M6-20P | MA3331-206                                       |
| T4184-6CY120S           | NA0276M6-20P | MA3331-206                                       |
| T4184-6CY060            | NA0276M6-10P | MA3331-106                                       |
| T4184-6CY060S           | NA0276M6-10P | MA3331-106                                       |
| T4184-6CY090            | NA0276M6-15P | MA3331-156                                       |
| T4184-6CY090S           | NA0276M6-15P | MA3331-156                                       |



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