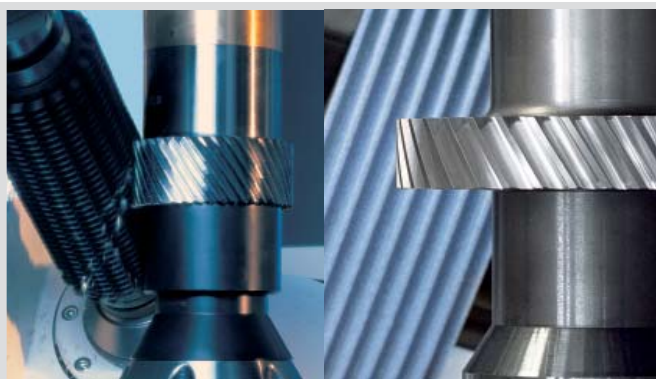




MACHINE SERVICE

MAINTENANCE, REPAIR, SPARE PARTS & TRAINING



IF IT CUTS GEARS, WE CAN FIX IT.



Star SU's machine service engineers provide technical assistance and support for a wide variety of gear cutting machinery including:

- Hobbing Machines
- Grinding Machines
- Shaping Machines
- Shaving Machines
- Chamfer / Deburring Machines
- Broaching Machines

Whether you need emergency machine repairs or a scheduled maintenance plan, software troubleshooting or operator training, Star SU service engineers can assist you. Give us a call!

Services include:

- Diagnose and repair machine problems.
- Troubleshoot software problems and provide documentation for corrections.
- Inspect machinery and recommend a schedule for maintenance repairs and replacement parts.
- Analyze process and make recommendations for selecting cutting tools and reducing cycle times.
- Provide training to operators for basic maintenance and operation.
- Supply and install spare parts.

SYSTEM TECHNOLOGY FROM ONE SOURCE

A TYPICAL MAINTENANCE INSPECTION INCLUDES:

ELECTRICAL INSPECTION

- Check and adjust voltage levels of power supplies.
- Verify and document machine data.
- Check servo and three phase motors for proper current levels.
- Verify setup of all servo drives.
- Verify that broken belt detectors are working properly.
- Inspect operator's panel push button and indicating lamps for proper function.
- Check indicating lamps in switches and valves.
- Inspect emergency stop and fire suppression circuitry for proper function.
- Test and adjust hard over travel limit switches on all axes.
- Test and adjust soft over travel limits on all axes.
- Inspect work enclosure switches and interlocks for proper function.
- Test feedback signals for all axes including the B-axis encoder for external noise.
- Make backlash comp as needed where applicable.
- Inspect operator's panel and Electrical enclosure condition.
- Inspect electrical cables for cracks, breaks and connection integrity.

MECHANICAL INSPECTION

- Inspect hydraulic unit including filter, pressure settings and lubrication system.
- Check all machine axes' geometries.
- Check condition of all machine guards and protective covers.
- Inspect all machine guide ways for any abnormal wear and proper lubrication.
- Inspect all machine coolant and hydraulic hoses and lines for leaks.
- Inspect alignment of the tailstock to the worktable.
- Inspect alignment of the loader including the part stop and load position.
- Inspect the gripper index alignment and function (i.e. open, close, up, down).
- Inspect the out board support for proper alignment and fit to the hob head.
- Inspect the collets in the hob head and out board support for proper fit and adjustment.
- Inspect the spindle belt for wear and proper tension adjustment.
- Inspect the B-axis encoder mounting and coupling alignment.
- Check backlash in all machine axes ball screws —X, Y, Z.
- Inspect the hob spindle and seals for wear.



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