



HS1280-300

B&K Fellows CNC Hydrostroke™ Gearless Gear Shaper

GEARLESS GEAR SHAPER

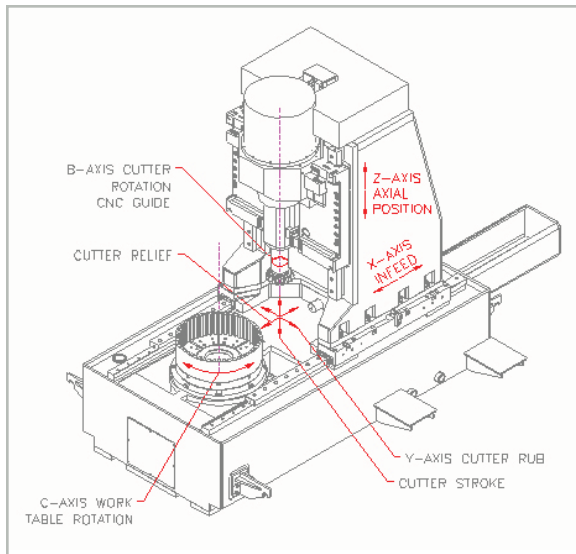
STANDARD MACHINE SPECIFICATIONS

The Bourn & Koch Fellows HS1280-300 Hydrostroke™ is a six (6) axis CNC hydraulic stroking gear shaper with variable quick return stroking, direct drive spindles, electronic indexing, elevating cutter spindle housing, and Fanuc 30iB CNC touch screen control for shaping internal and external gears.

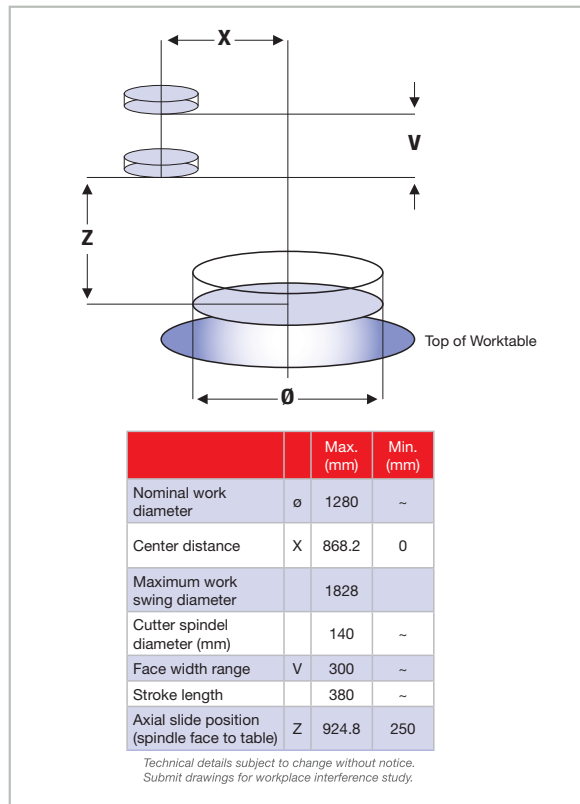
Technical Data - Capacities & Limits

| | |
|-------------------------------|------------|
| Nominal PD (external) | 1270 mm |
| Nominal PD (internal) | 1270 mm |
| Maximum Module | 12.7 mod |
| Maximum Face Width | 300 mm |
| Maximum Stroke Length | 380 mm |
| Worktable Diameter | 1120 mm |
| Cutter Spindle Stroking Range | 20-500 spm |
| Cutter Spindle Diameter | 140 mm |
| Maximum Part Swing Diameter | 1828 mm |
| Cutter spindle slide travel | 300 mm |
| Width (Approximate) | 3300 mm |
| Height (Approximate) | 3550 mm |
| Length (Approximate) | 5380 mm |
| Weight (Approximate) | 31751 kg |

Technical details subject to change without notice.



Actual machine W-H-L and Weight depend on ordered configuration. Technical data is subject to change without notice and may vary according to the workpiece geometry, the loading system and the workholding equipment supplied.



ø = Nominal Workpiece Diameter; X= Center Distance; V= Face Width Range; Z = Axial Cutter Slide Position Above Table Top



GEARLESS GEAR SHAPER

HS1280-300

B&K Fellows CNC Hydrostroke™ Gearless Gear Shaper

| Standard Equipment | |
|--|--|
| Description | |
| Base machine with GE Fanuc 30iB CNC control | |
| Hydrostatic spur guide | |
| Pendant mounted console, 15" color LCD touch screen | |
| GFI Duplex outlet (120 VAC) | |
| Manual pulse generator, inch/metric switchable | |
| Storage for approx. 100 part programs | |
| Diagnostics and error prevention | |
| Function controls and keypads for direct entry of gear shaping data | |
| Operator's menu with cutter configuration menu, part setup menu, on-line diagnostics, cycle counter, cycle timer | |
| 6 axis control using AC Servo Direct Drives: | |
| Electronic index drive for synchronizing of cutter and work rotation | |
| Stroking speed | |
| Stroking position | |
| Work spindle rotation | |
| Cutter spindle rotation | |
| Infeed speed and position | |
| Stroke length | |
| Adaptive process control for optimizing chip load | |
| Automatic compensation of temperature dependent CD changes | |
| Servo stroke positioning of cutter spindle | |
| Selectable number of cuts | |
| Programmable, multi-surface cutting capability | |
| Programmable infeed and rotary feed | |
| Oriented Stiffness Back-Off™, servo driven for taper and crown | |
| Water cooled heat exchanger for direct drives (requires plant water) | |
| Hydraulic system, free standing 200 gal. HPU | |
| Lubrication system | |
| Coolant system, chip basket, optional chip conveyor | |
| Full machine enclosure | |
| Paint: Sherwin Williams Swiss Dotted Off-White | |
| Documentation | |
| Work lamp, high intensity | |
| Manufactured in USA | |
| Standard Equipment Total (\$): | |

| Optional Equipment | |
|--|------------|
| Description | Price (\$) |
| Hydrostatic helical guide | |
| Electronic door open and close | |
| Quick change cutter mechanism | |
| Automatic hydraulic through hole fixture clamping unit | |
| Standalone liquid chiller unit for cooling direct drives | |
| Hydraulic work clamp cylinder assembly | |
| 48" discharge height magnetic chip conveyor (rear discharge) | |
| Workholding fixturing | |
| Gear shaper cutters | |
| Training programs | |
| CE certification for EU destinations | |
| Optional Equipment Total (\$): | |

| Total Cost: | |
|--------------------------------|--|
| Standard Equipment Total (\$): | |
| Optional Equipment Total (\$): | |
| TOTAL (\$): | |



Star SU LLC
 5200 Prairie Stone Parkway, Suite 100
 Hoffman Estates, IL 60192
 USA
 Tel.: 847 649 1450
 Fax: 847 649 0112
 sales@star-su.com



BOURN & KOCH INC.
 2500 Kishwaukee Street
 Rockford, IL 61104
 USA
 Tel.: 815-965-4013
 Fax 815-965-0019
 sales@bourn-koch.com