STUDER S31 CNC
Universal cylindrical grinding machine

Product code: 89-L000-31530
Condition: Used machine tool
Category: Archive
Machine type: Universal cylindrical grinding machine
Manufacturer: Studer
Model: S31 CNC
Year of construction: 2012

Technical Data

General:
Grinding length 1.800 mm
Centre distance 1.000 mm
Traverse distance X [mm] 280 mm
Traverse distance Z [mm] 1.150 mm
C-axis +/-0.5°
Feed X 0.001-10.000 r.p.m
Feed Z 0.001-20.000 r.p.m
Turning speed range 1-1.500 r.p.m
Max. diameter of grinding wheel 500 mm
Max. workpiece weight between centers 120 kg
Total power requirement 32 kVA

Grinding spindle head:
Swivel range -15° bis 195°
Automatic swivel axis (B-axis) 1° Hirth
Fine adjustment infinitely 0.0001°
Tool taper Diameter 3 mm
Drive power 7.5 kW
Grinding wheel left, diameter x width x bore 500x63x203
Grinding wheel right, diameter x width x bore 500x63x203
Peripheral speed up to 50 m/s

**Equipment / Add-ons**

Electronic gap elimination Sensitron 6  
Touchtaster Movomatic C25 (switching)  
1 balancing sensor MPM per spindle on the grinding head  
Portable balancing device MPM BMT 100 / BMT2xx  
Synchro-tailstock with clamping cone MK4 + 90 mm hub incl. hydraulic tailstock movement (top capacity 150 N/bar  
interface for 1-level balancing MPM manually, for 2 external grinding spindles  
Studer software system Release D to Fanuc  
24V voltage  
Automatic grinding cycle for one workpiece position  
Positioning measuring head Movomatic DP200 for positioning passive or interrupted surfaces  
Diameter measuring head Movomatic DU200 for measuring of not interrupted and interrupted surfaces