

KLAASSEN

SDM15-5

Stock no. :1022-H09065

MACHINE-DATA

Machinetype : CNC Lathe
 Make : KLAASSEN
 Type : SDM15-5
 Year : 2019
 Control type : CNC
 Control : Siemens 840 Dsl
 Storage location : Deutschland
 Origin : Germany
 Delivery time : Short-dated
 Quotation : ex foundation
 Price : on request



TECHNICAL DATA

turning diameter	1500 mm
turning length	4500 (5500) mm
control	Siemens 840 Dsl
max. workpiece weight between centres	6000 kg
weight of the machine ca.	40 t

TECHNICAL DESCRIPTION

CNC machine configured as a 4-way center lathe with full travel over the steady rests and superstructures

Z-axis travel (longitudinal slide) = 5000 mm (6000 mm with TAE3)

X-axis travel (transverse cross slide) = 1000 mm

Y-axis travel (vertical movement) = 350 mm

Maximum workpiece diameter = 1500 mm

Swing diameter over cross slide = 1500 mm

Center distance = 4500 mm (5500 mm with TAE3)



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The cross slide and cross slide do not restrict the diameter range due to their lateral positioning on the lathe bed. Therefore, there is no associated diameter restriction over the cross slide/tool carrier.

The cross slide unit, including the cross slide superstructure, can travel completely past the steady rests, HSSL, and tailstock. This significantly reduces setup time.

All CNC linear axes are generously dimensioned to withstand the highest cutting and process forces and ensure a long service life.

Lathe bed as a highly rigid, heavily ribbed cast iron construction with double prismatic guidance of the steady rests and superstructures - - -

Lathe bed with a very steep, roof-shaped superstructure for optimal lateral chip and coolant removal

Chip conveyor on both sides to the machine bed

Chip conveyor in a flooded design

Cross slide and face slide unit as solid cast iron constructions

Backlash-free and precise positioning of the main spindle in milling operation -

High-performance main drive with master-slave drive system

consisting of 2 x 31 kW drive power (? 62 kW S1 operation) - - -

Permanently backlash-free positioning of the main spindle through electrically clamped master-slave system

Full C-axis functionality and interpolation capability to the X/Y/Z axes

with high-resolution direct measuring system on the main spindle for Highest positioning accuracy (hollow shaft encoder)

Large-dimensioned main spindle bearing -

Main spindle bearing diameter of nominal \varnothing 395 mm -

Highest stiffness values and load ratings of the main spindle bearing. Optimal prerequisites for precise positioning and positional control, especially during turning and milling.

Permanently backlash-free thanks to preloaded bearing packages

Oil circulation lubrication for optimal heat dissipation

Full enclosure of the machine's working area -

including fully integrated extraction -

including attachable protective wall on the cross slide and additional

process inspection window for machining tasks requiring better

process monitoring – e.g., with coiled chips or rework of components

Comprehensive cooling water treatment for long emulsion service life and optimal coolant properties



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Control as a high-performance SIEMENS 840 Dsl – Operate with machine-specific adaptations and extensions - - - - -

including hand-held control unit with mobile handwheel

including drilling and milling cycles

including comprehensive license and SIEMENS equipment package

including ShopTurn interface as an alternative to classic cycle control

including control-integrated collision monitoring based on imported 3D

real-time machine setup models

The movements and positions of the chuck, workpiece, steady rests, tools, and e.g., magazine, are calculated in real time, and a warning message is triggered if a adjustable minimum safety distance is breached.

Includes

additional Klaassen control elements for maximum ease of use and superior ergonomics (19" size) on a high-quality SI

VIDEO-LINKS

WEB-LINK

<http://mhp.logotech.de/hpm/v7/Datenblatt/datenblatt.php?machineno=1022-H09065>

