

Klaassen SDM15-5 Turning-Drilling-Milling Center

General Data

Machine type: CNC turning-drilling-milling center, built in 2019, fully operational, machine operating hours: 2,972 hours

Turning diameter: Ø1500mm

Distance between centers: 4500mm

Axis travel: X1000mm, Y350mm, Z5000mm

Overall length: approximately 7,800mm, width 2,900mm, height 2,200mm

Total weight: approximately 40,000kg

Construction and mechanical features

Base: 4-track bed, designed for rigidity and precision in heavy-duty operations

Main spindle: with backlash-free C-axis, capable of continuous milling on 3 axes; Includes integrated milling spindle

Milling spindle: 37kW power, 4000 rpm, 330Nm torque (S1)

Tool changer: Automatic for turning and milling tools

Supports: Tailstock and movable support turrets on the spar

Grinding support: Prepared for grinding operations

Measuring: Direct measuring systems on all axes

CNC control – Siemens Sinumerik 840Dsl + ShopTurn

Control: Siemens 840Dsl, premium standard for complex machining; Upgradeable to SINUMERIK ONE

ShopTurn software: simplified interface ideal for turning with integrated milling (graphical programming, advanced cycles, simulation)

Includes 3D simulation, ISO cycles, and HMI interface for tool management, offset, and diagnostics

Operator panel: PCU with touchscreen and soft keys (OP-series), CNC-ISO backward compatibility possible

Accessories and equipment

Integrated automatic milling spindle

4-way tool turret

Movable tailstock and steady rest

Grinding support

Wide range of optional tools and accessories, and technical documentation included (drawings, spare parts)

Comparison summary

Features

Turning Ø / distance 1500mm / 4500mm

X/Y/Z axis travels 1000×350×5000mm

Milling spindle 37kW – 4000rpm – 330Nm

Tool changer Automatic turning and milling

Base supports: 4-way turret, steady & tailstock

CNC & software: Siemens 840Dsl with ShopTurn

Weight / Dimensions: ~40t / 7.8m × 2.9m × 2.2m

Main advantages

High versatility on large workpieces.

Excellent balance between heavy turning and precise milling with a powerful spindle.

Top-of-the-line control and software guarantee productivity, ease of programming, and maintenance. Solid measuring and support equipment, ready for use with complete accessories.