UNIVERSAL CENTER LATHES TOS SN63 Classic - DBC 3000 mm

Reset

SN63 Classic DBC4000
(ilustration photo)

SN63 Classic DBC2000
(ilustration foto)

CA Machine Tools
14-900 Village Lane, Unit #1014
Okotoks, Alberta, Canada, T1S 1Z6
Office: (403) 649-3240, Cell: (905) 878-0888
E-mail: Perry.Burton@camachinetools.ca

DESCRIPTION

Universal center lathes are one of the most famous products of the Czechoslovak manufacturing concern TST/TOS. An important manufacturer of the category of medium-sized machines was the plant in Trenčín. Since half of the twentieth century, it produced machines under the concern brand TOS Trenčín. The last twenty-five years until the end of production under the TRENS Trenčín brand. With consistent quality, continuous development and extreme durability, these machines have been very popular with customers, as evidenced by more than 100,000 lathes sold worldwide.

GENERAL REPAIRS OF MACHINES

In parallel with the production in the parent plant, smaller production facilities dealing with overhauls were established. The production plant no longer provided these services under the TRENS brand. However, he actively cooperated with these operations. He provided training of experts, technical support in the field of drawing documentation and also in the field of production know-how. The largest companies currently providing services in the field of repairs of TOS/TRENS machines is the company STAP Trenčín, with which we have started to actively cooperate and offer their solutions.

SPECIFICATION OF GENERAL REPAIRS

Features and solutions for simple and ergonomic control
hand scraping of important parts. STAP employs experts who previously worked and assembled machines in TRENS
long life time of remanufactured machines, use of only original parts
use of the same proven components and technical solutions that were used in TRENS
replacement and upgrade of technical nodes and improvements of machine groups according to the latest models
Issuance of accuracy certificates and all acceptance protocols according to relevant standards
refurbished machines meet the safety requirements of EN ISO 23 125 and regional regulations

TECHNICAL PARAMETERS

Working range		
Swing over bed	mm	630
Swing over cross slide	mm	340
Swing in bed gap	mm	880
Swing in bed gap with Digital readout	mm	800
Useful lenght in gap from front of spindle nose	mm	300
Distance between centres (d.b.c.)	mm	3000
Height of centres	mm	315
Bed width	mm	450
Spindle		
Range of spindle speeds	min^{-1}	10 - 1000
Number of spindle gears		16
Spindle nose		ISO 702/III – B8
Spindle bore	mm	71
Internal taper		METRIC 80
Max. torque/limit speed	Nm/min^{-1}	2400/20
* optional execution		
Carriages		
Working travel of cross slide	mm	400
Working travel of tool slide	mm	180
Max. tool size	mm	40 x 25
Number of feeds		38
Working range of longitudinal feeds	$mm.rev^{-1}$	0,05 - 6,4
Working range of cross feeds	$mm.rev^{-1}$	0,025 - 3,2
Longitudinal rapid traverse	$mm.min^{-1}$	3000
Cross rapid traverse	$mm.min^{-1}$	1500
Cross resetting of tool slide	° angle	±90
Tailstock		
Tailstock sleeve diameter	mm	90
Tailstock sleeve travel	mm	240
Tailstock sleeve internal taper		Morse 5
Cross resetting	mm	±10
Threads		
Metric threads	No./mm	29 / 0,5 - 40
Whitworth threads	No./TPI	38 / 1 - 80
Modular threads	No./mm	26 / 0,25 - 20
Diametral Pitch threads	No./No.	31 / 2 - 72
Maximal workpiece weight		
Max. workpiece weight clamped centres with limit speed 45 min^{-1} *	kg	1500
Max. workpiece weight clamped in chuck, workpiece with centre of gravity 100 mm from chuck front with limit speed 45 min^{-1} *	kg	110

*Valid for clamping devices (part of optional equipment) delivered by CA Machine Tools. The recommendations of other clamping devices producers must be followed by using of clamping deviced from other producers (workpiece shape, workpiece extension from clamping device, workpiece unbalance, cutting conditions, etc.)

Drives		
Total input	kVA	12/17*
Main motor output	kW	7,5/11*
Coolant pump output	kW	0,09
Rapid traverse motor output	kW	0,94/0.55**

* optional execution with 11kW main motor
** for voltage different than 400V and 220V

Dimensions		
Width x Height	mm	1210/1445* x 1600
Lenght/Weight for d.b.c. 3000 mm	mm/kg	4995/ 3300

* optional execution with11kW main motor

Operational data:

Supply voltage	V	3 x 400V ±10%
Supply frequency	Hz	50Hz ±2%
Temperature range of ambient	°Celsius	+5 až +40
Achievable accuracy of machining		IT 7

BASIC EXECUTION

Metric execution
Spindle nose Bayonet B8 (DIN 55027 & ISO 702-III)
Spindle bore Ø 73,5 mm
Four way tool post
Electrics for 3 x 400 V / 50 Hz, circuit brakers
Right hand handwheel
Maximal swing in gap 960 mm in distance 300 mm from front of spindle nose
Rapid traverse
Tailstock
Main motor output 7.5 kW
Chip pan and coolant device
LED lighting
Steel hoses cable carrier
Folding handle for X axis
Folding handle for Z axis
Colour – RAL 9003 / 7016 / 6153
Basic set of exchange gears for cutting of threads
3 pcs of shear pin
Operator kit
Operator manual on USB, documentation
Grease gun

PRICE

MACHINE IN BASIC VERSION

Basic machine configuration

SN63 Classic/3000

EXTRA CHARGES FOR ADITIONAL SPECIAL OPTIONS

Special machine configurations

Voltage USA/Canada 3x 575V/60Hz, 3x 440V/60Hz , 3x 220V/60Hz
Quick change turret Multi Suisse C + 2 pcs toolholders CD 32150
Cable carrier to suport for d.b.c. 3000 mm
Enlarged main motor output 11 kW
Chuck guard Ø 315 mm with safety switch
Rear traveling guard
Front chip guard
Safety guard for lead screw and draw bar
Tailstock lightening
Digital read out - 2 axis digital read out LIMAT

OPTIONAL EQUIPMENT

Rests ans spare inserts

Steady rest 12-180 mm with friction inserts (TRENS Design) V0757136
Steady rest, CA Machine Tools - Design & Fabrication, multi-range 90-340 mm, with rolling inserts

Stops

Micrometric longitudinal stop metric for d.b.c. from 3000 mm

Others

Complete set of replacement wheels