

# INDEX MS32C2

CNC Multi-Spindle Automatic Lathe

Machine no.: 11110001 / Production year: 2015



1	10240725 (33002)	INDEX MS32C machine, single NCU with PCU
1	10907126 (DC000018)	Electrical and mechanical attachment parts
1	10879252 (33070)	Index control C200-SL, MS32C single NCU with PCU
1	10198163 (29610)	Machine control panel, equipped with a 47cm flat screen
1	11084517 (29404)	Display text default language ENGLISH when delivered
1	10603041 (33075)	Control cabinet MS32C
1	10289061 (29619)	"Smartlight" signal lamp with LED
1	11084577 (29470)	Note: Machine designed for connection to TN system. Caution: Other types of supply require an isolating transformer!
1	10849121 (33704)	The machine will receive an EC declaration of conformity and a CE mark.
1	11084716 (33845)	<u>User documentation</u> <ul style="list-style-type: none"> <li>• 1x printed user documentation, supplied with machine</li> <li>• 1x CD/DVD. Delivery takes place within 4 weeks after date of commissioning</li> </ul>
1	10553225 (29331)	Language of the documentation: English
1	11084452 (29302)	Safety-relevant signs on the machine, in English
1	11084473 (29323)	Non-safety-relevant signs on the machine, in English
1	11084618 (29614)	INDEX multi-spindle lathes generally require cutting oil (based on mineral oil) as a cooling lubricant.
1	12001769	Only non-flammable materials with the use of coolant-lubricant may be machined.
1	11089736 (29675)	If components are provided by the customer, we need customer information/documentation as follows:

**Slide units, no.1 headstock**

1	10227142 (33113)	Slide unit 1.1 X-axis and Z-axis NC-controlled
1	10655058 (33121)	Slide unit 1.2 X-axis rigid, Z-axis NC-controlled
1	10592771 (33211)	Slide unit 2.1 X-axis rigid, Z-axis NC-controlled
1	10252991 (33223)	Slide unit 2.2 X-axis and Z-axis NC-controlled
1	10817675 (33313)	Slide unit 3.1 X-axis and Z-axis NC-controlled
1	10860620 (33323)	Slide unit 3.2 X-axis and Z-axis NC-controlled
1	10371905 (33413)	Slide unit 4.1 X-axis and Z-axis NC-controlled

**Quantity**

1	10192454 (33423)	Slide unit 4.2 X-axis and Z-axis NC-controlled
1	10398566 (33513)	Slide unit 5.1 X-axis and Z-axis NC-controlled
1	10607737 (33523)	Slide unit 5.2 X-axis and Z-axis NC-controlled
1	10299939 (33613)	Slide unit 6.1 X-axis and Z-axis NC-controlled
1	10169306 (33623)	Slide unit 6.2 X-axis and Z-axis NC-controlled

**Clamping devices for main spindle:**

1	10147227 (33772)	1 set (6 pcs.) collet mounting forced opening for tension clamping for main spindles, max. clamping diameter 32 mm.
1	10352181 (33774)	Mechanical device for replacing collet mounting on main spindle

### Workpiece feeder

1	11084714 (33829)	The IEMCA SIR MS 32 side loader is an integrated loading magazine designed and built by IEMCA exclusively for MS32 machines and sold only by INDEX.
1	10100607 (33816)	IEMCA SIR MS32/33/P <ul style="list-style-type: none"><li>• Rack loader 50 Hz</li><li>• D13-19-26-37</li><li>• without drilling unit</li><li>• Bar length 3300mm</li><li>• Material stockholding 200mm</li><li>• additional storage chain for 20 bars</li><li>• with Profibus DP slave interface.</li></ul>
		The magazine is only partly suitable for the use of shaped material.
1	10113778 (29591)	Warranty for IEMCA SIR bar feeder, region Europe 3. Includes installation check 14 days after machine commissioning.
1	10472788 (33832)	1 set (6 pieces) bar stock pushers for bar diameters D17 mm-D22 mm, consisting of: <ul style="list-style-type: none"><li>• 6 bar stock pushers D25</li><li>• 6 rotating sleeves D25</li></ul>
1	10520405 (33840)	1 set (6 pcs.) of spindle liner tubes, D 26mm,
1	10957169 (33837)	1 set (6 pieces) bar stock pushers for bar diameters D23mm-D32mm (for magazine D13-19-26-37), for bar diameters D30mm-D32mm (for magazine D19-26-33-37), consisting of: <ul style="list-style-type: none"><li>• 6 bar stock pushers D36</li></ul>

1 10613312 UNIMAG - interface for connecting a bar loading magazine  
(33790)

#### Workpiece discharge unit

1 10231680 Workpiece removal pneumatically from spindle position 6.  
(33798)

1 10656186 Conveyor belt outside machine, including cooling lubricant return, to  
(33806) remove workpieces from spindle position 6

#### Synchronizing devices

1 10544287 Synchronizing device in position 6.1  
(33758)

- Power chuck Röhm KFD HS 95/3, jaw stroke 1.0mm
- Workpiece ejector

Preparation for coolant supply through the synchronized spindle

1 12001415 Retrofitting of Hainbuch at synchronizing device in pos. 6.1  
- Hainbuch SPANNTOP Sonder Axfix Gr. 32 ZW

#### Auxiliary drives

1 10804572 Oil/air lubrication for tool holder for one to max. six units.  
(33714)

Note: Suitability must be confirmed by the manufacturer of the tool holder.

1 10227995 Preparing machine electrically for one additional drive unit including  
(33709) electronic shaft, (position-synchronous mode for main and counter  
spindles). Can be used for all auxiliary drives with incremental encoder.  
Single module.

1 10820578 Preparing machine electrically for two additional drives excl. electronic  
(33706) shaft, only speed control.  
Double module.

1 10704993 Preparing machine electrically for one additional drive excl. electronic  
(33707) shaft, only speed control.  
Single module.

1 10865462 Stroke extender from WTO for backworking.  
(33743) 2\* mounting d=22mm for fixed tools, 1\* live mounting Weldon/Whistle  
Notch d=8mm.  
max speed 6000 rpm (i=1:1)  
max. torque 4 Nm  
Sealing air and central lubrication system required. External coolant  
connection.  
Stroke travel 102 mm through hydraulics. End position monitoring by  
sensors. (incl. motor, excl. converter).  
Adequate number of electrical preparations required.

1 12001417 Retrofitting stroke extender from WTO  
Sel. 10865462 (33743) on slide 6.2

#### Machine equipment options

1	10338132 (33716)	400V/50Hz cooling unit, cooling capacity 37 kW at 40°C
1	10259086 (33721)	Automatic CO2 fire extinguishing system with fire detection, CO2 extinguishing tank and control unit.  Suitable only under certain conditions for machining magnesium or magnesium alloys.
1	10627395 (33724)	Büchel cooling lubricant mist extraction and filter system (type SH 2000-PEV-T/TR), two-stage version, one stage used
1	10086959 (29520)	Additional filter element for coolant mist extraction and filter system, incl. installation.
1	11084619 (29615)	Machine in INDEX standard color

#### Coolant supply and chip removal

1	10225766 (33729)	Standardized communication interface UNICOOL-DP between the machine and an external cooling lubricant cleaning unit.
1	10301633 (29476)	Slat band chip conveyor (transverse version), discharge height 800mm, discharging to front, including lifting pump for filter unit.
1	10890922 (29553)	Cooling lubricant cleaning system 50 Hz
1	10588051 (29486)	Additional cooling lubricant high pressure pump 400V / 50Hz, 55 l/min at 40 bar, if using oil.
1	10800925 (33765)	Cooling lubricant supply with pressure relief through the first synchronizing device

#### Electrical/software options

1	11084563 (29454)	Transmit/Tracyl function for C200-4D control system, including face and circumferential milling operations
1	10747488 (29571)	Integrated Process Monitoring System ARTIS (motor current-based)
1	11009454 (33701)	Teleservice via VPN connection
1	10000093 (33731)	Configurable electrical interface for controlling and monitoring up to 16 hydraulic or pneumatic units with M functions.

#### Tool/workpiece setup

1	11084475 (29334)	Tool holders or cutting tools are not included.
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10198163  
(29610) Machine control panel, equipped with a flat screen for C200-4D, 47 cm. Touch-sensitive IP65 glass front, framed in metal front panel with capacitive touchscreen technology. Machine control panel according to INDEX layout with back-lit keys and switches for visual activation signaling.

10289061  
(29619) "Smartlight" signal lamp with LED; free allocation possible

Presetting:

- top, red (hydraulics off, emergency stop, displays - flashing)
- top, green (in production, continuous light)
- center, yellow (operator assistance, maintenance - continuous light)
- bottom, blue (basic position - continuous light)
- complete lamp, red (fault, flashing)

10849121  
(33704) The machine will receive an EC declaration of conformity and a CE mark.

This confirmation needs to be reviewed for any modifications to the order. Issuance of the EC declaration of conformity and affixing the CE mark are subject to final inspection of the operational machine/system by the manufacturer.

11084716  
(33845) User documentation

- 1x in paper form – supplied together with the machine.
- 1x in electronic form on CD-ROM (all documents in PDF format) Delivery takes place within 4 weeks after commissioning the machine.

A detailed breakdown of the user documentation is available upon request.

11084618  
(29614) INDEX multi-spindle lathes generally require cutting oil (based on mineral oil) as a cooling lubricant. The use of unsuitable water-based cooling lubricants (so-called emulsions) or of cutting oils that are not based on mineral oil can cause considerable damage to the machine.

The following specifications must be followed in the selection of the cutting oil for multi-spindle machines:

- only cooling lubricants on mineral oil basis must be used
- the cutting oil must have the following characteristics with regard to viscosity, flash point and evaporation loss:

Viscosity class according to DIN 51519/ ISO 3448 ISO VG 10	Viscosity at 40°C according to DIN 51562	Flash point according to DIN ISO 2592
ISO VG 10	9 - 11 mm <sup>2</sup> /s	> 155 °C
ISO VG 15	13.5 - 16.5 mm <sup>2</sup> /s	> 190 °C

- The cutting oil must be free of chlorine, active sulphur and unsaturated ester oil components
- The copper strip test for 3 h at 50 °C (similar to ASTM D 130) must present grade 1a or 1b
- The proportion of saturated ester oils must be less than 10%

The information and visuals presented in this document are sourced from the manufacturer's materials.

Please feel free to get in contact with us if you require any additional information or arrangement of a technical online meeting.

[dincer.ozan@selsa.com](mailto:dincer.ozan@selsa.com)

+46 073 802 70 80