

LIDKÖPING

SSB 110/200

Fully automatic internal grinder for High-output precision grinding



SSB110

Please note that all data stated are correct at time of printing but are subject to change.

Working range

Workpiece outer diameter	19-150 mm
Workpiece width	max 65 mm
Spindle maximum angle setting	±2.5°

Grinding wheel

Speed	max 80 m/s
Outside diameter	max 90 mm
Width	max 45 mm

Grinding spindle

LMT HF	18 000 - 90 000 rpm
GMN	30 000 - 90 000 rpm

Workhead motor

Maximum speed at 3 kW	1 420 rpm
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Workhead spindle

Speed	max 2 800 rpm
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Length slide

Maximum stroke	130 mm
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Cross slide

Maximum stroke	30 mm
Backing off	0-20 mm

Feed unit, cross slide ³

Max feed	30 mm
Resolution	0.01 µm
Max feed speed	10 mm/s

Various

Chucking principle	Shoe grinding or centric
Dressing unit	Diamond cup or full profile diamond roller
Machine control	Siemens 840D
Electrical data: Main connection	40 kVA
Machine weight	4 200 kg

Pneumatic system

Volume, momentary	1 200 l free air/min
Volume, average	700 l free air/min
Pressure	0.5-0.7 MPa
Filter	5 µm

Hydraulic system

Pressures	7 MPa (+0.5 MPa), V = 18 l/min 4 MPa (+0.5 MPa), Mom. = 18 l/min
Average	= 11 l/min
Filter	6 µm
Min oil temperature	+18°C
Max oil temperature	+40°C
Oil ⁴	Shell Tellus Oil 22 or equivalent
Viscosity	ISO VG 22

Coolant

Pressure	0.15-0.6 MPa
Volume	20-40 l/min
Temperature	+18°C to +40°C (norm. +30°C)
Filter	25 µm

Cooling water: To spindles

Pressure	0.3-0.6 MPa
Volume	10 l/min
Temperature	+18°C to +25°C
Filter	50 µm

Cooling water: To hydraulic unit

Pressure	0.2-0.6 MPa
Volume	30 l/min
Temperature	+18°C
Filter	50 µm

Exhaustion

Capacity	500 m ³ /h (P = vacuum-800 Pa)
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³) Ball screw with servomotor

⁴) Indicated oil volumes valid at room temp. +20°C and oil temp. +30°C. Oil consumption increases at higher oil temperatures. Oil temperature must be kept within 10°C of mean room temperature.

SSB200

Please note that all data stated are correct at time of printing but are subject to change.

Working range

Workpiece outer diameter	20-160 mm
Workpiece width	max 100 mm

Grinding wheel

Peripheral speed	max 80 m/s
External diameter	max 100 mm
Width	max 60 mm

Grinding spindle

LMT HF	18 000 - 90 000 rpm
GMN	30 000 - 60 000 rpm

Workhead spindle

Max spindle speed	1 400 rpm
Motor output	5.5 kW
Motor speed	6 000 rpm
Stepless variable speed	
Angular adjustment	±2.5°

Length slide

Max travel	275 mm
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Feed unit, length slide ¹

Max feed	275 mm
Resolution	0.25 µm
Max feed speed	200 mm/s

Cross slide

Max travel	70 mm
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Feed unit, cross slide ¹

Max feed	70 mm
Resolution	0.25 µm
Max feed speed	200 mm/s

Loading unit

Axial stroke, loading arm	max 145 mm
Axial speed	max 434 mm/s
Rotation speed, loading arm	max 60 rpm

Pneumatic system

Volume, momentary	1 200 l free air/min
Volume, average	700 l free air/min
Pressure	0.5-0.7 MPa
Filter	5 µm

Hydraulic system

Pressures	7 MPa (+0.5 MPa), V = 20 l/min 4 MPa (+0.5 MPa), Mom. = 28 l/min
Average	= 16 l/min
Filter	6 µm
Min oil temperature	+18°C
Max oil temperature	+40°C
Oil ²	Shell Tellus Oil 22 or equivalent
Viscosity	ISO VG 22

Coolant

Pressure	0.15-0.6 MPa
Volume	30-50 l/min
Temperature	+18°C to +40°C (norm. +30°C)
Filter	25 µm

Cooling water

Pressure	0.3-0.6 MPa
Volume	12 l/min
Temperature	+18°C to +25°C
Filter	50 µm

Exhaustion

Capacity	600 m ³ /h (P = vacuum-800 Pa)
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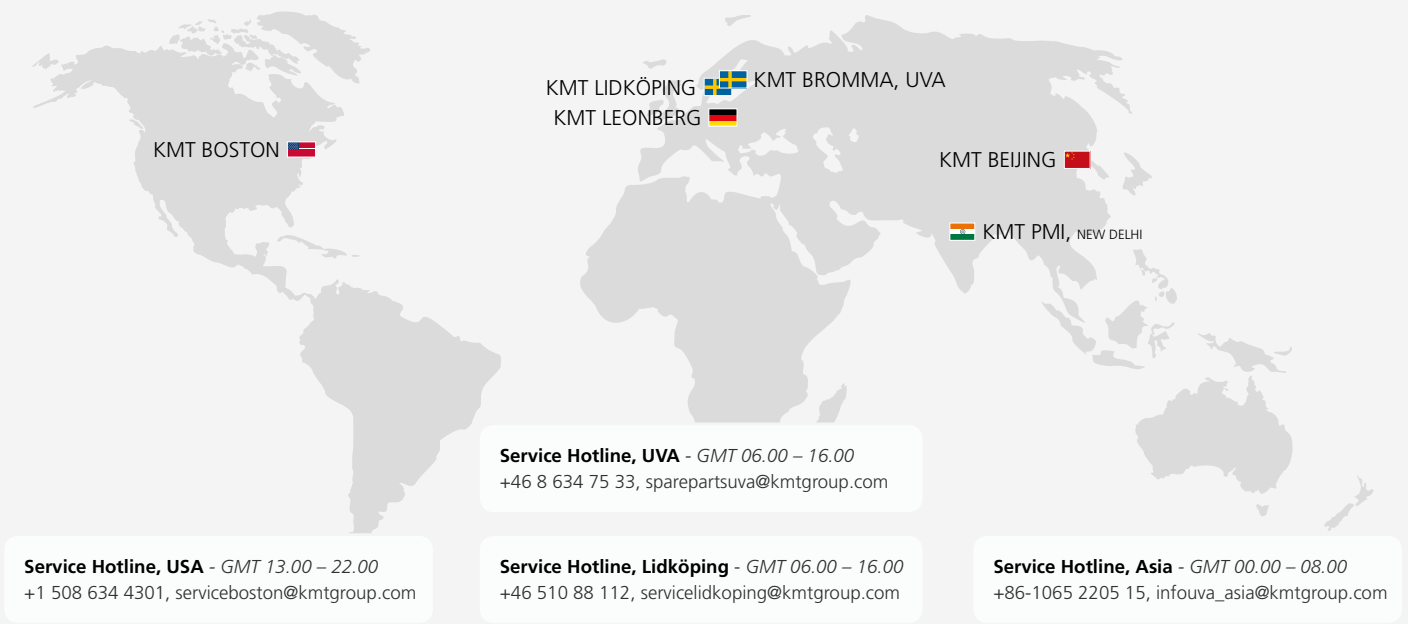
Various

Chucking principle	Centric chucking
Dressing unit	Diamond cup or full profile diamond roller
Machine control	Siemens 840D
Electrical data	55 kVA
Weight of the machine	6 850 kg

¹) Ball screw with servomotor

²) Oil consumption indicated is valid at a room temperature of +20°C and an oil temperature of +30°C. At higher oil temperatures the consumption will be increased. The difference between the oil temperature and the room temperature must not exceed 10°C.

KMT Precision Grinding



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