

High precision lathe 180-CCN R-T

**CCN-turning –
simple and flexible comparable to a conventional operation!**

The CCN lathe family have the “feel” of being a conventional machine while still offering the advantage of numerical controls.

- **Working areas : turret with fixed tools**



	180-CCN R-T A2-5	180-CCN R-T A2-6
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Capacities

Maximum turning diameter	330mm	330mm
Maximum swing over carriage	160mm	160mm
Height of centres over carriage	83mm	83mm
Maximum swing over bed	430mm	430mm
Turning length between centres (according to equipment)	650mm	635mm

Headstock

Standardized spindle nose for use of several collets and jaw-chucks by means of adapter sleeves

Accessories for SCHAUBLIN SA collets	B45 / F48	B45 / F66
Maximum throughbore Ø	36mm / 42mm	35mm / 60mm
Diameter of standard chuck	170mm	210mm
Direct AC motor drive power at 100% / 50% duty factor	15 / 18,5 kW	15 / 18,5 kW
Max.torque at 100% / 50% duty factor	135 / 165 Nm	135 / 165 Nm
Spindle speeds stepless	5000 min-1	4000 min-1
Spindle positioning increment	-	-
C Axis		
Programmable increment	-	-
Spindle locking	-	-
Pneumatic closing cylinder maximum 5 bar maximum clamping force	2700 daN	3400 daN
Apron and carriage		
Transverse stroke : X-axis	240mm	240mm
Resolution on radius	0,0005mm	0,0005mm
AC motor drive torque	3 Nm	3 Nm
Ball screw Ø x pitch	32 x 5 mm	32 x 5 mm
Longitudinal stroke : Z-axis	720mm	720mm
Resolution	0,001mm	0,001mm
AC motor drive torque	6 Nm	6 Nm
Ball screw Ø x pitch	32 x10 mm	32 x10 mm
Feeds		
Working feeds X-/Z-axis stepless	0-5000 mm/min	0-5000 mm/min
Rapid feed X-/Z-axis	8/10 m/min	8/10 m/min
Feed pressure X-/Z-axis	420/670 daN	420/670 daN
Tooling system: Turret		
Number of tool stations	8	8
Number of powered tool stations	-	-
AC motor drive power in intermittent service	-	-
Torque max. intermittent	-	-
Speed drive max	-	-
Standardized fixing of toolholders	VDI 30	VDI 30
Maximum tool size	20 x 20 mm	20 x 20 mm
Integrated cooling	+	+
Indexing in both senses of rotation	+	+
Coolant supply		
Capacity of coolant tank	120 litres	120 litres
Pump power	10 l/min	10 l/min
Pressure	5 bars	5 bars
Accessories:		
Starwheel-operated tailstock		

Spindle internal taper	Morse 5	Morse 5
Spindle external taper	72mm	72mm
Spindle stroke	225mm	225mm
Pneumatic support tailstock		
Spindle internal taper	Morse 5	Morse 5
Spindle external diameter	72mm	72mm
Spindle stroke	80mm	80mm
Adjustable pressing force	25-440 daN	25-440 daN
Fixed steady -travelling steady -tool zero setting -tool height adjustment and centring with microscope		
CNC COMFORT BY SCHAUBLIN MACHINES SA WITH 18i	18i-TA	18i-TA
Height of centres over floor	1080mm	1080mm
Approximate net weight of machine	2440 kg	2440 kg
Load floor	850 kg/m ²	850 kg/m ²
Dimension		
length	2250mm	2250mm
depth	1410mm	1410mm
depth	1700mm	1700mm

In view of the constant improvements made to our products, technical data illustrations, dimensions and weights appearing in this catalogue are subject to change without notice.

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- **Working areas drilling / milling : turret with powered tools**



	180-CCN R- TM A2-5	180-CCN R- TM A2-6
Capacities		
Maximum turning diameter	270mm	270mm
Maximum swing over carriage	160mm	160mm
Height of centres over carriage	83mm	83mm
Maximum swing over bed	430mm	430mm
Turning length between centres (according to equipment)	650mm	635mm
Headstock		
Standardized spindle nose for use of several collets and jaw-chucks by means of adapter		

sleeves		
Accessories for SCHAUBLIN SA collets	B45 / F48	B45 / F66
Maximum throughbore Ø	36mm / 42mm	35mm / 60mm
Diameter of standard chuck	170mm	210mm
Direct AC motor drive power at 100% / 50% duty factor	15 / 18,5 kW	15 / 18,5 kW
Max.torque at 100% / 50% duty factor	135 / 165 Nm	135 / 165 Nm
Spindle speeds stepless	5000 min-1	4000 min-1
Spindle positioning increment	0,1°	0,1°
C Axis		
Programmable increment	0,001°	0,001°
Spindle locking	80 Nm	80 Nm
Pneumatic closing cylinder maximum 5 bar maximum clamping force	2700 daN	3400 daN
Apron and carriage		
Transverse stroke : X-axis	230mm	230mm
Resolution on radius	0,0005mm	0,0005mm
AC motor drive torque	3 Nm	3 Nm
Ball screw Ø x pitch	32 x 5 mm	32 x 5 mm
Longitudinal stroke : Z-axis	720mm	720mm
Resolution	0,001mm	0,001mm
AC motor drive torque	6 Nm	6 Nm
Ball screw Ø x pitch	32 x10 mm	32 x10 mm
Feeds		
Working feeds X-/Z-axis stepless	0-5000 mm/min	0-5000 mm/min
Rapid feed X-/Z-axis	8/10 m/min	8/10 m/min
Feed pressure X-/Z-axis	420/670 daN	420/670 daN
Tooling system: Turret		
Number of tool stations	12	12
Number of powered tool stations	6	6
AC motor drive power in intermittent service	3,7 kW	3,7 kW
Torque max. intermittent	36 Nm	36 Nm
Speed drive max	5000 min-1	5000 min-1
Standardized fixing of toolholders	VDI 30	VDI 30
Maximum tool size	20 x 20 mm	20 x 20 mm
Integrated cooling	+	+
Indexing in both senses of rotation	+	+
Coolant supply		
Capacity of coolant tank	120 litres	120 litres
Pump power	10 l/min	10 l/min
Pressure	5 bars	5 bars
Accessories:		

Starwheel-operated tailstock

Spindle internal taper	-	-
Spindle external taper	-	-
Spindle stroke	-	-

Pneumatic support tailstock

Spindle internal taper	Morse 5	Morse 5
Spindle external diameter	72mm	72mm
Spindle stroke	80mm	80mm
Adjustable pressing force	25-440 daN	25-440 daN

Fixed steady -travelling steady -tool zero setting -tool height adjustment and centring with microscope

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