

SIPENG CNC

MACHINE TOOL SOLUTIONS

CF-50CNC / CF-60CNC

CNC FLAT TURNING MACHINE

For machining flats on round-bar components with dedicated cutter-holder configurations.

PROCESSING DIAMETER

Ø5-Ø50 mm | Ø5-Ø60 mm

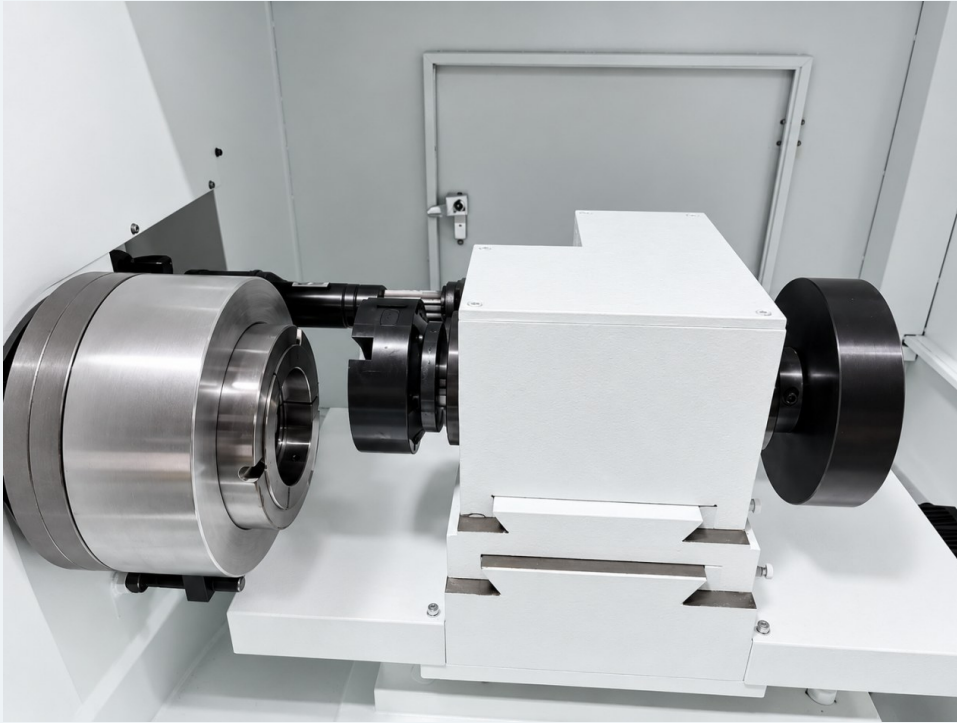
CUTTING OPTIONS

1 / 2 / 4 / 6 / 8-sided work



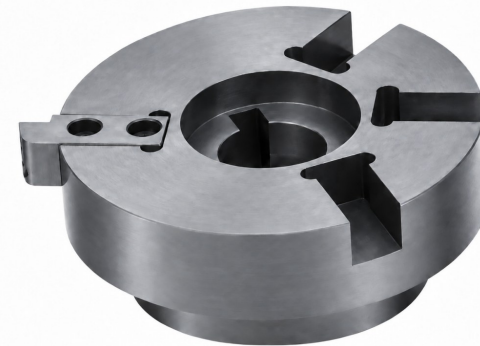
CNC-controlled flat turning

The CF-50CNC and CF-60CNC share a common machine concept, with different listed workpiece diameter capacity. Cutter holder, collet and locating details are selected for the part.



WORKING AREA

Spindle-side workholding and cutter-head arrangement shown for reference.



Single- or Double-Flat Turning Cutter Head

TURNING CUTTER HEAD

Single- or double-flat head shown. Dedicated holders are listed for common polygon profiles.



SPRING COLLET EXAMPLES

Standard hydraulic clamping and application-specific spring collets are listed in the source.

CF-50CNC and CF-60CNC

Values below are transcribed from the supplied model sheet. Items with unclear source terminology or units are flagged for confirmation.

PARAMETER	UNIT	CF-50CNC	CF-60CNC
Processing diameter range	mm	Ø5-Ø50	Ø5-Ø60
Spindle through-bore diameter	mm	Ø46	Ø60
Maximum turning length	mm	100	100
Concentricity-related value*	mm	Ø0.05	Ø0.05
Workpiece across-flat accuracy	mm	0.05	0.05
Surface-finish value*	—	1.6	1.6
Number of flats	—	1, 2, 4, 6, 8...	1, 2, 4, 6, 8...
Feed adjustment	—	Stepless	Stepless
Main motor power	kW	3.0	4.0
Spindle speed range	r/min	100-800, stepless	100-800, stepless
Control system	—	KND	KND
Power supply	—	380 V, 3-phase, 4-wire	380 V, 3-phase, 4-wire
Pump power	kW	0.75	0.75
Net weight (approx.)	kg	1,500	1,600

* The source translates the concentricity-related term as “different degree of heart”; confirm the measurement definition. Surface finish is listed as 1.6 with unit “nm” in the source; confirm the intended roughness unit before publication.

X/Z-axis drive entries are omitted because the source labels them as motor power but gives values and “nm” units that do not clearly identify the motor rating. Confirm motor type and rating with the machine builder.

Use the approved machine specification and part drawing to confirm the final configuration, process capability and inspection method.

Standard equipment and options

Confirm the final workholding and tooling package against the workpiece drawing, flat count and angular-position requirements.

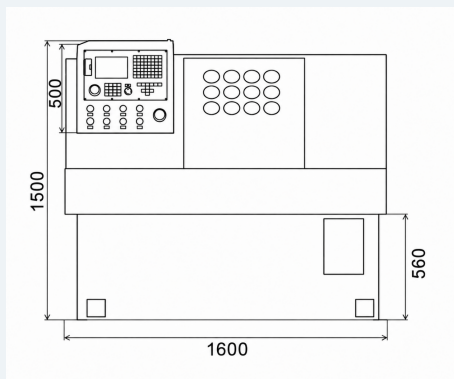
STANDARD EQUIPMENT

- 1 Hydraulic spring-collet clamping unit
- 2 Dedicated cutter holder for 1, 2, 4 and 6 flats
- 3 Electric automatic lubrication pump
- 4 Spindle-linked workpiece positioning rod

OPTIONAL CONFIGURATIONS

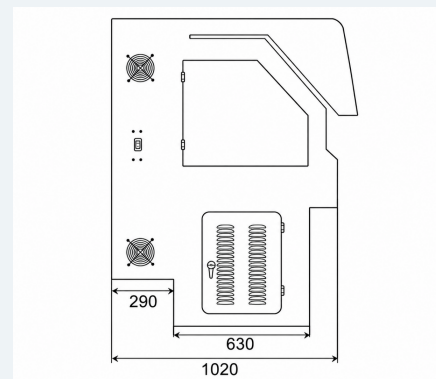
- 1 Custom spring collet for special workpieces
- 2 Dedicated cutter holder for 1, 2, 4 or 8 flats
- 3 Hydraulic tailstock
- 4 Special locating rod for two-end flat turning at a specified angle
- 5 Hydraulic oil cooling unit

APPROXIMATE MACHINE ENVELOPE



Front: 1,600 mm wide × 1,500 mm high

Dimensions interpreted from supplied outline drawings; leave additional clearance for loading, maintenance and utilities.



Side: 1,020 mm overall depth