## Overview of functions SINUMERIK CNCs

## Overview of options for SINUMERIK 840D sl

## Overview

Option	Page	Order No.
3-axis transformation PACO for parallel kinematics	2/34	6FC5800-0AM44-0YB0
3D tool radius compensation	2/52	6FC5800-0AM48-0YB0
Advanced Position Control APC	2/28	6FC5800-0AM13-0YB0
Analog output	2/38	6FC5800-0AM37-0YB0
Axial coupling in the machine coordinate system MCSC	2/32	6FC5800-0AM23-0YB0
Axis/spindle, each additional	2/12	6FC5800-0AA00-0YB0
Clearance control CLC 1D/3D in position control cycle including in the interpolation cycle	2/38	6FC5800-0AM40-0YB0
Clearance control 1D/3D in position control cycle, free direction	2/38	6FC5800-0AM65-0YB0
CNC user memory for programs, OEM cyles and data, expansion by 2 MB in each case	2/10	6FC5800-0AD00-0YB0
Compensation of a forced mechanical coupling AXCO	2/32	6FC5800-0AM81-0YB0
Continue machining at the contour (retrace support)	2/30	6FC5800-0AM24-0YB0
Contour handwheel	2/36	6FC5800-0AM08-0YB0
Crank interpolation CRIP	2/30	6FC5800-0AN04-0YB0
Cross-mode actions	2/38	6FC5800-0AM43-0YB0
Electronic gear EG	2/32	6FC5800-0AM22-0YB0
Electronic transfer	2/36	6FC5800-0AM35-0YB0
Electronic transfer CP	2/36	6FC5800-0AM76-0YB0
Evaluation of internal drive variables	2/38	6FC5800-0AM41-0YB0
Generic couplings	2/32	
CP Basic		6FC5800-0AM72-0YB0
CP Comfort		6FC5800-0AM73-0YB0
CP Expert		6FC5800-0AM74-0YB0
CP Static		6FC5800-0AM75-0YB0
Handling package	2/36	6FC5800-0AS31-0YB0
HMI user memory, additional on CF card of NCU	2/12, 2/50, 2/58	6FC5800-0AP12-0YB0
Inclined axis	2/34	6FC5800-0AM28-0YB0
Interrupt routines with fast retraction from the contour	2/38	6FC5800-0AM42-0YB0
Involute interpolation	2/30	6FC5800-0AM21-0YB0
Laser switching signal	2/38	6FC5800-0AM38-0YB0
Machining channel, each additional	2/10	6FC5800-0AC10-0YB0
Machining package 5 axes	2/36	6FC5800-0AM30-0YB0
Machining package 5 axes Additional function 7th axis	2/36	6FC5800-0AS01-0YB0
Machining package milling	2/36	6FC5800-0AM26-0YB0
Master value coupling and curve table interpolation (LEAD)	2/32	6FC5800-0AM20-0YB0
Master/slave for drives	2/32	6FC5800-0AM03-0YB0
Measure kinematics	2/34	6FC5800-0AP18-0YB0
Measuring cycles for drilling/milling and turning	2/34	6FC5800-0AP28-0YB0
Measuring stage 2	2/34	6FC5800-0AM32-0YB0
Mode group (MG), each additional	2/10	6FC5800-0AC00-0YB0

0.11		0.1.11
Option	Page	Order No.
Monitoring for max. tool speed/acceleration	2/54, 2/74	6FC5800-0AS08-0YB0
Motion control: Advanced Surface	2/30	6FC5800-0AS07-0YB0
Multi-axis interpolation	2/30	6FC5800-0AM15-0YB0
Operation with tool management	2/54	6FC5800-0AM50-0YB0
Operation with tool management with more than 3 magazines	2/52	6FC5800-0AM88-0YB0
Oscillation functions	2/36	6FC5800-0AM34-0YB0
Pair of synchronized axes (gantry axes)	2/32	6FC5800-0AM02-0YB0
Polynomial interpolation	2/30	6FC5800-0AM18-0YB0
Positioning axis/auxiliary spindle, each additional	2/12	6FC5800-0AB00-0YB0
Position switching signals/ cam controller	2/28	6FC5800-0AM07-0YB0
Program preprocessing	2/42	6FC5800-0AM00-0YB0
Punching/nibbling	2/36	6FC5800-0AM33-0YB0
Safety Integrated	2/80	
• SI axis/spindle		6FC5800-0AC70-0YB0
SI axis/spindle package		6FC5800-0AC60-0YB0
• SI-Basic		6FC5800-0AM63-0YB0
• SI-Comfort		6FC5800-0AM64-0YB0
Setpoint exchange	2/28	6FC5800-0AM05-0YB0
Spline interpolation	2/30	6FC5800-0AS16-0YB0
Spline interpolation for 3-axis machining	2/30	6FC5800-0AM16-0YB0
Spline interpolation for 5-axis machining	2/30	6FC5800-0AM17-0YB0
Synchronized actions stage 2	2/38	6FC5800-0AM36-0YB0
Synchronous spindle/multi-edge turning COUP	2/32	6FC5800-0AM14-0YB0
Tangential control	2/28	6FC5800-0AM06-0YB0
Technology package milling SINUMERIK MDynamics 3 axes	2/36	6FC5800-0AS32-0YB0
Technology package milling SINUMERIK MDynamics 5 axes	2/36	6FC5800-0AS33-0YB0
Transformation DOUBLETRANSMIT 2TRA	2/34	6FC5800-0AM25-0YB0
Transformation for pantograph kinematics 2 axes SCIS	2/34	6FC5800-0AM51-0YB0
Transformation handling RCTRA	2/34	6FC5800-0AM31-0YB0
Transformation robotics extended ROBX	2/34	6FC5800-0AN54-0YB0
Transformation TRIPOD HYBRID basis, 5 axes, THYK	2/34	6FC5800-0AN36-0YB0
TRANSMIT and cylinder surface transformation	2/34	6FC5800-0AM27-0YB0
Travel to fixed stop with Force Control	2/28	6FC5800-0AM01-0YB0
Velocity adaptation VADA	2/36	6FC5800-0AN05-0YB0