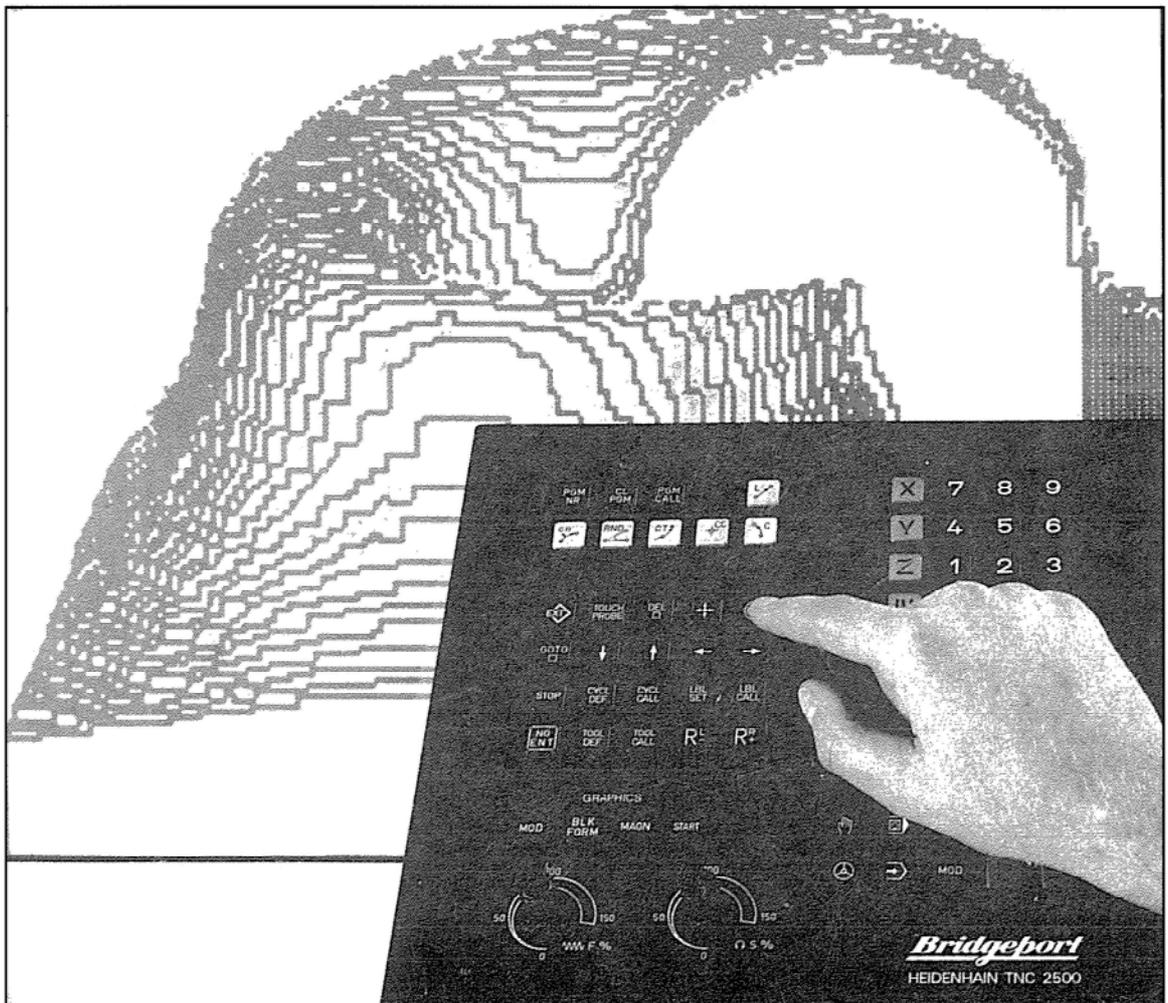


Operating Manual Programming in Plain Language

HEIDENHAIN TNC 2500 Contouring Control



Contents

General	Introduction	A1
	Operating modes and displays	A4
	Workpiece coordinates	A6
	Machine axes	A8
	Cutting data	A11
Setting-up	Switch-on	E1
	Manual mode	E2
	Electronic handwheel, jog	E6
	Positioning with manual data input	E8
	3D Touch probe	E11
Programming in plain language	Program/The plain language concept	K1
	Dialogue/Editing	K5
	Tools	K10
	Tool path compensation	K14
	Auxiliary and supplementary functions	K20
	Movements in Cartesian coordinates	K22
	Movements in Polar coordinates	K43
	Approach to/Departure from a contour	K50
	Special behaviour of compensation *	K59
	Teach-in *	K66
	Program jumps *	K68
	Jumps within a program	K69
	Program call	K75
	Standard cycles, Introduction, Overview	K77
	– Machining cycles	K78
	– Variable-contour pockets	K88
– Coordinate transformations *	K113	
– other cycles *	K122	
Parametric programming *	K125	
Program run	Program tests	L1
	Graphic simulation	L2
	Automatic, Single block	L10
	– Faults, Interruptions *	L11
	– Background programming *	L15
	– Transfer blockwise *	L16
Supplementary information *	General displays, Settings	Z1
	Traversing ranges	Z3
	External data transmission	Z4
	User-parameters	Z14
	Error messages	Z16
	Technical data	Z17
	Accessories	Z18

* These topics can be disregarded when working through this manual for the first time.