Functional group overview

Functions	Description									
=CM	&=CM;									
=CM.05	Prepare communication Ethernet TCP/IP WLAN access point									
=DP.01	Prepare computer infrastructure functions									
=DV	Machine kinematics (axes system/main axes)									
=EC.01	Provide air conditioning in electrical cabinet									
=EC.03	Iluminate work area									
=EP	Electric power supply									
=HM.01	Observe work area									
=HM.04	Show operating status of machine with signal lamps									
=HM.05	Operation of workpiece changer									
=HM.06	Activate safety lock using key switch									
=HM.08	Displays for sorting finished parts									
=IE.04	Prepare intermediate circuit 600V DC for servo drive									
=IE.05	Prepare 24V DC control voltage, safeguard current circuits, generate system bus									
=IE.06	Connect and distribute customer-provided line voltage 400V/460V 50/60Hz									
=IF	Interfaces									
=IF.01	Prepare and distribute compressed air									
=IF.04	Prepare nitrogen cutting gas									
=IF.06	Prepare compressed air cutting gas									
=IF.08	Recool cooling water									
=IF.09	Prepare hydraulic energy									
=IF.10	Prepare and distribute lubricant									
=IF.MA	Prepare multiple function cutting gas									
=IL	Laser interfaces									
=IL.02	Prepare line voltage 400V/460V 50/60Hz for laser									
=MA	Multi-function									
=MS.01	Make safe enclosed protective housing and pallet opening access									
=MS.02	Make safe access to pallet changer Protective earthing and EMC Suction out fumes and dusts									
=PE										
=RM.05										
=SY.SD	Safety functions with safety doors									
=TL	Handle laser beam tool									
=TL.07	Monitor the cutting head to prevent collisions;									
=TL.11	Guide and shape cutting gas flow									
=WM	&=WM;									
=WM.01	Generate X axis feed motion									
=WM.02	Generate Y axis feed motion									
=WM.03	Generate Z axis feed motion									
=WP	Workpiece									
=WP.01	Move workpiece pallet horizontally (Chain drive)									
=WP.03	Move workpiece pallet vertically									

Т	I IRUIVIFF			Change number	Edited	Reviewed	Approved	Designation			Contents Functional group overview							
		Machine Tools Co., Ltd Jiangsu	Set of schematics TruLaser 1000 fiber BE			34711-08	01.02.2024	01.02.2024		Circuit diagram TruLaser 1000 fiber BE								
	215400 Taicang	Project number	Vers.proj.	Doc.type		TCN521ZX 03.04.2023	TCN521ZX 17.05.2023	TCN520HU 17.05.2023	Document number	Doc. part	Version	Status	Id number		Sheet	Туре	Format	
		China COPYRIGHT BY TRUMPF	93630-5-E1	03	E3S	Original record	TCN521TE	TCN521TE		93630-5-201	002	03	RE	2815136	6	of 111	E1	А3