

MILL - FUNCTIONALITY & TECHNICAL FEATURES OVERVIEW CHART

	Essential	Core	Advanced	Professional
	G3/G3 Touch	G3/G3 Touch	G3/G3 Touch	G3/G3 Touch
GENERAL FEATURES				
3 Axis motion control	✓	✓	✓	✓
Axis slaving		✓	✓	✓
Tools & Workoffsets	✓	✓	✓	✓
Tools available from 1 to 100	✓	✓	✓	✓
Workoffsets from G54 to G59	✓	✓	✓	✓
Parking offsets		✓	✓	✓
Conversational routines	✓	✓	✓	✓
Inputs / Outputs	✓	✓	✓	✓
Cycle Start (INPUT)	✓	✓	✓	✓
Feed Hold (INPUT)	✓	✓	✓	✓
G-code Rewind (INPUT)	✓	✓	✓	✓
5 Axis motion Control		✓	✓	✓
Axis Salving		✓	✓	✓
Parking Offset		✓	✓	✓
Auto tool ZERO		✓	✓	✓
Tool Setter (INPUT)		✓	✓	✓
Tool Air Blast Cleaning (OUTPUT)		✓	✓	✓
Auto Tool Zero		✓	✓	✓
MPG support		✓	✓	✓
Wi-Fi for MASSO Link, Cloud and Phone App		✓	✓	✓
Engraving Laser		✓	✓	✓
Laser PWM (OUTPUT)		✓	✓	✓
Laser-Air Assist (OUTPUT)		✓	✓	✓
<i>Note: when this feature is not available only enable T111 in multi-head logic</i>				
Multi Head - Plasma Only		✓	✓	✓
Plasma On/Off Signal (OUTPUT)		✓	✓	✓
Plasma-Up/Down (OUTPUT)		✓	✓	✓
Plasma-Ohmic On/Off (OUTPUT)		✓	✓	✓
Plasma-MASSO DTHC (INPUT)		✓	✓	✓
Plasma Ohmic (INPUT)		✓	✓	✓
Plasma Torch Touch Signal (INPUT)		✓	✓	✓
Plasma Torch Breakaway Signal (INPUT)		✓	✓	✓
Plasma Plasma Arc OK Signal (INPUT)		✓	✓	✓
Plasma THC Up (INPUT)		✓	✓	✓
Plasma THC Down (INPUT)		✓	✓	✓
<i>Note: when this feature is not available only T112 in multi-head logic will be available</i>				
Probing		✓	✓	✓
Probe (INPUT)		✓	✓	✓
Spindle RPM control (VFD, PWM & STEP)		✓	✓	✓
Spindle Coolant Flow Alarm (INPUT)		✓	✓	✓
Spindle Coolant Pulses Alarm (INPUT)		✓	✓	✓
Spindle Motor Alarm (INPUT)		✓	✓	✓
Spindle VFD Run Status (INPUT)		✓	✓	✓
<i>Note: when this feature is not available system will only execute M3, M4 & M5 commands, S command will be ignored</i>				
Chuck Clamp		✓	✓	✓
Chuck Clamp (OUTPUT)		✓	✓	✓
Chuck Clamp/Unclamp (INPUT)		✓	✓	✓
Door Control		✓	✓	✓
Door Open/Close (OUTPUT)		✓	✓	✓
Door Sensor (INPUT)		✓	✓	✓
Door Open/Close (INPUT)		✓	✓	✓
Motor feedback signals for closed loop		✓	✓	✓
X, Y, Z, A, B Motor Alarm (INPUT)		✓	✓	✓
Manual tool change		✓	✓	✓
Tool change command T and M6		✓	✓	✓

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GENERAL FEATURES				
Manual load tools		✓	✓	✓
Extended Tools & Workoffsets			✓	✓
Tools available from 0 to 118			✓	✓
Extended Workoffsets available			✓	✓
Advanced Probing			✓	✓
Dry run mode			✓	✓
T0 commands			✓	✓
Dry run mode button			✓	✓
Laser Crosshair + (OUTPUT)			✓	✓
Multi Head - All			✓	✓
Laser Pointer On /Off (OUTPUT)			✓	✓
Laser Up/Down (OUTPUT)			✓	✓
Light On / Off (OUTPUT)			✓	✓
Door Open/Close (OUTPUT)			✓	✓
Camera-Light On/Off (OUTPUT)			✓	✓
Oxy-Gas1 On/Off (OUTPUT)			✓	✓
Oxy-Gas2 On/Off (OUTPUT)			✓	✓
Oxy-Igniter (OUTPUT)			✓	✓
Oxy-Up/Down (OUTPUT)			✓	✓
Pen 1-Up/Down (OUTPUT)			✓	✓
Pen 2-Up/Down (OUTPUT)			✓	✓
Scribe Up/Down (OUTPUT)			✓	✓
Scribe on/Off (OUTPUT)			✓	✓
Spindle Select (Main & Multi-Spindle 1-4) (INPUT)			✓	✓
WaterJet-Abrasive On/Off (INPUT)			✓	✓
WaterJet-Air On/Off (INPUT)			✓	✓
WaterJet-Low Pressure On/Off (INPUT)			✓	✓
WaterJetOn/Off (INPUT)			✓	✓
WaterJet-Pump On/Off (INPUT)			✓	✓
WaterJet-Shield On/Off (INPUT)			✓	✓
WaterJet-Tap Water On/Off (INPUT)			✓	✓
Oxy Flameout (INPUT)			✓	✓
WaterJet-Cut Sense (INPUT)			✓	✓
WaterJet-Head Breakaway (INPUT)			✓	✓
WaterJet-Air Pressure Low (INPUT)			✓	✓
WaterJet-Water pressure Low (INPUT)			✓	✓
WaterJet-Abrasive Metering (INPUT)			✓	✓
Alarms			✓	✓
Sounder (OUTPUT)			✓	✓
Air Pressure Low Alarm (INPUT)			✓	✓
Automatic Tool Changers			✓	✓
Tool Changer (INPUT & OUTPUT)			✓	✓
Advanced Inputs / Outputs (AUX)			✓	✓
Autoload G-Code (1, 2, 3, 4, 5, 6) Inputs			✓	✓
Auxiliary Output (1 to 16) (OUTPUT)			✓	✓
Auxiliary Input (1 to 16) (INPUT)			✓	✓
Auxiliary Output (1-6) Toggle (INPUT)			✓	✓
Go to Home Machine (INPUT)			✓	✓
Go to Parking Position (INPUT)			✓	✓
Home Machine (INPUT)			✓	✓
Axis Jog/Rapid (INPUT)			✓	✓
Jog/Rapid Mode (INPUT)			✓	✓
Coolant Control			✓	✓
Coolant Flood (OUTPUT)			✓	✓
Coolant Mist (OUTPUT)			✓	✓
Coolant Flood On Input (INPUT)			✓	✓
Coolant Mist & Flood Off (INPUT)			✓	✓
Coolant Mist On Input (INPUT)			✓	✓

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GENERAL FEATURES				
Lubrication Control			✓	✓
Lubrication (OUTPUT)			✓	✓
Lubricant Alarm (INPUT)			✓	✓
QR Scanner Support			✓	✓
Cutter Comp			✓	✓
<i>Note: when this feature is not available the gcodes will be skipped</i>				
Jump To Line			✓	✓
S-curve Acceleration			✓	✓
Rigid Tapping			✓	✓
<i>Note: when this feature is not available the gcodes will be skipped</i>				
Macro (LUA)				✓
Job Rotation				✓
RTCP				✓