



MESSER 
Cutting Systems

Messer Plamill GV

Messer Plamill GV-B

Straight & Bevel Plasma Cutting, High Speed Drilling,
Tapping, Milling in one Complete Systems

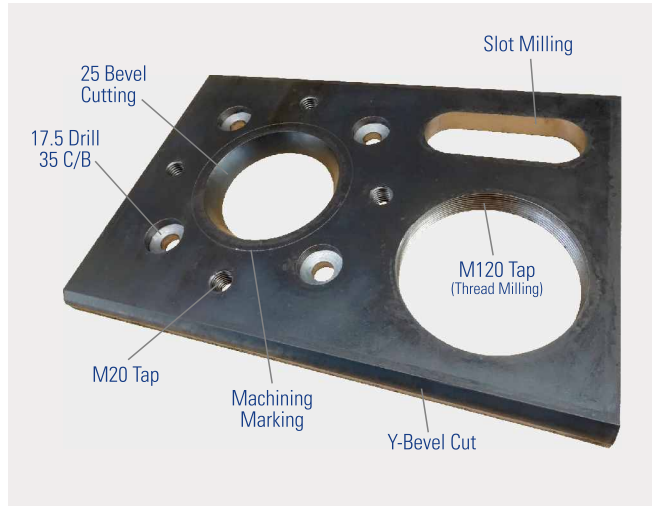
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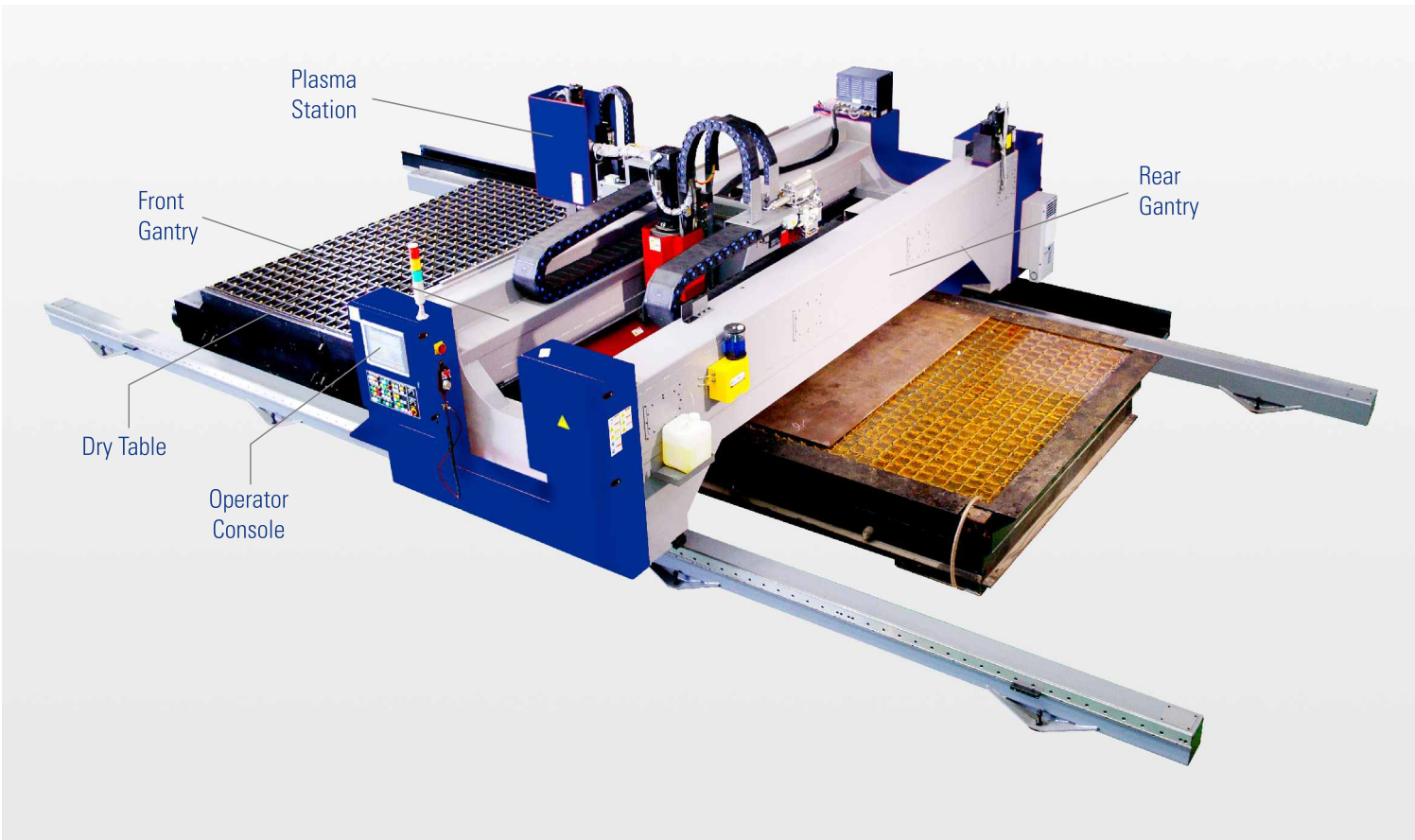
Straight & Bevel Plasma Cutting, High Speed Drilling, Tapping, Milling in one Complete Systems



Straight or Bevel plasma cutting



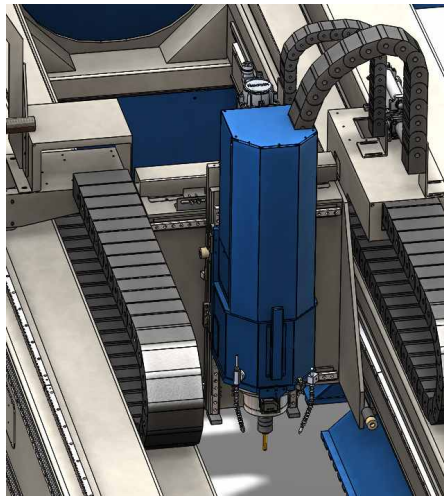
Spindle suitable for outer / inner cutting, equipped with Anti-crash, anti-malfunction laser sensor, Independent oil cooler for BT40 spindle. High machinable harmless mist oil.





CNC Controller

- High reliable Rexroth Bosch Controller.
- Ethernet Communication.
- Easy-to-use operating screen.
- Easy maintenance screen.
- Easy tool setting screen.
- 15-inch touch screen.
- Fine adjustment and Torch height controller by MPG.
- 1 X USB slot.



CNC Machining & Bevel Plasma Combined Machine

- High rigid dual gantry type.
- High definition bevel plasma.
- High speed drill, tap and milling.
- Cutting available width 3.0m.
- Cutting available length 6.0m (Extendable up to 30.0m).
- 10 servo axis.
- Independent movement of plasma head and machining head.
- More stable and Faster process.



Machining Head

- During Slave X processing, the material and dual gantry are fixed. It makes more stable and faster processing.
- High performance spindle motor.
- Rated torque 90Nm at 3000rpm / Max 6000rpm.
- Rated power 29.2kW.
- Max. Ø250mm helical drilling.
- Low vibration, stable machining process due to 4 pneumatic clamps.
- Max. traverse speed 36m/min.

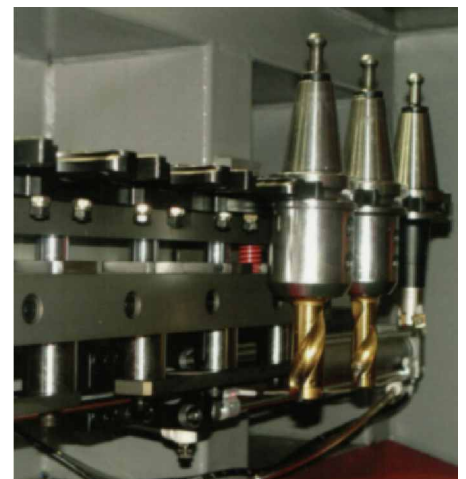


Closed type cable conveyor ensures Protection of cable from machining chips & slag etc.



Bevel Plasma Head

- Bevel Head with infinite rotation function with TCP (Tool Centre Point Mode) enhanced productivity.
- Automatic marking / cutting switch (Using Automatic Gas Console).
- Arc voltage automatic sampling for Torch Height Control.
- Fast initial height sensing by Laser sensor.
- Decrease processing time by memorizing the initial height in close-distance processing.
- Torch lead up / down servo motor for prevent cable damage.
- Break away system for prevent torch damage.



Auto Tool Changer (ATC)

- 8 tools mounting and auto-changing.
- Continuous auto-working after manual changing in use of more than 9 tools.
- Sensor to prevent collision and malfunction.
- Pneumatic driving causing less failure.
- BT40 station.



Easy Handling, Powerful Library CAM Software

- CAD function.
- NC simulation.
- Full compatibility.
- Auto Nest.
- Remnant Nest (Optional).
- Bridge Cutting (Optional).
- Pre-piercing (Optional).
- Common Line Cutting (Option).



Cutting Table

- Insertable copper pin grating.
- Increase machinability.
- Prevent machining tool damaged.
- Increase plasma current conductivity.
- Both side fume collecting door.
- Separated section for increase fume collecting.
- Air-cylinder collecting door.



High Precise Rail for High Speed

- High precise helical gear for high precise process.
- High rigid for high speed.
- Decreasing failure rate because of simple structure.



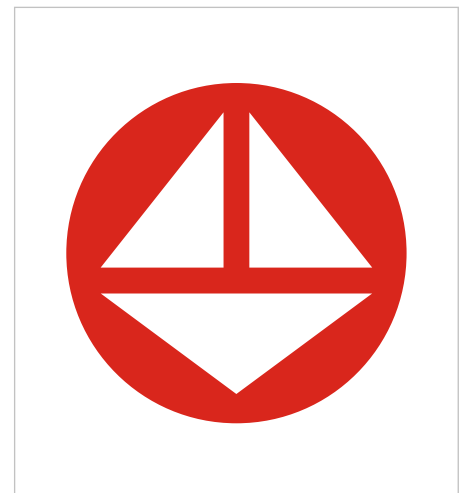
Safety system

- Industrial Air-conditioner for operating panel.
- Safety sensor and over temperature sensor for each driven part.
- Warning light for safety.



High Precise Laser Sensor

- Auto check material height for plasma.
- Reduce material height sensing time.
- Reduce torch body crash rate.
- Tool checking for Auto Tool Changer.
- Reduce faulty process and tool damage.

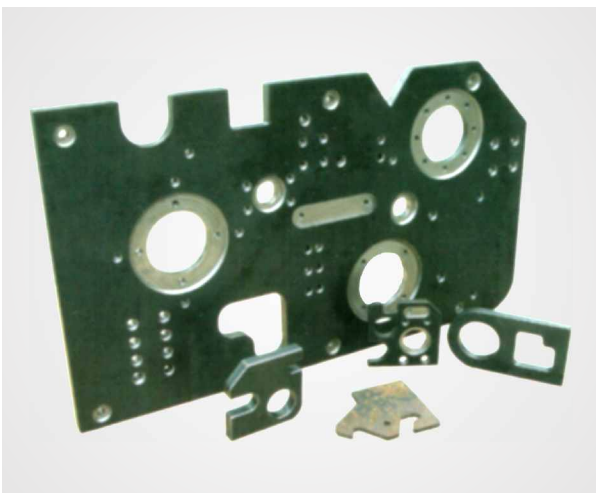
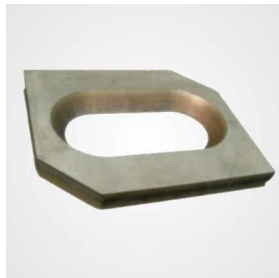
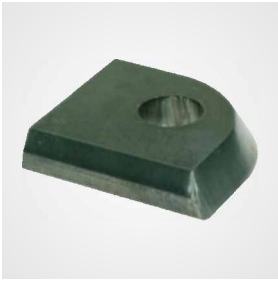


Specification

Technical Data (dimensions in mm)					
Description	Plamill GV		Plamill GV-B		
	3200	4200	3200	4200	
Size of Machine	Total width (mm)	5870	6870	5870	6870
	Track width (mm)	4295	5295	4295	5295
	Working width (mm)	3200	4200	3200	4200
	Min. Cutting length (mm)	2000			
	Min. track length (mm)	8000			
	Slave axis Machining Span (mm)	250			
Cutting Table	Table height (mm)	650			
	Table width - dry table	3260	4460	3260	4460
	Table width - water table	3260	4460	3260	4460
	Pin space	Standard : 125mm X 125mm (can be reduced based on the job)			
	positioning speed Y axis (transverse)	50 m/min			
Axis Speed	Positioning speed X-axis (longitudinal)	36 m/min			
	Positioning speed Z drill axis	25 m/min			
	Spindle motor	Rexroth Bosch			
	Spindle torque	90Nm at 3100rpm			
Drilling Milling Tapping	Spindle max power	29.2Kw			
	Spindle max speed	5000 rpm			
	Spindle size	BT40			
	Max drill	dia 40			
	Max tap	M24			
	Max helical drill	dia 250 M40			
	Max thickness	50 mm			
	Coolant system	Mist coolant			
	Database for drill, tap	Mildsteel			
	Drill length measurement	Manual			
	Spindle Z stroke	300 mm			
	Z axis sytem	Ballscrew, 2 lm guide & servomotor			
	Z axis servo rating	12NM at 2500rpm (max 3.14Kw)			
	Z servo motor max speed	4000 rpm			
	Plate clamping	pneumatic (4 cyl)			
Bevel	Bevel Angle	-	-	45 Deg	45 Deg
	TCP / Non TCP	-	-	TCP	TCP
	Rotation	-	-	Infinity	Infinity
ATC	No of Tools	8			
	Max size of drill	Dia 40			
	Tool positioning	Pneumatic			
Plasma Configuration		Hypertherm / Kjellberg as per customer requirement			
Controller		Rexroth Bosch 15.6GA			
Software		Sigmanest VX1			
Marking head	Make	MC2000U			
	Type	Fast dot peen marking			
	Marking window	17mm X 160 mm			
	Speed small letters	10 letters / sec			
	Speed big letters	3 letters / sec			
	Up/down stroke	150 mm			

High Quality Output

Cutting Sample from this system



Messer Plamill GV Messer Plamill GV-B

Straight & Bevel Plasma Cutting,
High Speed Drilling, Tapping,
Milling in one Complete Systems

- Complete machine of plate processing, Plasma cutting, Milling, Drilling, Marking all in one
- Compact design reduces space requirements.
- High Positioning speed reduces idle time between cuts.
- Strong Spindle Motor for powerful drill & mill application
- Specialised Rails with Helical rack & gear for extremely smooth movement.
- Side control console for ease of access and safe operation and view of both sides
- Easy access to the cutting bed from all sides permits quick and efficient unloading and reloading reducing idle time between plates.
- Integrated fume extraction to meet all environmental standards for dust and fumes. Extractor & dust filter to be arranged by customer.
- Specially designed copper Pin type Grating table for effective plasma cutting & Drilling
- Specialised controller for all Thermal & Non Thermal operation powered by world class plate processing Software.

The descriptions, technical data and illustrations contained in this document are provided for guidance purposes only and are non-binding. The manufacturer reserves the right to make alterations to products without notices.

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