

Waterjet/Plasma cutting machine type BP

Best
Quality

Made in
EU
★★★



BP-C (Compact) 4020

TCI waterjet-/plasma cutting machines type BP are innovative, flexible combination machines of extremely high quality, manufactured in Spain, using the newest technology for product optimization. Type BP is characterized by a bridge-type construction, which gives great robustness and enables to cut large surfaces.

The gantry drive system on the Y-axis allows high acceleration and high speed thus reducing operating time.

BP-S, BP-M and BP-H can all be expanded in length by adding new modules. Max. no. of bridges of BP-S & BP-M are 4 pcs. A plasma head can be built onto all BP models.

The machines come with various high-pressure pumps and various cutting heads depending on the job to be carried out and the material.

Fields of application:

- Aeronautics (alloys, titanium, etc.)
- Food (chocolate, fish, etc.)
- Automotive (rubber, composites, etc.)
- Construction (iron, marble, ceramics, etc.)
- Metallurgy (stainless steel, brass, etc.)
- Toys (foams, synthetic fibers, etc.)
- Furniture (glass, wood, fabrics, etc.)
- Advertising (plexiglas, PVC, vinyl, etc.)



BP-S (Standard) 3060



BP-H (High) 3040



BP-M (Modular) 4060

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Advantages and characteristics:

- Travel speed up to 85 m/min.
- “Smart system” for moving up to 4 independent cutting heads, allowing maximum utilization of materials.
- Real time consumable status monitoring software allows preventive maintenance and downtime prevention.
- Fully automated sludge removal system.
- CNC, control cabinet, intensifier and peripherals are shielded from the working area of the machine.
- Possibilities for both frontal and lateral loading of materials.
- Autonomous functioning system.
- Anti-collision system with digital sensitivity regulation.



Type	Max. thickness	Max. load	Cutting heads	Positioning speed	Max. cutting speed	Max. tolerance	Repeatability precision	Dimension
	mm	kg/m ²	Stk.	m/min.	m/min.	mm/m	mm/m	mm
BP-C 4020	200	790	1-2	85	20	± 0,05	± 0,025	4000x2000x200
BP-S 3015	200	790	1-4	85	20	± 0,05	± 0,025	3000x1500x200
BP-S 3020	200	790	1-4	85	20	± 0,05	± 0,025	3000x2000x200
BP-S 2040	200	790	1-4	85	20	± 0,05	± 0,025	2000x4000x200
BP-S 3060	200	790	1-4	85	20	± 0,05	± 0,025	3000x6000x200
BP-S 3080	200	790	1-4	85	20	± 0,05	± 0,025	3000x8000x200
BP-S 4060	200	790	1-4	85	20	± 0,05	± 0,025	4000x6000x200
BP-S 4080	200	790	1-4	85	20	± 0,05	± 0,025	4000x8000x200
BP-M 2040	200	1000	1-4	85	20	± 0,05	± 0,025	2000x4000x200
BP-M 3020	200	1000	1-4	85	20	± 0,05	± 0,025	3000x2000x200
BP-M 3060	200	1000	1-4	85	20	± 0,05	± 0,025	3000x6000x200
BP-M 3080	200	1000	1-4	85	20	± 0,05	± 0,025	3000x8000x200
BP-M 30120	200	1000	1-4	85	20	± 0,05	± 0,025	3000x12000x200
BP-M 4060	200	1000	1-4	85	20	± 0,05	± 0,025	4000x6000x200
BP-M 4080	200	1000	1-4	85	20	± 0,05	± 0,025	4000x8000x200
BP-M 40120	200	1000	1-4	85	20	± 0,05	± 0,025	4000x12000x200
BP-H 3015	200	790	1-4	85	20	± 0,05	± 0,025	3000x1500x500
BP-H 3020	200	790	1-4	85	20	± 0,05	± 0,025	3000x2000x500
BP-H 2040	200	790	1-4	85	20	± 0,05	± 0,025	2000x4000x500
BP-H 3060	200	790	1-4	85	20	± 0,05	± 0,025	3000x6000x500
BP-H 3080	200	790	1-4	85	20	± 0,05	± 0,025	3000x8000x500
BP-H 4060	200	790	1-4	85	20	± 0,05	± 0,025	4000x6000x500
BP-H 4080	200	790	1-4	85	20	± 0,05	± 0,025	4000x8000x500

Waterjet/Plasma cutting machine type SM & BP

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Direct Drive 3800 waterjet pump

The use of Direct Drive waterjet pumps is recommended for use in applications where the flow rate rather than the actual pressure is most important, especially with low pressure multiple-head applications. This type of pump uses an electric motor to turn the crankshaft attached to 3 or more pistons which generate the pressure and the water flow. Cooling equipment not required. Suitable for low pressure cutting where delamination occurs. Work pressure up to 3800 bar.

SL-V Plus 4100 waterjet pump

The latest generation of SL-V Plus waterjet pumps offers the most advanced waterjet technology with working pressures up to 4100 bar, allowing cutting with the highest speeds and achieving the cleanest cuts.

Streamline PRO 6200 waterjet pump

Streamline PRO 6200 offer a new range of products, which provide a breakthrough in the world of waterjet cutting. "PRO" stands for waterjet cutting technology with working pressures up to 6500 bar. It contains all the components necessary for this, from the generation of high pressure to the nozzle, which directs the waterjet onto the selected material. The pressure of 6200 bar is an increase of almost 50% compared to conventional pressure ranges.



Direct Drive 3800



SL-V Plus 4100



Streamline PRO 6200

Type	Nominal power	Working pressure	Max. water flow	LxBxH	Weight	Max. no. nozzles (Ø mm)		
						0,25	0,30	0,35
	HP	bar	l/m	mm	kg			
DD 3800	30	op til 3500	3,1	1400x1000x1600	450	2	1	1
DD 3800	40	op til 3800	6,4	1860x1300x1700	730	3	2	2

Type	Nominal power	Working pressure	Max. water flow	Accum. capacity	Tank capacity	LxBxH	Weight	Max. no. nozzles (Ø mm)			
								0,17	0,25	0,33	0,35
	HK	bar	l/m	l	l	mm	kg				
SL-V 4100	30	500-4136	2,6	1	150	1689x1114x1477	1131	2	1	-	-
SL-V 4100	40	500-3800	2,7	1	144	1436x1167x1005	975	3	1	-	-
SL-V 4100	50	500-3800	4,3	1	150	1689x1114x1477	1302	4	2	1	1
SL-V 4100	50 P	500-4136	4,1	2	150	1689x1114x1477	1324	4	2	1	1
SL-V 4100	100	500-4136	7,6	2	211	2095x1320x1508	2128	8	4	2	2
PRO 6200	60	800-6200	2,8	1,6	211	2095x1320x1973	2130	2	1	-	-
PRO 6200	125	800-6200	6,0	1,6	416	2238x1500x1552	3107	5	2	1	1

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Optional equipment:



5-axis cutting head, 90° angle cutting, 3D, patented design, full rotation.



Automatic abrasive regulator. Stops automatically when the abrasive has been used up.



Autonomous "non-return" system, prevents water and abrasive from rising up if jammed during the cutting process.



Electronic collision system for the cutting heads, stops the machine before damages occur.



Automatic pneumatic dosing of abrasive incl. sensor. Capacity 200 L.



Equipment for pre-drilling of fragile and multi-laminated composites. Possible to mount different drill bit diameters.



Fully automatic sludge cleaning system. Collects sludge, separates water from the sludge and recirculates it back into the tank.



Water cooling system for hydraulic oil of the intensifier pumps with a closed water circuit.



2000 kg hopper for machines with high production output.



Water treatment equipment. Conditions the water before entering the intensifier.



Height regulation system ensures constant distance between the nozzle and the cutting material, enabling cutting in uneven surfaces.



Laser pointer



Jet Control - eliminates conicity on parts by means of tangential cutting function programmed in the CNC system to transform it to 5 axes.