Plasma Cutting, Punching and Forming

-TATION 0 CO-S

The Boschert Combicut unites the strength of all processes in one machine. Forming, offsetting, producing tongues, beads and even threads are the special domain of punching. Producing complex inside and outside contours quickly at high quality is possible now also with Plasma.

Productivity, Quality, Flexibility: decisive in the competition

nology. cation, all based on the well-accepted FineFocus techdimension of productivity, quality and variety of applithe year 2000, the world of plasma cutting saw a new With the introduction of the HiFocus technology in

is known world-wide. based on the technology of the HiFocus system, which +/- 0.2 mm. In addition, repeatability is 0.03 mm and is ness of the cut edge and a positioning tolerance of cut angle and straightness of cut, as well as smoothacterized by dross free cuts, the fine tolerance of the The exceptional quality of the cutting surfaces is char-



Soft-Switch Inverter Technology

cutting torch. Furthermore the productivity is influenced significantly by the configuration of the power source. the coordination between power source and plasma availability of the cutting system depend extensively on Technological flexibility, achievable cutting quality and

possibilities for realising those demands. For this reason the inverter power source HiFocus 160i was developed, having the favourable working range of 4 to 160 A. Primary-switched electronic power sources offer optimal

Further advantages are:

- Optimized cutting process by fast control of the cutting process sequence to the cutting job Superior cutting quality due to flexible adaption of the
- reduced run-in path, corner signal, etc. current, high dynamic response at small contours and
- Longetivity of consumables by controlled current rampup and ramp-down during the start and stop sequence
- Rapid operation start because of extremely fast and at piercing as well
- Small components, therefore low weight transition from pilot arc to main arc
- Improved energy balance due to minimized switching
- Independent of mains losses
- All cutting parameters interface; serial data fluctuations transfer to PC for controllable by serial

diagnostic purposes

titi k

BOSCHERT



More elements of Combicut

Combination of Technologies

nes. Because of the advances in the fine plasma tive alternative to combination punch/laser machiof Kjellberg, Boschert has developed a cost-effeceven thin gauge sheet metal with very high quality technology in recent years, it is now possible to cu In a joint effort with the fine plasma technology firm

Intelligent Flexibility



with 8, 6 or 4 tools max. ø 16, 20 and 25 mm. Heavy duty Revotool for max. 6 mm mild steel Revotool



vibration-free operation of the plasma head. The separate frame allows independent and Separate machine frame

TRI





Ecco Line



An additional advantage of the Boschert Combicut



tools and the marking option.

Marking Tool

is that our EccoLine, TWIN and TRI machines can

Boschert can meet all customer requirements. all be equipped with plasma. With this versatility









extrusions).

Forming Tool

Forming of all types (e.g. louvering, knock-outs,

Technical Data

Electrical values	Combicut 1500x3000 Weight	Combicut 1250x2500 Weight	Combicut 1000x2000 Weight	Combicut 750x1500 Weight	Space requirement and weights ¹	For plasma and punching parts	Programmable chutes	Positioning accuracy Repeatability	Punching accuracy	Revotool Tool changing time	Max. punching diameter	Tools Trumpf Tools	Max. stroke rate punching Max. stroke rate punching	Max. positioning speed X- axis Max. positioning speed	Speeds	Plasma power Max. sheet thickness Max. steet length Max. plast-cutting force Max. punching force Max. workpiece weight	Performance	Combicut 1500x3000	Combicut 1250x2500	Combicut 1000x2000	Combicut 750x1500	Working Range
60 KVA	9000 x 6500 x 2110 mm 17400 kg	8000 x 6000 x 2110 mm 16300 kg	7000 x 5400 x 2110 mm 14500 kg	6000 x 4800 x 2110 mm 13500 kg		500 x 500 mm max.		+ 0,10 mm + 0,03 mm		4 / 6 / 7 / 8 stations 1 sec. Revotool, 15 sec. manual	105 mm or any shape within 105 mm		50 m/min 85 m/min 400 1/min 800 1/min	60 m/min		160 A 12 mm damp-opening 9999 mm by repositioning 35 mm 260 kN (Option 400 kN) 200 kg		3080 x 1560 mm	2580 x 1310 mm	2080 x 1060 mm	1580 x 810 mm	

BOSCHERT







More elements of Combicut

a Automatic removal of small parts

A programmable trapdoor under the plasma head automatically removes finished parts up to 500 mm x 500 mm (20" x 20").

b Process stability and reliability

Even under unfavourable conditions a steady cutting process is ensured. Foll-coated or solied material sufaces, conclusions in the metal, air gaps as well as mild steel with enhanced content of silicon or sulphur do not influence the cutting operation.

c Quick-change torch

As one of the latest developments a quick-change torch with bayonet joint is at disposal. The easy use leads to the reduction of idle times by:

fast technology conversion for changing cutting jobs
quick adaption to different material thicknesses
fast replacement of consumables with prepared torch head

d Tapping

Tapping and drilling available as option.

e Vacuum extraction

Effective vacuum extraction and the efficient filter system mean that cutting residue is always safely removed.



79523 Lörrach, P.O. Box 7042 Germany Phone .49 7621 9593-0 Fax .49 7621 55184 www.boschert.de infoak@boschert.de

 \square

MM HOSS ATE

BOSCHERT simply better!



















COMBICUT

Marking **Plasma Cutting**





BOSCHERT