***No. 1 PLASMA POWER SUPPLY HYPERTHERM***

Model *PWM 125*



Professional-grade plasma metal cutting and gouging system for handheld cutting 38 mm and mechanized piercing 25 mm.

***Maximum productivity***

* Finish jobs faster with cut speeds 5 times greater than oxyfuel on 12 mm mild steel.
* Spend less time on grinding and edge preparation due to superior cut and gouge quality.
* Maximize your cutting time with 100% duty cycle.

***Low operating costs***

* Reduce costs with consumable life up to four times longer than other systems in this amperage range.
* Electrode end-of-life detection protects the torch and work piece from damage by automatically stopping power when the electrode is overused.

***Easy to use for cutting and gouging***

* No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
* Tackle different jobs with multiple, easy-to-use torch styles.

***Built and tested to withstand the hardest conditions***

* Duramax™ Hyamp torches are designed for high-impact and heat resistance.
* SpringStart™ technology ensures consistent starting and a more reliable torch.
* Low maintenance for maximum uptime.

***Specifications***

|  |  |
| --- | --- |
| Input voltage | 400 V, 3-PH, 50/60 Hz |
| Input current @ 21,9 kW | 400 V, 3-PH, 36 A |
| Output current | 30–125 A |
| Rated output voltage | 175 VDC |
| Duty cycle @ 40° C | 100% @ 125 A, 400 V, 3-PH |
| Open circuit voltage | 305 VDC |
| Dimensions with handles | 592 mm D; 274 mm W; 508 mm H |
| Weight w/7,6 m torch | 48,9 kg |
| Gas supply | Clean, dry, oil-free air or nitrogen |
| Recommended gas inlet flow rate / pressure | Cutting: 260 l/min @ 5,9 bar  Gouging: 212 l/min @ 4,1 bar |
| Input power cable length | 3 m |
| Power supply type | Inverter - IGBT |
| Engine drive requirement | 40 kW for full 125 A output |
| Certifications | CE, C-Tick, CU/GOST, Ukr, and Serbian — for use in Europe, Australia, Belarus, Kazakhstan, Russia, Serbia, Ukraine, and other countries where accepted. |

***Cutting data***

|  |  |  |
| --- | --- | --- |
| **Capacity** | **Thickness** | **Cut speed** |
|  | *Cutting* |  |
|  |  |  |
| Recommended | 38 mm | 457 mm /min |
|  | 44 mm | 250 mm / min |
|  |  |  |
| Severage  (hand cutting) | 57 mm | 125 mm/min |
|  |  |  |
| Pierce\* | 25 mm |  |

\* Pierce rating for handles use or with automatic torch height control

***Relative cut performance on mild steel***