



**Cut with confidence\***

Hypertherm, Inc.  
P.O. Box 5010  
Hanover, NH  
03755 USA

**IP CODE DECLARATION PER IEC 60529:1989 + am1:2001  
DEGREES OF PROTECTION PROVIDED BY ENCLOSURES**

The undersigned official of the company hereby declares, on behalf of Hypertherm, that <Plasma Cutting System> Model <Powermax45> was designed, evaluated and tested to be compliant with International Protection Rating <IP23CS>.Hypertherm Products, also have the IP Rating printed on the data plate.

**John M. Freudenberg**  
Hypertherm Inc.  
Team Leader, Regulatory Engineering

**IEC 60529:1989 + am1:2001 Annex A - Explanation of IP Ratings**

A brief description of the IP Code elements is given in the following chart. Full details are specified in the clauses indicated in the last column.

Element	Numerals or letters	Meaning for the protection of equipment	Meaning for the protection of persons	Ref.
Code letters	IP	-	-	-
First characteristic numeral	0 1 2 3 4 5 6	Against ingress of solid foreign objects  (non-protected) ≥ 50 mm diameter ≥ 12,5 mm diameter ≥ 2,5 mm diameter ≥ 1,0 mm diameter dust-protected dust-tight	Against access to hazardous parts with (non-protected) back of hand finger tool wire wire	Cl. 5
Second characteristic numeral	0 1 2 3 4 5 6 7 8	Against ingress of water with harmful effects (non-protected) vertically dripping dripping (15° tilted) spraying splashing jetting powerful jetting temporary immersion continuous immersion	-	Cl. 6
Additional letter (optional)	A B C D	-	Against access to hazardous parts with: back of hand finger tool wire	Cl. 7
Supplementary letter (optional)	H M S W	Supplementary information specific to: High voltage apparatus Motion during water test Stationary during water test Weather conditions	-	Cl. 8