



Cut with confidence®

Hypertherm, Inc.  
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**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 <HPR400XD> was designed, evaluated and tested to be compliant with International Protection Rating <IP21S>.Hypertherm Products, also have the IP Rating printed on the data plate.

*John M. Freudenberg*

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