

Public MyHRD API (former MyHRD webservice)

Introduction

The new API service consists of two parts (endpoints).

The first endpoint (Report data endpoint) retrieves the result of a single report.

The second endpoint (Report validity endpoint) retrieves the the validity date of multiple reports.

If the validity date of a report does not change, the known results remain valid. It is therefore not necessary to retrieve the report data for this report.

If the validity date changes, it is best to retrieve the new results (via the report data endpoint) of the reports.

There are limits on the number of requests you can make per day, when these limits are breached, the API will return a "429 Too many requests" error:

- For the report data endpoint, these are 1000 requests per day. This way you can request the results of 1000 reports.
- For the report validity endpoint there are 200 requests per day, with a maximum of 1000 report numbers per request. This way you can check the validity date of 200 000 reports per day.
- Additionally, rate limits apply at different intervals for both endpoints:
 - 5 requests per second
 - 100 requests per 15 minutes
 - 1000 requests per 12 hours

This manual will guide you while integrating our MyHRD API into your application.

The MyHRD API returns

- XML string output containing:
 - All diamond Grading Report data or jewel report data depending on the type of report
 - URL to download the PDF of the Grading Report (if applicable)
 - Data of multiple report types for one single report number
- Diamond report results from January 1, 2009 on (cutgrade only)
- Jewel report results for of all reports issued
- PDF download for all type of reports issued from September 22, 2014 on
- Report validity overview

Getting started

Gain access

1. Go to [MyHrd - API Request](#) or go to [MyHrd](#) and click on the “API Access” link in the footer of the page.
2. Fill in the form and request access.
3. We will verify your request (This can take a maximum of 1 to 3 working days)
4. After we have verified your request, a personal token will be sent to the email address you provided.
Please save this token. Without it, you can't access the API.

Authenticate your requests

The header of all API requests should contain the variable “API-Token” with your personal token as its value.

Header Key	Header Token
API-Token	00000000-0000-0000-0000-000000000000

Endpoints

1. Report data endpoints

Description

Returns report data for diamond reports or jewel reports.

Limitations

1. This API endpoint can only be accessed 1000 times per day per token. (only successful requests count)
2. Additionally, rate limits apply at different intervals for both endpoints:
 - 5 requests per second
 - 100 requests per 15 minutes

- o 1000 requests per 12 hours

Format

HTTP GET - /api/public/GetReport/:reportNumber

`https://my.hrdantwerp.com/api/public/GetReport/:reportNumber`

Replace the `:reportNumber` with the report number of the requested report

OR

HTTP GET - /api/public/GetReportByReferenceNumber/:referenceNumber

`https://my.hrdantwerp.com/api/public/GetReportByReferenceNumber/:referenceNumber`

Replace the `:referenceNumber` with the reference number of the requested report

Examples

Request Type

GET

Request Format

Diamond	Jewel
<code>api/public/getreport/220000000003</code>	<code>api/public/getreport/j210000000000</code>
<code>api/public/getreportbyreferencenumber/220000000003</code>	<code>api/public/getreportbyreferencenumber/j210000000000</code>

Request Headers

Key	Value
<code>API-Token</code>	<code>00000000-0000-0000-0000-000000000000</code>

Response Diamond

```
<Report>
  <Info>This is the XML output of diamond with nr 220000000003 certified by
HRDAntwerp N.V.</Info>
  <ReportNumber>220000000003</ReportNumber>
  <AvailableReports>
    <DGR>
      <ReportType>Natural Diamond Grading Report</ReportType>
      <DateOfIssue>2022-01-06</DateOfIssue>
    <Ur1PDF>https://my.hrdantwerp.com/report/Download/dgr/220000000003</Ur1PDF>
    </DGR>
  </AvailableReports>
  <Results>
    <Shape>
      <ShapeCode>brilliant</ShapeCode>
      <ShapeIndex />
    </Shape>
  </Results>
</Report>
```

```
</Shape>
<Carat>0.01</Carat>
<ColourGrade>
  <ColourCode>D</ColourCode>
  <ColourDescription>exceptional white + (D)</ColourDescription>
  <ColourIndex />
</ColourGrade>
<ClarityGrade>
  <ClarityCode>lc</ClarityCode>
  <ClarityDescription>LC</ClarityDescription>
  <ClarityIndex />
</ClarityGrade>
<Cut>
  <Proportions>
    <ProportionsCode>EXC</ProportionsCode>
    <ProportionsDescription>excellent</ProportionsDescription>
    <ProportionsIndex />
  </Proportions>
  <Polish>
    <PolishCode>EXC</PolishCode>
    <PolishDescription>excellent</PolishDescription>
  </Polish>
  <Symmetry>
    <SymmetryCode>EXC</SymmetryCode>
    <SymmetryDescription>excellent</SymmetryDescription>
  </Symmetry>
</Cut>
</Results>
<AdditionalInformation>
  <Fluorescence>
    <FluorescenceCode>nil</FluorescenceCode>
    <FluorescenceDescription>nil</FluorescenceDescription>
    <FluorescenceIndex />
  </Fluorescence>
  <Measurements>9.32 - 9.37 mm x 5.74 mm</Measurements>
  <Girdle>
    <GirdleEval>medium</GirdleEval>
    <GirdleNature>FD</GirdleNature>
    <GirdleAvg>3.5</GirdleAvg>
    <GirdleDescription>medium 3.5 % faceted</GirdleDescription>
  </Girdle>
  <Culet>
    <CuletEval></CuletEval>
    <CuletCode>ptd</CuletCode>
    <CuletPercent>0.0</CuletPercent>
    <CuletDescription>pointed</CuletDescription>
  </Culet>
  <TotalDepth>
    <TotalDepthPercent>61.4</TotalDepthPercent>
    <TotalDepthDescription>61.4 %</TotalDepthDescription>
  </TotalDepth>
  <Tablewidth>
    <TablewidthPercent>58</TablewidthPercent>
    <TablewidthDescription>58 %</TablewidthDescription>
  </Tablewidth>
  <CrownHeight>
```

```

    <CrownHeightPercent>15.0</CrownHeightPercent>
    <CrownAngle>35.6</CrownAngle>
    <CrownHeightDescription>15.0 % (35.6 deg)</CrownHeightDescription>
  </CrownHeight>
  <PavilionDepth>
    <PavilionDepthPercent>43.0</PavilionDepthPercent>
    <PavilionAngle>40.6</PavilionAngle>
    <PavilionDepthDescription>43.0 % (40.6 deg)
  </PavilionDepthDescription>
</PavilionDepth>
  <LengthHalvesCrown>
    <LengthHalvesCrownPercent>50.0</LengthHalvesCrownPercent>
    <LengthHalvesCrownDescription>50.0 %</LengthHalvesCrownDescription>
  </LengthHalvesCrown>
  <Sumab>
    <SumabAngle>76.2</SumabAngle>
    <SumabDescription>76.2 deg</SumabDescription>
  </Sumab>
  <HeartsAndArrows />
  <Lab>HRD - Antwerp, Belgium</Lab>
  <Origin>Natural</Origin>
</AdditionalInformation>
  <Remarks />
  <Inscriptions />
</Report>

```

Response Jewel

```

<Report>
  <Info>This is the XML output of jewel with nr J220000000005 certified by
  HRD Antwerp N.V.</Info>
  <ReportNumber>J220000000005</ReportNumber>
  <Description>
    <Title>Description</Title>
    <Value></Value>
  </Description>
  <AdditionalInfo>
    <Title>Additional information</Title>
    <Value></Value>
  </AdditionalInfo>
  <Remarks>
    <Title>Remarks</Title>
    <Value></Value>
  </Remarks>
  <WeightDiamonds>
    <Title>weight Diamonds</Title>
    <Value>1.00 ct</Value>
  </WeightDiamonds>
  <JewelType>
    <Title>Jewellery Type</Title>
    <Value>amulet</Value>
  </JewelType>
  <PreciousMetal>
    <Title>Precious Metal</Title>
    <Value>alloy</Value>

```

```

</PreciousMetal>
<AmountDiamonds>
  <Title>Amount Diamonds</Title>
  <Value>1</Value>
</AmountDiamonds>
<Detail>
  <item0>
    <Quantity>1</Quantity>
    <Shape>antwerp twins (radiant)</Shape>
    <ColourGrade>EW+ (D)</ColourGrade>
    <ClarityGrade></ClarityGrade>
    <Symmetry>-</Symmetry>
    <Setting>bar</Setting>
    <CaratData>
      <Minimum></Minimum>
      <Maximum>1.00</Maximum>
      <Total>1.00</Total>
    </CaratData>
    <MeasurementsData>
      <MinLength></MinLength>
      <MaxLength>1.00</MaxLength>
      <Minwidth></Minwidth>
      <Maxwidth>1.00</Maxwidth>
    </MeasurementsData>
    <Title>1</Title>
    <Carat>approx. 1.00 ct </Carat>
    <Measurements>approx. 1.00 x 1.00 mm</Measurements>
  </item0>
</Detail>
<JewelReportTypes>
  <JR>
    <Title>Jewellery Report</Title>
    <Pdf>1</Pdf>

    <PdfUrl>https://my.hrdantwerp.com/report/Download/dgr/J220000000005</PdfUrl>
  </JR>
</JewelReportTypes>
  <IssueDate>2022-01-06</IssueDate>
</Report>

```

Response Types

200 - Successful (Diamond)

Element	Format	Content	Example values
<Report>			
<Info>	Text	Description of result	This is the XML output of diamond with nr 1499945001 certified by HRDantwerp N.V.
<ReportNumber>	Text	Number of report	14999434002
<AvailableReports>			

Element	Format	Content	Example values
<C>	Text	Report type code	C (diamond certificate) CF (diamond colour certificate) MC (diamond identification report)
<ReportType>	Text	Report type title	Natural Diamond Grading Report Laboratory Grown Diamond Grading Report
<DateofIssue>	Date	Date of issue of report (yyyy-mm-dd)	21/11/2014
<Ur1PDF>	Url	URL to download pdf of report	https://my.hrdantwerp.com/report/download/dgr/210000037491
</C>			
</Avai1ableReports>			
<Result>			
<Shape>			
<ShapeCode>	Text	Shape code	Brilliant, pear, heart, ...
<ShapeIndex>	Integer	Index in case of remarks for shape	1
<Carat>	Decimal	Weight in carat	1.01
</Shape>			
<ColourGrade>			
<ColourCode>	Text	Colour code	F
<ColourDescription>	Text	Description of the colour	in case of regular colour: rare white +(F) in case of fancy colour: fancy intense greyish green, natural colour
<ColourIndex>	Integer	Index in case of remarks for colour	1
</ColourGrade>			

Element	Format	Content	Example values
<ClarityGrade>			
<ClarityCode>	Text	Clarity code	vs2
<ClarityDescription>	Text	Description of the clarity	VS2
<ClarityIndex>	Integer	Index in case of remarks for clarity	1
</ClarityGrade>			
<Cut>			
<Proportions>			

Element	Format	Content	Example values
<ProportionsCode>	Text	Proportions code	EXC VG G F
<ProportionsDescription>	Text	Description of the proportions	Excellent Very Good Good Fair
<ProportionsIndex>	Integer	Index in case of remarks for proportions	1
</Proportions>			
<Polish>			
<PolishCode>	Text	Polish code	EXC VG G F
<PolishDescription>	Text	Description of the polish	Excellent Very Good Good Fair
<PolishIndex>	Integer	Index in case of remarks for polish	1
</Polish>			
<Symmetry>			
<SymmetryCode>	Text	Symmetry code	EXC VG G F
<SymmetryDescription>	Text	Description of the symmetry	Excellent Very Good Good Fair
<SymmetryIndex>	Integer	Index in case of remarks for symmetry	1
</Symmetry>			
</Cut>			
</Results>			
<AdditionalInformation>			
<Fluorescence>			
<FluorescenceCode>	Text	Fluorescence code	nil slight medium strong very strong none
<FluorescenceDescription>	Text	Description of the fluorescence	In case of natural diamond: nil slight medium strong very strong none

Element	Format	Content	Example values
<FluorescenceIndex>	Integer	Index in case of remarks for fluorescence	1
</Fluorescence>			
<Luminescence>		In case of natural diamond colour report. Replaces fluorescence	
<Lw>	Text	Long wave code	nil slight medium strong very strong none
<LwIndex>	Integer	Index in case of remarks for longwave luminescence	1
<Sw>	Text	Short wave code	nil slight medium strong very strong none
<SwIndex>	Integer	Index in case of remarks for shortwave luminescence	1
</Luminescence>			
<Measurements>	Text	Measurements	6.21 - 6.24 mm x 4.13 mm
<Girdle>			
<GirdleEval>	Text	Culet evaluation code	extremely thin very thin thin medium thick very thick extremely thick
<GirdleNature>	Text	Culet nature code	FD (for faceted) POL (for polished) N (for natural)
<GirdleAvg>	Decimal	Culet percentage	6.0
<GirdleDescription>	Text	Culet description	thick 6.0 % faceted

Element	Format	Content	Example values
</Girdle>			
<Culet>			
<CuletEval>	Text	Culet evaluation code	large
<CuletNature>	Text	Culet nature code	Ptd (for pointed) pol (for polished) nat (for natural) lin (for linear)
<CuletPercent>	Decimal		4.0
<CuletDescription>	Text		large 4.0% polished
</Culet>			
<TotalDepth>			
<TotalDepthPercent>	Decimal	Total depth percentage	66.3
<TotalDepthDescription>	Text	Total depth description	66.3 %
</TotalDepth>			
<Tablewidth>			
<TablewidthPercent>	Decimal	Table width percentage	58
<TablewidthDescription>	Text	Table width description	58%
</Tablewidth>			
<CrownHeight>			
<CrownHeightPercent>	Decimal	Crown height percentage	17.0
<CrownHeightAngle>	Decimal	Crown angle (beta)	38.4
<CrownHeightDescription>	Text	Crown height description	17.0 % (38.4 deg)
</CrownHeight>			
<PavilionDepth>			

Element	Format	Content	Example values
<PavilionDepthPercent>	Decimal	Pavilion depth percentage	43.5
<PavilionDepthAngle>	Decimal	Pavilion angle (alfa)	41.1
<PavilionDepthDescription>	Text	Pavilion description	43.5 % (41.1 deg)
</PavilionDepth>			
<LengthHalvesCrown>			
<LengthHalvesCrownPercent>	Decimal	Length of halves on crown side percentage	50
<LengthHalvesCrownDescription>	Text	Description for length of halves on crown side	50%
</LengthHalvesCrown>			
<LengthHalvesPavilion>			
<LengthHalvesPavilionPercent>	Decimal	Length of halves on pavilion side percentage	75
<LengthHalvesPavilionDescription>	Text	Description for length of halves on pavilion side	75%
</LengthHalvesPavilion>			
<Sumbab>			
<SumbabAngle>	Decimal	Sum of crown and pavilion angle (beta+alfa)	79.5
<SumbabDescription>	Text	Description for the sum of crown and pavilion angles (beta+alfa)	79.5 deg
</Sumbab>			
<HeartsAndArrows>	Text	Hearts and arrows if present	H&A
<Lab>	Text	Lab of issue	HRDAntwerp
<Origin>	Text	Origin of the diamond	Natural

Element	Format	Content	Example values
</AdditionalInformation>			
<Remarks>			
<Remark>	Text	Remark with index. Multiple elements if more than one remark	(1) laser drilled
</Remarks>			
<Inscriptions>			
<Inscription>	Text	Laser inscription(s) on diamond. Multiple elements if more than one inscription is present	Inscription on pavilion: I LOVE YOU
</Inscriptions>			
</Report>			

200 - Successful (Jewel)

Element	Format	Content	Example values
<Report>			
<Info>	Text	Description of result	This is the XML output of jewel with nr J1499945001 certified by HRDAntwerp N.V.
<ReportNumber>	Text	Number of report	J14999434001

Element	Format	Content	Example values
<Description>			
<Title>	Text	Title 'Description'	Description

Element	Format	Content	Example values
<Value>	Text	Jewel description	One 18k white gold ring, stamped '750', weighing in total 7.36g, containing 33 diamonds with an estimated weight of 3.23ct
</Description>			
<AdditionalInfo>			
<Title>	Text	Title 'Additional Information'	Additional Information
<Value>	Text	Additional information	GEB8219072
</AdditionalInfo>			
<Remarks>			
<Title>	Text	Title 'Remarks'	Remarks
<Value>	Text	Remarks	2 additional pearls mounted in jewellery
</Remarks>			
<WeightDiamonds>			
<Title>	Text	Title 'Weight Diamonds'	Weight Diamonds
<Value>	Decimal	Weight of the diamonds	3.23
</WeightDiamonds>			
<JewelType>			
<Title>	Text	Title 'Jewellery Type'	Jewellery Type
<Value>	Text	Jewellery description	Ring
<JewelType>			
<PreciousMetal>			
<Title>	Text	Title 'Precious Metal'	Precious Metal
<Value>	Text	Precious Metal Description	White Gold
</PreciousMetal>			
<AmountDiamonds>			

Element	Format	Content	Example values
<Title>	Text	Title 'Amount Diamonds'	Amount Diamonds
<Value>	Integer	Total amount of diamonds	33
</AmountDiamonds>			
<Details>			
<Item#>	</Item#>	Item per set of diamonds. Not available when report is of Mini jewel authenticity report type	<Item0> or <Item1> or <Item2> depending on the amount of diamond groups. 3 diamond groups is maximum.
<Quantity>	Integer	Diamond quantity in this set	1
<Shape>	Text	Shape description	brilliant
<ColourGrade>	Text	Colour grade description	W(H) - STW+(I)
<ClarityGrade>	Text	Clarity grade description	VVS
<Symmetry>	Text	Symmetry description	excellent - very good
<Setting>	Text	Setting description	pavé
<CaratData>			
<Minimum>	Decimal	Minimum weight	0.03
<Maximum>	Decimal	Maximum weight	0.04
<Total>	Decimal	Total weight	0.66
</CaratData>			
<MeasurementsData>			
<MinLength>	Decimal	Minimum length	2.1
<MaxLength>	Decimal	Maximum length	2.2
<Minwidth>	Decimal	Minimum width	1.2
<Maxwidth>	Decimal	Maximum width	1.3
</MeasurementsData>			
<Title>	Text	Title of diamond group	32 diamonds

Element	Format	Content	Example values
<Carat>	Text	Carat description	approx 0.01 to 0.02 ct total approx. 0.22 ct
<Measurements>	Text	Measurements description	each approx. 0.95 mm
</Item#>			
<Settings>	Text	Setting description. Only used in case of Jewel Authenticity report	bezel
<Shapes>	Text	Shapes description. Only used in case of Jewel Authenticity report	brilliant
</Details>			
<JewelReportTypes>			
<{Type}>	Jewel report code		JCRT, JMIN, AJRM
<Title>	Text	Title of report	Jewellery Card, Authenticity Jewellery Report
<Pdf>	Boolean	Boolean for existence of PDF	1 or 0
<Pdfurl>	Text	URL for retrieval of pdf	
</{Type}>			
</JewelReportTypes>			
<IssueDate>	Date	Date of issue of report (yyyy-mm-dd)	03/09/2014
<Lab>	Text	Lab of issue	HRDAntwerp
</Report>			

400 - Bad Request

Make sure you provide a valid API-Token value in the header of the request.

You've reached the rate limit.

2. Report validity endpoint

Description

Returns the validity of a list of report numbers (Diamonds and jewels). Use this endpoint to check if the values of a report

have changed. If the `validFrom` value has changed, it would be advisable to request the report data again for this particular report (see `reportdata` endpoint).

If a reportnumber is incorrect or its report is no longer valid, it will not be returned as an element.

Limitations

1. This API endpoint can only be accessed between 19u00 - 04u00 UTC
2. This API endpoint can only be accessed 200 times per day per token. (only successful requests count)
3. There is a limit of 1000 reportnumbers that can be checked for their validity per call.
4. Additionally, rate limits apply at different intervals for both endpoints:
 - 5 requests per second
 - 100 requests per 15 minutes
 - 1000 requests per 12 hours

Format

HTTP POST - `/api/public/GetReportValidities`

`https://my.hrdantwerp.com/api/public/GetReportValidities`

In the body of the request put a list (JSON formatting) of reportnumbers to get their validity.

Example

Request Type

POST

Request Format

GetReportValidities

`https://my.hrdantwerp.com/api/public/GetReportValidities`

Request Headers

Key	Value
Content-Type	application/json
API-Token	00000000-0000-0000-0000-000000000000

Request Body (Raw JSON)

```
[  
  "J210000000005",  
  "J210000000008",  
  ...  
]
```

Response

```
<ValidReports>  
  <Report_J210000000005>  
    <ReportNumber>J210000000005</ReportNumber>  
    <ValidFrom>2021-05-27</ValidFrom>  
    <ValidUntil>2031-05-27</ValidUntil>  
  </Report_J210000000005>  
  <Report_J210000000008>  
    <ReportNumber>J210000000008</ReportNumber>  
    <ValidFrom>2021-08-12</ValidFrom>  
    <ValidUntil>2031-08-12</ValidUntil>  
  </Report_J210000000008>  
</ValidReports>
```

Response Types

200 - Successful

Element	Format	Content	Example values
<code><ValidReports></code>		Parent element	
<code><Report_{000000000000}></code>		Parent report element	<code><Report_J210000000005></code>
<code><ReportNumber></code>	Text	Number of the HRD report	J210000000005
<code><ValidFrom></code>	Date	Date of issue of report(yyyy-mm-dd)	2021-05-27
<code><ValidUntil></code>	Date	Valid until date of report (yyyy-mm-dd)	2031-05-27
<code></Report_{000000000000}></code>			
<code></ValidReports></code>			

400 - Bad Request

- Make sure you provide a valid API-Token value in the header of the request.
- Make sure the data in the request body complies with the regulations.

401 - Unauthorized

- Make sure you are addressing the endpoint within the correct timeframe.

429 - Too Many Requests

- You've reached the rate limit.

FAQ

- I have lost/ forgotten my token
Please send an email requesting a new token to diamondlab@hrdantwerp.com. Use the email address you registered your token with. Provide your name and company as additional information.
- I don't get any data back from the API *or* I get an error message back from the API
 1. Please check the error message you receive when trying to request data from the API. This might give an indication of the problem you encounter or help you fix it.
 2. Please make sure you use the correct url with the required parameters as explained in this document.
 3. Make sure to include your personal API-token in the header of the API request.
 4. Make sure you have received access to the specific endpoint you are trying to reach.
 5. Check the limitations of the endpoint. Some endpoints can only be accessed between specific timeframes.

If you have any further questions about this manual please contact our helpdesk:

Email	Phone
diamondlab@hrdantwerp.com	+32 3 222 06 82