

# Calculate Rates API Documentation

HK Logistics Group

Calculate shipping rates effortlessly with the HK Logistics Group API. For more

information, visit <https://www.hklogisticsgroup.com>  
or contact us at [support@hklogisticsgroup.com](mailto:support@hklogisticsgroup.com)

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## 1 Introduction

This endpoint calculates shipping rates based on package details and destination. It provides a list of available carriers, services, costs, and estimated delivery dates, allowing you to select the most suitable option for your shipment.

## 2 Authentication

All API requests require authentication using an API key. Include your API key in the `Authorization` header:

`Authorization: Bearer YOUR_API_KEY`

Contact our support team at [support@hklogisticsgroup.com](mailto:support@hklogisticsgroup.com) to obtain your API credentials.

## 3 Endpoint Details

- **Method:** POST
- **URL:** `https://api.hklogisticsgroup.com/v1/rates`
- **Description:** Calculates shipping rates based on package details and destination.

## 4 Request Parameters

The following parameters are required in the request body:

Parameter	Type	Required	Description
origin	string	Yes	The shipment's origin address.
destination	string	Yes	The shipment's destination address.
package_details	object	Yes	Details of the package, including weight and dimensions.
carrier	string	No	Preferred carrier for the shipment.

### 4.1 package\_details Object

- **weight:** number (required) - Weight of the package in kilograms.
- **dimensions:** object (optional) - Dimensions of the package.
  - **length:** number
  - **width:** number
  - **height:** number
- **contents:** string (optional) - Description of the package contents.

## 5 Response Format

Upon successful calculation, the API returns a JSON array of rate options:

```
[  
  {  
    "carrier": "string",
```

```
    "service": "string",
    "cost": "number",
    "estimated_delivery": "string (YYYY-MM-DD)"
  }
]
```

## 6 Status Codes

- **200 OK:** The shipping rates were successfully calculated.
- **400 Bad Request:** Invalid or missing parameters.
- **401 Unauthorized:** Invalid API key.
- **500 Internal Server Error:** An error occurred on the server.

## 7 Examples

### 7.1 Successful Request

#### Request:

```
POST /v1/rates HTTP/1.1
Host: api.hklogisticsgroup.com
Authorization: Bearer YOUR_API_KEY
Content-Type: application/json
```

```
{
  "origin": "Hong Kong",
  "destination": "Los Angeles",
  "package_details": {
    "weight": 10,
    "dimensions": {"length": 20, "width": 15, "height": 10},
    "contents": "Electronics"
  },
  "carrier": "FedEx"
}
```

#### Response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
[
  {
    "carrier": "FedEx",
    "service": "International Priority",
    "cost": 150.00,
    "estimated_delivery": "2019-05-25"
  },
  {
    "carrier": "FedEx",
    "service": "International Economy",
    "cost": 100.00,
```

```
        "estimated_delivery": "2019-05-30"
      },
      {
        "carrier": "UPS",
        "service": "Worldwide Express",
        "cost": 140.00,
        "estimated_delivery": "2019-05-26"
      }
    ]
  }
```

## 7.2 Error Response

### Request:

```
POST /v1/rates HTTP/1.1
Host: api.hklogisticsgroup.com
Authorization: Bearer YOUR_API_KEY
Content-Type: application/json
```

```
{
  "origin": "Hong Kong",
  "package_details": {
    "weight": 10
  }
}
```

### Response:

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
```

```
{
  "error": "Invalid parameters",
  "details": "Missing required field: destination"
}
```