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title: Carrier Packaging
description: Shipping with carrier packaging is convenient. ShipEngine is one of the fastest growing shipping APIs specializing in carrier packaging solutions. Not sure how? Check out ShipEngine.com to learn how to integrate packaging with your preferred carrier.

Carrier Packaging

If you use carrier packaging (for example, flat rate boxes and envelopes) to send out your shipments, you'll love ShipEngine. We've made it easy to integrate carrier packaging directly into our APIs.

Some carriers offer budget-friendly shipping rates using their packaging. In this guide, you'll learn how to add a `package_code` to replace the `shipment_package[0].dimensions`. The `package_code` is hardwired into the carrier platform to generate the best rate.

The shipment won't be required to include package dimensions.

Example
In this example, you'll send a small package with USPS Priority Mail using the medium flat rate box.

Field	Value
`service_code`	`usps_priority_mail`
`package_code`	`medium_flat_rate_box`

API Endpoint

You'll send an HTTP `POST` request to `https://api.shipengine.com/v1/labels`.

Headers

The following HTTP headers will need to be included in your request:

HTTP Header	Description
`Content-Type`	The Content-Type header specifies the media type of your API request. ShipEngine requires all requests to be in JSON format, so this header should always be set to `application/json`.
`API-Key`	For this header you'll need to pass your ShipEngine API key. This is how ShipEngine knows who you are. If you don't have an API key yet, read our Getting Started guide to learn how to create one.

Request Body
The body of your HTTP request is where you specify all of the information about the shipment. For this tutorial, you'll use the following criteria:

Field	Value
`service_code`	`usps_priority_mail`
`ship_to`	Jane Doe 525 S Winchester Blvd San Jose, CA 95128
`ship_from`	John Doe 525 4009 Marathon Blvd Austin, TX 78756 555-555-5555
`package_code`	`medium_flat_rate_box`
Weight	9.6 ounces

Request
Copy and paste the following code into curl and tap **Enter**. Remember to put your own API key in the `_YOUR_API_KEY_` placeholder on line #3. If you don't have an API key yet, read our Getting Started guide to learn how to create one.


```

```
curl -iX POST https://api.shipengine.com/v1/labels \
-H 'Content-Type: application/json' \
-H 'API-Key: _YOUR_API_KEY_' \
-d '
{
  "shipment": {
    "service_code": "usps_priority_mail",
    "ship_to": {
      "name": "Jane Doe",
      "company_name": "",
      "address_line1": "525 S Winchester Blvd",
      "city_locality": "San Jose",
      "state_province": "CA",
      "postal_code": "95128",
      "country_code": "US",
      "phone": ""
    },
    "ship_from": {
      "name": "John Doe",
      "phone": "555-555-5555",
      "company_name": "",
      "address_line1": "4009 Marathon Blvd",
      "address_line2": "",
      "city_locality": "Austin",
      "state_province": "TX",
      "postal_code": "78756",
      "country_code": "US"
    },
    "packages": [
      {
        "package_code": "medium_flat_rate_box",
        "weight": {
          "value": 9.6,
          "unit": "ounce"
        }
      }
    ]
```

```
  }
}'
```

Response
The response returns the shipment details and links to print the label.

```
HTTP/2 200
date: Tue, 17 Sep 2019 22:30:56 GMT
content-type: application/json; charset=utf-8
content-length: 1837
access-control-allow-origin: https://www.shipengine.com
vary: Origin
x-shipengine-requestid: d716ae3e-52b1-4ec7-ad76-1ebc89fa753c

{
  "label_id": "se-1378691",
  "status": "completed",
  "shipment_id": "se-4143117",
  "ship_date": "2019-09-17T00:00:00Z",
  "created_at": "2019-09-17T22:30:55.285806Z",
  "shipment_cost": {
    "currency": "usd",
    "amount": 12.8
  },
  "insurance_cost": {
    "currency": "usd",
    "amount": 0.0
  },
  "tracking_number": "9405511899223524567151",
  "is_return_label": false,
  "rma_number": null,
  "is_international": false,
  "batch_id": "",
  "carrier_id": "se-108487",
```

  "service_code": "usps_priority_mail",
  "package_code": "medium_flat_rate_box",
  "voided": false,
  "voided_at": null,
  "label_format": "pdf",
  "label_layout": "4x6",
  "trackable": true,
  "carrier_code": "stamps_com",
  "tracking_status": "in_transit",
  "label_download": {
    "pdf":
"https://api.shipengine.com/v1/downloads/10/0po4ATG1FkOBE4VTSU0tYQ/label-1378
691.pdf",
    "png":
"https://api.shipengine.com/v1/downloads/10/0po4ATG1FkOBE4VTSU0tYQ/label-1378
691.png",
    "zpl":
"https://api.shipengine.com/v1/downloads/10/0po4ATG1FkOBE4VTSU0tYQ/label-1378
691.zpl",
    "href":
"https://api.shipengine.com/v1/downloads/10/0po4ATG1FkOBE4VTSU0tYQ/label-1378
691.pdf"
  },
  "form_download": null,
  "insurance_claim": null,
  "packages": [
   {
     "package_code": "medium_flat_rate_box",
     "weight": {
       "value": 9.60,
       "unit": "ounce"
     },
     "dimensions": {
       "unit": "inch",
       "length": 0.0,
       "width": 0.0,
       "height": 0.0

```
      },
      "insured_value": {
        "currency": "usd",
        "amount": 0.00
      },
      "tracking_number": "9405511899223524567151",
      "label_messages": {
        "reference1": null,
        "reference2": null,
        "reference3": null
      },
      "external_package_id": null
    }
  ]

```

Below is the shipping label:

![carrier packaging](carrier-packaging-example.png)