



WEB API – PRODUCT SPECIFICATIONS,
INVENTORY, PRICING & PLACING ORDERS :

HOW TO USE GUIDE

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Using Dynamic Tire's Public Web API

The APIs are designed to allow customers to pull product specifications, images, inventory and pricing information from the Dynamic Tire web portal. In addition to pulling information, the API also allows customers to configure their systems to submit orders directly using the API.

The APIs are a standard restful service that returns a JSON formatted string in the output.

The following document explains each API in detail.

Authenticating yourself

Before any API can be called, the DTI API service will need to authenticate the customer making the request. This will be achieved with a combination of your customer account number and your private secret key.

Getting your secret key

To get your secret key, please contact Dynamic Tire's IT team at following email address:

Email: helpdesk@dynamictire.com

The team will enable your portal's customer account to use the WEB API service.

Once enabled, you'll be provided with the secret key that'll be needed for authenticating yourself with the portal.

Please also provide the support team with your email address – this address will receive order confirmations from orders placed via the API.

With each call you make, regardless of the API you call, you'll need to pass your account number and secret key.

Failed attempts

Please note, after 5 consecutive failed attempts, your account will be locked. The only way to enable the API for your account is to reach out to the customer service and ask them to reset your secret key.

You'll then need to use your new key when you make future requests.

API service output status codes:

This is a comprehensive list of what status codes mean across the various webAPI functions.

Output Status Codes:

Code	Description
-1	Authentication Failure
0	Internal Error
1	Success
11	Item Not Found
310	Invalid Ship-to Code
315	PO Number Missing
320	Information missing in Order Details
410	Missing Requested PickUp Date
411	Incorrect Date Format
420	Invalid Warehouse Code
600	Maximum orders limit error

API 1: Search Items API:

To get a list of all items in your catalog, you'll call the following endpoint with request data:

<https://B2B-api.dynamictire.com/api/item/searchItems/<requestData>>

Request Data Format:

```
{
  "secretKey": "<Your Key>",
  "CustomerCd": "<Your Account Number>",
  "OrderType": "<D or W>", // D – for Factory Direct Catalog and W for searching the warehouse catalog
  "SizeFilters": "<Size>",
  "BrandFilters": "<Brand Code>",
  "CategoryCodeFilters": "<Category Code>",
  "ModelFilters": "<Model Code>",
  "ShowTiresFilter": "<0 or 1 or 2>" // 0 - Show all Tires. 1 - Show Winter Tires Only. 2 – Hide Winter
}
```

Sample Output format:

```
{
  "statusCode": 1,
  "message": "Success",
  "data": [{
    "sku": "<SKU Code>",
    "description": "<Description>",
    "listPrice": <Price>,
    "size": "<Size>",
    "weight": <Weight>,
    "pr": "<PR>",
    "td": <TD>,
    "od": "<OD>",
    "sr": "<SR>",
    "sw": <SW>,
    "utog": <UTQG>,
    "li": "<li>",
    "rim": "<RIM>",
    "slr": <SLR>,
    "rpm": <RPM>,
    "singleLCC": <SINGLE LCC>,
    "dualLCC": <DUAL LCC>,
    "singleAP": <SingleAP>,
    "dualAP": <DualAP>,
    "smallImageLink": "<https link to the image>",
    "mediumImageLink": "<https link to the image>",
    "largeImageLink": "<https link to the image>",
    "warehouseOrderAllowed": <true or false>, // Defines whether this item is available for Warehouse ordering
    "directOrderAllowed": <true or false>, // Defines whether this item is available for Factory Direct ordering
    "currency": "<Currency CAD or USD>",
    "categoryCode": "<Category Code>", // use this in filter to further narrow the search
    "subCategoryCode": "<Sub-Category Code>", // use this in filter to further narrow the search
    "modelType": "<Model Code>", // use this in filter to further narrow the search
    "brand": "<Brand>", // use this in filter to further narrow the search
    "warehouses": [{"name": "<WarehouseCode>", "inv": "<Inventory>"}]
  }]
}
```

API 2: Get Price API (multiple items)

To get price of items (up to 25 items at a time), you'll need to send comma separated item codes to the Web API service along with your authentication information. See endpoint and data formats below:

Endpoint: <https://B2B-api.dynamictire.com/api/item/itemsprice/<requestData>>

Request Data format:

```
{
  "secretKey": "<your key>",
  "CustomerCd": "<your account number>",
  "itemsNum": "<Comma separated item numbers>"
}
```

Output format:

```
{
  "statusCode": <code>,
  "message": "<message>",
  "data": [
    {
      "sku": "<no>",
      "containerPrice": "<price>",
      "warehousePrice": "<price>",
      "warehouseOrderAllowed": <true/false>,
      "directOrderAllowed": <true/false>,
      "currency": "<currency code>",
      "warehouses": [
        {
          "name": "<WarehouseName>",
          "inv": "<Inventory Info>"
        },
        {
          "name": "<WarehouseName>",
          "inv": "<Inventory Info>"
        }
      ]
    },
    {
      "sku": "<no>",
      "containerPrice": "<price>",
      "warehousePrice": "<price>",
      "warehouseOrderAllowed": <true/false>,
      "directOrderAllowed": <true/false>,
      "currency": "<currency code>",
      "warehouses": [
        {
          "name": "<WarehouseName>",
          "inv": "<Inventory Info>"
        },
        {
          "name": "<WarehouseName>",
          "inv": "<Inventory Info>"
        }
      ]
    }
  ]
}
```

```

    ]
}

    ]
}

    ]
}

```

API 3: Place Warehouse order API

This API helps you submit a warehouse order. You'll need to send order information along with your account number and password. To place an order, a ship-to code and a warehouse code is necessary. You can view ship-to codes assigned to your locations in API 5 in this document. The same API also sends various warehouses you have access to – please note the warehouse code from that API 5 and then program API 3 to submit warehouse orders.

Send a POST request to url:

<https://B2B-api.dynamictire.com/api/item/placewarehouseorder/<YourKey>/<AccountNumber>>

Include data with the post request wrapping order information – format in table below.

Input parameters:

Parameter Name	Value	Description
CustomerNo	<AccountNumber>	Account number of the customer
SecretKey	<YourKey>	Secret key for authentication
WarehouseOrder	<pre> { "ShipToCode": "<code>", "PONumber": "<PONumber>", "Shipment": { "Method": "<P or D>", "RequestedDate": "2019/08/14" }, "Comments": "<Comment>", "WarehouseCode": "<Warehouse Code>", "OrderDetails": [{ "itemNumber": "<ItemCode>", "qty": "203" }, { "itemNumber": "<ItemCode>", "qty": "2" }] } </pre>	<p>If shiptocode received is invalid, system will return 310 status code.</p> <p>Valid options for Shipment Method: "P" (for pickup) or "D" (for delivery).</p> <p>If "P", user will need to provide a requested Date. If Requested Date is missing, system will return 410.</p> <p>Requested Date format will need to be yyyy/mm/dd. If date doesn't fit the format, system will return 411.</p> <p>Warehouse Code, if incorrect, status code 420 will be returned.</p> <p>If item number or quantity value is missing, system will send status code of 320.</p>

A correct submission will result in creation of an order. An order confirmation will be sent to the email configured during the web API registration setup.

Please contact the support team if you do not receive order confirmation emails after you submit your test orders.

Please view the output status codes and what they mean below.

API 4: Place Direct order API

This API helps you submit a Factory Direct order. You'll need to send order information along with your account number and password. To place an order, a ship-to code is required. You can view ship-to codes assigned to your locations in API 5 in this document.

Send a POST request to url:

<https://B2B-api.dynamictire.com/api/item/placedirectorder/<YourKey>/<AccountNumber>>

Include data with the post request wrapping order information – format in table below.

Input parameters:

Parameter Name	Value	Description
CustomerNo	<AccountNumber>	Account number of the customer
SecretKey	<YourKey>	Secret key shared by the admin for authentication
FactoryDirectOrder	<pre>{ "ShipToCode": "<code>", "PONumber": "<PONumber>", "Shipment": { "RequestedDate": "2019/08/14" }, "Comments": "<Comment>", "OrderDetails": [{ "itemNumber": "<ItemCode>", "qty": "203", "CutOrFill": "0" }, { "itemNumber": "<ItemCode>", "qty": "28", "CutOrFill": "1" }] }</pre>	<p>If shiptocode received is invalid, system will return 310 status code.</p> <p>API will automatically add Location Code 'DIRECT' since it's factory direct order.</p> <p>If Requested Date is missing, API will return status code 410.</p> <p>Requested Date format will need to be yyyy/mm/dd. If date doesn't fit the format, system will generate a status code 411.</p> <p>Cut/Fill flag will take a value of 0 or 1 to echo the same function as the UI.</p> <p>If item number, quantity value or cut/fill flag is missing, system will send status code of 320.</p>

A correct submission will result in creation of an order. An order confirmation will be sent to the email configured during the web API registration setup.

Please contact the support team if you do not receive order confirmation emails after you submit your test orders.

Please view the output status codes and what they mean below.

API 5: Get Ship-to Codes and Warehouse Location Codes:

This API will provide you with online-order-enabled Ship-to codes registered for your account as well as Warehouse codes available. These codes will be required for placing orders online using APIs 3 and 4.

In output you'll receive an array of Ship-tos and an array of available warehouses.

Endpoint: <https://B2B-api.dynamictire.com/api/item/viewingshipto/<YourKey>/<accountNumber>>

Input parameters:

Parameter Name	Value	Description
CustomerNo	<AccountNumber>	Account number of the customer
SecretKey	<YourKey>	Secret key for authentication

Output Format:

```
{
  "Status": {Code: 1, Message: "Success"},
  "ShipToDetails": [
    {
      "ShipToCode": "<ShiptoCode>",
      "Address": "<ShiptoAddress>",
      "City": "<ShiptoCity>"
    },
    {
      "ShipToCode": "<ShiptoCode>",
      "Address": "<ShiptoAddress>",
      "City": "<ShiptoCity>"
    }
  ],
  "AvailableWarehouses": [
    {
      "Code": "<WarehouseCode>",
      "Address": "<Warehouse Address>"
    },
    {
      "Code": "<WarehouseCode>",
      "Address": "<Warehouse Address>"
    }
  ]
}
```

}

API Demo page:

You can also visit the API page that allows you to enter your credentials and call the two API services. Additionally, you can have your IT team explore the page source to see the implementation of this Demo page.

Link: <https://b2b.dynamictire.com/apitest/#>