VIDIR
vertical storage solutions

Vidir Wire Carousel

Automated wire spool storage and dispensing for both large and small operations.

For more information scan the QR code

Safe Handling • Easy Access • Maximum Storage • Fast Retrieval • Small Footprint

Wire Carousel Introduction

The Vidir Wire Carousel is a semi-automated wire spool storage system that consists of specially designed wire bays that rotate up and down to deliver spools to the operator at an ergonomic height.

The Wire Carousel maximizes overhead space for storage providing readily accessible high density storage within a small footprint. The unit is well suited for applications in industrial settings with large quantities of spooled product.

The Vidir Wire Carousel features wire bays with interchangeable positions to provide complete inventory control. Additionally, various devices have been developed for accurately dispensing spooled product.

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Selling Features

- Std. carousel models accommodate spool sizes up to 30" in diameter

- Flexible carrier design provides near limitless internal configurations to meet varying SKU requirements

- Can store up to 36 x 30" spools in 60 ft^2 and larger quantities of smaller diameter spools

- Increases safety by implementing ergonomic storage and retrieval principles

- Fully maximizes overhead space for storage to recover valuable floor space

- Implements product to person principle to increase efficiency

- Organizes inventory by centralizing it in one location

- Receive access to manufacturer's service center with over 30 years of industry experience

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Basic Carousel Package

- Semi-Automated Controls w/ Keypad
- Electrical: feeds from top right of carousel
    - 208/230V, 15 Amp, 60 Hz, 3 Phase
    - 460/480V, 10 Amp, 60 Hz, 3 Phase
- 21' per minute retrieval speed
- Load per unit 13,000 lbs.
- Load per Carrier 1,000 lbs.
- Maximum Unit Imbalance 1,950 lbs.
- 15 – 39 customizable wire bays
- 2" mesh guarding front and back
- cCSAus mark
- Color: White with Grey Interior
- 1 Year Manufacturers Warranty
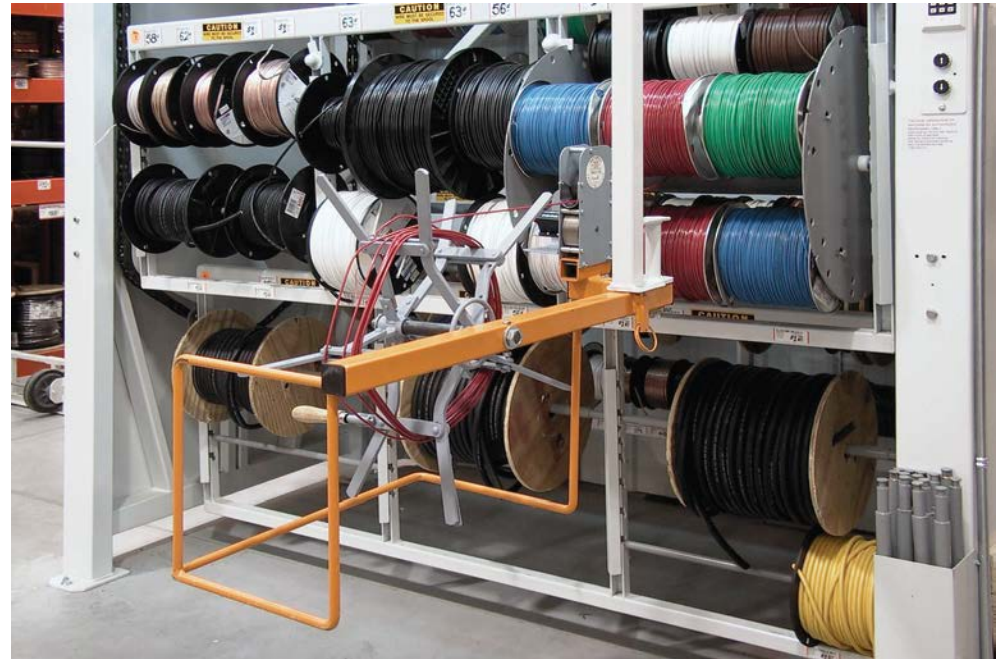
"Vertical Storage allows you to utilize your wasted overhead space."

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W39 Carousel Specifications

* Wire Bay Dimensions = 26.25" wide x 26.5" high

| Model	Height	Width	Depth	Carriers	Max D.	Wire Bays	¾" Rods	1" Rods	S. Capacity	Live Load
W39089-0534-06	7' 11"	8' 9"	6' 3"	05	24"	15	10	17	103.125ft³	12,562 lbs.
W39106-0634-06	9' 4"	8' 9"	6' 3"	06	24"	18	12	20	123.75ft³	12,476 lbs.
W39123-0734-06	10' 9"	8' 9"	6' 3"	07	24"	21	14	24	144.375ft³	12,385 lbs.
W39140-0834-06	12' 2"	8' 9"	6' 3"	08	24"	24	16	27	165ft³	12,300 lbs.
W39157-0934-06	13' 7"	8' 9"	6' 3"	09	24"	27	18	31	185.625ft³	12,209 lbs.
W39174-1034-06	15' 0"	8' 9"	6' 3"	10	24"	30	20	34	206.25ft³	12,123 lbs.
W39191-1134-06	16' 5"	8' 9"	6' 3"	11	24"	33	22	37	226.875ft³	12,038 lbs.
W39208-1234-06	17' 10"	8' 9"	6' 3"	12	24"	36	24	41	247.5ft³	11,947 lbs.
W39225-1334-06	19' 3"	8' 9"	6' 3"	13	24"	39	26	44	268.125ft³	11,861 lbs.

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W45 Carousel Specifications

* Wire Bay Dimensions = 26.25" wide x 32.5" high

Model	Height	Width	Depth	Carriers	Max D.	Wire Bays	¾" Rods	1" Rods	S. Capacity	Live Load
W45103-0540-06	9' 4"	8' 9"	7' 3"	05	30"	15	10	17	161.133ft^3	12,512 lbs.
W45123-0640-06	11' 1"	8' 9"	7' 3"	06	30"	18	12	20	193.36ft^3	12,416 lbs.
W45143-0740-06	12' 6"	8' 9"	7' 3"	07	30"	21	14	24	225.586ft^3	12,315 lbs.
W45163-0840-06	14' 5"	8' 9"	7' 3"	08	30"	24	16	27	257.813ft^3	12,220 lbs.
W45183-0940-06	16' 1"	8' 9"	7' 3"	09	30"	27	18	31	290.039ft^3	12,119 lbs.
W45203-1040-06	17' 9"	8' 11"	7' 3"	10	30"	30	20	34	322.266ft^3	12,023 lbs.
W45223-1140-06	19' 5"	8' 11"	7' 3"	11	30"	33	22	37	354.493ft^3	11,928 lbs.
W45243-1240-06	21' 1"	8' 11"	7' 3"	12	30"	36	24	41	386.719ft^3	11,827 lbs.

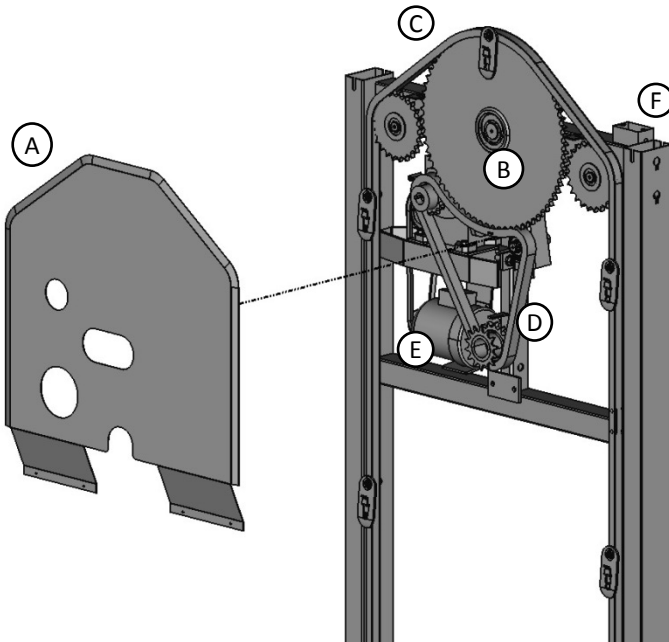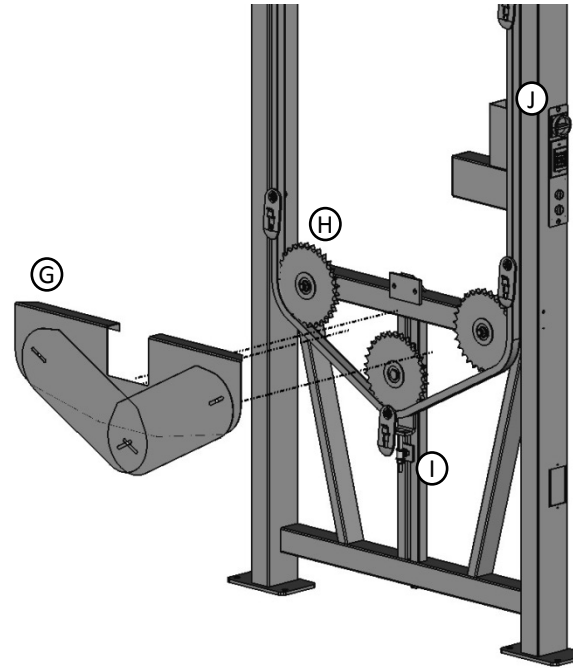**Safe Handling • Easy Access • Maximum Storage • Fast Retrieval • Small Footprint**

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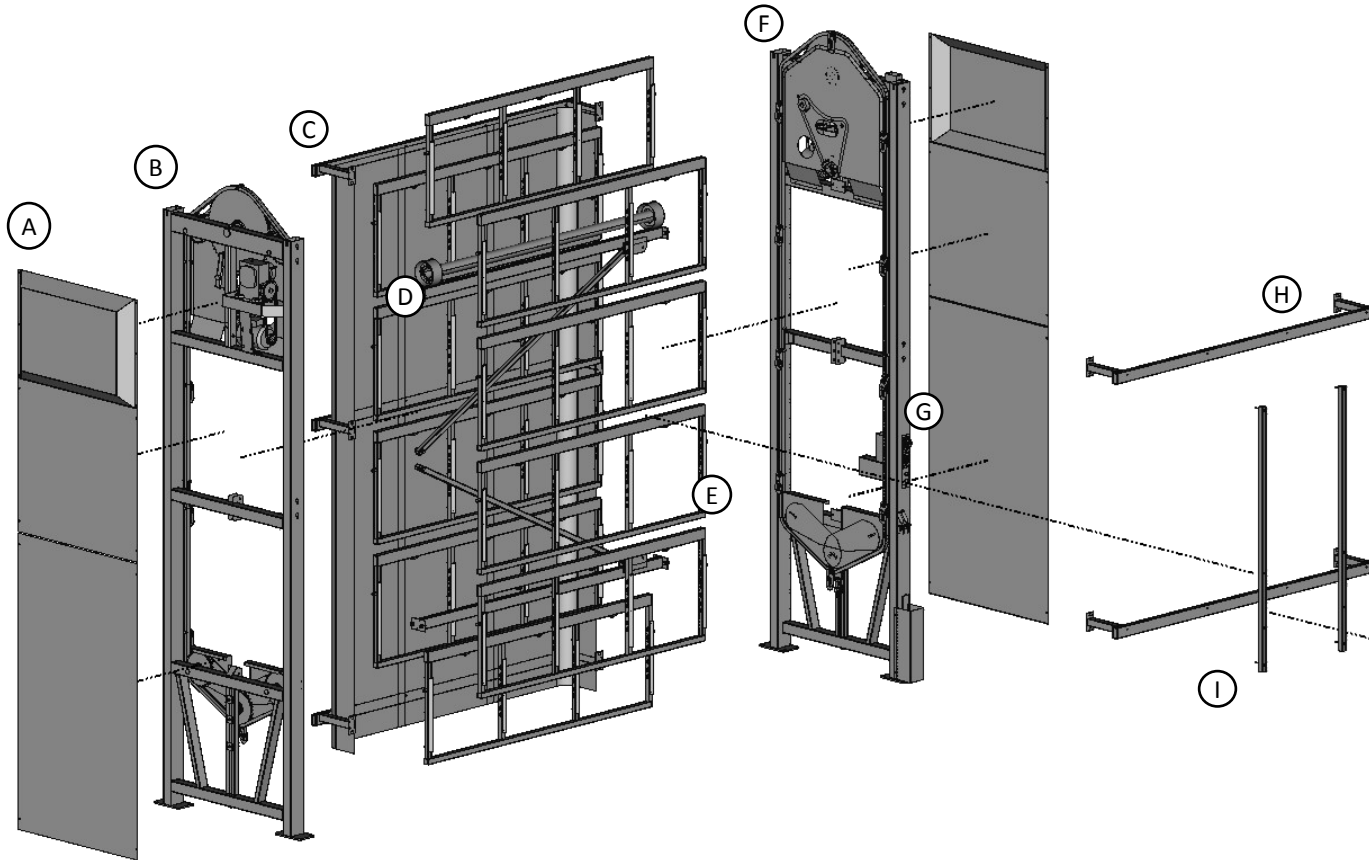
Overview

Item	Description
A	Side Panels
B	Left Carousel Tower
C	Cross Braces
D	Drive Shaft
E	Carriers
F	Right Carousel Tower
G	Control Panel
H	Front Cross Guards
I	Front Upright Guards

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Right Carousel Tower Top

Right Carousel Tower Bottom

Overview

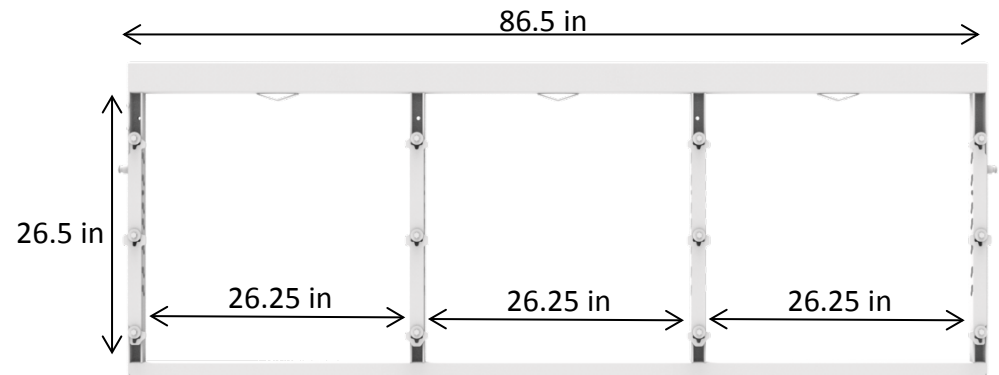| Item	Description
A	Top Chain Cover
B	Load Sprockets
C	Load Chain
D	Drive Chain and Drive Sprocket
E	Motor
F	Junction Box
G	Bottom Chain Cover
H	Bottom Sprockets
I	Control Panel
J	Load Chain Tensioner

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Wire Carriers (Bays)

Each wire carrier features 3 wire bays with 7 interchangeable positions per bay to provide a total of 21 positions per carrier. Each bay features a spring loaded locking mechanism that is engaged to either remove or load a spool.

The maximum sized spool that can fit in a W45 carousel is a 30" spool and a 24" spool in a W39 carousel. When the width of a spool exceeds 26.5" than a std. rolled goods carousel should be considered or in the case of outliers a HD Reel Dispenser.

In order to store large quantities of small diameter spools, Vidir has designed a rotating carrier (Spinner Spool) to fit within a single bay that features up to 24 unique locations to accommodate any variety of smaller spools.

86.5 in

26.5 in

26.25 in   26.25 in   26.25 in

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Figure 1.

Figure 2.

Wire Carriers

Model	Description	Overall Dim. W x H	Weight
2-48627	W39 Wire Bay Carrier	86.5" x 31"	60 lbs.
2-48529	W45 Wire Bay Carrier	86.5" x 37"	70 lbs.
2-47367	HD Wire Bay Rod (1")	27.06" x 1"	5.5 lbs.
2-44526	SD Wire Bay Rod (3/4")	27.06" x .75"	4.5 lbs.
2-48617	Spinner Spool	27.06" x 21.5"	36 lbs.
2-44540	Spinner Spool Rod	25.25" x .625"	2.375 lbs.
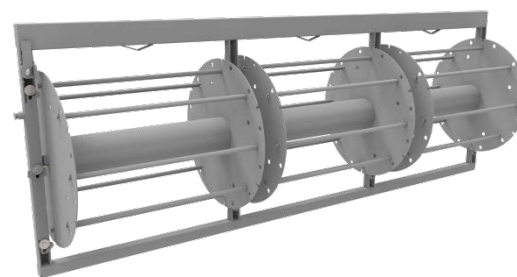
W39 Carrier W/1 Spinner Spool
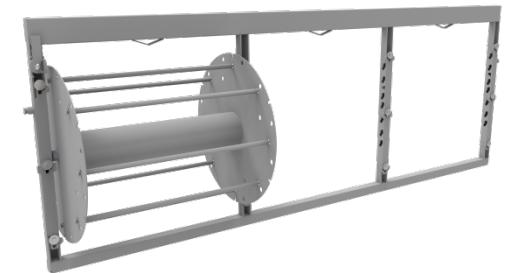
W39 Carrier W/3 Spinner Spool

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Carousel Automation

Carousel automation enables carousels to receive and execute commands. Automation can be as simple as the carousel receiving and executing a single command to an offsite inventory management system capable of processing multi-item pick lists.

Advanced inventory control requires a fully automated carousel for the more advanced functions. Basic inventory control can be implemented without the use of auto-retrieval but it is our recommendation to upgrade to an automated system for full utilization of inventory management techniques.

Vidir's standard automation package comes with a smart controller in place of the typical push buttons. The Magelis controller features password protection, carrier selection, manual jog, and a help function.

With the purchase of Vidir's Enterprise Solution for advanced integration, additional controllers such as Mobiles, Tablets, and PC's can be purchased from 3rd party vendors and integrated for even greater speed and control.
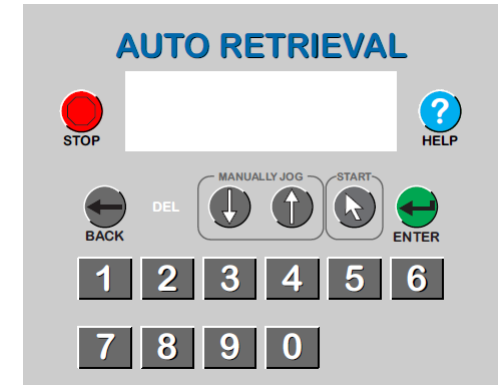
- Integrated PLC with the carousel

- Extended carousel frame

- Safety Light Curtains

- Smart Controller (Magelis XBT-R400)

- cCSAus Certification

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Inventory Control Solutions

Small Business Solution

Designed for small business but easily scalable, our complete inventory control system consists of a touch screen controller (PLC), bar code scanning, and Pic-to-Zone system. Additionally our intuitive inventory control software is integrated within the processor on the PLC and allows the inventory on the carousel to be easily managed and monitored.

Enterprise Solution

For organizations with an already established enterprise management solution, our carousels integrate seamlessly with other "off the shelf" or custom inventory solutions through the Vidir API. The API functions as a gateway from our hardware to the clients software. We supply the necessary command codes to program into your application, which allows the client to set the behaviors of the carousels as well as control how it interacts with the world around it.

VIS Solution

This software solution was designed for organizations that do not require a full inventory management solution but wish greater control of their carousels. The Vidir Inventory Software (VIS) is a standalone purchase that is required to be installed on a terminal within the same local network as the carousels they are controlling. The terminal must be running a Windows operating system.

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Vidir Inventory Software (VIS)

Vidir's Inventory Software was built in-house from the ground up to efficiently track and manage inventory across all of Vidir's Carousels.

Features:

- Order Picking and Fulfillment
- Product Identification
- Transaction History
- Bin Management
- Pick to Light Support
- Reporting
- Real Time Inventory Counts
- Multiple Zone Picking
- Multi-Carousel Support

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Options & Accessories

Adjustable Wire Loading Dolly – Standard wire dolly for transporting wire spools to and from the carousel, capacity for spools up to 24" diameter and 250 lbs. overall weight.

HD Wire Reel Dispenser – A HD dispensing platform designed for the outliers that are to large for a typical wire carousel, can handle spools from 16" to 48". The platform features a built in roller brake system with a 2000 lbs. weight capacity.

Cart Wire Merchandizer – Wire dolly that features 360° x 4 phenolic casters which provide easy maneuverability. The dolly can support spool weights up to 500 lbs.

Hanger Meter Slider – Cut/Measure/Re-Roll system for flexible materials from 1/64" – 7/8" and stiff material up to ½" in diameter. The merchandiser is mounted to the carousel on a slider so that it can dispense wire from either of the three bays when in a home position. The system features a wire counter, cuter, and re-roller.

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Options & Accessories

1400 Wire Reel Cart – Cut/Measure/Re-Roll cart system for flexible materials from 1/64" to 7/8" and stiff materials up to ½" in diameter. The cart is independent from the carousel and is moved in and out of position as required to process materials. The system features a wire counter, cuter, and re-roller.

1700 Wire Reel Cart – Measure/Re-Roll cart system for product between ½" and 2" in diameter. The cart is independent from the carousel and is moved in and out of position as required to process materials. The system features a wire counter and re-roller.

Spinner Spool – The spinner spool is designed to optimize a single wire bay for large quantities of small diameter spools of wire, up to 10" diameter. The spinner features 24 possible positions and 8 interchangeable rods per spinner.

Variable Speed – Variable speeds allows the operator to increase/reduce the speed of the carousel within the carousels max retrieval speed.

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Options & Accessories

Full Enclosure – The full enclosure replaces the 2" mesh on the front and rear with solid paneling as well as adding an enclosed ceiling**.** This option can be purchased for the added security or in special circumstances, the fire suppression. For example, In situations where the sprinkler capacity is not adequate for the added storage space, a full enclosure can be added which will allow you to create two distinct zones, with independent fire suppression systems, in the existing room.

Dual Controls – Add a duplicate control center to the left tower of the carousel for both right and left access

Touchscreen Computer – A 19" Elo Touch Computer. This industrial touchscreen can be ordered independently or as part of the 'Small Business Solutions' package.

Bar Code Scanners – Bar code functionality is included in the 'Small Business Solution' or can be integrated separately with clients inventory management system.

Options & Accessories

Electrical Change – Electrical changes can be purchased for the following electrical specifications: 220V/240V, 20 Amp, 60 Hz, 1 phase and 575V/600V, 6 Amp, 60 Hz, 3 phase. Please inquire for information on 50 Hz configurations

Color Change (RAL) – RAL color changes are available for an additional charge.

Preventative Maintenance Package – An annual inspection program to designed to extend the life of your carousel

Seismic Certification – A certification package for Carousels within seismic zones.

FAQ

Delivery Lead Time – Approximately 8-10 weeks

Installation Time – Approximately 8 hours per carousel for two installers

Material Handling Requirements – A forklift and scissor lift need to be available for the duration of the install

Electricians – The correct voltages need to be onsite prior to the machine arriving. During the installation, a single electrician can connect the carousel to its power source.

Electrical Location – The electrical is run from a junction box located on the top right of the carousel

Freight – Vidir will quote freight within North America. All requests outside North America are handled on a case by case basis.

Carousel Location – Carousel must be located on a level concrete surface and bolted to the floor. Ensure that there are no lines running beneath the desired location before drilling.

Warranty – 1 year manufacturers warranty

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