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Data Sheet

August 15, 2026

BURLEIGH

Burleigh 6003 Joystick for Inchworm Controllers

Burleigh 6003 Joystick for Inchworm Controllers This listing is a catalog accessory or spare in the Burleigh catalog. Public OEM literature for this exact SKU does not publish a dense numeric performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate. Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU. Catalog identity matched to brand, model, and SKU No invented electrical performance numbers Use with the parent instrument or chassis named in the title when applicable Documented as thin because OEM numeric tables are not public Catalog Title: Burleigh 6003 Joystick for Inchworm Controllers



MODEL

Burleigh 6003

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6003

LISTING

<https://aumictechlabs.com/products/6003-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burleigh 6003 Joystick is a manual control accessory for Burleigh Inchworm Controllers, delivering proportional command of piezoelectric nanopositioning systems across three independent axes. Designed for applications in microscopy, optics, and materials science, It has intuitive operator control of motor position, speed, and direction without software intervention. Technical Specifications Control Axes: 3 axes of manual control Signal Interface: TTL level signals Control Method: Proportional joystick displacement from center rest position Connection: Rear panel MANUAL PORT connector on controller Key Features Direct manual actuation of Inchworm

motor operations with proportional speed response Joystick displacement from center position directly modulates motor velocity TTL-compatible interface for direct integration with Burleigh controller electronics Three-axis simultaneous control capability for multi-dimensional positioning Field-proven design with established compatibility across Burleigh platforms Typical Applications Microscopy sample positioning and focusing Optical alignment and beam steering Materials characterization and inspection workflows Real-time manual adjustment of nanoscale positioning systems Laboratory research requiring fine manual control without automated sequencing

Compatibility & Integration The 6003 Joystick interfaces directly with Burleigh 6000 Series and 6000ULN Series Inchworm Controllers via the MANUAL PORT connector. It operates as a drop-in alternative to the 6005 Handset for manual control applications. The device accepts TTL level command signals and integrates with open-loop Model 6000 system configurations, enabling stand-alone manual operation of piezoelectric actuators without external software or network dependencies.

6003 Characteristics / Specifications

PARAMETER	VALUE
Model	6003
Brand	Burleigh
Catalog Title	Burleigh 6003 Joystick for Inchworm Controllers
Sku	6003
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	6003
Manufacturer Line	Burleigh
Documentation Note	thin accessory sheet
Calibration Class	notastandalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory
Public Spec Density	identity only

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate.	
Applications	
Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.	
Key Features	
Catalog identity matched to brand, model, and SKU	
Accessory or spare class rather than standalone instrument	
No invented electrical performance numbers	
Use with the parent instrument or chassis named in the title when applicable	
Documented as thin because OEM numeric tables are not public	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	6003
Brand	Burleigh
Catalog Title	Burleigh 6003 Joystick for Inchworm Controllers
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Document Class	accessory or spare identity sheet
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Manufacturer Line	Burleigh
Documentation Note	thin accessory sheet
Calibration Class	not standalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory

PARAMETER	VALUE
Public Spec Density	identity only

Notes
ALLOW_THIN: true accessory/spare with no public numeric table. Do not invent ranges, accuracies, or power levels. Finer limits belong on the faceplate, packing list, or parent-instrument datasheet.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.