

Cold Joint Grinding Fixture



AI Overview

A cold joint grinding fixture is a precision workholding device used to securely hold and support components for accurate grinding, particularly for cylindrical or jointed parts.

Overview

A cold joint grinding fixture is designed to hold workpieces such as shafts, pins, reamers, or punches during grinding operations without introducing heat or distortion that could affect tolerances. These fixtures are commonly used in surface grinders or cylindrical grinding machines to ensure precise alignment and repeatable results. The term "cold joint" emphasizes that the fixture maintains the workpiece at ambient temperature, preventing thermal expansion that could compromise accuracy.

Key Features

- **Dead Center Design:** Many fixtures, like the Harig Lectric-Center, use a dead center design to achieve extremely high precision, often down to 50 millionths of an inch (0.000050 TIR) for total indicator reading accuracy .
- **Motorized or Manual Operation:** Fixtures can be fully motorized for fast stock removal or manual with precision indexing for controlled grinding .
- **Versatility:** They can accommodate various workpiece sizes and shapes, including cylindrical parts, grooves, slots, and angles .
- **Mounting Options:** Fixtures can be mounted directly on magnetic chucks, sine plates, or other machine tables for stability .
- **Accessories:** Many come with adjustable headstocks and tailstocks, diamond whe...

Article Content

Apr 26, 2026

A Comprehensive Guide to Jigs And Fixtures in CNC

Jigs guide machining tools; meanwhile, fixtures hold workpieces securely—jig and fixture,

Mar 10, 2026

Fixturing | McMaster-Carr

Choose from our selection of fixturing, including over 5,400 products in a wide range of styles and sizes. Same and Next Day Delivery.

Feb 28, 2026

Ginding Fixtures | Travers Tool

Buy Ginding Fixtures | Shop our comprehensive inventory, online and in-stock now.

Jan 09, 2026

Boost Efficiency with High-Quality grinding fixture Solutions

Discover premium quality grinding fixture designed to enhance efficiency and precision in your industrial operations. Boost

Jun 06, 2026

Shop Fixtures and Jigs

Improve accuracy, efficiency and your overall work with a Jantz fixture or jig to aid in your bladesmithing and shop work.

Dec 05, 2025

Metkon | Metallography & Hardness Testing Equipment

Metkon provides advanced equipment and consumables for metallographic sample preparation and

May 30, 2026

Grinding Fixtures For Sale | Apex Tool & Supply

There are dozens of grinding fixtures that you can use in a grinding machine to improve the procedures of locating, supporting and

Feb 08, 2026

All About of Cold Joint in Concrete | What is Cold Joint Concrete ...

Cold joint concrete is a phenomenon that occurs due to the lack of the bonding or intermixing of the two concrete

Sep 24, 2025

Fixtures

The Berger Gruppe offers a variety of mechanical, pneumatic and electromagnetic fixtures for its grinding and glazing machines.

Jun 30, 2026

Jig and Fixture: What You Need to Know About the Two Machining Tools

Learn the essential roles of jigs and fixtures in precision manufacturing for improved accuracy, reduced errors, and

Oct 09, 2025

Jigs and Fixtures: Definition, Types, Advantages,

Jigs and fixtures are tools employed in manufacturing to secure workpieces and guide cutting or shaping

Jan 29, 2026

Cold Joints in Concrete: Causes, Prevention, & Repair Secrets!

Cold Joints in Concrete: Causes, Prevention, & Repair Secrets! Cold joints are a significant concern in concrete

Dec 02, 2025

How to Fix Welding Cold Joints: Step-by-Step Troubleshooting Guide

How to Fix Welding Cold Joints: Step-by-Step Troubleshooting Guide for Incomplete Fusion and Weak Weld Penetration Cold joints

Apr 16, 2026

Jigs vs Fixtures: Design Guide for CNC Manufacturing

Learn jig and fixture design principles, types, workflows and best practices. Improve

Sep 17, 2025

Understanding Concrete Cold Joints: Causes, Prevention, And Repair ...

Learn about concrete cold joints: their causes, prevention strategies, and effective repair techniques to ensure

Dec 29, 2025

Klingelnberg Group: Klingelnberg Fixtures

Drawing on many years of experience as a system provider, Klingelnberg builds and produces high-quality

Dec 09, 2025

Grinding Fixture

Explore a wide range of our Grinding Fixture selection. Find top brands, exclusive offers, and unbeatable prices on eBay. Shop now

Nov 30, 2025

Tooling Component Fixture Supports | McMaster-Carr

Choose from our selection of tooling component fixture supports, including side grippers, spring-loaded guide plungers, and more.

May 04, 2026

Common Jig & Fixture Applications | Carr Lane Mfg.

Surface -grinding fixtures are designed to position workpieces securely during grinding operations,

Jan 04, 2026

Jointing trowel for creating control joints in concrete

To prevent cracks from forming, concrete expansion joints should be incorporated to

Feb 19, 2026

Jigs and Fixtures: Types, Parts, Definition, Applications

Several different forms of fixtures are used in grinding machines to locate, hold, and support the workpieces during

May 12, 2026

How to Prevent Cold Joints in Concrete | Cold Joint in Slab

In this article, we will learn all about cold joints in concrete: causes, effects, prevention, and repair methods.

Aug 27, 2025

Dry Ice Blasting Equipment for Weld Line Cleaning

Reduce weld cell cleaning downtime by 50% or more with Cold Jet dry ice blasting.
Safely remove spatter

Dec 22, 2025

Gear Fixtures

Drewco designs hob fixtures to hold gear blanks securely, while the hob cutter generates the OD gear

Nov 24, 2025

CNC Fixture: Types, Applications, and Design Tips

This comprehensive article gives a detailed breakdown of CNC fixture, including the types, applications,

Jul 06, 2026

Cuttermaster Universal Grinding Fixture- ArtcoTools

Allows the sharpening on the ends of an end mills, gash, chamfer, index, and cam relief all with one fixture. Sharpen the ends

Dec 11, 2025

Grinding Fixtures For Sale | Americas Industrial Supply

There are dozens of grinding fixtures that you can use in a grinding machine to improve the procedures of locating, supporting and

May 13, 2026

Understanding Control Joints and Cold Joints in

In conclusion, understanding and implementing control joints correctly is a vital part of any

Jul 04, 2026

Grinding Fixtures For Sale | Exact Tooling

There are dozens of grinding fixtures that you can use in a grinding machine to improve the procedures of locating, supporting and

Nov 07, 2025

Cold Joint in Concrete and Methods of Treatment

Reading time: 1 minute A cold joint is an advancing face of a concrete pour, which could not be covered by fresh concrete before

Jun 05, 2026

An experimental and numerical study on the effects of cold joint ...

For the flexural zone, a cold joint location of 0.75 and an angle of 45° were determined to be optimal. The results of this

Jun 03, 2026

Klingelnberg Group: Klingelnberg Fixtures

The product range includes complete pinion and ring-gear fixtures for cutting, grinding and lapping/testing.

Apr 03, 2026

Fixture Design

Grinding Fixtures - Grinding fixtures are a family of fixtures rather than a single classification. The two major types of grinding fixtures

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

