



ALUMINUM WHEEL COMPLETE SOLUTIONS

Flow Forming · Workholding · Automation · Inspection

The complete solution for wheel manufacturing, from flow forming through OP10, OP20 and OP30 machining, DIN-KO integrates machines, workholding, automation and inspection solutions.



ENGINEERED, INTEGRATED AND VALIDATED BY DIN-KO

WHEEL-FOCUSED ENGINEERING



DIN-KO specializes in aluminum wheel flow forming, machining workholding and automation integration, built upon the proven  **HOM TECH** engineering heritage.

- Wheel-Focused Expertise
- Proven Workholding
- Machine Integration
- Automation Engineering
- Production Support

4,000+
Wheel Chucks
Delivered

2,000+
Wheel Fixtures
Delivered

35+
Flow Forming
Machines

30+
Global Markets
Countries

1,000+
Worldwide
Customers

From individual products to integrated production solutions.



Flow Forming



OP10 Turning



OP20 Turning



OP30 Drilling



Automation



Inspection

Complementary processes, including heat treatment, can be supported through qualified project partners when required.

FLOW FORMING SOLUTIONS

MADE FOR WHEEL, BUT MUCH MORE.

DIN-KO provides flow forming machines, tooling, forming rollers, process development and automation for cast and forged aluminum wheels.

- Stronger and Lighter Wheels
- Stable Mass Production
- Standalone or Automated Line
- Production Ramp-Up Support



FROM CONCEPT TO PRODUCTION

Beyond the machine building, DIN-KO integrates design evaluation, tooling, forming rollers, process development, heating, cooling and automated handling.

01

Preform Design

02

Tooling & Process

03

Flow Forming setup

04

Heating / Cooling

05

Trial and training

06

Mass production



FLOW FORMING MACHINE PLATFORMS



Two-Roller STANDARD MODEL

Designed for standard cast and forged aluminum wheel production—optimizing equipment configuration, forming capability, and ROI.

Three-Roller ADVANCED MODEL

Tailored for higher output, OEMs, heavy forming loads, and specialized wheel manufacturing

Customized Production Platform

Customized standalone or turnkey production lines—tailored to your wheel size, material, cycle time, footprint, and automation needs.

For complete machine specifications and additional forming applications, refer to the DIN-KO Flow Forming Technology & Equipment catalog.

HOM TECH WHEEL WORKHOLDING



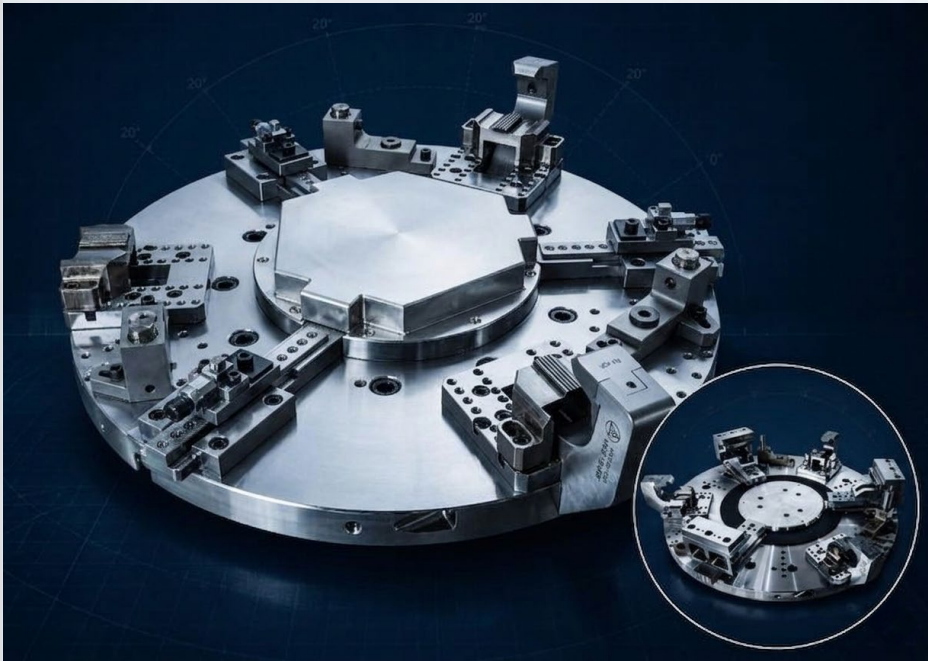
Purpose-built for aluminum wheel locating, clamping and automation.

- Lightweight Design
- Dynamically Stable
- Precise Locating
- Modular Configuration
- Easy Maintenance



Final configuration is determined based on the wheel size range, machine interface, and automation requirements

OP10 SELF-CENTERING CHUCK



Designed for **OP10** machining and automated handling of aluminum wheel blanks.

- Automatic Self-Centering
- Wheel sizes: 22" / 24" / 26"
- High repeatability
- Automation-Ready
- Project-Specific Detection



Final configuration is determined based on the wheel size range, machine interface, and automation requirements.

CONFIGURED FOR YOUR WHEEL RANGE



Custom Chuck Selection/ Design

Chuck custom selected by DIN-KO based on the requirement of wheel size, weight, rim profile, and machining conditions.

Spindle Interface

Spindle interface designed to suit the machine platform and project requirements.

Automatic-Line Compatibility

Automation supports air-tight, pneumatic, or full-stroke position detection.



OP10 Wheel Turning Platform
DIN-KO HW-800

Final configuration is determined based on the wheel size range, machine interface, and automation requirements.

OP20 THREE-JAW PULL-BACK CHUCK

Primary Recommended Solution



The three-jaw pull-back chuck locates from the machined center bore and axial datum.

- Pull-Back Clamping
- Stable Axial Seating
- Modular Size Adaptation
- Wheel sizes: 18" / 22" / 24" / 26" / 28"
- Automation Integration



PAIRED WITH —

OP20 Wheel Turning Platform
DIN-KO HW-800



MODULAR CLAMPING CONFIGURATION



A single three-jaw pull-back chuck can accommodate multiple wheel sizes through adjustable arms, jaws and center-locating components.

- Size flexible by custom Arm set
- Rigid Clamping Arm
- Clamping Jaw
- Single-Layer Collet Centering
- Sleeve-Type Centering

Final configuration is determined based on the wheel size range, machine interface, and automation requirements.

FULL-CIRCLE JAW WORKHOLDING

For Simple Size Selection And Stable Mass Production

DIN-KO' s hydraulic chuck with dedicated full-circle jaws provides broad outer-diameter contact for stable clamping.

ONE FULL-CIRCLE JAW SET THREE DESIGNATED WHEEL SIZES

- Broad Contact Area
- Reduced Workpiece Deformation
- Easy Setup and Calibration
- Stable Dynamic Balance

PAIRED WITH —

OP20 Wheel Turning Platform
DIN-KO HW-800



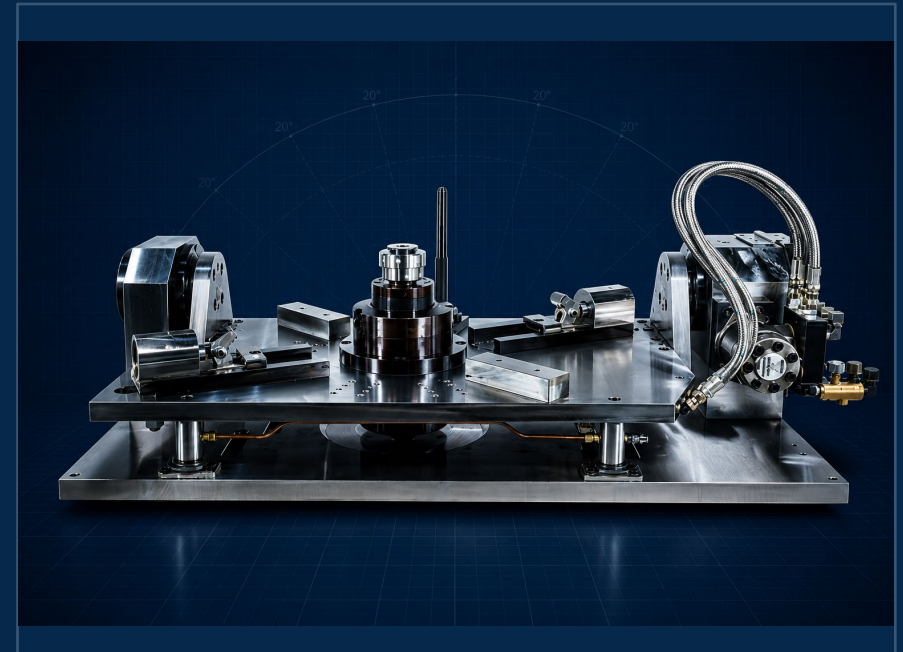
FIXED-ANGLE TILTING WHEEL FIXTURE



For PCD Hole and Valve-Hole Drilling

Fixed-angle tilting fixtures are designed for PCD bolt holes, valve holes and related drilling or milling operations.

- DIN-KO Designed & Manufactured
- Stable Fixed-Angle Machining
- Automation Integration
- Single Responsibility



PAIRED WITH —

OP30 Machining Platform
DIN-KO PV-1100



Final configuration is determined based on the wheel size range, machine interface, and automation requirements.

2 / 3 / 4-JAW FIXTURE CONFIGURATIONS



Two-Jaw

Primarily designed for two wheeler/motorcycle wheels and small workpieces.

STANDARD SOLUTION



Three-Jaw

Recommended for mainstream cast aluminum automotive wheels, providing stable clamping while maintaining sufficient machining clearance.

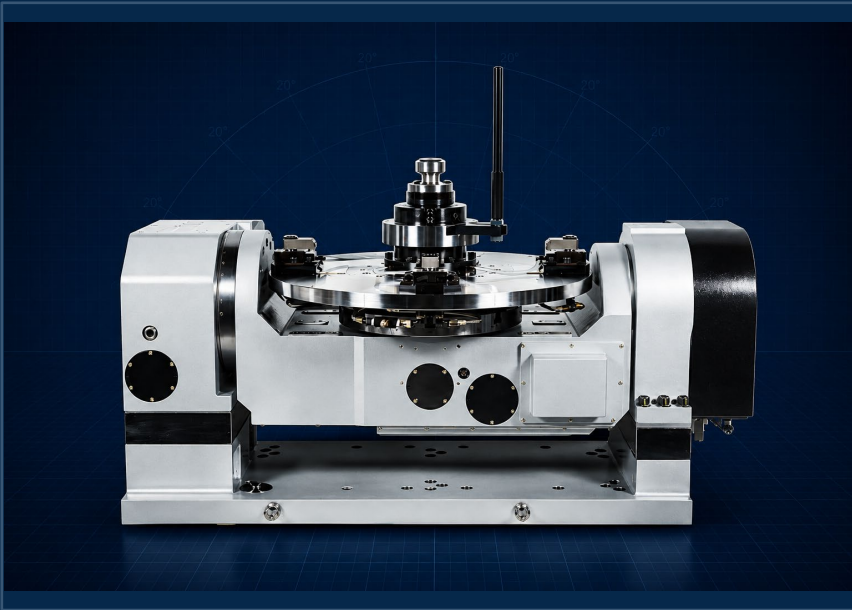


Four-Jaw

Suitable for forged wheels, truck wheels, large workpieces, and applications requiring high clamping force.

Recommended for 22" and 24" wheels. A four-jaw chuck is recommended for larger wheels, such as 28".

4&5-AXIS ROTARY TABLE SOLUTION



For programmable positioning, multi-angle machining and production flexibility, DIN-KO integrates dedicated wheel fixtures with custom rotary tables.

- Rotary Table with DIN-KO Wheel Fixture
- Customer-Specified Rotary Table
- High repeatability and efficiency
- Machining Clearance
- Automation ready



Guide of selection: Fixed-angle fixture for high-volume production; 4-axis rotary-table solution for programmable positioning and flexibility.

PAIRED WITH —
DIN-KO PV-1100



HT-LM6 SIX-JAW FLEXIBLE PRODUCTION CHUCK



One chuck accommodates three designated wheel sizes, reducing complete chuck changeovers and improving mixed-model flexibility.

- Six Pie-Jaw Units
- Three Designated Wheel Sizes
- Proven **HOM TECH** Mechanism
- Dynamic Stability
- Automation-Ready

Featuring:

Interface Compatibility: Designed specifically for horizontal lathe platforms, the rear mounting flange interface is compatible with the standard A2-8 spindle nose.

Dynamic Operational Specifications: The maximum allowable operational speed reaches 2,000 RPM, meeting the dynamic balancing requirements for high-speed rotary cutting.

PAIRED WITH

OP10 | OP20
DIN-KO HW-800



SOLUTION FOR FLEXIBLE MIXED PRODUCTION

THREE WHEEL SIZES. ONE PLATFORM.

- One Platform, Multiple Sizes
- Fewer Complete Changeovers
- Reduced Fixture Inventory
- Greater Scheduling Flexibility
- Simplified Size Changes
- Automation-Ready



Built on the proven **HOM TECH** workholding platform, DIN-KO mixed-model solutions accommodate three designated wheel sizes on one platform.

MLP-4 MIXED-MODEL FIXTURE & FSDS

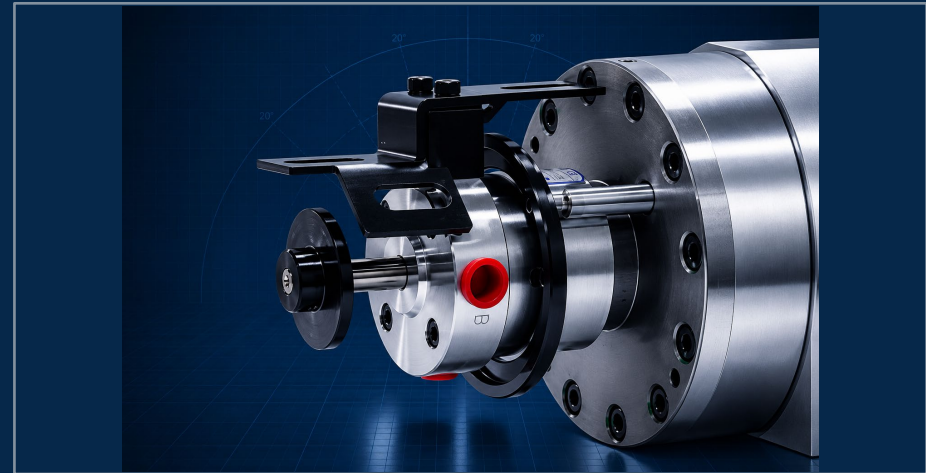


MLP-4 Four-Jaw Mixed-Model Fixture

The four-jaw self-centering fixture accommodates three specified wheel sizes and, in combination with a 4-axis rotary table, enables machining of the PCD, valve holes, and features at multiple angles.

- Inner radius contour OD Locating
- Vision-Guided Loading
- Hollow-Body Chip Evacuation
- Optional Seating Detection

This function is intended for process error-proofing and clamping status detection and is not designed for precision dimensional measurement.



Full-Stroke Detection System (FSDS)

Automatically detects workpiece presence/absence, empty clamping, and abnormal clamping positions, providing reliable process protection for mixed-line production of different wheel sizes.

PAIRED WITH
DIN-KO PV-1100



SPECIAL-PURPOSE & CUSTOM WORKHOLDING



Clutch-Type Chuck for Mirror-Finish Machining

Designed specifically for machining mirror-finished and diamond cut operation of wheels, ensuring stable clamping while providing clearance for the machining areas.

PCD Locating Collet Chuck

Uses existing PCD holes for precise positioning, with dual turrets enabling simultaneous machining of the inner and outer diameters.

Premium service for custom Workholding Engineering

Project-specific custom fixtures are designed and manufactured to meet the requirements of special workpieces, machining references, machine interfaces, and automation systems.



Customer workpieces and process information are handled under strict confidentiality.

AUTOMATION & SYSTEM INTEGRATION

With comprehensive R&D, manufacturing, and FAE capabilities, DIN-KO delivers a high level of in-house development and integration across fixtures, machine tools, automation, inspection, and various recognition systems.

- Automated Loading and Unloading
- Industrial Robot Integration
- Machine Vision
- Safety and Control Interlocks
- Production Line Integration



DIN-KO Wheel Heating Ovens

Ovens are designed around the spinning process, integrating upstream and downstream operations, including automation, robotic grippers, detection, and data collection into a complete platform solution.

DIN-KO Dual Wheel Gripper

Designed as a standalone robotic end-of-arm tool (EOAT) for efficient wheel handling, loading, and unloading.



INSPECTION & PROCESS SUPPORT

CUSTOM UPON REQUEST



DIN-KO provides project-specific gauges, runout inspection equipment and custom tooling interfaces.

- PCD Inspection Gauge
- Manual / Automatic Runout Station
- Wheel Bead-Seat Gauge
- Custom Toolholders
- Tool Sleeves / Tool Blocks



MACHINE PLATFORMS & INTEGRATION

Past Project Experience

DIN-KO provides comprehensive ecosystem integration with the flexibility to work with customer-selected machine tool platforms.

Process	Workholding Solution	DIN-KO SOLUTION
OP10	Self-Centering / HT-LM6	HW-800
OP20	Pull-Back / Full-Circle / HT-LM6	HW-800
OP30	Tilting / Rotary Table / MLP-4	PV-1100

Selected Machine Tool Integration Experience



Selected machine tool platforms integrated with **HOM TECH** workholding.

GLOBAL OPERATIONS & SERVICE NETWORK



YOUR PARTNER ACROSS THE WORLD

With global engineering and manufacturing centered in Taiwan, DIN-KO supports customers through subsidiaries and regional sales and service networks.

Regional Sales & Service Partners:
Thailand · India · Taiwan · China · Mexico

HEADQUARTERS

DIN-KO MACHINERY

Global Headquarters
Engineering · Manufacturing
Process Development

TAIWAN

VULCAN INDUSTRIAL

DIN-KO Majority-Owned
Subsidiary
Regional Sales · After-Sales
Spare Parts

THAILAND

HONGJU INTELLIGENT TECHNOLOGY

DIN-KO Majority-Owned
Subsidiary
China Sales · Integration
After-Sales

CHINA

DNR TECHNO SERVICE

India Sales · After-Sales ·
Spare Parts

INDIA



START WITH YOUR NEEDS,
WE WILL MAKE IT WORK.

Share your requirements, ideas, production goals, and concepts with DIN-KO for an initial solution evaluation.

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ENGINEERED, INTEGRATED AND VALIDATED BY DIN-KO

Strength in Simplicity.