

ONE SYSTEM, TOTAL CONFIDENCE

**NIKKEN INTEGRATED
ZERO-POINT TECHNOLOGY**



ONE SYSTEM, TOTAL CONFIDENCE

NIKKEN INTEGRATED ZERO-POINT TECHNOLOGY

What is Zero-Point clamping technology?

A Zero-Point system is a machine tool clamping device, enabling positioning of vices, fixtures or workpieces on the machine table quickly, precisely and repeatably.

NIKKEN integrated Zero-Point technology is the modern alternative to conventional T-slot tables and vices; ours is built directly into the rotary table – not added on top. Designed for flexibility and diversity, it delivers fast, repeatable, and highly accurate clamping using compatible 96mm pull-stud technology, allowing manufacturers to adopt Zero-Point automation without changing the existing clamping approach or machine layout.

The challenge

Modern manufacturing demands flexibility, yet manufacturers continually face machining downtime, a lack of compatibility between solutions and lengthy setup times. All of this results in higher costs, unnecessary complexity, and instability of workholding.

Traditional systems often mean compromise:

- X Additional adapter plates, reducing rigidity and usable Z-height
- X Incompatible pull-studs, meaning costly system changes
- X Manual or external clamping systems which slow down automation
- X Lack of flexibility for future fixtures or parts – excess cost for future products

NIKKEN is different.



"Instead of adding zero-point clamping on top of an existing device as an afterthought or add-on, NIKKEN's patented solution integrates it directly into the rotary table itself. We have created a cleaner, automation-ready solution that offers more rigidity and reduced stack up height."

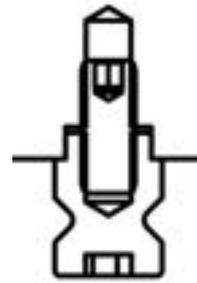
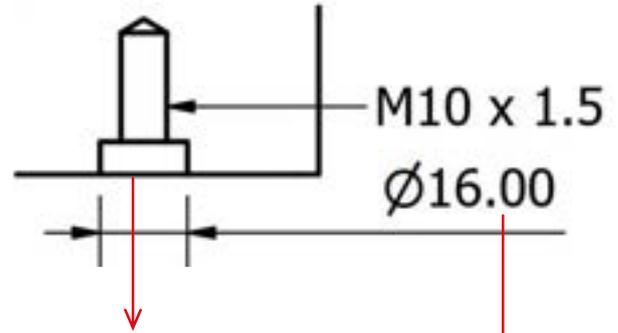
Charles Corker - Technical Support Engineer



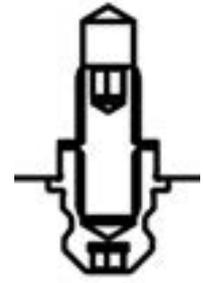
Core benefits

**Uses standard fixture mounting geometry.
No change required to existing work-holding.**

NIKKEN Zero-Point utilises a common 96 × 96 mm grid pattern to ensure broad system compatibility, making it easy to integrate into existing work-holding strategies through a simple stud swap.



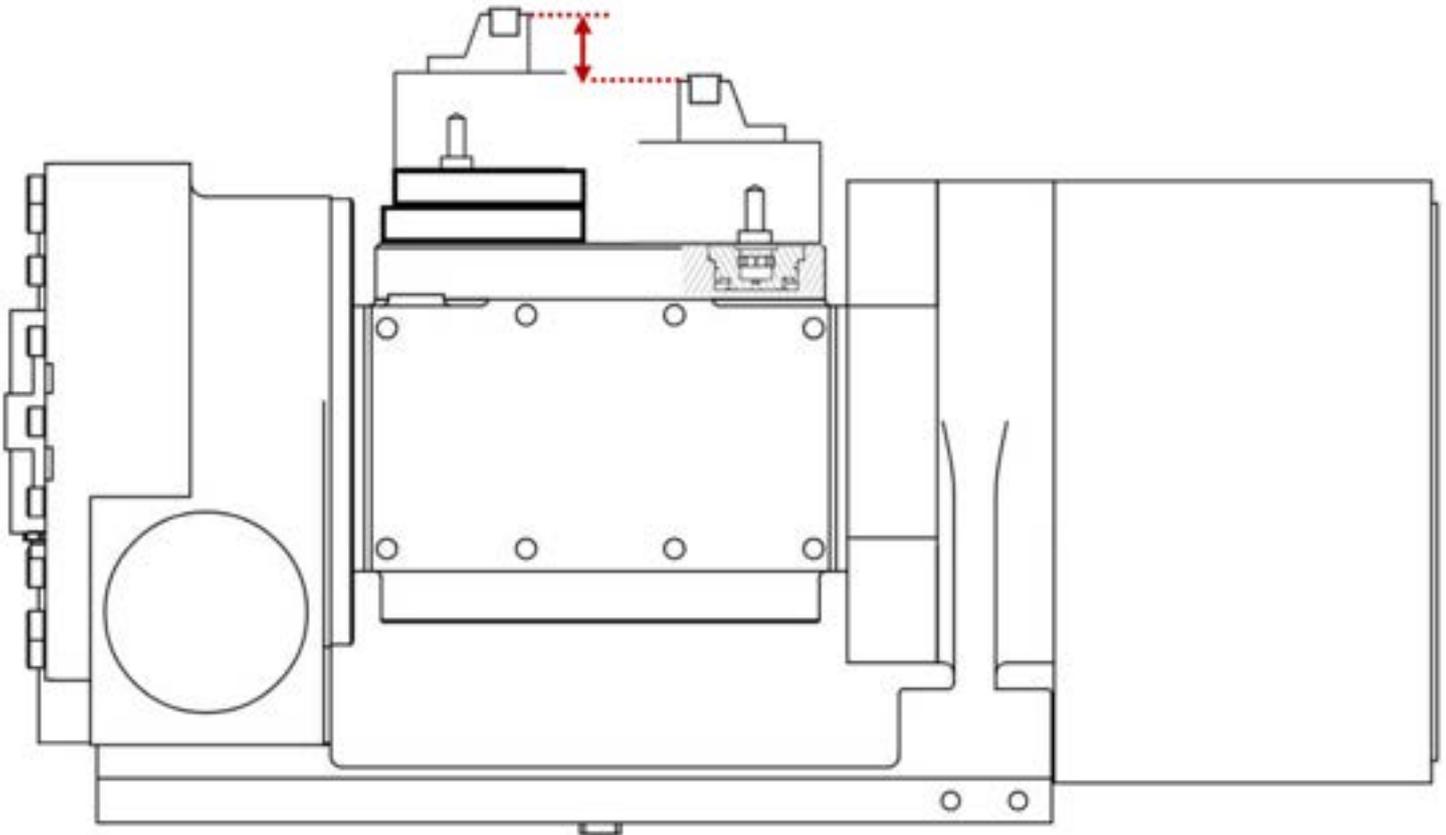
COMPETITOR ADD-ON SYSTEM

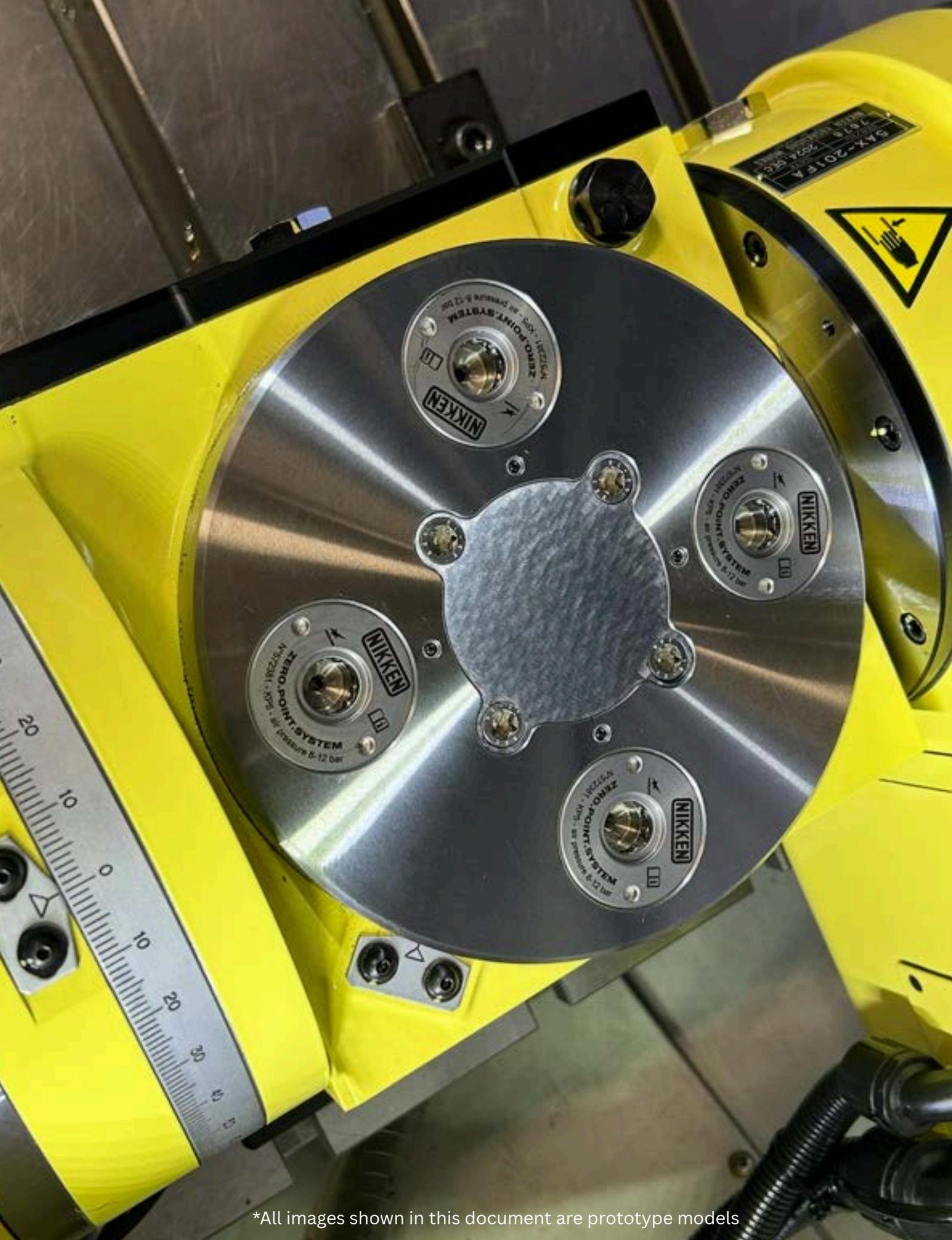


NIKKEN INTEGRATED SYSTEM

No Adapter Plate Required

Because the zero-point system is built in, there's no need for adapter plates, maximising machine rigidity, and maintaining valuable working envelopes.





*All images shown in this document are prototype models

Automatic Clamp / Un-Clamp Built In

An integrated pass-through rotary joint allows remote clamping and unclamping of the zero-point system and additional workholding mounted to the faceplate via the machine controller, enabling seamless manual, robotic, or pallet-based automation

| | |
|--------------------------------------|--------------------------|
| Pull-down force (per receiver) | 1.5 kN (153kg) |
| Locking/Holding force (per-receiver) | 13 kN (1325kg) |
| Clamp circuit (Turbo function) | 6 bar (0.6 Mpa) |
| Un-clamp circuit | 12 bar (1.2 Mpa) |
| Accuracy | < 0.005 mm |
| Pull-stud geometry | M10x1.5 and Ø16 location |

What does this mean for you?



Faster setup and changeover times



Cost saving and efficiency



Increased machine uptime and boosted productivity



Improved machine rigidity and accuracy < 0.005 mm



Easier automation without re-engineering the machine



Reliable, repeatable positioning from day one



Especially beneficial for high-mix, low-volume production environments

Discover how integrated Zero-Point can simplify your automation strategy. Contact our team today for a demonstration.





Nathan Ray
Deputy Managing Director
nathan.ray@nikken-world.com
07384 510152



Gary Williamson
UK Sales & Business
Development Director
gary.williamson@nikken-world.com
07778 529333



Steve Eckersall
Technical Director
steve.eckersall@nikken-world.com
07778 472355



Charles Corker
Technical Support Engineer
charles.corker@nikken-world.com
07552 126276



Jack Varley
UK Business Manager
jack.varley@nikken-world.com
07827 233027



Brian Furey
Regional Sales Manager
South East
brian.furey@nikken-world.com
07831 090201



Andy Firks
Regional Sales Manager
Central South West
andy.firks@nikken-world.com
07586 093752



Jon Blissett
Regional Sales Manager
North West & Ireland
jon.blissett@nikken-world.com
07960 246685



Dan Mundy
Regional Sales Manager
South Midlands & East
dan.mundy@nikken-world.com
07384 510137



Ben Yeomans
Business Development
ben.yeomans@nikken-world.com
07469 148154



Rob Gorman
Regional Sales Manager
North East & Central
rob.gorman@nikken-world.com
07854 888301



Amber Mackay
Group Marketing Manager
amber.mackay@nikken-world.com
07425 791064



Tim Bruce
Assistant General Manager
tim.bruce@nikken-world.com
07778 527870



Jonny Watson
Service Manager
jonathan.watson@nikken-world.com
07831 779100



The Spirit of Innovation

NICe - NIKKEN Innovation Centre Europe

Advanced Manufacturing Park, Brindley Way

Catcliffe

Rotherham

S60 5FS

United Kingdom

