



Digest Catalogue

YOUR WORKHOLDING PARTNER

Full Line Up Information 2024

Next Generation Standard Chuck

BR SERIES

The standard has evolved.



High Precision, Ultra-large Through-hole High-speed Power Chuck

Chucks are manufactured from high grade alloy steel. Three jaw wedge style power chucks deliver up to 20% more speed, gripping force and bore size when compared to conventional chucks.

EASY TO UPGRADE FROM EXISTING CHUCKS

Fully interchangeable with the Kitagawa B-200 and BB-200 series chucks.

The only requirement is a new threaded drawnut. You can also use the same hydraulic cylinder if changing size for size, allowing you to implement the best performance at the lowest cost.



0.01 mm T.I.R.*³

Gripping Accuracy

0.01 mm T.I.R.*³

Gripping Accuracy after
removing and attaching
formed jaws

450 Hours*²

Reduced a year

*1 With the use of optional Tnut-Plus.
The chuck maintains the gripping
accuracy of 0.01mm T.I.R. or less even
after removing and attaching jaws.

*2 Assuming 3 setup changes per day, 30
minutes jaw forming per setup change

*3 Only for BR12, the gripping accuracy is
0.015mm T.I.R.





BRT SERIES

2-jaw High Precision, Ultra-large Through-hole, High-speed Power Chuck

- Gripping accuracy of 0.01 mm T.I.R. or less
- Reduced jaw-lift
- Interchangeable with Kitagawa BT200 and BBT200 series
- With Tnut-Plus optional dedicated T-nuts, the repeatability of jaws at detaching and attaching is 0.01 mm T.I.R. or less

Transforming conventional machining methods

AIR OPERATED CHUCKS



KPC series

3-Jaw Ultra High Precision Air Chuck

- High repeatability
- Built-in pneumatic cylinder
- Optimum KPC chuck for finishing precision processes



UV.K series

3-Jaw Air-Operated Self Contained Chuck

- Large through hole
- Built-in check
- Built-in pneumatic cylinder



UB series

3-Jaw Air-Operated Self Contained Chuck

- Largest through hole
- Built-in pneumatic cylinder
- Best suited for pipe processing
- Built-in check valves



UPR series

Mega Thru-hole Front-mounting Air-operated chuck

- Largest through hole
- Built-in pneumatic cylinder
- Best suited for pipe processing
- Built-in check valves

STANDARD CHUCK

From our standard chucks and cylinders through to our most advanced, this extensive line up combines excellence with performance, and caters for all KITAGAWA chucking.



BBT200 series
2-Jaw Large Thru-Hole Power Chuck



BL-200 series
Lever style Long stroke Power Chuck



QJR series

Quick Jaw
Replacement Chuck



B200 Series

Large Thru-Hole High Speed Power Chuck

World Renowned
Standard Chuck.



N series
Closed Centre Power Chuck



HW series
4-Jaw Lever Type Power Chuck with Closed Centre



BT200 series
2-Jaw Large Thru-Hole High Speed Power Chuck



HOH series
Counter Balanced Power Chuck



BLT200 series
2-Jaw Lever Style Long Stroke Power Chuck



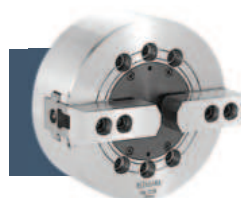
NV series
Large Power Chuck for Vertical Lathes



NL series
Closed Centre Power Chuck (Long Stroke)



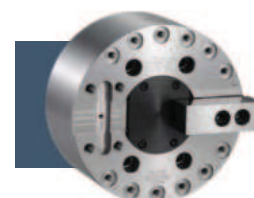
ML series
Mega-Long Stroke Chuck



NT-NLT series
Closed Centre, 2-Jaw Power Chuck (NLT-Long Stroke)



MLT series
2-Jaw Mega-Long Stroke Chuck.



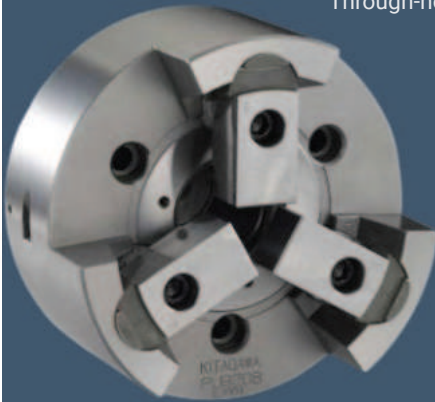
MLV series
1-Jaw Mega-Long Stroke Chuck

ADVANCED CHUCK

Advanced designs that offer superior gripping characteristics for mass production.
Can be fully customised to suit most workpieces during every stage of production.

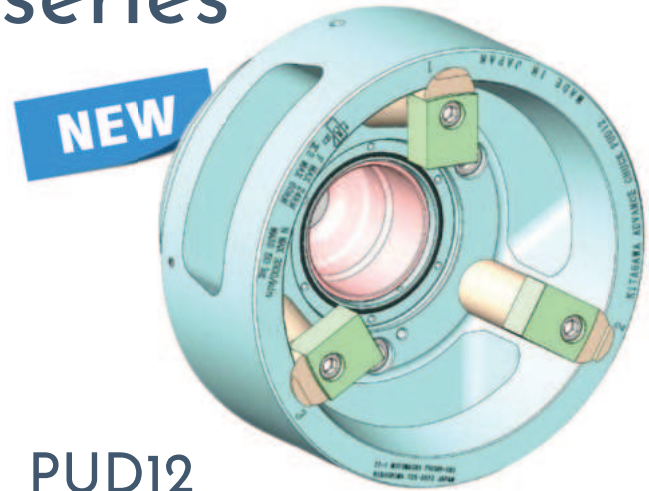
PUB series

Through-hole pull lock chuck



- Draw down for high-precision processing
- Open centre type accommodates shaft processing

PULL LOCK series



PUD12

Pull lock chuck for differential case machining

High precision machining by low strain, Large and deep centre hole

- The large centre hole embraces the workpiece deeply to minimize run-out during machining.
- The backup wall reduces the deformation of the workpiece to help machining with high roundness and cylindricity.
- A large opening for discharging chips is provided in the backup wall to prevent troubles caused by accumulated chips.

PU series

Pull lock chuck



- Pull back chuck for external gripping
- Long-term stable accuracy
- Compatible with automation by use of seating confirmation

PUE series

Pull lock chuck for internal gripping



- Stable high precision gripping suitable for finish machining

LU series

Level lock chuck



- Suitable for gripping castings and forgings with draft angle
- Long jaw stroke

POWER WING CHUCK

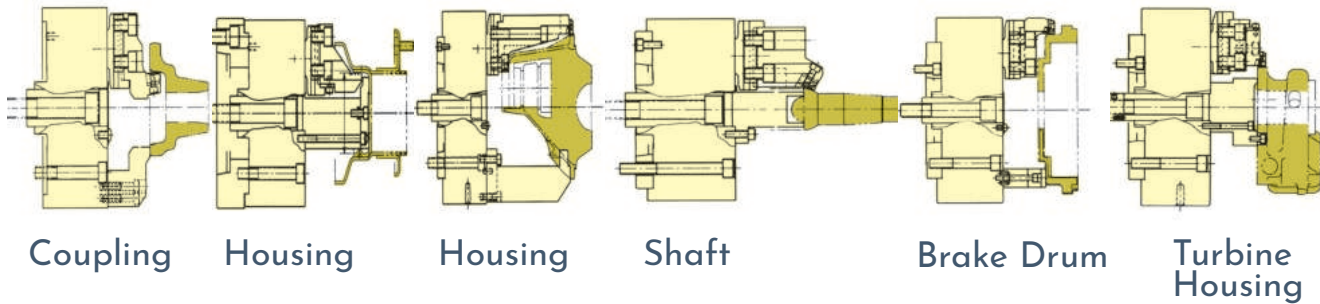
PW series

Pull back of work piece for secure gripping of casting or forging part

- PWC compensating type for rough casting through centre
- Powerful gripping for rough machining and heavy machining
- Equalising jaws
- Gripping tapered part
- Complete sealing



Gripping Example



PWT series

2-jaw pull back action stably grips irregular shaped work

- Draw down irregular shaped materials for steady gripping
- PWT(C) for gripping square or irregular casting or forging work
- Compatible with PW series soft jaws

DUAL LOCK CHUCK

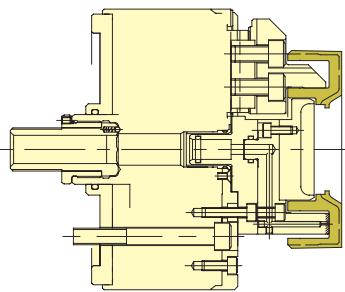
DL200 series

Kitagawa's unique 2-stage gripping. Parallel jaw clamping with a secondary pull back action for work seating, eliminating jaw lift.

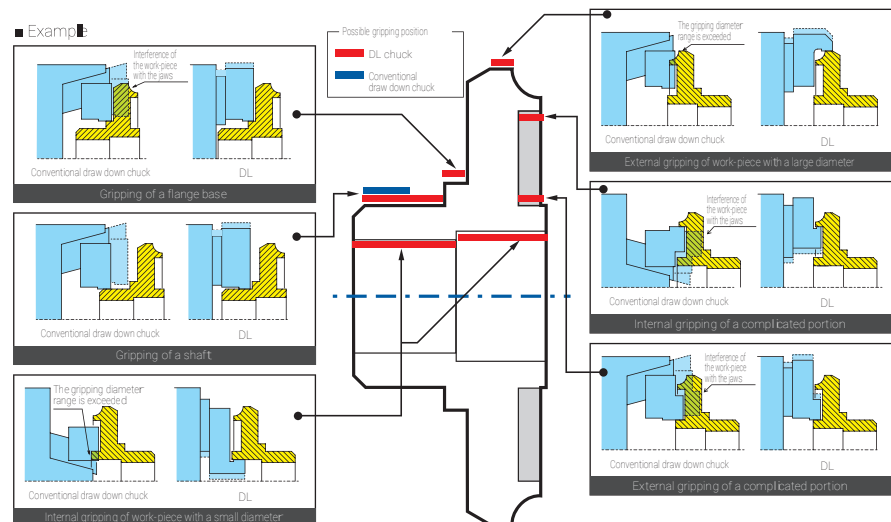
KITAGAWA INTRODUCES THE WORLD'S
1ST CHUCK WITH TWO-STAGE GRIPPING ACTION



Work Example



Gripping Example



INCREASED GRIPPING OPTIONS

- Parallel jaw clamping with secondary pull back action for work seating.
- Jaws do not protrude in the Z axis unlike conventional Pull back chucks. This allows for improved gripping on difficult areas.
- The gripping range is extended up the chuck OD allowing a wider range of workpieces to be machined.
- DL series contributes to improve the productivity by applying flexible chucking for various operations.

IDEAL FOR VOLUME PRODUCTION MACHINING

Dustproof sealed body design for long life, suitable for automation and volume production.

EASY JAW FORMING

Serrated Jaws are used allowing for easy jaw forming by the customer

FINGER CHUCK

FG(T) series

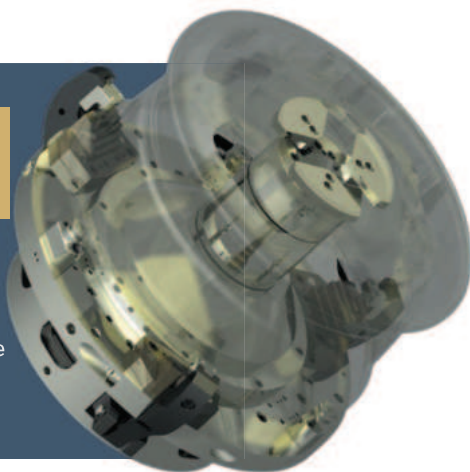
Steady gripping for thin
walled workpieces

- Face clamping to reduce distortion, ideal for thin walled workpieces
- Aluminium rear body for high speed rotation
- Jaws include equalising mechanism to securely grip parts with variable thickness.
- Through hole allows pneumatic accessories



FG-V series

Finger
chuck for
automotive
wheels



FG-L series

Kitagawa
standard light
weight body
finger chuck



FG-M series

The floating
mechanism
ensures firm
chucking



FG-Q series

Quick change
of fixtures for
various wheel
sizes



HYDRAULIC CYLINDERS

From standard to advanced type, a recognised line-up of high performance cylinders accommodates every KITAGAWA Chuck.

When selecting the combination of chuck cylinders, please contact us.



SS series

Compact Style
Hydraulic Cylinder with
Open Centre



S series

Large Thru-Hole High
Speed Hydraulic
Cylinder with Open
Centre



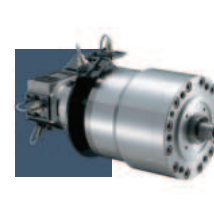
S-L series

Large Thru-Hole High
Speed Hydraulic
Cylinder with Open
Centre



F series

High Speed Hydraulic
Cylinder with Open
Centre



YW-R series

Double piston
cylinder



NEW

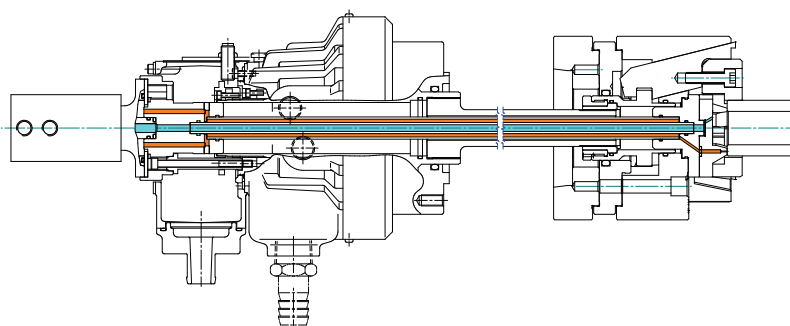
SR Series

NEXT-GENERATION HYDRAULIC
CYLINDER WITH LARGE THROUGH-HOLE

The best suitable design
for Kitagawa power chuck

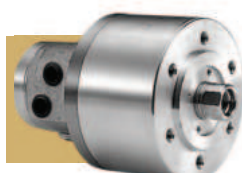
Special Solution

Kitagawa cylinders can be customized for
Air Seating, Through Coolant and Air Blast
requirements.



M series

Compact Style
Hydraulic Cylinder
with Closed Centre



Y-R series

Hydraulic Cylinder
with Closed Centre



Y-RE series

Hydraulic Cylinder with
Closed Centre



AY-R series

High Speed Air
Cylinder with Closed
Centre



YS series

Stationary Cylinder



The Application Research Group has expertise designing, engineering and manufacturing an extensive range of work holding and tooling for turning or prismatic applications.



NEEDS ANALYSIS

THE APPLICATION RESEARCH GROUP REVIEWS YOUR WORK HOLDING PROJECT TO GAIN AN IN-DEPTH UNDERSTANDING OF THE APPLICATION.

CONCEPT REVIEW

AFTER THE REVIEW, WE PROVIDE AN ENGINEERING CONCEPT TO SOLVE THE WORK HOLDING CHALLENGE.

DESIGN & ENGINEERING

ONCE THE FINAL CONCEPT IS AGREED UPON, DETAILED DESIGNS AND ENGINEERED DRAWINGS ARE COMPLETED.

TIMELY PRODUCTION

THE CUSTOM WORKHOLDING PRODUCT IS THEN MANUFACTURED IN-HOUSE TO PROVIDE A TIMELY AND EFFICIENT SOLUTION.

TESTING & DELIVERY

ONCE THE SOLUTION IS FULLY TESTED BEFORE LEAVING OUR DOORS, THE PRODUCT IS DELIVERED TO OUR CUSTOMER'S FACILITY FOR PARTS PRODUCTION.

THE APPLICATION RESEARCH GROUP IS DEDICATED TO SOLVING PARTS MACHINING CHALLENGES



Concept Design



Engineering



Testing



Custom Manufacturing

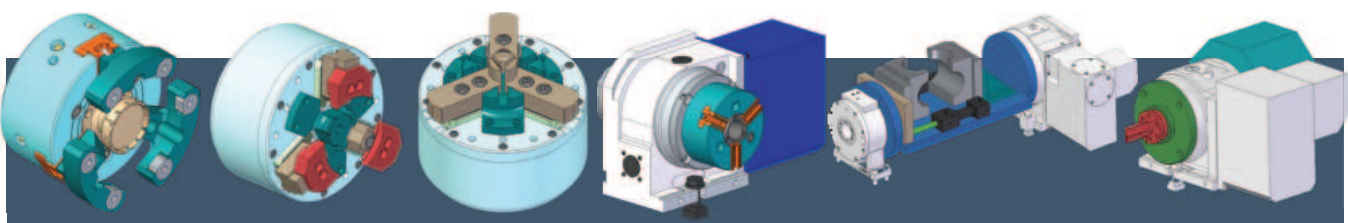


Documentation



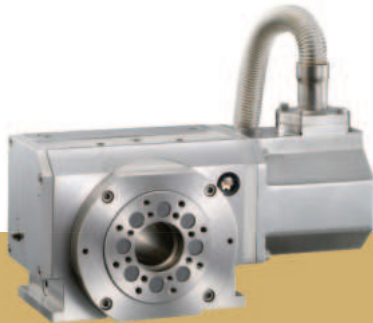
Calculator Analysis

Extensive Custom Engineered Rotational & Stationary Solutions



NC ROTARY TABLE

Wide range of 4th Axis and 5th Axis options. High clamping torque, accuracy and rigidity. Smart design & superior manufacturing techniques ensure we supply compact solutions with multiple through bore solutions.



DM100 · DME100

Wire EDM dedicated NC rotary table



TW2180

High performance twin spindle tilting rotary table



RKT180

High-speed & maintenance-saving tilting NC rotary table



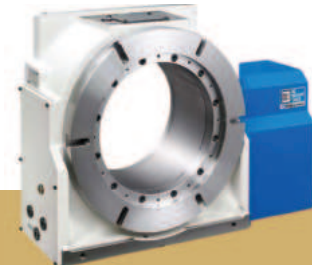
TMX series

Side motor type (horizontal mounting)
High rigidity for heavy cutting



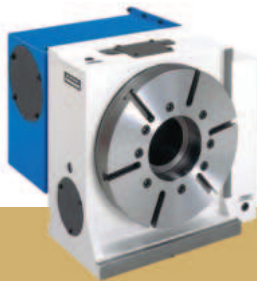
TR series

Side motor type (vertical mounting)
For machining large work pieces



TP series

Mega through-hole NC rotary table
Suitable for machining large work



TBX series

Back side motor type
No-protrusion compact body



TUX TUS series

Top motor type
5 axis with horizontal machining centre



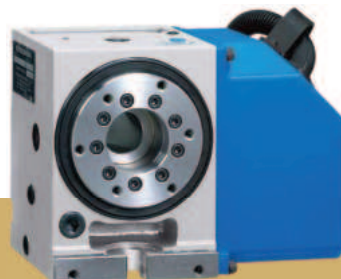
CK(R) series

Ultra compact NC rotary table
The world's thinnest body



RK201

Quick indexing NC rotary table
Roller gear & cam mechanism



RS100

Simplified type
Maximum speed: 83.3min-1



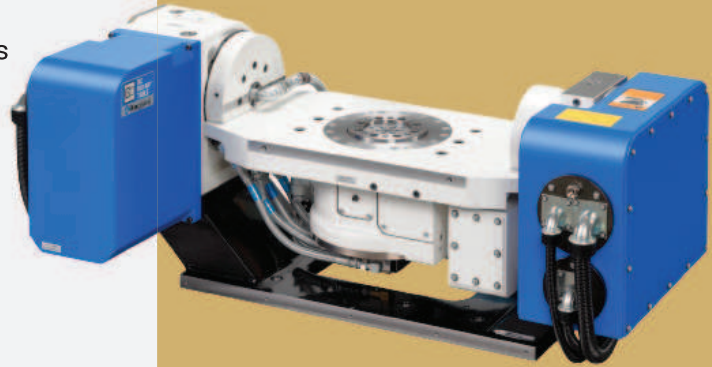
MRT200

Top motor type NC rotary table

RKT 500

Features

- Compact design fits on small machining centers with No.30 taper spindle.
- Integrates large aluminium workpiece machining.
- The roller gear & cam mechanism maintains stable accuracy for a long term and achieves high- speed rotation.
- The built-in rotary joint supports a total of 7 ports: 6 hydraulic/pneumatic ports and 1 coolant port.
- By mounting on ROBODRILL α-D21MiB5 ADV Plus(high column 300 mm), it is possible to be loaded with the maximum workpiece of $\varnothing 500 \times H270 \text{ mm}$.



Specification

Table Dia.	Centre height	Clamping torque		Max. pneumatic pressure	Total reduction ratio		Max.rotating speed		Allowable work inertia	Allowable mass of workpiece	Max. dia. of workpiece	Mass of product
		Rotating axis	Tilting axis		Rotating axis	Tilting axis	Rotating axis	Tilting axis				
mm	mm	N·m	N·m	MPa			min ⁻¹	min ⁻¹	kg·m ²	kg	mm	kg
Ø134	310	600	740	0.7	1/50	1/20	*1 80(75)	*2 70(50)	1.8	100	500	300

*1 When the eccentric torque of work piece is more than 50 Nm, max. rotating speed of the rotating axis becomes the value in ().

*2 When the workpiece mass is more than 50 kg, max. rotating speed of the tilting axis becomes the value in ().

*3 Clamping torques above are at pneumatic pressure of 0.5 MPa.



Roller gear & cam mechanism NC rotary table

MK series

Strong & Compact NC Rotary Table
High-performance and easy-to use

- Performance improved, Powerful clamping torque
- Improved mounting, Reduced effective thickness and improved chip flow
- Wide selection of rotary joints, Multi-purpose hole for automation, High-pressure rotary joints for fixture miniaturization and fast actuation



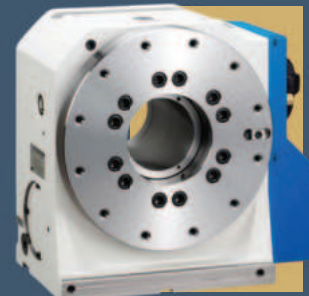
MK350 static Clamping Torque: 6000 N.m



MR series

Compact type NC rotary table

- Powerful pneumatic clamping torque by triple disk brake system
- High speed rotation
- High accuracy
- Built-in rotary joint as option
- Ideal for compact machining centres



GT series

High clamping torque NC rotary table.

- NC rotary table suitable for heavy machining
- The very strong clamping torque was achieved by increased piston area and new clamping mechanism.
- High clamping torque and rigid body allows heavy machining and shorter tact time.
- Built-in rotary joint available



TM series

Multiple-spindle type

- Multi spindle range for multiple work piece machining reduces set up time and increase productivity.
- Mono-block body & compact design
- Ideal for tapping machines with high speed rotation



TT series

Tilting NC rotary table

- Enables 5-axis 5-face machining
- Compact design

NC ROTARY TABLE CONTROLLER

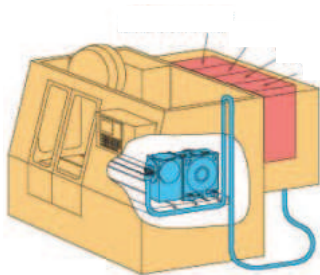
Quinte series QTC100 QTC200 QTC300

- Color LCD enables to show various information: As well as current position, the high-resolution color LCD can show the running program, motor information and more.
- Easy to input a program: In editing program, interactive display screen prevents easy mistakes.



- Reduce indexing time: Adopting EtherCAT enables high speed communication and shortens the time of indexing.
- Easy to manage programs: Input/output programs and parameters can be managed by MMC (Multi Media Card) that is on the market.
- Two types of panels with different operational feeling: Touch panel follows up soft and quick operation.
- Click emboss panel type (CS) offers a sense of security with a firm click feeling.
- Select motors in accordance to a use or environment: There are many variations of motors, and a motor suitable for a particular machining condition can be selected.
- To use extension I/O enables a variety of usage: To use extension I/O option enables to select programs and to output WZRN position and M signal from machines.
- Manual pulse generator is available: Manual pulse generator is available to all models as option.
- Compatible with a remote-control function: Remote control function by serial communication with machine is available as an option.
- Compatible with absolute encoder Custom support

Methods for Controlling NC Rotary Table

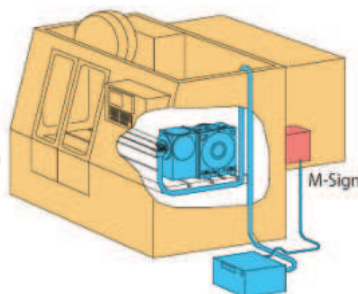


Additional-Axis Method

- NC Rotary Table is controlled as the NC Axis of the machine.
- Interpolation machining is possible with X-, Y- and Z-axis of the machine.
- Program can be controlled on the machine

M-signal Method

- NC Rotary Table is controlled by a separate controller and not as the NC Axis of the machine.
- NC Rotary Table can be fitted with machine with no compatibility for an additional axis, as long as M-signal is available.
- NC Rotary Table can easily be transferred to another machine.



For Quinte controllers Manual Operation Pendant

- Enables to operate NC rotary table with watching its movement closer
Easy holding style with one hand expands operating range
Light weight cable allows high-accessibility to fixtures
- OEL display: The light-emitting character with a high contrast ratio achieves high visibility even in a dark place or machine.
- Smooth touch operating key switches: Achieve smooth operability without moving part in the operation part and key layout by function.
- Easy installation by a strong magnet
Able to be temporarily placed on vertical surface without sudded fall off.
- Able to be additionally installed to quinte MOP is available with Quinte by installing a dedicated cable to Quinte and updating the F/W of Quinte

MANUAL CHUCK



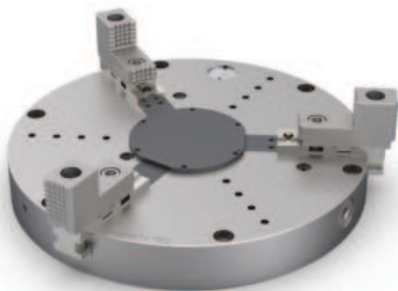
Scroll Chuck SC, JN, JN-T series

- Steel body for high rigidity, high durability and high rotational speed (JN series)
- Cross-guide slideway is adopted so that the chuck can securely grip components even at high speed rotation. (JN type)
- Easy front mounting for NC rotary table
- SC and JN comes with Integrated single piece jaws
- Available with Front and Back mounting

3/4/6-JAW SELF-CENTERING CHUCKS

LOW PROFILE LIGHT WEIGHT TYPE

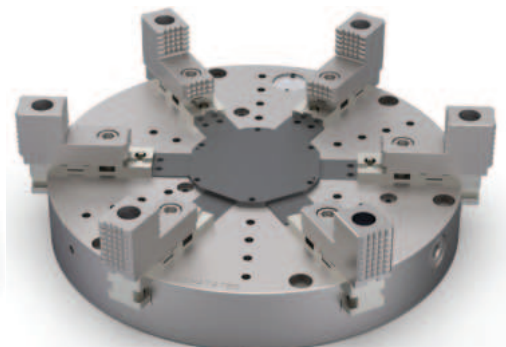
- Chucks used being installed on a tombstone, machining center table, or 5-axis machine table.
- This will not influence the maximum load capacity and height of the workpiece since it is designed to be lightweight and thin-shaped.
- With chip covers for vertical use



3 Jaw



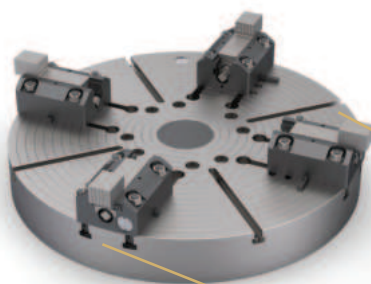
4 Jaw



6 Jaw

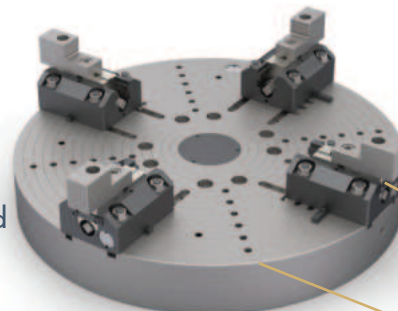
FACE PLATE WITH BORING MILL JAWS

- Cast iron body
- There are 2 types of solid and 2-piece jaw for boring mill jaws.



Solid jaw type BM jaws

T-SLOT applied on surface



2-piece jaw type BM jaws

Tap hole applied on surface

STATIC CHUCK

AS series

Pneumatically operated stationary chuck
Can be used as an alternative to fixture



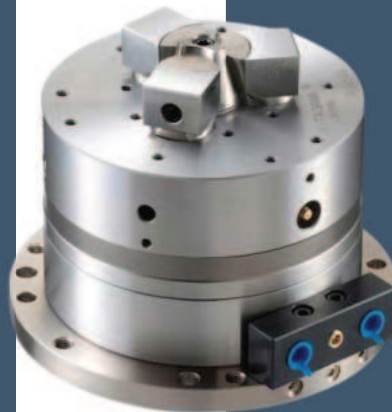
- Small and lightweight design with built-in air cylinder
- Easy mounting by air piping
- Hollow structure optimal for bar workpiece and air blow
- Standard Soft Jaws for Kitagawa Power Chuck are used.
- Lock valve unit ensures constant and regular gripping force in all machining conditions.

AT series



Secure gripping of all types of component
Can be used as an alternative to a fixture

PUES06



Pull back and clamping the inner diameter of workpiece

PWS06



Suitable for 3 to 5-Axis machines
Cost reduction achieved by built-in Cylinder

PLS series



Stable cutting is guaranteed through the high precision and exceptional gripping performance

YS MODULAR SYSTEM

Kitagawa Pneumatic or Hydraulic static cylinder to convert your rotary workholding systems for use on vertical machining centres

- The YS modular system utilises a static cylinder that can be mounted onto your machine bed. The static cylinder itself is extremely low-profile and until it is utilised it will have minimal impact on your machining envelope therefore allowing it to remain in place until it is required.
- Once the static cylinder is required you have many workholding options available from a three jaw power chuck, collet chucks or even expanding mandrels. Depending on your machine size we can provide cylinders to actuate 6" (165mm), 8" (210mm), or 10" (254mm) chuck sizes.
- The system can utilise Kitagawa equipment or any third party power workholding systems requiring a pull or push actuation and the cylinder can be operated pneumatically or hydraulically depending on the workholding

Machining centre mountable static cylinder with multiple work holding options



1

Low-profile Kitagawa static cylinders, as low as 77.5mm high on the Z-Axis can be easily mounted to milling and drilling machines.

4

Three base sizes available, to operate up to 10" chuck sizes and can be arranged in a multiplate configuration for automation set-ups.

2

System can be adapted to almost any rotary power chuck system to enable the workholding to be used for milling operations.

5

Up to 20mm of piston stroke allows adaption to a variety of workholding systems.

3

Delivering up to 20.8kN pull force with pneumatic actuation or 51.9kN pull force with low pressure hydraulic actuation (1.5MPa) within the series

6

Multiple standard workholding options available, three jaw chuck for plate shaped workpieces, collet chuck for bar shapes and expanding mandrels for low-pressure internal gripping.

3 standard modular system setups that can be supplied



YS-BR06-001A



YS-DHP52-001A



YS-KEM-001A

CB PRODUCTION SYSTEM

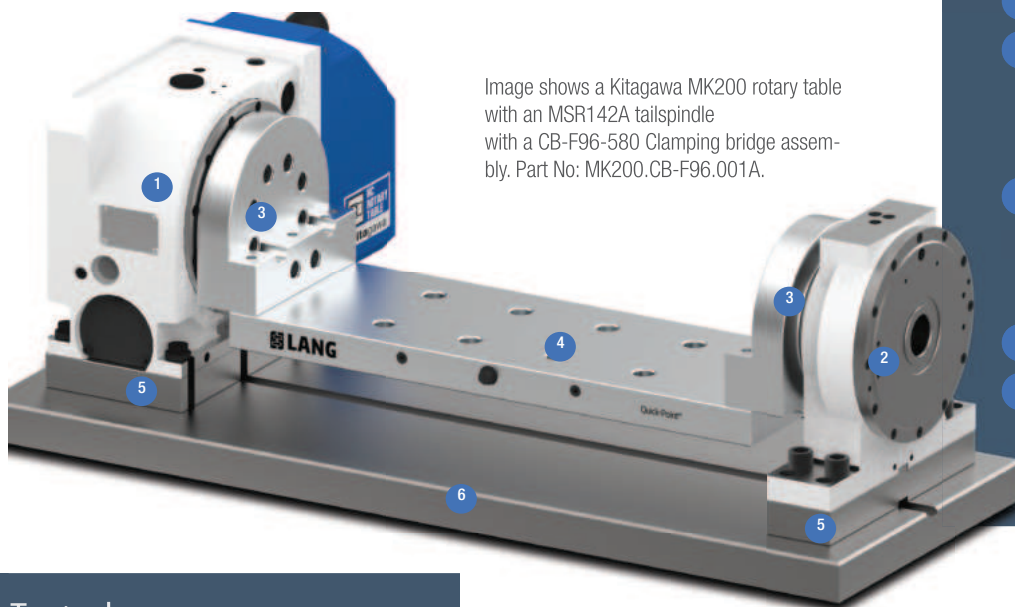


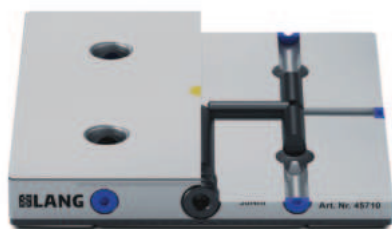
Image shows a Kitagawa MK200 rotary table with an MSR142A tailspindle with a CB-F96-580 Clamping bridge assembly. Part No: MK200.CB-F96.001A.

- 1 Kitagawa Rotary table
- 2 Kitagawa Tail Spindle
- 3 Precision ground adaptors (manufactured by LANG Technik)
- 4 Clamping Bridge (manufactured by LANG Technik)
- 5 Riser Plates
- 6 Sub-Plate

Typical component parts of a CB production system

Quick•Point®

High precision manual zero-point technology



Built-in Quick•point® zero-point systems

In order to maximise your machining envelope and to reduce your setup time the CB production systems all have multiple built-in Quick•point® either on 52mm grid or 96mm grid systems manufactured by LANG Technik in Germany.

Robust, wear-free mechanism for highest longevity

A patented rod system inside the plate guarantees a repeatability of less than 0.005 mm. Quick•point® trunnion beds are actuated by one or two screws to ensure simple and easy operation.

Holding force of up to 6,000 kg

The picture shows a cross-section of the Quick•point® bore where the clamping studs are pulled down by lateral clamping rods. With an actuation torque of only 30 Nm a holding force of up to 1.500 kg per clamping stud is achieved. As an example, this results in a holding force of 6.000 kg when clamping four clamping studs. If more clamping studs are used (e.g. using your own or bigger fixtures), the holding force is increased accordingly.

Flexibility has no limits!

The modularity of the system allows for the expansion of existing Quick•point® fixtures at any time and guarantees fast changeovers with the highest precision.

Advantages of having built in Zero-point plate in a trunnion

Cost effective

Due to the nature of many trunnion bed applications being customised specifically to suit a customer the addition of a zero-point system being built-in to the CB clamping trunnion bed has not increased the overall cost of the entire system therefore saving you from ordering a trunnion bed AND a dedicated zero-point system.

Maximise your machine envelope

CB clamping trunnions with a built-in zero-point system means you have saved at least 27-56mm of the machining envelope in the Z-axis enabling you to have larger workpieces within a smaller area. The LANG Quick•point® is one of the lowest zero-point systems on the market but many other zero-point systems are far taller, especially if pneumatic.

Lightweight

Simply due to the built-in nature of the zero-point system there is an immediate reduction in weight of the entire assembly which reduces loading on your machining centre.

Interchangable

The entire trunnion bed can be removed and replaced with a different format of Quick•point® system or with a simple dedicated blank trunnion, making this the most versatile trunnion system on the market.

Manual Zero-point advantages

The manual nature of the Quick•point® zero-point exchange system assists in keeping your total costs to a minimum and reduces any potential problems that can occur with pneumatic or hydraulic systems.

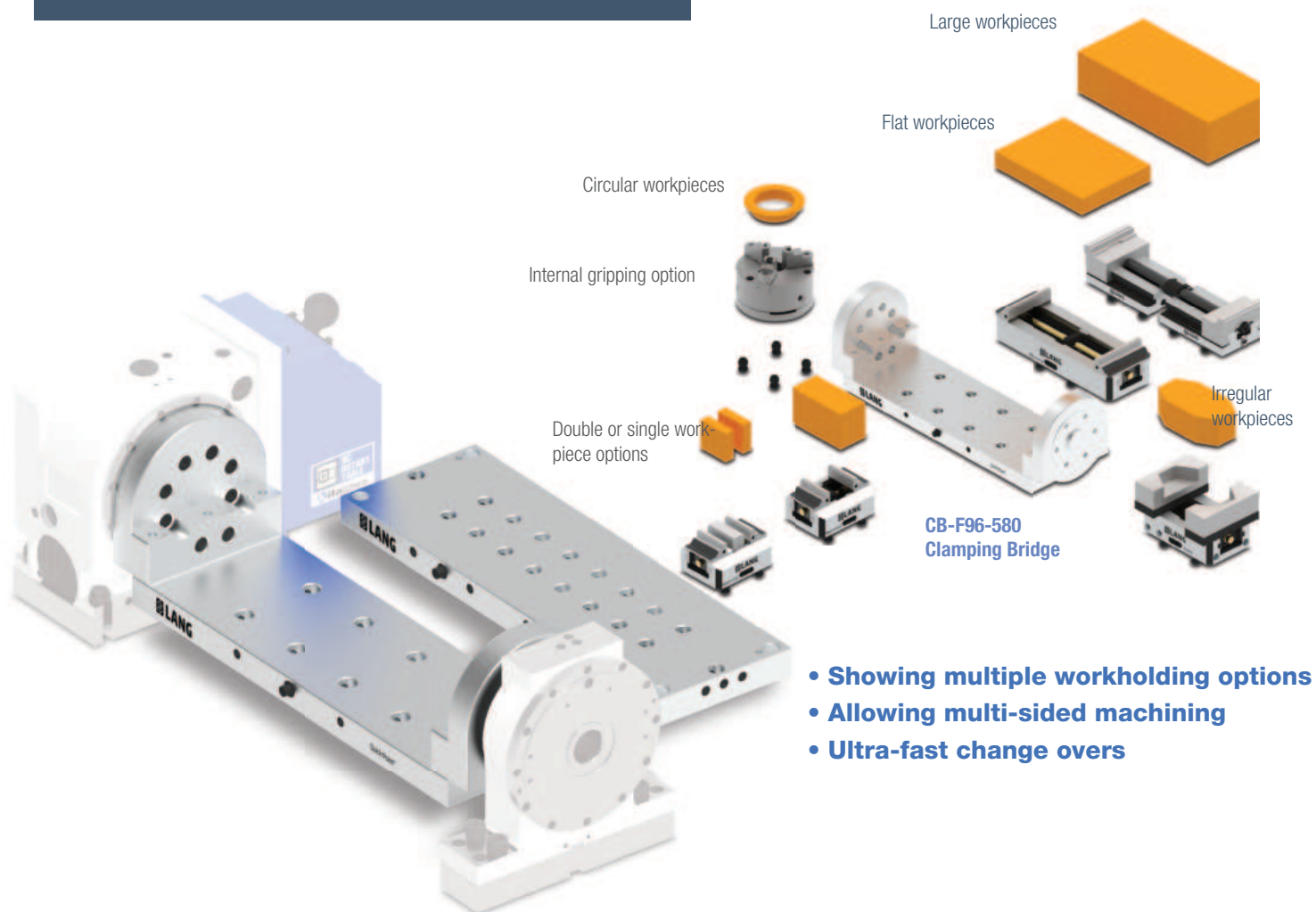
Adaptability

Allows for greater flexibility to meet specific customer requirements and provides the capability for simultaneous machining of multiple workpieces.

Rigidity

The very nature of the design of a trunnion system gives a very rigid platform for machining.

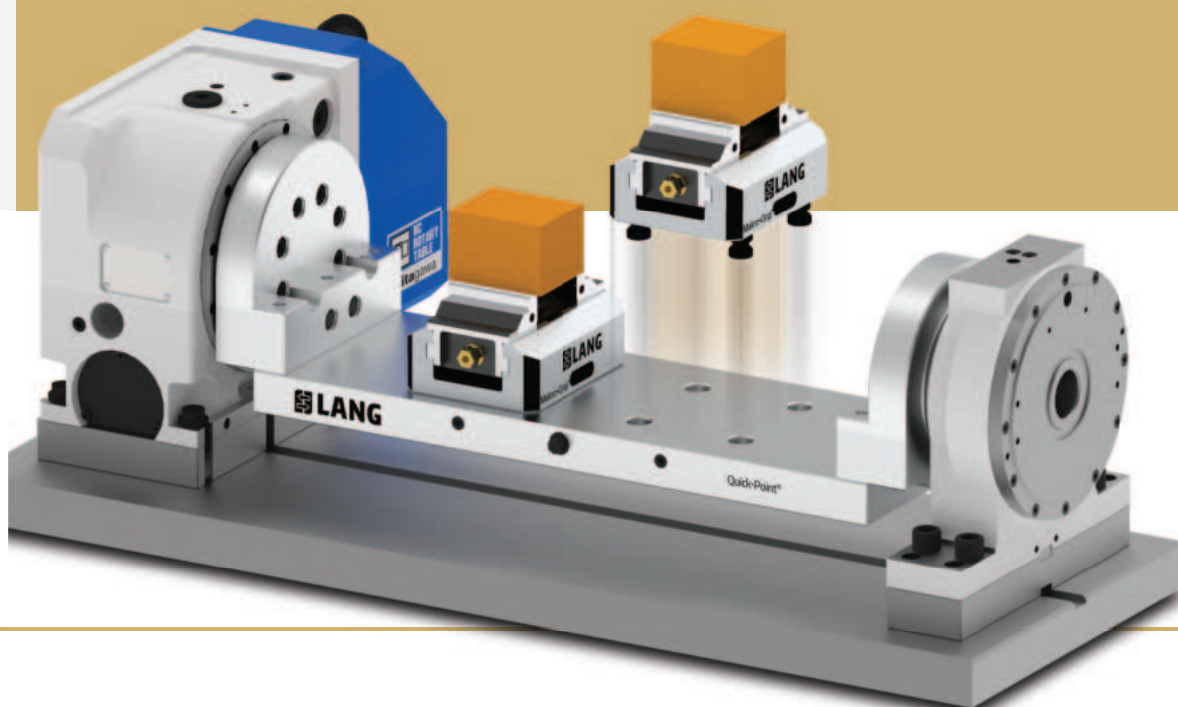
Example CB Production system Trunnion



CB-F Type

Off/On-Centre Single-Sided Clamping Trunnion System

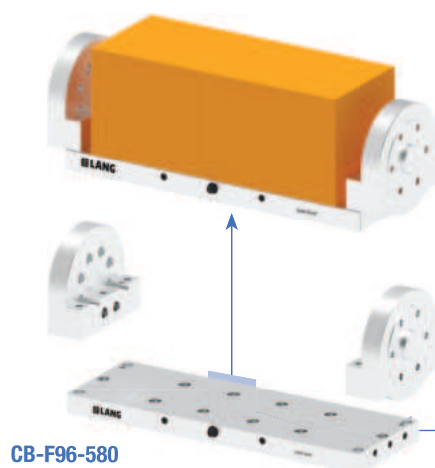
- 1 Very rigid system with a total assembly rotary clamping torque of 1,020Nm.
- 2 High cutting torque of 270Nm allows for rapid machining of complex shapes
- 3 Quick•point® holding force up to 6,000kgs ensures your work holding is secure.
- 4 Built in Quick•point® reduces the overall weight therefore lowering the moment of inertia.
- 5 Clamping trunnion allows for excellent tooling access and multiple workholding options.
- 6 Precision ground adaptors ensures high repeatability and for multiple trunnion positions or types



Option: Change clamping bridge from Off-Centre to On-Centre

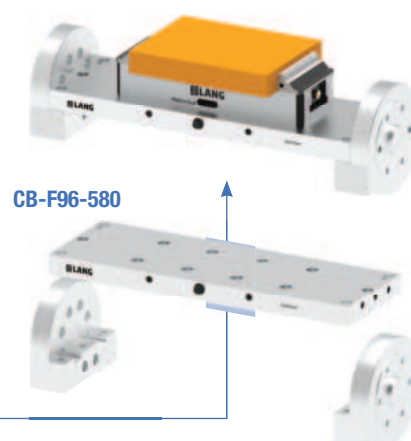
Maximum 480mm x 192mm x 165mm Work Piece*

Allows for flat workpieces to be machined



CB-F96-580

Detach clamping bridge from base of adaptor flanges



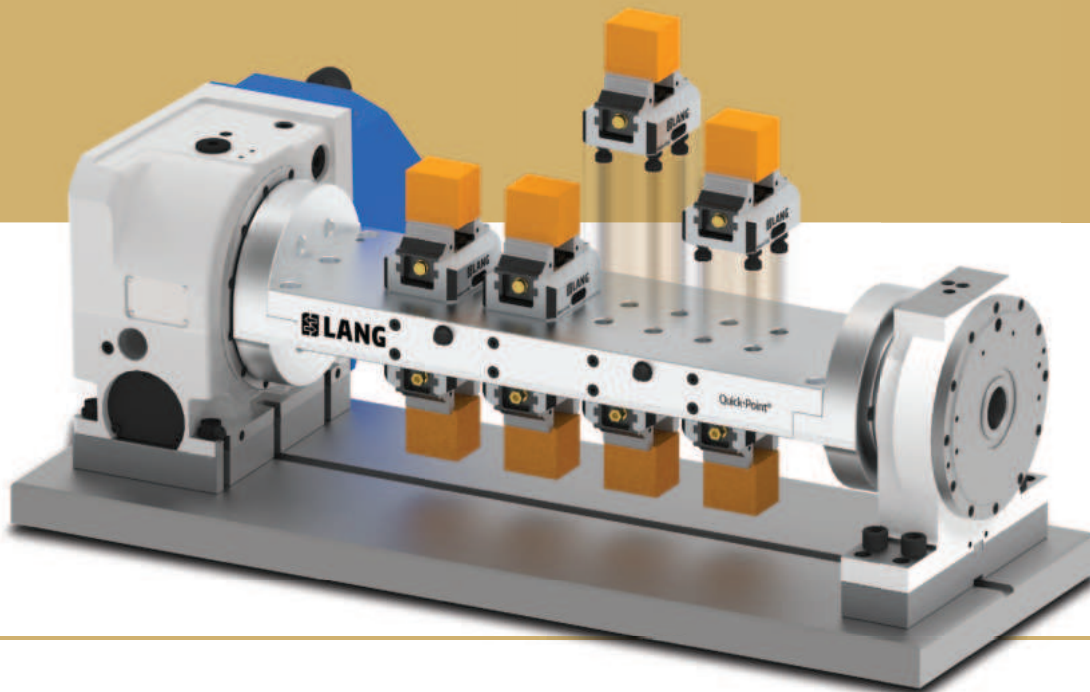
CB-F96-580

Attach clamping bridge on top of adaptor flanges

CB-N Type

On-Centre Dual-Sided Clamping Trunnion System

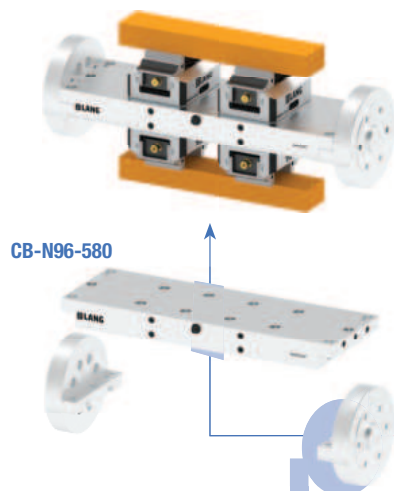
- 1 Very rigid system with a total assembly rotary clamping torque of 1,020Nm.
- 2 High cutting torque of 270Nm allows for rapid machining of complex shapes
- 3 Quick•point® holding force up to 6,000kgs ensures your work holding is secure.
- 4 Built in Quick•point® reduces the overall weight therefore lowering the moment of inertia.
- 5 Clamping trunnion allows for excellent tooling access and multiple workholding options.
- 6 Precision ground adaptors ensures high repeatability and for multiple trunnion types



Option: Change clamping bridge from a 96mm Quick•Point® to a 52mm Quick•Point®

Two large workpieces

Four workpieces with 52mm Quick•point® Clamping bridge



Detach 96mm Quick•point® clamping bridge from base of adaptor flanges



Attach 52mm Quick•point® clamping bridge to base of adaptor flanges

QD-CRL

Quick Change Series Power collet Chuck for Bar Machining

- This system mounts directly to the lathe spindle to ensure a consistent mounting without the need for correction.
- Klamp QDCRL collet chucks are suitable for spring, varibore and rubberflex collets increasing its flexibility. Varibore and rubberflex collets allow rough, unfinished bar to be machined in the first operation and spring collets can be used for high accuracy in the second operation.
- Workpiece remains in a fixed position during actuation allowing for precise z-axis positioning. A tapered sleeve is pushed forward, compressing the collet and gripping the workpiece.



Ultra-Fast 10 Second Collet Changes



DKF

Fixed Length Series Power Collet Chuck for Bar Machining

First & Second Operation Collet Chuck

Designed with a fixed length actuation system that ensures the collet is held stationary. Allowing the collet chuck to be used in bar feeding operations and highly accurate second operations. Klamp DKF collet chucks are suitable for collets which have a $\pm 0.5\text{mm}$ gripping range.

Fixed Length Collet

Workpiece remains in a fixed position during actuation, allowing for precise z-axis positioning. A tapered sleeve is pushed forward, compressing the collet and gripping the workpiece.

Short Body/Wide Range

DC Varibore collets allow for a compact body design maximising the lathe work envelope. Gripping capacities of the series range from 4mm to 65mm.

Quick & Easy Mounting

Klamp collet chucks mount directly to the lathe spindle or use a precision adaptor plate to ensure a consistent mounting without the need for correction. The precision fit of the Klamp collet chuck enhances the rigidity of the overall system. The need for adjustment is minimal, meaning less machine down-time.

Ultra-Fast 10 Second Collet Changes



klamp



KEM

Power Expanding Mandrels for Lathes

Quick & Easy Mounting

Klamp Klamp expanding mandrels can mount directly onto the lathe spindle. Interchangeable with most standard chucks, installation is quick and easy. The need for adjustment is minimal, meaning less machine down-time.

High Accuracy & Rigidity

Pull-back design draws the workpiece securely against a part locator for 'dual-contact' rigidity.

Modular Design

All Mandrel models have a common flange configuration, enabling full interchangeability with all back bodies.

Parallel Expansion for Optimum Accuracy and Grip Force

The Klamp double-angle design provides parallel sleeve expansion, ensuring full-length part contact and positive release when the part is unclamped.

Internal Clamping Offers Full Part Access

Allows for full access to the entire external profile of the workpiece so all external diameters can be turned in a single operation, guaranteeing perfect concentricity.

Two Regular Sleeve Types Available



Standard Sleeves

Cost effective sleeves where the expander pin is outside the sleeve body, with either a 0.5mm or 0.8 gripping range, suitable for through bores and operated with a part locator.



Flush Sleeves

Expander pin is inside/level with the sleeve body with either a 0.5mm or 0.8 gripping range, suitable for blind bores and enables the sleeve to grip as much of the internal diameter as possible.

Customised Systems Available



Dual sleeves extended length sleeves, 1/2 length sleeves and larger diameter sizes are available with up to 635mm ID grip-ping for supporting a wide range of parts.

Manually Actuated Expanding Mandrels Heavy Duty Gearing

The Klamp KEM-MA provides a high gripping force using a manually actuated mandrel. These models utilise the same precision mandrels, expanding sleeves and locators as our CNC Expanding Mandrels. Thus, giving you the ability to have an internal gripping solution that can be rapidly deployed with whatever standard workholding system your machine(s) has



Load the KEM-MA manual actuator into a three jaw or collet chuck, gripping on the 38mm location spigot.



Actuate the power chuck to ensure KEM-MA is locked in position, adjust T.I.R as required.



Load a workpiece's internal diameter over the sleeve and actuate the mandrel using the key provided.



KEM-MA

Power Vises

Compact Design

Power vise (Jaw width:125mm) Hydraulic vise (Jaw width:125 mm)

The overall length is ultra-compact with the largest jaw opening in products of the same class!

The vise overall length is fixed regardless of the jaw opening position. With the low height body, the jaw height is the most excellent in products of the same class. A wide machining area can be ensured.

Work lift-up Reduced to 0.015 mm or less!

A binding beam method (work lift-up prevention mechanism) which has a pull-in effect in clamping has been adopted. This mechanism has reduced work lift-up to 0.015mm or less.



Chip Guard Cover

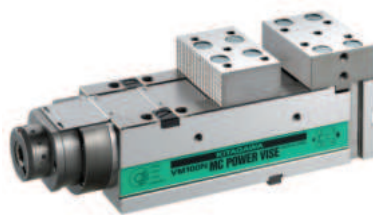
The attached C-caps can be mounted on the top-face bolt holes of both jaws, which prevents from gathering chips and cutting water.

Easy Jig Mounting!

Tapped holes are provided on the top faces of both jaws. Those make jig mounting easy, enabling various kinds of machining operations.

Firm, Stable and Easy Clamping!

A maintenance-free enhancement mechanism, the "toggle joint mechanism", has been incorporated, thus realizing the stability in spite of a high clamping force. The preset system makes clamping force adjustment easy. In addition, manual clamping without enhancement is possible, which has extraordinarily improved the usability. A stable clamping and reliable positioning.



VM-N series

MC power vise Multi-use type

For vertical & horizontal mounting, inside and outside clamping



VE-LWN series

Lowest profile type ultra-long steel vises
Maximum jaw opening in the class



VQX-N series

MC power vise
Everlasting standard



MV125N

Multi-power vise - vertical 4-piece integrated type
Vertical integrated vise without angle plate

5-AXIS WORKHOLDING

- Unparalleled part access
- Cost-efficient preparation
- Strong dual-face clamping
- Superior bending rigidity
- High positioning accuracy
- Multiple workholder options
- Manual & automatic exchange option
- 10-second work-holder exchange
- Versatile mounting options
- Seating detection & air blow
- Suitable for automated process



The Three Stages of Process Improvement Using Swift Klamp

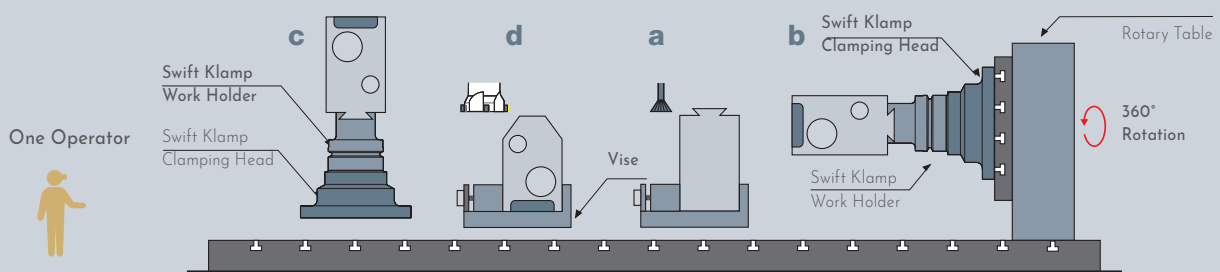
Higher efficiency - produce more parts per shift.
Keep your machine making chips - and profits!

1st Stage

- Easy work-piece mounting.
Less machine operator training
- Simple fixture - reducing set up time
- Increase machine productivity

3-axis Machine
with Rotary Table
Swift Klamp Workholding:

- 2 Pcs Clamping Heads
 - 5 Pcs Work Holder
 - 2 Pcs Standard Vices
- circa. € 9,500 investment



a. Dovetailing Process b. 1st, 2nd, 3rd and 4th Process c. 5th Process d. 6th Process & Dovetail Removal

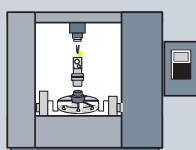
2nd Stage

5-axis
Machine

Swift Klamp Workholding:

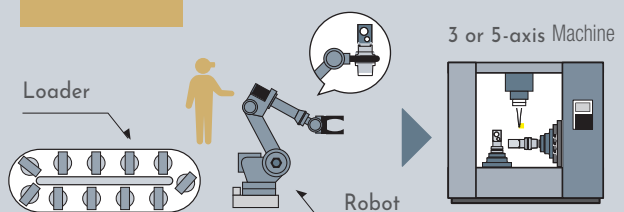
- 1 Pcs Clamping Head
 - 5 Pcs Work Holder
- circa. € 4,500 investment

One Operator



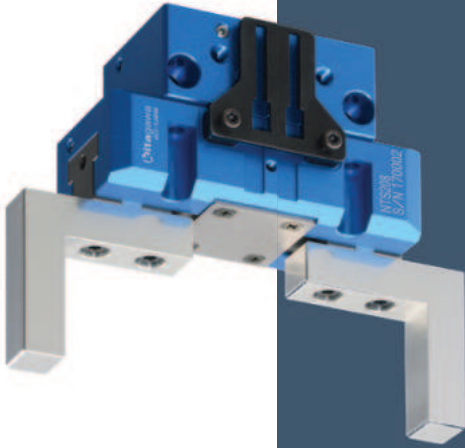
3rd Stage

Automation
- Lights Out Operations



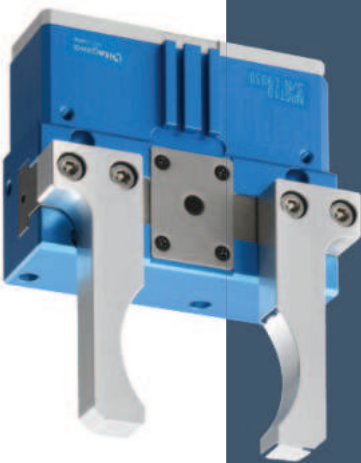
Robot Grippers

2-jaw parallel gripper



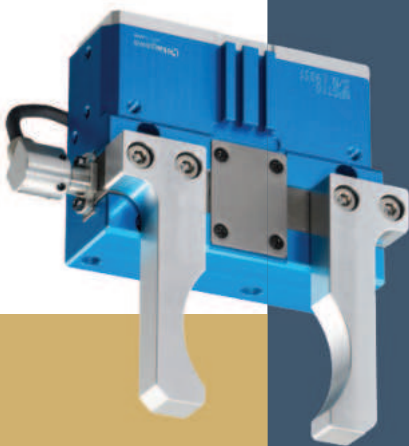
NTS2 series

- Swarf protection and maintenance improved
- High gripping force for stable gripping of heavy work piece
- Lightweight and compact body not limiting load capacity of robot
- New mounting style for smaller protrusion compared with conventional models
- Improved gripping accuracy due to highly rigid body



NPGT series

- The thin body enables flexible system design.
- The high restoration accuracy by utilizing workholding technology of lathe chucks
- NPGT achieves higher gripping force than the similar stroke model.
- Variety of options including several detection methods and the model with a through hole (NPGT10, NPGT12, NPGT16)



NPGT_S series

- Possible to measure gripping length
- The thin body enables flexible system design.
- The high restoration accuracy by utilizing workholding technology of lathe chucks.
- NPGT achieves higher gripping force than the similar stroke model.

3-jaw parallel gripper



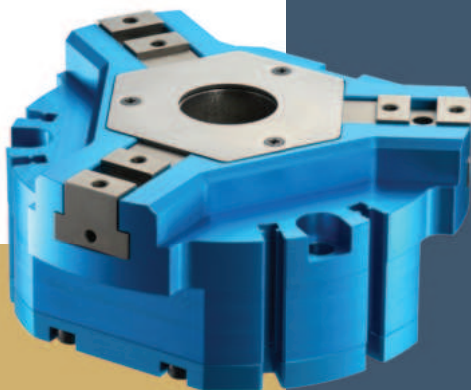
NTS3 series

- Swarf protection and maintenance improved
- High gripping force for stable gripping of heavy work piece
- Lightweight and compact body not limiting load capacity of robot
- New mounting style for smaller protrusion compared with conventional models
- Improved gripping accuracy due to highly rigid body



NPG3 series

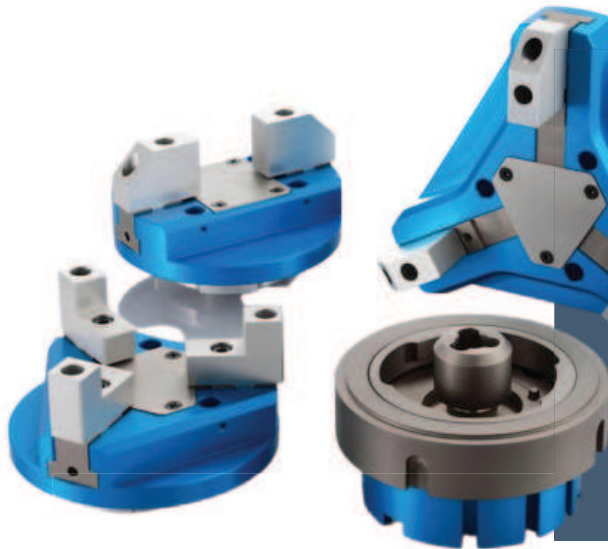
- Ideal for machining environments with cutting chips, dust, coolant fluid, etc. (IP67)
- Large ID gripping force
- Unique sealing structure reduces the number of pipes



NTB series

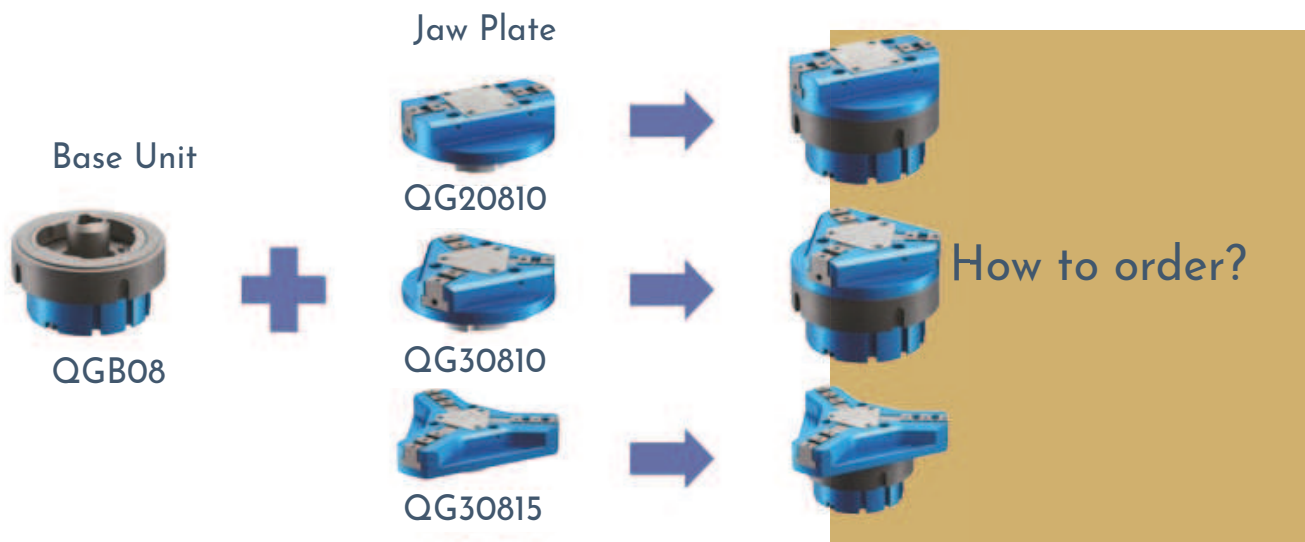
- Swarf protection and maintenance improved
- High gripping force for stable gripping of heavy work piece
- Lightweight and compact body not limiting load capacity of robot
- New mounting style for smaller protrusion compared with conventional models
- Improved gripping accuracy due to highly rigid body

Easy changeover gripper



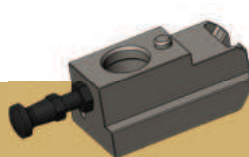
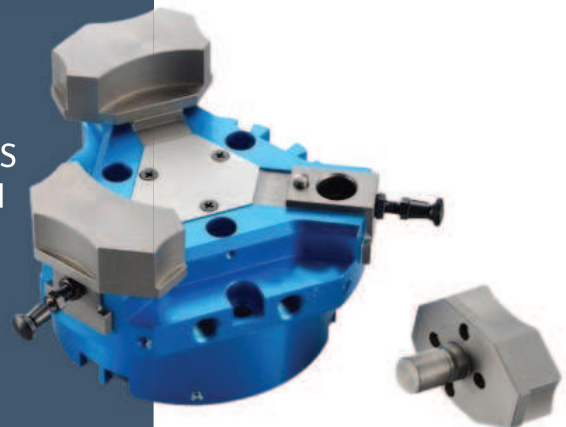
QGB(L) series

- Quick jig exchange with easy operation just to loosen the lock nut
- Lightweight and compact
- Easy retrofit since it is manual exchange
- No need for teaching or adjustment at jig exchange

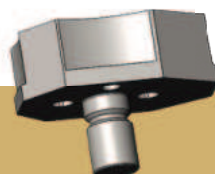


NTS-QM series

- Easy jaw exchange
- Modification from an existing NTS gripper is possible.
- Just by replacing the standard master jaws of your NTS gripper with the quick master jaws, your NTS gripper will become a quick jaw change gripper
- One set of hard jaws supports workpieces from 20 to 60 on NTS309 and 23 to 79 on NTS311.



Quick jaw change base jaws



Quick Hard Jaws



Quick Soft Jaws

Accessories

LARGE POWER CHUCK

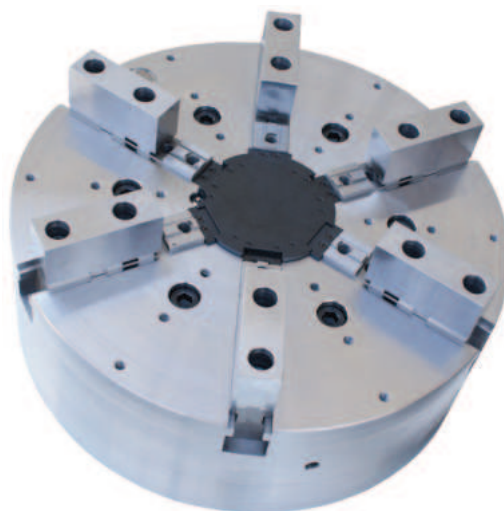
6-JAW FLOATING CHUCKS

FLC series

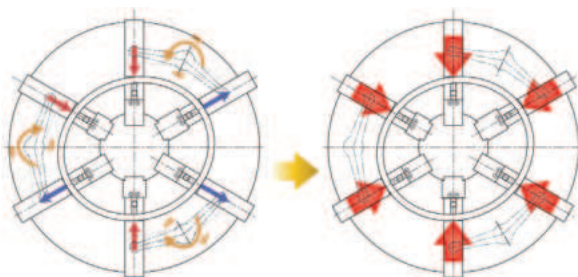
- Long jaw stroke 86mm (DIA)
- Centrifugal force compensation
- With chip cover for vertical use

FCH series

- Jaw stroke 28.6mm (DIA)
- Pitch 7mm square serration
- With chip cover for vertical use



12-jaw Floating spec with pendulum jaw: Each floating jaw is attached with a pendulum jaw and clamped equally at 12 points to realize greater improvement in circularity.

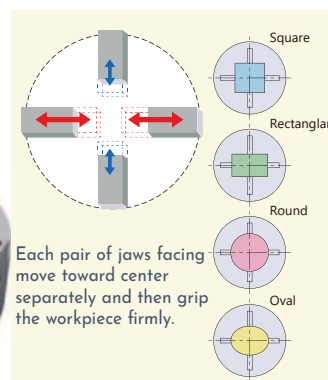
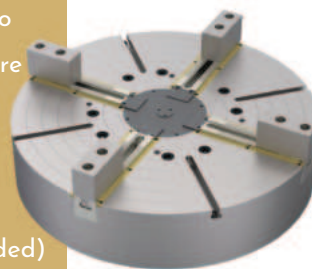


Floating function

- Floating function included inside the chuck.
- Allows for equal clamping at 6 points in the 1st process of ring materials with low circularity.

4-JAW (2+2) POWER CHUCKS

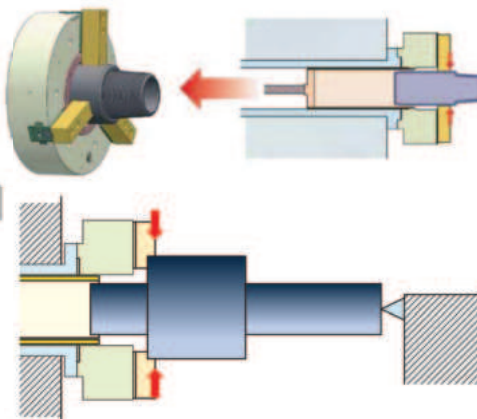
- Irregularly shaped parts can be gripped securely due to the centripetal action of the two parts of jaws which are mounted crosswise.
- With chip covers for vertical use
- Long jaw stroke, Large gripping range
- One set of soft jaws included (Hard top jaws not included)



POWER CHUCK WITH EXTRA LARGE BORE THROUGH HOLE



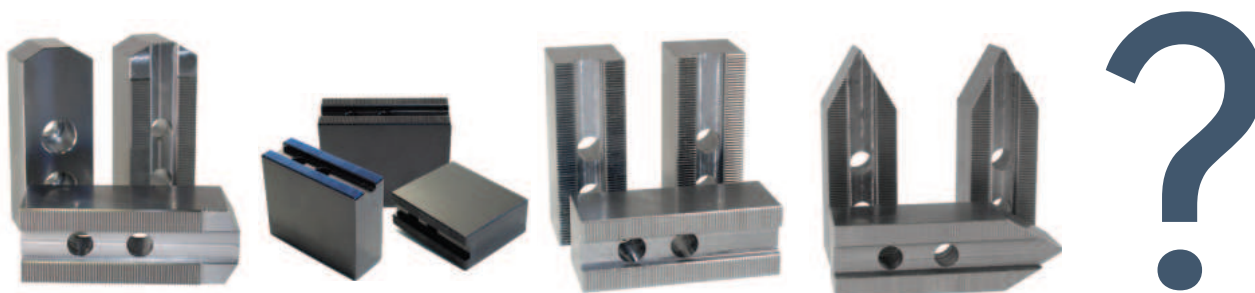
Optimal for short-length
shaft machining



The workpiece is partially stored in the spindle, and the nearby part to be machined is held firmly.

The end part of workpiece is stored in the chuck, and large diameter part is clamped so as to allow for stable machining.
In addition, long shape workpiece can be machined with smaller machine.

Are you searching for the right jaws, but don't know which one will fit the best for you?



Top jaws, stepped jaws, reversible jaws, unstepped jaws, segment jaws or other type?

We have the right solution for you: **Our Jaw Finder.**

The Jaw Finder supports a wide range of manufacturers. With few clicks choose the manufacturer and type, and the Jaw Finder will show you the right accessories. You can also search by the dimensions of the existing jaws.

A screenshot of the Kitagawa Europe website. The header includes the Kitagawa Europe logo, a search bar, and navigation links for Home, Products, News, Jaw Finder, and Contact. The main content area shows a search bar with the text "Quick search for jaws or chuck, tap here". Below the search bar are two buttons: "Select by chuck" and "Select by dimensions". To the right of these buttons is a language dropdown menu set to "English". Below the buttons are two dropdown menus for "Manufacturer" (set to "Kitagawa") and "Series" (set to "B-200").

Online jaw selector.

A screenshot of the online jaw selector interface, labeled "1". It shows the same search bar and buttons as the previous screenshot. The "Manufacturer" dropdown is set to "Kitagawa" and the "Series" dropdown is set to "Please choose".A screenshot of the online jaw selector interface, labeled "2". It shows the same search bar and buttons as the previous screenshot. The "Serration" and "Recess" buttons are highlighted in blue.

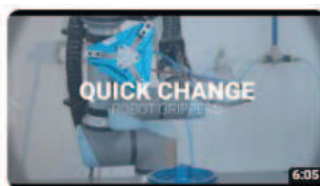


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Get regular updates right on you feed.



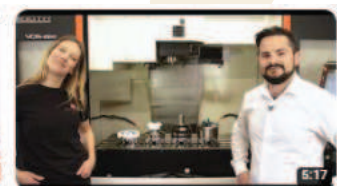
BR and BRT next generation lathe power



Kitagawa Europe Quick Change Robot



Kitagawa Europe Robot Gripper



Kitagawa Europe Focus Channel - YS



Europe Focus Channel - Coming



Kitagawa Europe CB Production System
1.8K views • 1 year ago



Kitagawa Europe Focus Channel - Jaw
Finder advert



Kitagawa Europe Focus Channel - MK s
Unboxing



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NOTES

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NOTES

[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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ENGINEER YOUR FUTURE

SCAN TO
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