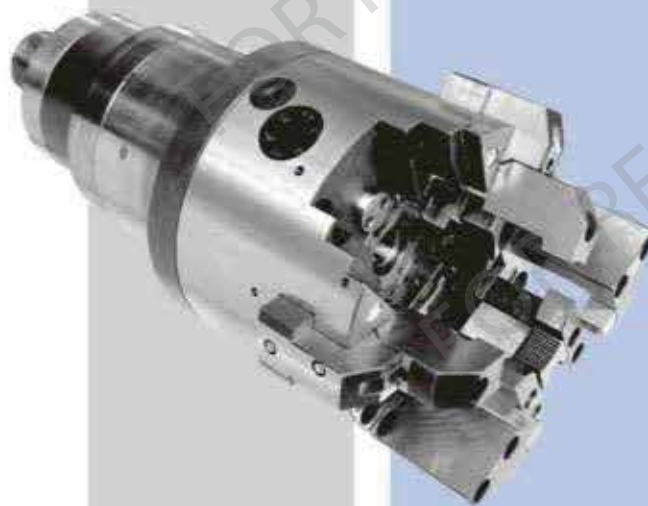




WORKHOLDING SPECIALS GRIPPING SOLUTIONS



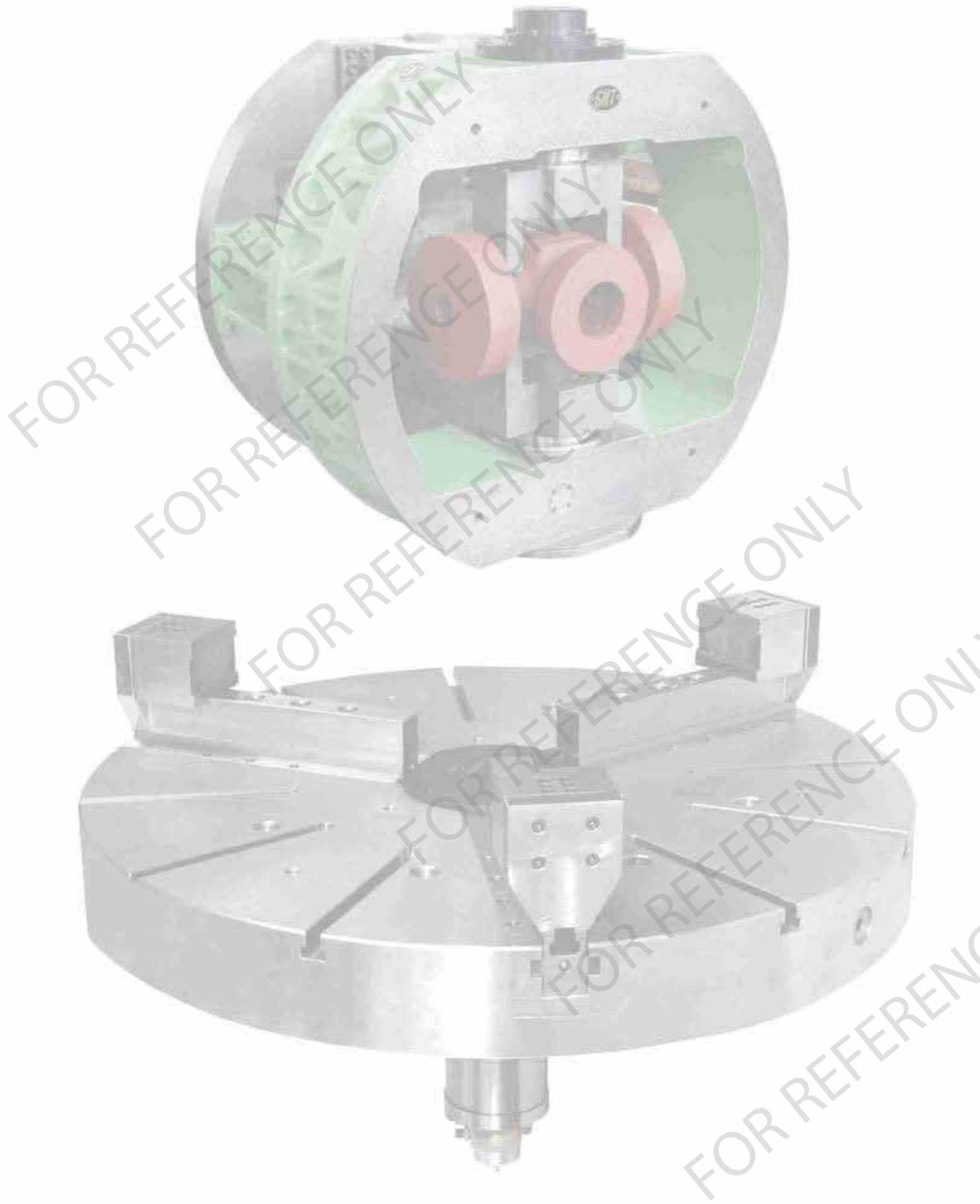
PER CHUCK

GFM CHUCK

TWIST FINGER CHUCK

FRICTION WELDING CHUCK

UNIVERSAL BALL LOCK CHUCK



The Main Plant In Pallikaranai



Efficient production demands efficient work holding solutions. Over the last few years, improved and proven versions of CNC lathes, innovative machines incorporating the latest developments that permit a variety of workpieces to be turned economically, have been developed and introduced in the market.

To enable the user to take full advantage of the possibilities offered by the machines of today, GMT chucks and chuck actuators have been designed to meet the latest technical requirements. The range and complexity of the machining required in practice from odd jobs to mass production requirements, call for large adaptation and versatile chuck designs. In addition to standard chucks, GMT offers custom-built chucking systems for special applications.

These specially designed Power Operated Chucks have gained the trust of GMT customers due to GMT's high technical standards. GMT design engineers and technicians design special work holding in close co-operation with customers. With modern manufacturing facilities GMT is able to meet and deliver special work holding for special applications.

GMT engineers are always available for presale discussions on design and applications.

QUICK JAW CHANGE CHUCK



PHQC

GMT Quick change jaw chucks run at high speeds with minimum centrifugal loss. Suitable for CNC lathes particularly for machining small and medium sized batches.

The angle chosen for the piston and wedge block provides high mechanical efficiency that provides for both sensitive and high clamping force to withstand the most arduous working conditions.

GMT quick change jaw system has an inherent advantage for quick resetting or changing of the gripping jaw. It is only necessary to release an eccentric locking pin with a special hexagonal key in each of the jaws keeping the chuck stationary.

Sizes offered (\varnothing in mm) : 140, 160, 200, 250, 315, 400

POWER OPERATED ECCENTRIC COMPENSATING CHUCK



PE

GMT Eccentric compensating chuck is used for machining forgings and black bars between centres on CNC lathes.

Features

- Essentially designed for machining between centres.
- Jaws are designed to adjust and accommodate the lack of concentricity between the centre line of the component and its outside diameter.
- Wedge on the chuck float to the required extent in the body bore to compensate the irregularities in the roundness of the component.
- Chucks offered with fixed centre or spring loaded centre.

Sizes offered (\varnothing in mm) : 160, 200, 215, 250, 280, 315, 400

PER CHUCK



GMT's Power Operated Three/Two retractable jaw chuck permits shafts, bars, forgings, to be machined full length in one set-up, centre to centre.

Features

- The chuck is provided with three power operated retractable jaws and a face driver with centre.
- In the first operation the component is gripped on the jaws, so heavy machining can be done.
- In the finishing operation the jaws are retracted and the component is driven by the face driver and OD is machined.
- Double acting hydraulic cylinder actuates the chuck.
- Compensating chuck is offered on request.

Sizes offered (\varnothing in mm) : 160, 200, 250, 315, 400

PER

UNIVERSAL BALL LOCK CHUCK



GMT UBL chucks are designed to clamp components on forgings with draft angle surface and ensure face butting.

Features

- Positive pull back action against jaw face after clamping due to spherical movement.
- Positive sealing to prevent entry of chips.

GMT UBL chucks are offered in 2 versions.

- Self centering.
- Eccentric compensating.

Master jaws / Base jaws can be rotated for external / internal clamping of base jaws.

Sizes offered (\varnothing in mm) 152, 203, 254, 305, 381 and 457.

UBLC

OTHER SPECIAL APPLICATION WORKHOLDING



120 DIA Multi-Stage Cylinder



Special Chuck for Suptina
Super Finishing Machine
3B - 138 DIA



Steady Rest Chuck
Range : 7 DIA - 80 DIA



Bevel Gear Chuck
3B - 200 DIA BGC



Special Power Operated Chuck
for Shock Absorbers Housing
in 2 Wheelers

OTHER SPECIAL APPLICATION WORKHOLDING



Power Operated Combination Chuck
3B - 630 DIA PTI



Dust Proof Chuck
3B - 21' DIA DPC



Special Two Jaw Chuck



Expanding Mandrel



Friction Welding Chuck
2B - 330 DIA FWC



Facing Head
200 DIA

GRIP DOWN CHUCK



This chuck is ideal for the finishing operation. The radial and pull-back function of the chuck ensures;

Features

- High gripping force.
- Positive resting of the component after clamping.
- Parallelism.
- High accuracy repeatability accuracy.
- Heavy duty pin design.
- Suitable for auto components, two wheeler components.

Sizes offered (\varnothing in mm): 125, 165, 190, 210, 250, 315, 350

GDC

COLLET CHUCK

GMT Collet chucks for increased production from bar feeding.

Uses both multibore and spring collets and is made in three sizes: 26mm, 42mm and 60mm round bar capacities.

Features

- High gripping
- Suitable for Hydraulic actuators
- Permissible run-out accuracy as per DIN6386
- Compact design
- High concentric accuracy
- DL for all second length operation applications
- Interchangeable on spindle with GMT power chucks
- Used in CNC lathes.

Sizes offered (\varnothing in mm): 26, 42, 60



CC

DIAPHRAGM CHUCK

GMT Diaphragm chucks are the most accurate chucks. They are primarily used for light accurate turning, fine boring, facing and grinding operations.

Diaphragm chucks ensure improved accuracy and consistent concentricity obtained during precision machining operations.

The Diaphragm chuck utilizes a spring steel diaphragm of high stability to grip the work pieces to extreme fine limits.

Sizes offered (\varnothing in mm): 160, 200, 250, 315



DC

TWIST FINGER CHUCK



PW

GMT's Twist Finger Chuck is used for clamping where radial clamping is impossible.

Features

- Chuck has a locator for locating the component.
- Twist Finger Chucks cannot perform without locating the component.
- Fingers are located in a rod, which has a helical groove.
- Actuator pin located on helical groove for actuating the finger. Fingers during clamping and declamping lift, swings in and out, for component loading and unloading.

Sizes offered (\varnothing in mm): 200, 250

GFM CHUCK



GFM

GFM chuck is designed for pin milling of crank shaft journal.

Features

- Crankshaft held between centres of RH and LH chuck.
- Aligning jaw of the chuck facilitates job clamping.
- Chucks are actuated by hydraulic cylinders.



POWER OPERATED HAND INDEXING CHUCK



POHI

The GMT made Power Operated Hand Indexing Chucks are designed for machining components with intersecting axis.

Chuck index position:

- 4 x 90°
- 3 x 120°
- 2 x 180°

- Chucks are actuated by hydraulic cylinder.
- Job clamping by hydraulic cylinder.
- Indexing by heavy duty manually operated lever.
- Locking screw is provided for locking the LH index drum to ensure no chattermark on LH machining area.

Sizes offered (Ø in mm) : 160, 200, 220, 250, 315, 400

POWER OPERATED POWER INDEXING CHUCK



POPI

Power Operated Power Indexing chucks are used for machining components of large and small batches due to their short chucking and indexing time.

Chuck index positions

- 4 x 90
- 3 x 120
- 2 x 180

Clamping, Indexing, Locking and De-clamping are performed by hydraulic distributor. The oil is fed via multiple oil supply system mounted on the rear of the spindle and a pipe bundle running through the spindle bore.

Sizes offered (\varnothing in mm) : 200, 250, 315, 400, 500 upto 850

Sizes between 500 to 850 offered on request.

FRICTION WELDING CHUCK



FWC

Friction welding chucks are used on friction welding machines to weld spindles to truck differential housing, material handling equipments, to weld hydraulic cylinders.

Features

- Heavy duty chuck.
 - High Clamping force achieved by heavy duty disc springs.
- De clamping by hydraulic cylinders.

Sizes offered (\varnothing in mm) : 200, 250



CRIMPING FIXTURE WITH ELECTRO-MECHANICAL ACTUATOR



KNUCKLE FIXTURE CHUCK

1300 ϕ PS CHUCK



Knuckle fixture chuck for machining knuckle for Truck Steering



1300 mm ϕ PS with built-in cylinder for machining Railway wheels

All specifications subject to change. We reserve the right to change product specifications as part of product improvement.



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