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3-jaw and 4-jaw Torque Chucks

When seeking to hold small components or assemblies for torque testing it is often possible to utilise the flexibility provided by a standard machine-chuck. Mecmesin has taken off-the-shelf chucks and adapted them to fit to our Vortex and Helixa Torque Testing Systems and 'TS' Torque screwdrivers to create a simple and affordable gripping solution.

Vortex 4-jaw Torque Chucks

3 models in the range. Each 4-jaw chuck is delivered with 3 sets of interchangeable jaws which can quickly and easily be fitted using the fixing screws supplied.

- **Upper 'key-operated' 4-jaw Chuck (small)** fitted with a square-drive adapter for connection to Vortex torque sensors.
  Supplied with dedicated chuck-key.
  Recommended for use only with 6 N.m and 10 N.m sensors.
  Part no: 432-444

  Max opening of chuck = 50 mm
  Weight including jaws: 490 g

- **Lower 'key-operated' 4-jaw Chuck (small)** fitted with a round shaft for connection to the motor spindle of Vortex torque stands.
  Part no: 432-496

  Max opening of chuck = 50 mm
  Weight including jaws: 490 g

- **Lower 'keyless' 4-jaw Chuck (large)** fitted with a round shaft for connection to the motor spindle of Vortex torque stands.
  Jaws may be tightened by hand or using the levers provided
  Part no: 432-445

  Max opening of chuck = 80 mm
  Weight including jaws: 1400 g

▲ Upper 'key-operated' 4-jaw Chuck shown with jaws fitted

▲ Upper 'key-operated' 4-jaw chuck shown with key fitted and specimen held in mini-jaws

▲ Lower 'keyless' 4-jaw Chuck shown with tightening levers

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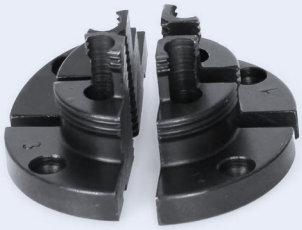
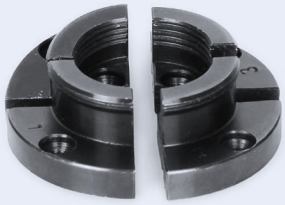
Interchangeable Jaws



Mini jaws



Standard jaws

Long jaws

Jaw openings for upper and lower key-operated chucks (432-444 and 432-496)		
Mini jaws	min 1 mm - max 16 mm	Contact height: 28 mm
Standard jaws	min 22 mm - max 34 mm	Contact height: 10 mm
Long jaws	min 6 mm - max 22 mm	Contact height: 29 mm

Jaw openings for lower keyless chuck (432-445)		
Mini jaws	min 1 mm - max 37 mm	Contact height: 31 mm
Standard jaws	min 37 mm - max 72 mm	Contact height: 14 mm
Long jaws	min 10 mm - max 42 mm	Contact height: 32 mm

Helixa 3-jaw Torque Chucks

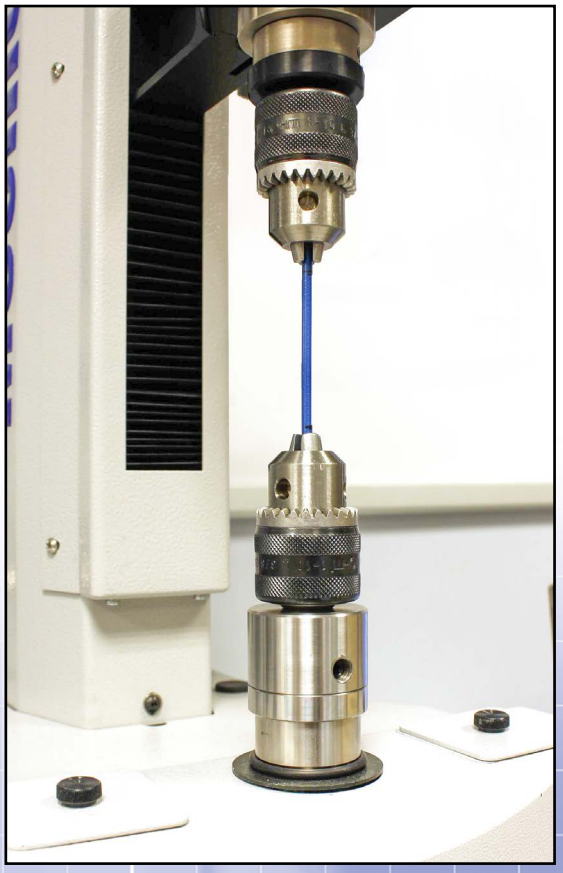
5 models in the range. Each 3-jaw chuck is delivered fitted to an adapter specifically to suit the Helixa Precision Torque Tester.

- **Upper 'key-operated' 3-jaw Chuck** fitted with a square-drive adapter for connection to Helixa torque sensors. Recommended for use only with 3 N.m and 6 N.m sensors:

  - 3/8″ version.
    Max opening of chuck = 9.5 mm
    Weight: 200 g
    Part no: 432-615
  - 1/2″ version.
    Max opening of chuck = 12.7 mm
    Weight: 300 g
    Part no: 432-617

- **Lower 'key-operated' 3-jaw Chuck** fitted with a round shaft for connection to the 'quick-change' adapter on the motor spindle of Helixa torque stands:

  - 3/8″ version.
    Max opening of chuck = 9.5 mm
    Part no: 432-614
  - 1/2″ version.
    Max opening of chuck = 12.7 mm
    Part no: 432-616



▲ Upper and lower 'key-operated' 3-jaw Chucks shown fitted to Helixa

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- **Lower ‘keyless’ 3-jaw Pin Chuck** fitted to the adapter on the motor spindle of Helixa torque stands:

  Max opening of chuck = 3.2 mm
  Part no: 432-509

▲ **Lower ‘keyless’ 3-jaw pin chuck shown fitted to adapter** ‘TS’

‘TS’ Torque Screwdriver 3-jaw Chuck

A 3-jaw chuck is available for use with Mecmesin 'TS' Torque screwdrivers. It has a □" opening and is being connected to the screwdriver
via a square drive spindle.

The ⅜″ chuck is supplied as standard with every new ‘TS’ Torque Screwdriver.

Specifications

Part No.	Jaw Opening		Weight	
432-233	9.5 mm	3/8″	170 g	0.37 lb

FS 58553

Mecmesin reserves the right to alter equipment specifications without prior notice.
E&OE

DISTRIBUTOR STAMP

Head Office - UK
Mecmesin Limited
w: www.mecmesin.com
e: sales@mecmesin.com

France
Mecmesin France
w: www.mecmesin.fr
e: contact@mecmesin.fr

Germany
Mecmesin GmbH
w: www.mecmesin.de
e: info@mecmesin.de

North America
Mecmesin Corporation
w: www.mecmesincorp.com
e: info@mecmesincorp.com

Asia
Mecmesin Asia Co., Ltd
w: www.mecmesinasia.com
e: sales@mecmesinasia.com

China
Mecmesin (Shanghai) Pte Ltd
w: www.mecmesin.cn
e: sales@mecmesin.cn

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