

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

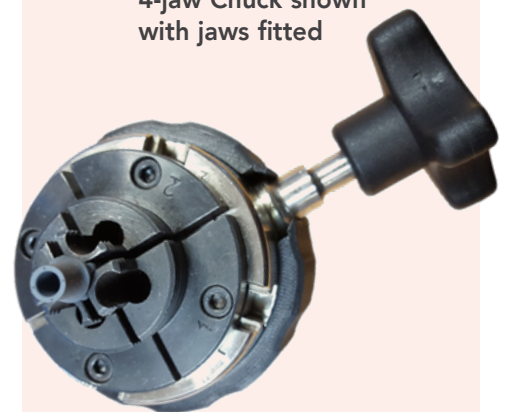
Max opening of chuck = 50 mm
Weight including jaws: 490 g

- **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

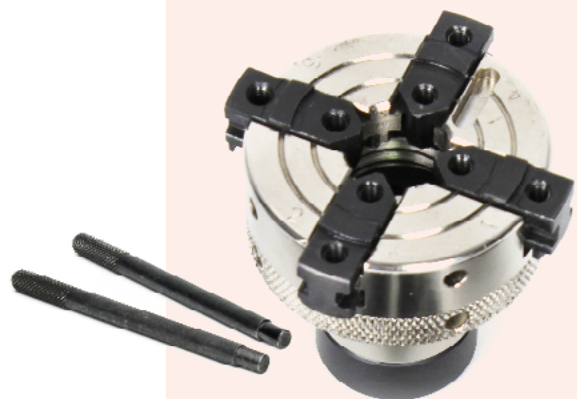
Max opening of chuck = 80 mm
Weight including jaws: 1400 g



▲ 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

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

- 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

'TS' Torque Screwdriver 3-jaw Chuck

A 3-jaw chuck is available for use with Mecmesin 'TS' Torque screwdrivers. It has a 3/8" opening and is being connected to the 'TS' screwdriver via a square drive spindle.

The 3/8" chuck is supplied as standard with every new 'TS' Torque Screwdriver.



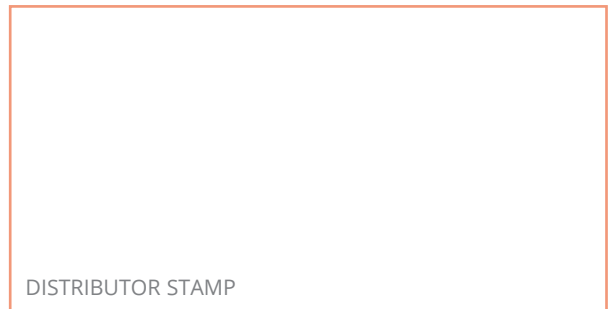
▲ Lower 'keyless' 3-jaw pin chuck shown fitted to adapter

Specifications

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



FS 58553



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