The Threadformer™
Unscrewing Devices for Molds
TGA - Basic Upright Units
**Features**

The Threadformer™ unscrewing devices are precise, sturdy and cost-efficient.

- Powerful hydraulic motor for rapid unscrewing action
- Repeatable precise core stopping ability within .003" or better
- Compact single and twin drive unit designs
- Supports long thread depths, pitches, and types
- Requires minimal maintenance for high production use
- Retrofittable for new or existing injection molds
- Demolds both right and left-hand threads
- Can be mounted at any angle or within the mold

**Specifications**

The Superior Threadformer is supplied ready for operation. The fixed thread guide nut comes with factory-machined internal threads matching the pitch of the thread to be molded. Three powerful hydraulic motors to choose from, which can deliver up to 2,450 rpm. Single-drive unit mounts to mold using two M10 SHCS. 24 volt DC high precision proximity switches are included for hydraulic control. All steel parts are hardened and ground with the core holder nitrided for extra wear-resistance.

Our unscrewing devices provide time and cost gains in mold making while reducing production costs for the injection molder by giving reliable, trouble-free service.
To guarantee a precise thread start position, the core holder must run against a fixed stop with its entire front surface area at a pressure not exceeding 40 bar. To increase speed of unit, maximize hydraulic VOLUME instead of pressure.

The flow of hydraulic fluid must be shut off by use of a proximity switch slightly before the core holder touches the fixed stop.

For the core holder retraction movement, the unscrewing pressure must be higher than the screw-in pressure. However, the unscrewing pressure should not be higher than 100 bar.

With through-thread, note that the core holder must not touch but should have up to 0.02 mm clearance upon reaching the thread start position. This amount of play will not result in melt film formation.

**Technical Information**

- Machine Core hole clearance in mold ±0.01/0.02 mm (0.0005")
- Single-drive dimensions: 110 x 142 x 181 mm (4.3 x 5.6 x 7.1 in)
- Weight approximately 7.5 kg (16.5 lbs.)
- Twin-drive dimensions: 190 x 147 x 181 mm (7.5 x 5.8 x 7.1 in)
- Custom axis spacings can be provided upon request.

**Motor Selections**

- Size 8, 32, or 50 cm³
- Superior will select the best suited to your application.
- Pitches are from 0.5 mm up to 20 mm. Thread lengths up to 100 mm and thread diameters to maximum 50 mm (depends on thread type).

**Positioning Accuracy - Brief Instruction**

To guarantee a precise thread start position, the core holder must run against a fixed stop with its entire front surface area at a pressure not exceeding 40 bar. To increase speed of unit, maximize hydraulic VOLUME instead of pressure.

The flow of hydraulic fluid must be shut off by use of a proximity switch slightly before the core holder touches the fixed stop.

For the core holder retraction movement, the unscrewing pressure must be higher than the screw-in pressure. However, the unscrewing pressure should not be higher than 100 bar.

The retraction of the core holder must again be stopped by a proximity switch. This will involve some after running. Care should be taken to ensure that the core holder does not run up against a fixed stop at this point. In case this has happened, the core holder must be released manually. With through-thread, note that the core holder must not touch but should have up to 0.02 mm clearance upon reaching the thread start position. This amount of play will not result in melt film formation.
TWIN THREADFORMER UNIT

CORE SPACING
80 or 120 mm
Standard Version
(Custom Spacing Available)

Please visit our website and click for:

THREADFORMER DESIGN ASSISTANCE

THREADFORMER TECHNICAL INFORMATION
The Threadformer™
Unscrewing Devices for Molds
NTGA - Right Angle Compact Units
NEW - "NGTA" type compact unscrewing device shows its merits in two molding applications. The upstanding cores (marked red) are passed through the telescopic sleeve and secured against turning behind the unscrewing device. Unique thru-hole is ideal for threaded core cooling (marked blue).

HOLE IN THE CORE SHAFT
Install diverse options like - upstanding cores, core cooling tubes or blowing needles for making bottles or containers.

2D & 3D CAD Models Available
UNSCREWING DEVICES FOR MOLDS

KTGA - UPRIGHT COMPACT UNITS
 KTGA baseplate with optional coolant lines and water connectors. There is also an optional insulator plate to prevent overheating of the unit. These two options are available on all threadformer models upon request.

2D & 3D CAD Models Available

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