

Minitom



Small, automatic precision cut-off machine for sectioning all materialographic and ceramic specimens



- **Simple operation**
- **Powerful motor**
- **High precision**
- **Functional design**
- **Easy to clean**

Minitom is a small, low-speed, precision cut-off machine for sectioning all types of materials. Maximum specimen size: 30 mm dia. The cutting speed is continuously variable and the motor is designed to ensure that the selected speed remains constant at any load. The required specimen size can be set with an accuracy of + 0.01 mm, by means of a micrometer screw, and the cutting pressure can be selected independent of the weight of the specimen. The motor is equipped with a thermal overload protection although prior to actually switching out an overload-indicator provides a visual warning that either the cutting procedure should be stopped or the cutting pressure should be reduced. Minitom can be adjusted to stop cutting at any stage of the operation, e.g. when the material has just been sliced through.

The cutting process is liquid-cooled with the cooling liquid draining back continuously into the coolant tank.

Operation

Minitom is very easy to operate, with fixation of the specimen and the setting of specimen size, cutting speed, and cutting pressure taking only a few minutes. The workpiece is fastened in a holder mounted on a movable arm. This arm acts as a steelyard with two weights, one of which balances the specimen holder with specimen, the other being used to set the exact cutting pressure. During the cutting operation the arm is guided down over the cut-off wheel. When the cutting operation is finished the cut-off wheel stops and the specimen falls into a basket in the coolant tank thus protecting the specimen from drying and making retrieval easy.

The coolant tank is very easy to remove and both the retrieval of the finished specimens and the cleaning of the coolant tank are therefore simple and straightforward. Minitom's practical and attractive design is the product of a very extensive programme of design development.



The transparent protection screen allows visual examination during the cutting process without the risk of splashing

Minitom is small, compact and extremely user-friendly



Specimen holders

Minitom can be supplied with a variety of specimen holders to suit a wide range of specimen types.

Cut-off wheels

Minitom uses CBN and diamond cut-off wheels with a diameter of 75 mm (3") to 127 mm (5") and a center hole diameter of 12.7 mm (1/2"). The cut-off wheels are available with different grain size and concentration, thus ensuring that the correct cut-off wheel is available for any type of material.



Minitom offers holders for all specimen shapes

Technical specifications

	Voltage: 100-240 V / 50-60 Hz Output: 38 W
Motor shaft	Speed: 100-420 rpm Diameter: 12.7 mm (1/2") Wheel diameter: 100-127 mm (4"-5")
Specimen holder arm	Balances specimen holder with workpieces up to 200 g in weight Cutting pressure: 0-350 g Axial movement: 0-25 mm
Coolant tank	Volume: 250 ml
Dimensions	Width: 280 mm Depth: 400 mm Height: 400 mm Weight: 8 kg

Struers' equipment is in conformity with the provisions of the applicable International Directives and their appurtenant Standards. (Please contact your local supplier for details)

Specifications

Specifications	Code
Minitom Low-speed precision cut-off machine. Complete with universal specimen holder (ISONI) and flange set 65 mm dia. as well as 42 mm dia. Cut-off wheels are ordered separately. 100-240 V / 50-60 Hz	ISOTO
Specimen holders For general use. Vice type with max. opening 25 mm / 1".	ISONI
For long specimens. Double parallel vice with max. opening 25 mm / 1".	ISOLA
For round specimens. Max. opening 30 mm dia.	ISORU
For irregularly-shaped specimens. With 5 screws. Max. opening 30 mm.	ISOSK
For adhesive mounting of specimens. 30 x 40 mm.	ISOFA
For round specimens. Teardrop type with max. opening 20 mm dia.	ISOOP

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.



Struers A/S

Pederstrupvej 84
DK-2750 Ballerup, Denmark
Phone +45 44 600 800
Fax +45 44 600 801
struers@struers.dk

USA and CANADA

Struers Inc.
24766 Detroit Road
Westlake, OH 44145-1598
Phone +1 440 871 0071
Fax +1 440 871 8188
info@struers.com

SWEDEN

Struers A/S
Smältvägen 1
P.O. Box 11085
SE-161 11 Bromma
Telefon +46 (0)8 447 53 90
Telefax +46 (0)8 447 53 99
info@struers.dk

FRANCE

Struers S.A.S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

NEDERLAND/BELGIE

Struers GmbH Nederland
Electraweg 5
NL-3144 CB Maassluis
Tel. +31 (0) 10 599 72 09
Fax +31 (0) 10 599 72 01
glen.van.vugt@struers.de

BELGIQUE (Wallonie)

Struers S.A.S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +33 1 5509 1430
Télécopie +33 1 5509 1449
struers@struers.fr

UNITED KINGDOM

Struers Ltd.
Unit 25a
Monkspath Business Park
Solihull
B90 4NZ
Phone +44 0121 745 8200
Fax +44 0121 733 6450
info@struers.co.uk

JAPAN

Marumoto Struers K.K.
Takara 3rd Building
18-6, Higashi Ueno 1-chome
Taito-ku, Tokyo 110-0015
Phone +81 3 5688 2914
Fax +81 3 5688 2927
struers@struers.co.jp

CHINA

Struers (Shanghai) Ltd.
Office 702, Hi-Shanghai
Dalian Road 970
CN - Shanghai 200092
Phone +86 (21) 5228 8811
Fax +86 (21) 5228 8821
struers.cn@struers.dk

DEUTSCHLAND

Struers GmbH
Karl-Arnold-Strasse 13 B
D-47877 Willich
Telefon +49(02154) 486-0
Telefax +49(02154) 486-222
verkauf.struers@struers.de

ÖSTERREICH

Struers GmbH
Zweigniederlassung Österreich
Ginzkeyplatz 10
A-5020 Salzburg
Telefon +43 662 625 711
Telefax +43 662 625 711 78
stefan.lintschinger@struers.de

SCHWEIZ

Struers GmbH
Zweigniederlassung Schweiz
Weissenbrunnstrasse 41
CH-8903 Birmensdorf
Telefon +41 44 777 63 07
Telefax +41 44 777 63 09
rudolf.weber@struers.de

CZECH REPUBLIC

Struers GmbH
Organizační složka
Milady Horákové 110/96
CZ-160 00 Praha 6 – Bubeneč
Tel: +420 233 312 625
Fax: +420 233 312 640
david.cernicky@struers.de

POLAND

Struers Sp. z o.o.
Oddział w Polsce
ul. Lirowa 27
PL-02-387 Warszawa
Tel. +48 22 824 52 80
Fax +48 22 882 06 43
grzegorz.uszynski@struers.de

HUNGARY

Struers GmbH
Magyarországi fióktelep
Puskás Tivadar u. 4
H-2040 Budaörs
Phone +36 (23) 428-742
Fax +36 (23) 428-741
zoltan.kiss@struers.de

SINGAPORE

Struers A/S
10 Eunos Road 8,
#12-06 North Lobby
Singapore Post Centre
Singapore 408600
Phone +65 6299 2268
Fax +65 6299 2661
struers.sg@struers.dk