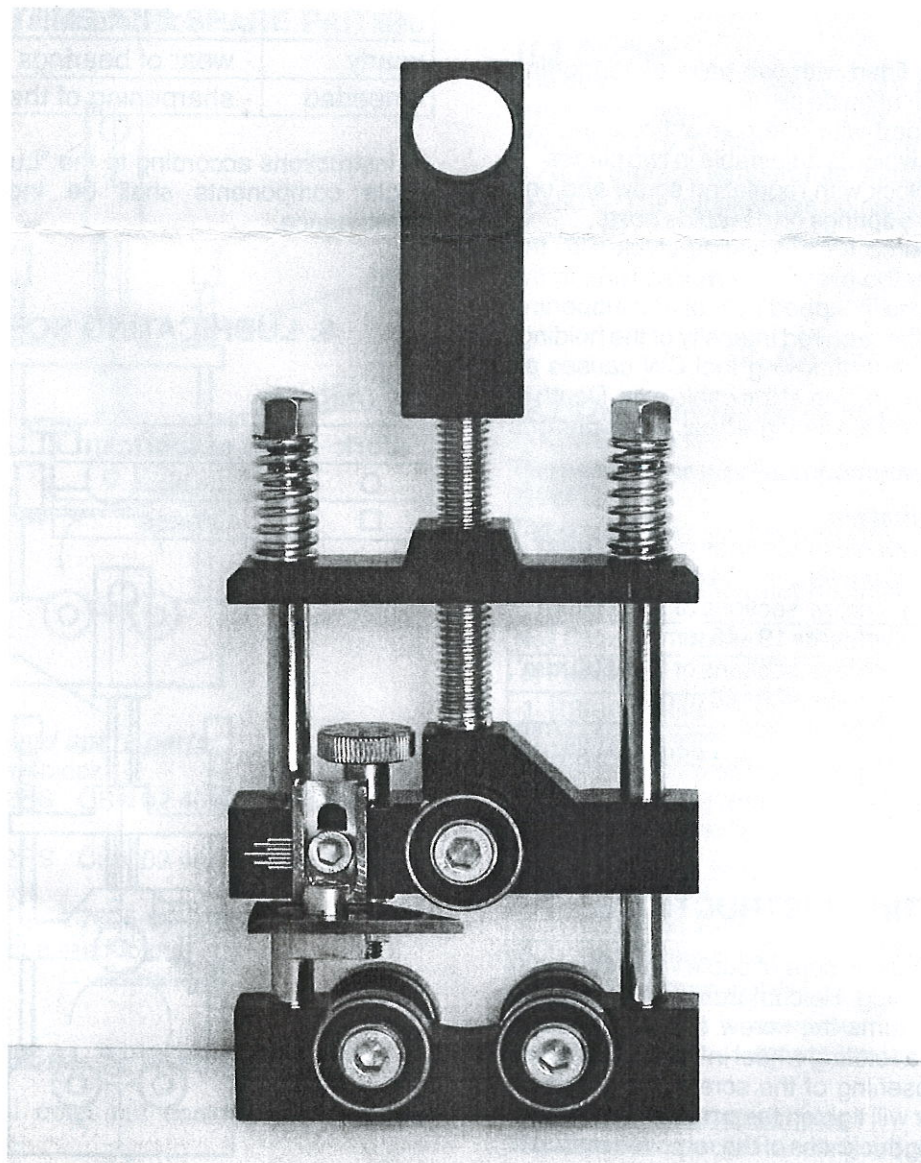


ACCOMPANYING **DOCUMENTATION**

**REMOVING TOOL OF THE OUTER
SEMICONDUCTING LAYER ON MV CABLES**



1. GENEALLY

1.1 Nomenclature

Nomenclature and definitions used in the specifications are in accordance with the standards used in mechanical and electrical engineering.

1.2 Workmanship

Components of the removing tool are eloxal or metal coated. Individual tool's components are produced according to the ISO fitting system.

1.3 Marking

The removing tool is labelled with the following informations: Manufacturer, type, serial No., year of production, mass. The label is located at a visible place.

2. APPLICATION

2.1 Object of use

The tool is specified for removing of the non-strippable semiconducting layer from insulation of MV cables up to voltage level of 35 kV.

3. DESIGN

3.1 Description

The tool consists of:

- fixed bottom block fitted with two pairs of supporting bearings and one pair of guide posts
- sliding block provided with one pair of holding-down bearings and a knife which is adjustable in two planes
- supporting upper block with regulating screw and one pair of coiled pressure springs on the guide posts.

The holding-down force for the sliding block with the knife is generated by the pressure springs. Turning the regulating screw round in tapped hole of the supporting upper block adjusts the required intensity of the holding-down force. Turning the removing tool CW causes an automatic toll feed in direction of the cable axis. Depth of the cut is adjustable by a rotating wheel. Feed per one revolution is 1 mm.

3.2 Technical parameters

Type size No. 1 for cross-sections of 25-120 mm²,
diameters 16 - 34 mm

Type size No. 2 for cross-sections of 70-400 mm²,
diameters 19 - 45 mm

Type size No. 3 for cross-sections of 120-500 mm²,
diameters 26 - 48 mm

Thickness of the removed material max. 1 mm

Dimensions 235x100x65 mm

Mass of the tool 0,8 kg

Mass of the tool with case 1,6 kg

4. OPERATING INSTRUCTIONS

Operator slides the tool on core of cable - the knife shall be at the cable beginning. He compresses the pressure springs to stop and turns the screw one thread back. Feed of the knife by a rotating wheel in the vertical plane is possible after loosening of the screw of the cutter's holder. The operator will tighten the screw of the cutter's holder after adjusting thickness of the removed material.

He feeds the knife in the horizontal plane to secure that the material will be removed by the central part of cutting edge. Tool rotation CW removes the non-strippable semiconducting layer.

Safety working with the operation

1. The raised caution shall be taken during working and handling with the removing tool to prevent operator injury by the knife cutting edge.
2. Only skilled and trained workers who were documentably acquainted with the tool operating instructions can individually carry out working with this tool.
3. The tool can be used only for the specified purpose of use.
4. The operator shall immediately stop the tool with occurrence of any failure which could endanger the safety of workers.

5. DIRECTIONS FOR MAINTENANCE

5.1 Working schedule

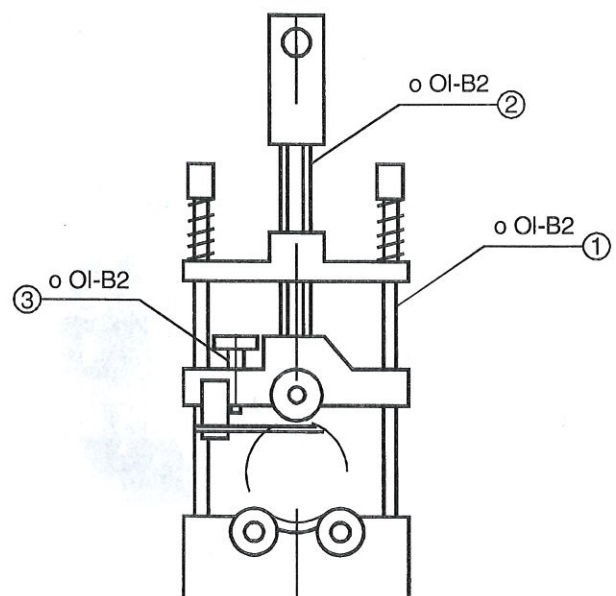
Interval	Check
always after use	- remove impurities from tool's surface before its putting into case
yearly	- wear of bearings and guide posts
if needed	- sharpening of the knife

All instructions according to the "Lubrication chart" for single components shall be incorporated in the maintenance.

6. LUBRICATING SCHEDULE

6.1 Diagram

Mark	Sort of lubricant
○	Oil
□	Grease



6.2 Description

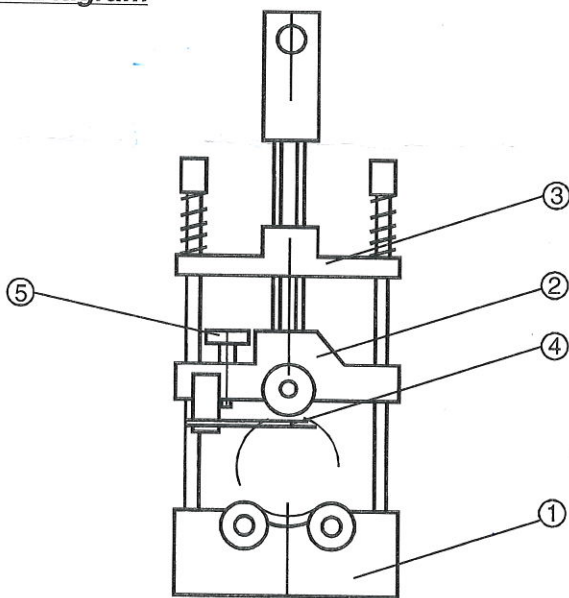
Nr.	Lubricating points	Sort and quantity of lubricant	Term and way of check Refilling of lubricant
1	Guide posts	OI - B2	spread by oil once a week
2	Screw	OI - B2	SPREAD BY OIL ONCE A WEEK
3	Screw	OI - B2	SPREAD BY OIL ONCE A WEEK

Table of equivalent substitutes of domestic lubricants by foreign ones

LUBRICANT OF CZECH PRODUCTION	Lubricant of foreign production
Bearing oil B - 2	ESSO NURAY 22 MOBIL VACTRA OIL NO. 1

7.7 LIST OF ITEMS AND SPARE PARTS

7.1 Diagram



7.2 List of items and spare parts

- 1 Supporting bottom block
 - 1.1 Bearing 6000 2RS ČSN 02 4640 - 4 pieces
- 2 Sliding block
 - 2.1 Bearing 6000 2RS ČSN 02 4640 - 2 pieces
- 3 Fixed upper block
- 4 Cutting knife dr. No. 4 7605-00-009 - 1 pieces
- 5 Rotating wheel for a feed to cut

8. ELECTRICAL SPECIFICATIONS

The removing tool does not contain any electrical components.

9. PUTTING INTO OPERATION

Functionality and completeness of the tool shall be checked before putting into operation.

10. TESTING

The parts are tested during the production and their dimensions and used materials have to comply with production drawings. Individual technical parameters of the machine are tested after the finished assembly by the final technical testing and the "Quality and Completeness Certificate".

11. DELIVERY, PACKING, STORAGE

11.1 Delivery

The device is delivered to the customer in preserved state.

11.2 Packing

The tool is delivered in assembled state. A case for the tool is a part of delivery.

11.3 Storage

The device has to be stored in dry, dust-free rooms and preserved regularly. Max. daily variation of humidity amounts to 10 %. Max. permissible relative air humidity is 70 %. Storage temperature shall be in range -10°C up to +50°C. The supplier has no responsibility for damage evoked by improper storage.

12. ANNEXES

12.1 Living environment compatibility

1) ATMOSPHERE

The product has no effect upon atmosphere.

2) WATER

The product has no effect upon water.

3) WASTES

The following wastes may originate:

No.	Code	Name	Cat.	Recommended liquidation
a) Package				
1	120105	waste PE/foil	O	dump, recycling
b) During operation				
2	150201	textile polluted by org.harmful substances	N	refuse destructing plant. secured dump
3	170408	cable scrap	O	collecting raw materials
c) After service life				
4	170405	iron scrap	O	collecting raw materials
5	120103	scrap of non-ferrous metals	O	collecting raw materials

Explanations N dangerous waste O general waste

12.2 Handling instructions

There are no special handling requirements at this tool.