

Part I: 2x M1  
 Part I: 1x M1  
 Part II: 2x M1 (Common)  
 Part II: 2x M1  
 Part II: 1x M1

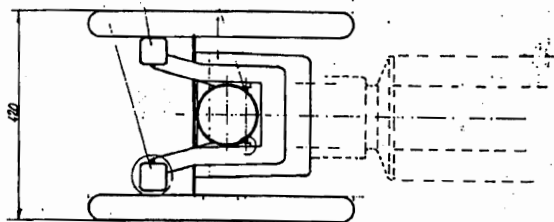
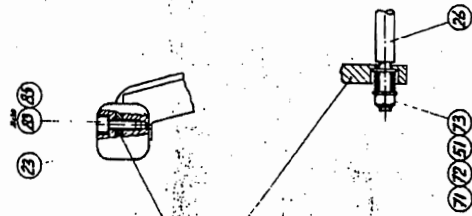
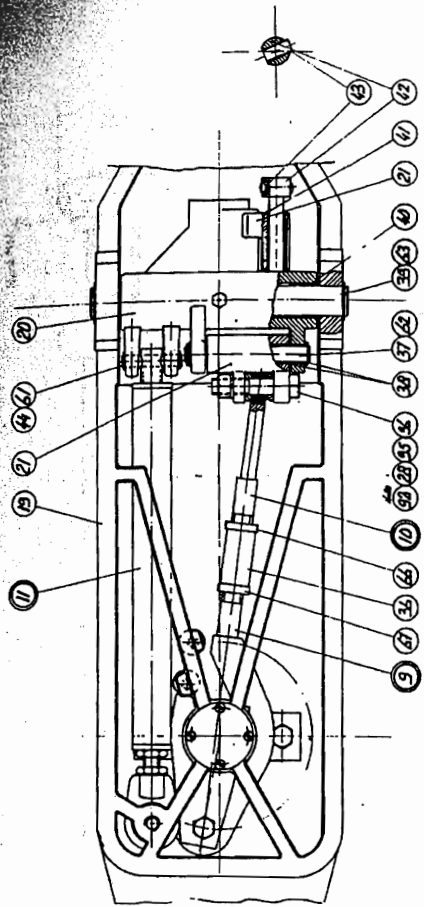
Сембли-00 leg + quarter LWF-20 болван!

ВЕРНО  
 СЕРТИФИКАТ

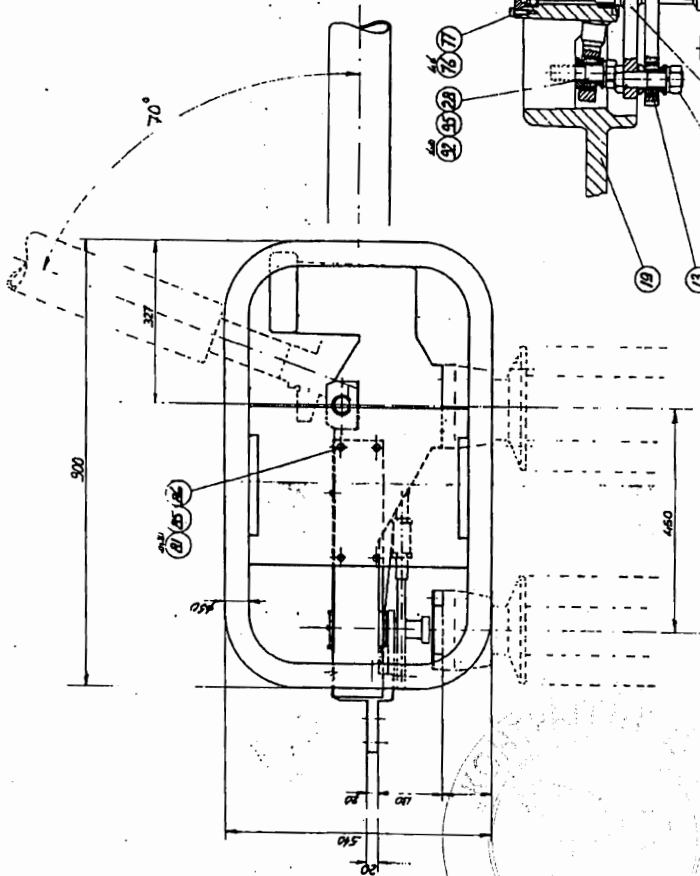
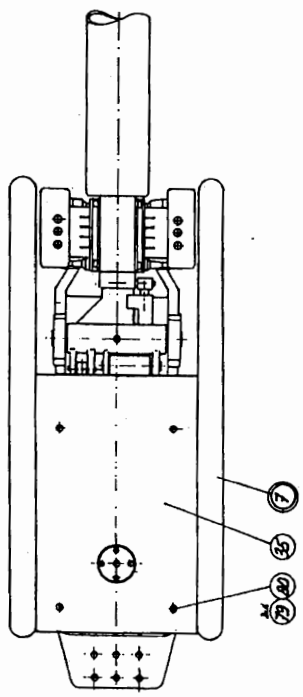
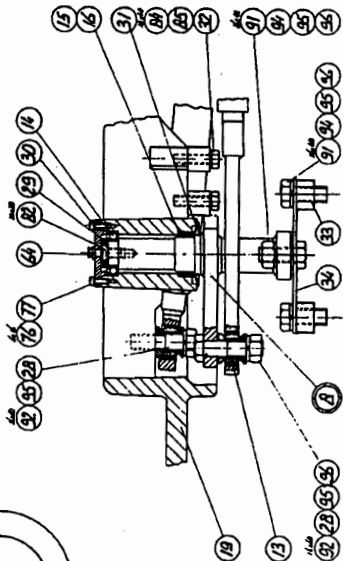
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| HAPAM    |        | 506981      |     |
| KONKRETT |        | 1258 265 IV |     |
| DATE     | 1.5.12 | SCALE       | 1:1 |
| DESIGNER |        | CHECKER     |     |
| DRAWN    |        | APPROVED    |     |
| DATE     |        | DATE        |     |
| BY       |        | BY          |     |
| NO.      |        | NO.         |     |
| REV.     |        | REV.        |     |

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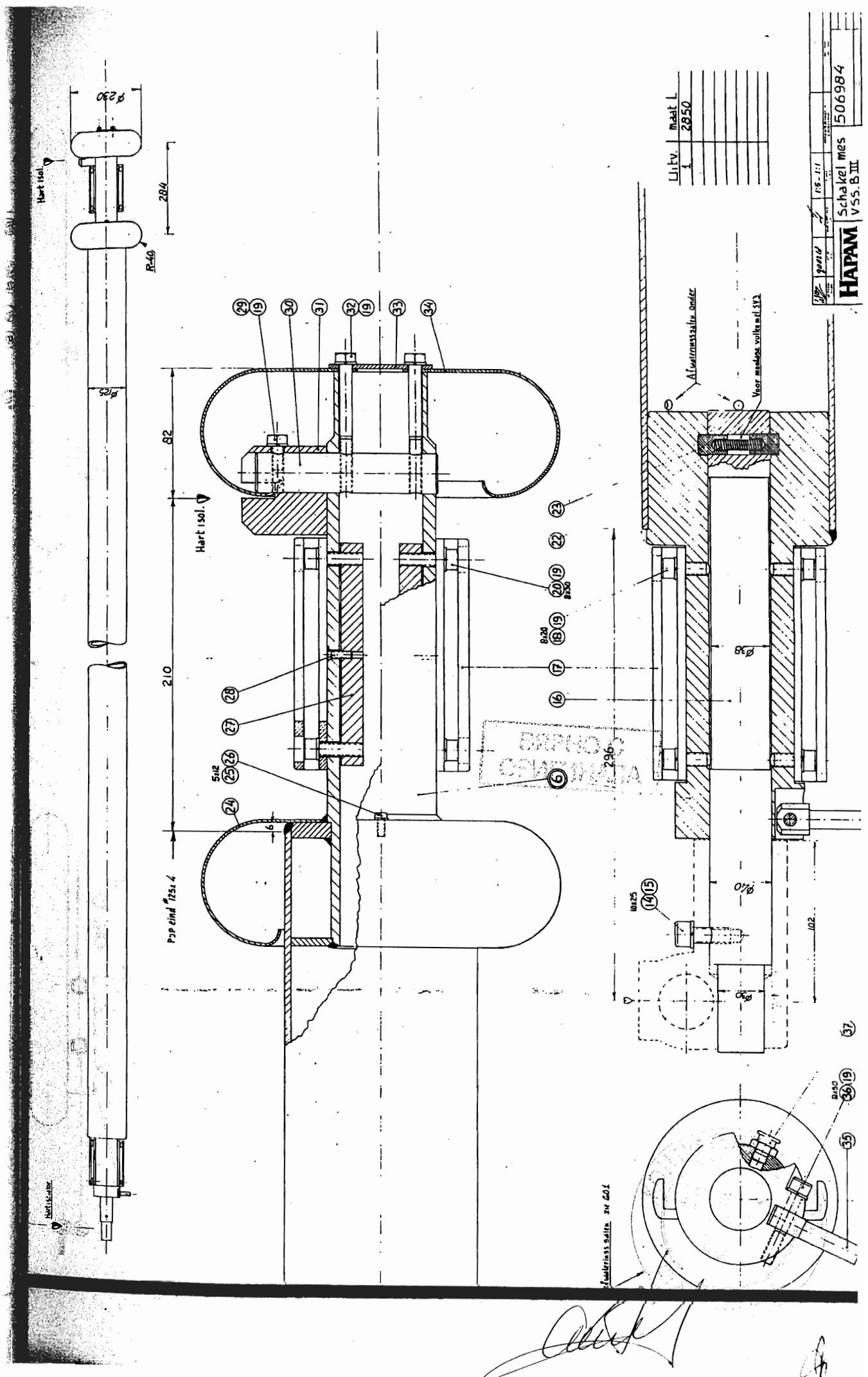
730518



ВЕРХНИЙ ЧАСТИЦА

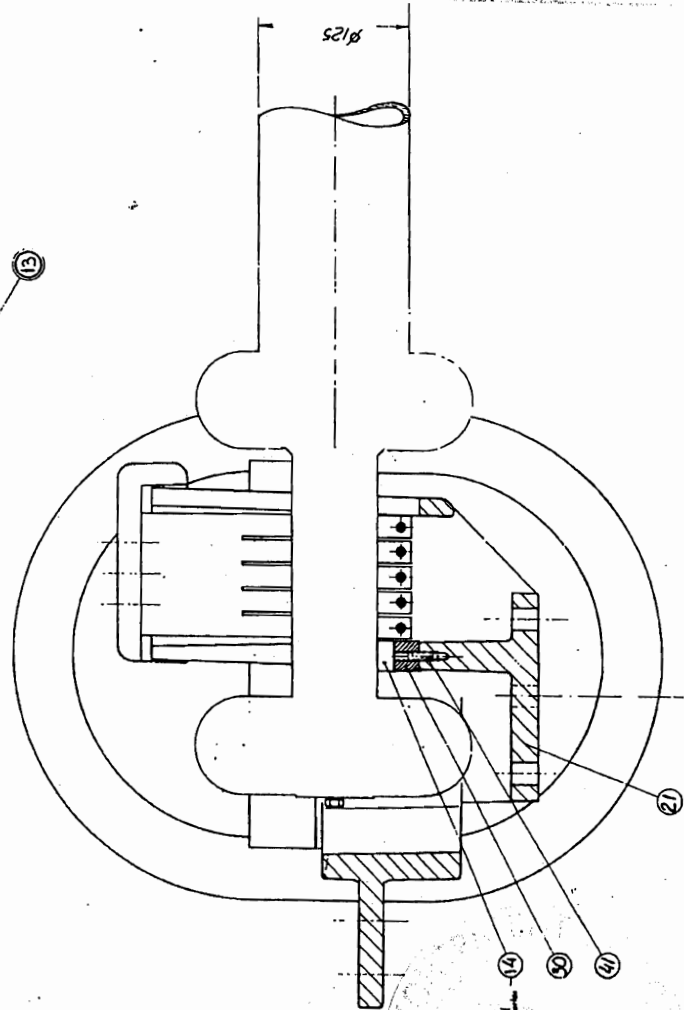
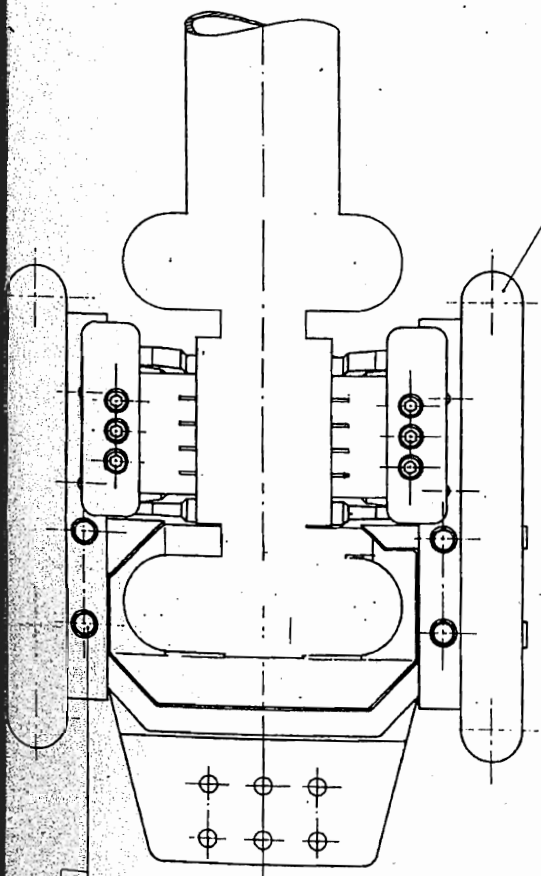
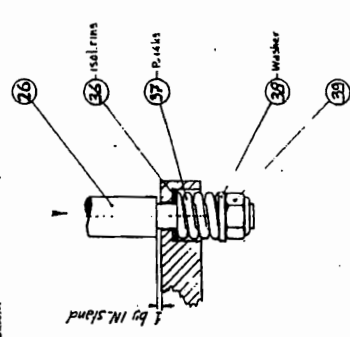
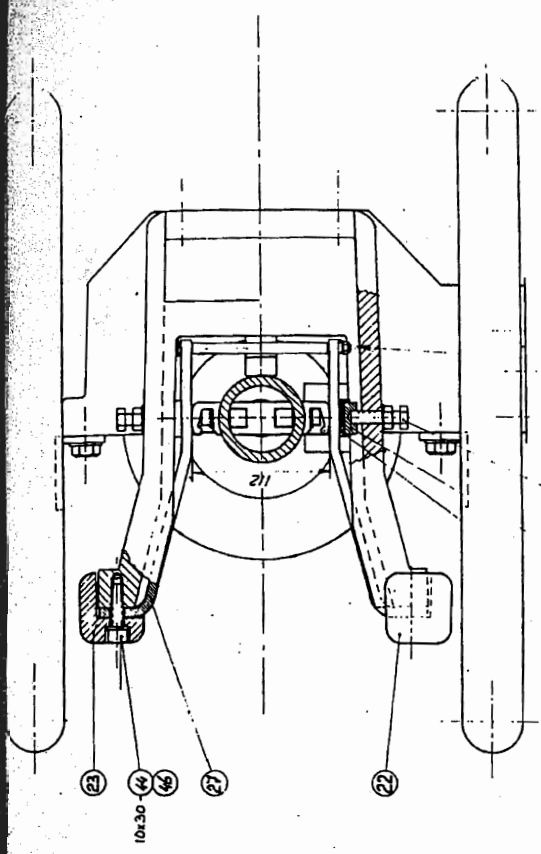


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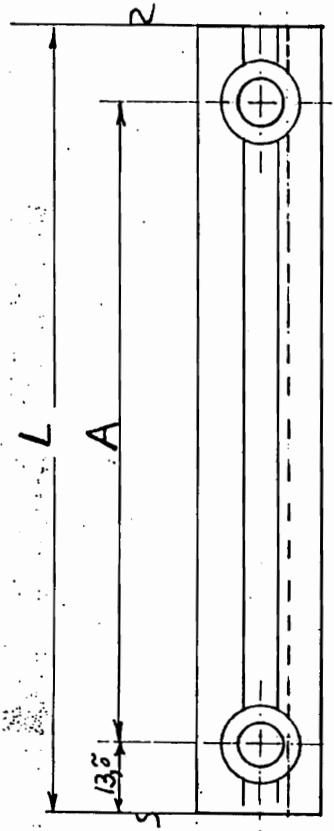
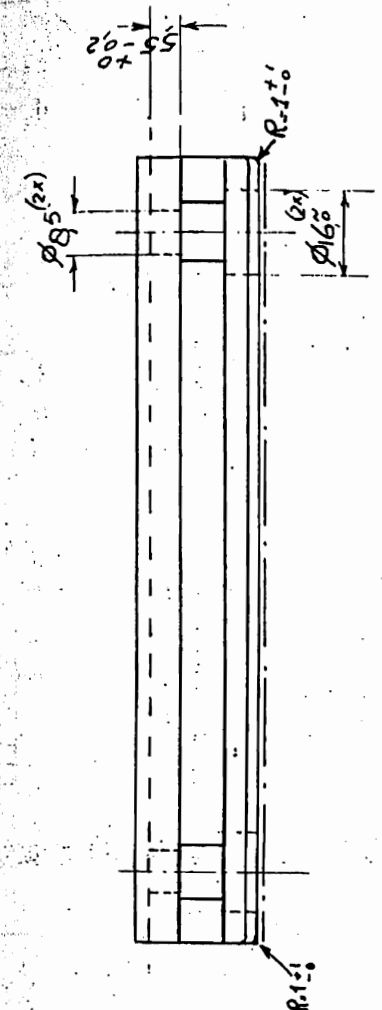
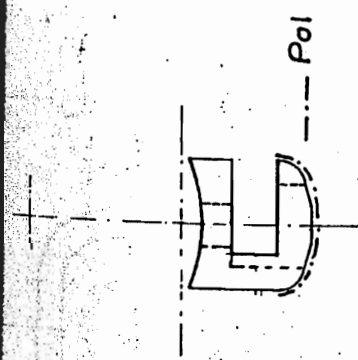
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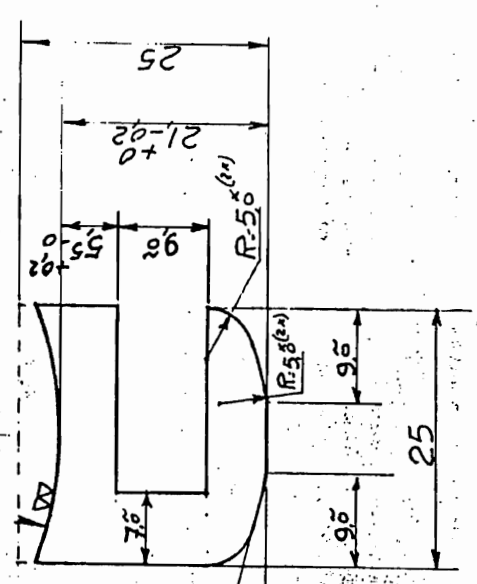
| ОПТ. КОНТРАКТ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 | 30 |  |  |  |  | 31 |  |  |  |  | 32 |  |  |  |  | 33 |  |  |  |  | 34 |  |  |  |  | 35 |  |  |  |  | 36 |  |  |  |  | 37 |  |  |  |  | 38 |  |  |  |  | 39 |  |  |  |  | 40 |  |  |  |  | 41 |  |  |  |  | 42 |  |  |  |  | 43 |  |  |  |  | 44 |  |  |  |  | 45 |  |  |  |  | 46 |  |  |  |  | 47 |  |  |  |  | 48 |  |  |  |  | 49 |  |  |  |  | 50 |  |  |  |  | 51 |  |  |  |  | 52 |  |  |  |  | 53 |  |  |  |  | 54 |  |  |  |  | 55 |  |  |  |  | 56 |  |  |  |  | 57 |  |  |  |  | 58 |  |  |  |  | 59 |  |  |  |  | 60 |  |  |  |  | 61 |  |  |  |  | 62 |  |  |  |  | 63 |  |  |  |  | 64 |  |  |  |  | 65 |  |  |  |  | 66 |  |  |  |  | 67 |  |  |  |  | 68 |  |  |  |  | 69 |  |  |  |  | 70 |  |  |  |  | 71 |  |  |  |  | 72 |  |  |  |  | 73 |  |  |  |  | 74 |  |  |  |  | 75 |  |  |  |  | 76 |  |  |  |  | 77 |  |  |  |  | 78 |  |  |  |  | 79 |  |  |  |  | 80 |  |  |  |  | 81 |  |  |  |  | 82 |  |  |  |  | 83 |  |  |  |  | 84 |  |  |  |  | 85 |  |  |  |  | 86 |  |  |  |  | 87 |  |  |  |  | 88 |  |  |  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                                                                                                                                                                                                                                                                                                                                                                                                                       |      |        |            |             |      |      |            |             |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  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| <b>НАПМ</b><br>НАЦИОНАЛЬНЫЙ АЭРОКОСМИЧЕСКИЙ КОМПЛЕКС «НАПМ»                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |        |            |             |      |      |            |             |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  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ВАРИАНТ  
ОПТИМАЛЬНЫЙ

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Litv. 1  $L = 146,6$   $A = 120,6$   
 Litv. 2  $L = 151,6$   $A = 125,6$



BIPHO C  
 CERNIATA

|                                       |     |             |           |              |
|---------------------------------------|-----|-------------|-----------|--------------|
| REVISIONS                             | NO. | DATE        | BY        | DESCRIPTION  |
| 1                                     | 1   | 11.02.12/25 | K. VIERK. | AG 21E COMM. |
| OPERANTE MANUFACTURING SURFACE FINISH |     |             |           |              |
| MATERIAL                              |     |             |           |              |
| 506874-33                             |     |             |           |              |
| TESTING NO. DRAWING NO.               |     |             |           |              |
| A 2                                   |     |             |           |              |

**HAPAM**  
 THE NETHERLANDS  
 KONTAKT  
 Draal puntzide

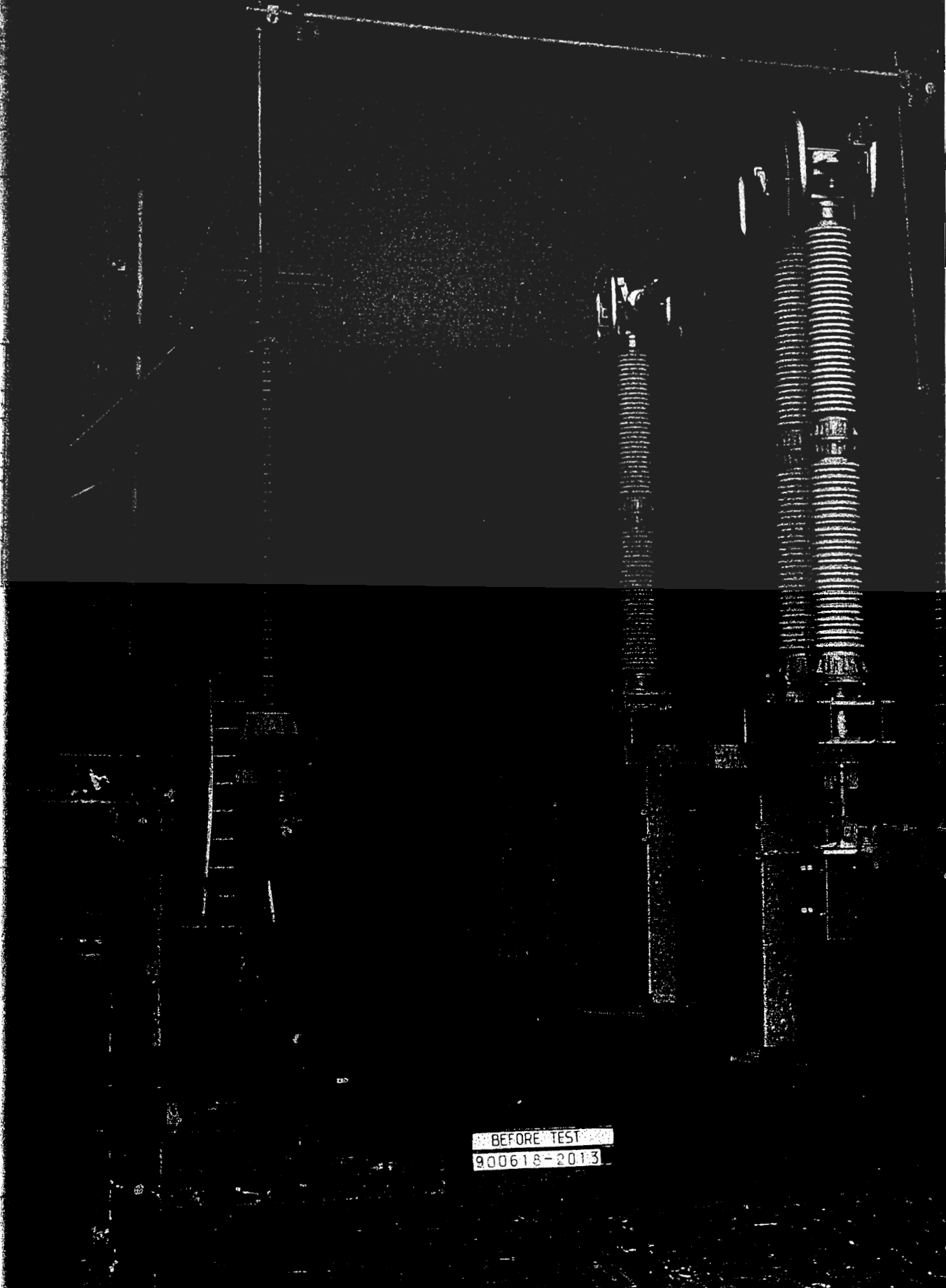
131 577  
 [Handwritten signature]



022401

EXPIRES 0  
10/10/14

KEMA ©



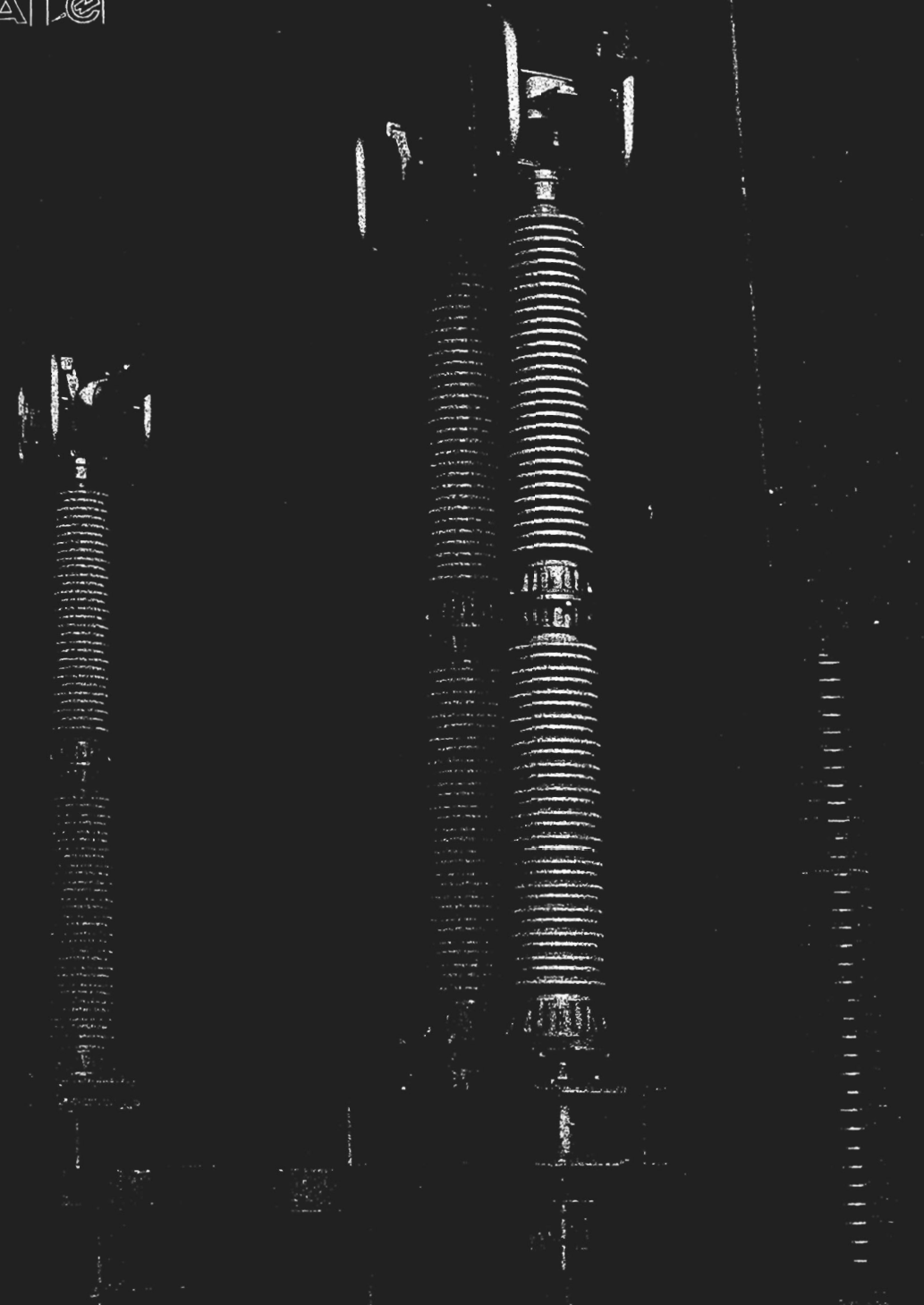
BEFORE TEST  
900618-2013

*Handwritten signature*  
73 of 181

59110-0  
CONTINENTAL

022402

KEMA ©



BEFORE TEST  
900618-2013

*[Handwritten signature]*  
20.08.13



WYPO C  
OPATOWA

022403

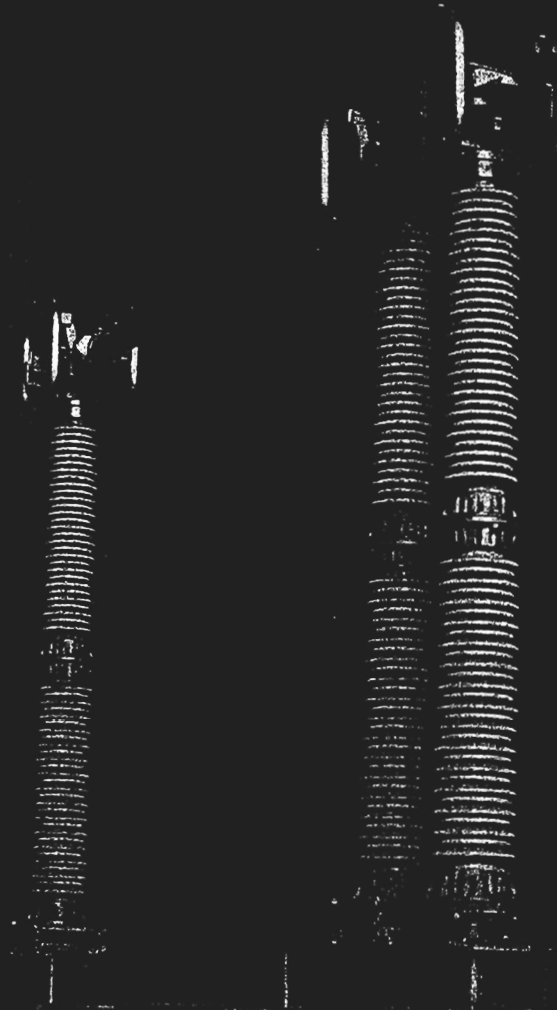
KEMA ©



AFTER TEST  
900618-2013

*Handwritten signature*  
21 03 181

KEMA ©



STAMPED  
S1006478-2012

*Handwritten signature*  
8/05/12

BRAND C  
CUMULATA

022407

KEMA ©

AFTER TEST

0618-2014

*Oluf*  
83018

022408

BRPHO C  
SPADINASA

KEMA ©

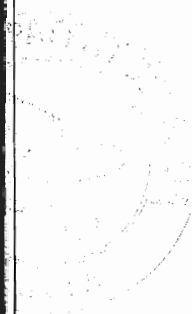


BRPHO C  
SPADINASA

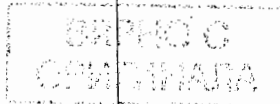
*[Handwritten signature]*

022409

EX-100  
CENTRAL



*[Handwritten signature]*

**INFORMATION ON TEST DOCUMENTS ISSUED BY THE DE ZOETEN HIGH POWER LABORATORY**

**1 Certificate of Compliance**

A Certificate contains a record of a series of type tests carried out strictly in accordance with a recognized standard. The equipment tested has fulfilled the requirements of this standard and the relevant ratings assigned by the manufacturer are endorsed by KEMA. The Certificate is applicable only to the equipment tested. KEMA is responsible for the validity and the contents of the Certificate. The responsibility for conformity of any apparatus having the same designation as the one tested rests with the manufacturer. The Certificate contains the essential drawings and a description of the equipment tested. Detailed rules are given in KEMA's Certification procedure.

**2 Report of Performance**

A Report of Performance contains a record of one or more tests which have been carried out according to the client's instructions. These tests are not necessarily in accordance with a recognized standard. The test results do not verify ratings of the test object. KEMA issues three types of Reports of Performance:

**2.1** *The tests have been carried out strictly in accordance with .... . The apparatus has complied with the relevant requirements.*

This sentence will appear on the front page of a Report of Performance if the tests have been performed in accordance with a recognized standard, but the series of tests does not completely fulfill the requirements for a Certificate of Compliance (for example, if the number of test duties is not a complete series of type tests). The Report contains verified drawings and a description of the equipment tested. Detailed rules are given in KEMA's Certification procedure. The condition of the test object after the tests is assessed and recorded in the Report.

**2.2** *The tests have been carried out in accordance with the client's instructions. Test procedure and test parameters were based on ....*

This sentence will appear on the front page of a Report of Performance if the number of tests, the test procedure and the test parameters are based on a recognized standard and related to the ratings assigned by the manufacturer. Verification of the drawings (if submitted) and assessment of the condition after the tests is only done at the client's request.

**2.3** *The tests have been carried out according to the client's instructions.*

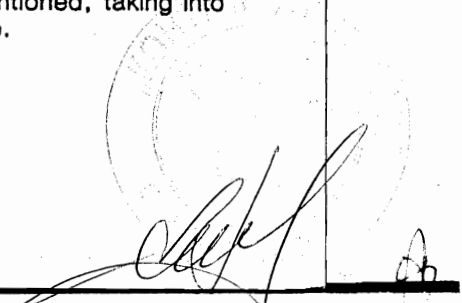
This sentence will appear on the front page of a Report of Performance if the tests, test procedure and/or test parameters are not in accordance with a recognized standard.

**3 Standards**

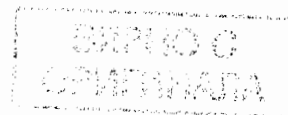
When reference is made to a standard, and the date of issue is not stated, this applies to the latest issue, including amendments which have been officially published prior to the date of the tests.

**4 Accuracy of measurement**

In the table of test results the measured quantities are given in three digits. This method of presentation does not indicate an accuracy. The guaranteed uncertainty in the figures mentioned, taking into account the total measuring system, is less than 5%, unless mentioned otherwise.



**СЕРТИФИКАТ** ЗА СЪОТВЕТСТВИЕ С IEC ИЗДАНИЕ 129  
ВЪВ ВРЪЗКА С ИЗВЪРШВАНЕ НА КЪСО СЪЕДИНЕНИЕ



**АПАРАТУРА** Вертикален разединител

**ОБОЗНАЧЕНИЕ** VSSB-III-245

Номинално напрежение 245 kV  
Номинален ток 3150 A

Номинална честота 50 Hz

**ПРОИЗВОДИТЕЛ** HARAM B.V.,  
Bunschoten, Холандия  
**ИЗПИТАН ЗА** HARAM B.V.,  
Bunschoten, Холандия

**ДАТА НА ИЗПИТАНИЕ** 18 Юни 1990

Апаратът, изработен в съответствие с описанието, чертежите и снимките, включени в този сертификат е бил подложен на серия от тестове, доказващи, в съответствие с IEC 129, под-клауза 6.5 и Ръководство за STL, както е подходящо ..

Забележка: Според STL Цели и принципи на функциониране, KEMA издава сертификат за съответствие с посоченото по-горе IEC Publication следвайки изключително Ръководството на STL, където е приложено.

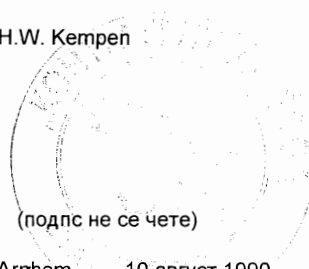
РЕЗУЛТАТИТЕ СА ПОКАЗАНИ В ЗАПИСА ОТ ИЗВЪРШЕНОТО ИЗПИТАНИЕ, КАТО СА ПРИЛОЖЕНИ ТЕСТОВЕ И ОСЦИЛОГРАМИ КЪМ НАСТОЯЩОТО РЕШЕНИЕ. ПОЛУЧЕНИТЕ СТОЙНОСТИ И ОБЩОТО ИЗПЪЛНЕНИЕ СЕ СЪОБРАЗЯВАТ С ГОРЕПОСОЧЕНИЯ СТАНДАРТ, ЗА ДА ДОКАЖЕ СТОЙНОСТИТЕ, ОПРЕДЕЛЕНИ ОТ ПРОИЗВОДИТЕЛЯ, ОПИСАНИ В СПИСЪКА НА ЛИСТ 1.

Отговорността за съответствие на всяко съоръжение, с едно и също наименование, с което изпитвано не включва KEMA

**ДОКУМЕНТИТЕ, СЪСТАВЛЯВАЩИ ЧАСТ ОТ НАСТОЯЩИЯ СЕРТИФИКАТ, СА:**

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
| Листове                     | 1 до 5                                                                                      |
| Токова схема                | S01                                                                                         |
| Осцилоскопски запис         | -                                                                                           |
| Електромагнитни осцилограми | 900618-2013,2014.                                                                           |
| Цифрови осцилограми         | -                                                                                           |
| Чертежи                     | Prt. 050333, AMS-50139-3/D, 506983-1, 506981, 506985, 506984, 506986, 506874-33, 506874-34. |
| Схеми                       | -                                                                                           |
| Снимки                      | 022401,022402,022403,022405,022407,022408,022409.                                           |
| Информационен документ      | B70E.                                                                                       |

H.W. Kempen



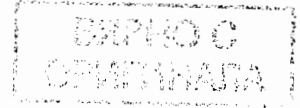
(подпис не се чете)

Arnhem, 10 август 1990



**СТОЙНОСТИ ОПРЕДЕЛЕНИ ОТ ПРОИЗВОДИТЕЛЯ И ДОКАЗАНИ ПРИ ИЗПИТАНИЯТА**

|                         |        |
|-------------------------|--------|
| Издържан ток на к.с.    | 40 kA  |
| Продължителност на к.с. | 3 s    |
| Върхов издържан ток     | 100 kA |



|                         |        |
|-------------------------|--------|
| Издържан ток на к.с.    | 50 kA  |
| Продължителност на к.с. | 1 s    |
| Върхов издържан ток     | 125 kA |

**ОБОБЩЕНИЕ ОТ ИЗПИТАНИЯТА**

Издържани ток на к.с. и върхов ток

лист 4



*Handwritten signature*



Свидетели на изпитанията са били:

**Име**

Post, J.A.

Robson, D.

**Компания**

НАРАМБ.V.,  
Bunschoten, Холандия

Merz & McLellan,  
Newcastle upon Tyne, Обединено кралство

Изпитанията са наблюдавани от:

**Име**

LusIng, M.

**Компания**

N.V. KEMA, Arnhem



**Чертежи**

Производителят е гарантирал, че оборудването, представено за тестове е било произведено в съответствие със следните чертежи.

KEMA е проверила, че тези чертежи адекватно представляват тестваното оборудване

Pit.050333  
AMS-50139-3/D  
506983-1  
506981  
506985  
506984  
506986  
506874-33  
506874-34

тестова позиция на вертикален разред. VSSB-III 245  
вертикален. разединител VSSB III 245kV 3150A  
вертикален. разединител VSSB III 245kV 3150A  
основа VSSB 245 kV  
контакт + механизъм VSSB 245kV  
Нож VSS.BIII  
свързана глават 245 kV  
контакт  
контакт

**Снимки**  
22401  
22402  
022403  
022405  
022407  
022408  
022409

Тестово положение на разред. преди тест 900618-2013.  
Разединител преди тест 900618-2013.  
Разединител след тест 900618-2013.  
Разединител след тест 900618-2014.  
Горна част на разединителя след тест 900618-2014  
Горна част на разединителя след тест 900618-2014.  
Горна част на разединителя след тест 900618-2014.



| Протокол 251-90                    |                                         | ТАБЛИЦА С ИЗПИТАТЕЛНИ ВЕРИГИ |  |  |  | SHEET 3 |
|------------------------------------|-----------------------------------------|------------------------------|--|--|--|---------|
| ИЗПИТАТЕЛНИ ВЕРИГИ No              |                                         | S01                          |  |  |  |         |
| Брой фази                          |                                         | 1                            |  |  |  |         |
| честота                            | Hz                                      | 49                           |  |  |  |         |
| генератор                          |                                         | Не<br>заземен                |  |  |  |         |
| Трансформаторни връзки             |                                         | -                            |  |  |  |         |
| Точка на к.с.                      |                                         | earthed                      |  |  |  |         |
| Съпротивление на веригата $\Omega$ |                                         | 0.063                        |  |  |  |         |
| Фактор на мощността                |                                         | <0.1                         |  |  |  |         |
| TVR добавени контролирани елементи | Капацитет в паралел in parallel $\mu F$ |                              |  |  |  |         |
|                                    | Съпротивление в серия R1 $\Omega$       |                              |  |  |  |         |
|                                    | Съпротивление в паралел R1 $\Omega$     |                              |  |  |  |         |
|                                    | Индуктивност L1 mH в паралел R 1        |                              |  |  |  |         |
|                                    | Време закъснение Капацитет Cd nF        |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
| Очакван TVR                        | TVR върхова стойност Uс kV              |                              |  |  |  |         |
|                                    | Време координата t3 $\mu s$             |                              |  |  |  |         |
|                                    | Време закъснение td $\mu s$             |                              |  |  |  |         |
|                                    | Основа на kVrms                         |                              |  |  |  |         |
|                                    | Понижение                               |                              |  |  |  |         |
|                                    | Степен на нарастване kV / $\mu s$       |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |
|                                    |                                         |                              |  |  |  |         |

ОБЯВНО  
 ОБЯВНО

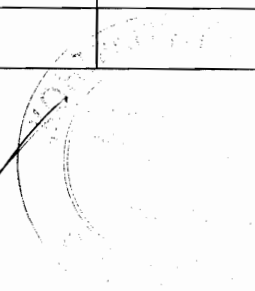



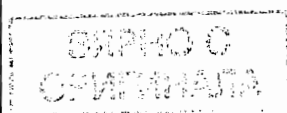
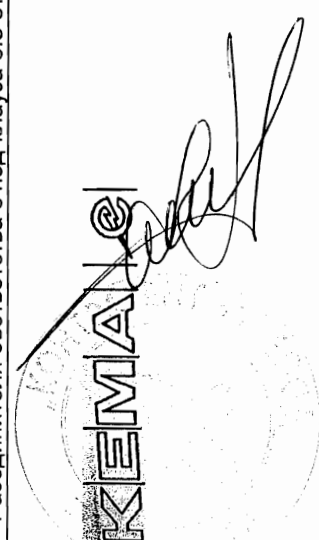
ТАБЛИЦА С РЕЗУЛТАТИ

|                 |                                                               |                       |        |
|-----------------|---------------------------------------------------------------|-----------------------|--------|
| Протокол 251-90 | ИСКАНИ ТИПОВЕ ИЗПИТАНИЯ: издържани токове на к.с и върхов ток | ТЕСТОВА ВЕРИГА<br>S01 | ЛИСТ 4 |
|-----------------|---------------------------------------------------------------|-----------------------|--------|

| Дата на изпитание | Върхова стойност на тока kA | Изпитвани количества |           |           |           |         | Продължително ст s | Напрежение     |               |           | Съпротивление |      | физическо поведение |      |      |
|-------------------|-----------------------------|----------------------|-----------|-----------|-----------|---------|--------------------|----------------|---------------|-----------|---------------|------|---------------------|------|------|
|                   |                             | Симетричен ток       |           | Начало kV | Средна kV | Край kV |                    | Преди Теста µΩ | След Теста µΩ | Емисии на |               |      |                     |      |      |
|                   |                             | Начало kA            | Средно kA |           |           |         |                    |                |               | Край kA   | огън          | газ  |                     |      |      |
| 900618<br>2013    | 103                         | 40,7                 | 42,4      | 43,6      | 3,22      |         |                    |                |               | 75,6      | 81,5          | няма | забележки           | няма | няма |
| 900618<br>2014    | 131                         | 50,1                 |           | 51,0      | 1,05      |         |                    |                |               | 81,5      | 79,9          | няма | забележки           | няма | няма |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
|                   |                             |                      |           |           |           |         |                    |                |               |           |               |      |                     |      |      |
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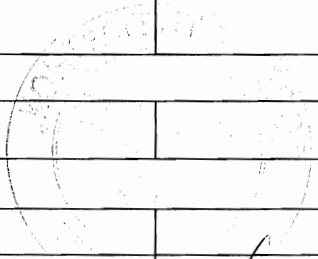
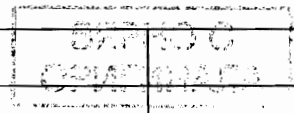
словия след теста: разединителя се отваряше лесно след всеки тест снимка 022403  
 Контактите много леко се изправят снимки 022404,022405,022407,022408,022409

Разединителя съответства с под-клауза 6.5 от IEC 129



52 184

| протокол 251-90                                             |        | КАЛИБРИРАНЕ НА ЕЛЕКТРОМАГНИТНАТА ОСЦИЛОГРАМА |      |      |      | ЛИСТ | 5 |
|-------------------------------------------------------------|--------|----------------------------------------------|------|------|------|------|---|
| Време за маркиране ▶                                        |        | 100 ms                                       | ms   | ms   | ms   | ms   |   |
|                                                             |        | тест                                         | тест | тест | тест | тест |   |
| Път ▼                                                       | фаза ▼ | 900618<br>2013,2014                          |      |      |      |      |   |
| <b>ТОК ОТВАРЯНЕ БОБИНА мигновен A/mm</b>                    |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>ТОК ЗАТВАРЯНЕ БОБИНА мигновен A/mm</b>                   |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>НАПРЕЖЕНИЕ мигновено kV/mm</b>                           |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>ТОК мигновен kA/mm</b>                                   |        |                                              |      |      |      |      |   |
| 2                                                           |        | 3.2                                          |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>УСИЛЕНО НАПРЕЖЕНИЕ мигновено V/mm</b>                    |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>УСИЛЕН ТОК мигновен A/mm</b>                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b><math>I^2t \cdot 10^3 \times A^2 \text{ s/mm}</math></b> |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>МОЩНОСТ MW/mm</b>                                        |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>ЕНЕРГИЯ MJ/mm</b>                                        |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
| <b>НАЛЯГАНЕ bar/mm</b>                                      |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |
|                                                             |        |                                              |      |      |      |      |   |



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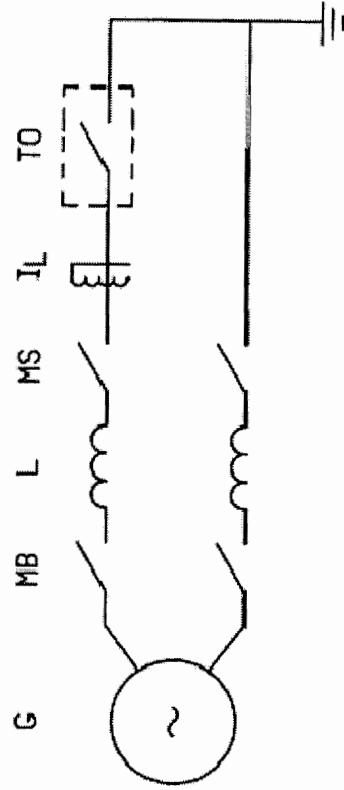
### КОМПОНЕНТИ НА ВЕРИГАТА

G – генератор  
MB – главен прекъсвач  
MS – ключ  
PT – трансформатор  
R – съпротивление  
C – кондензатор  
L – бобина

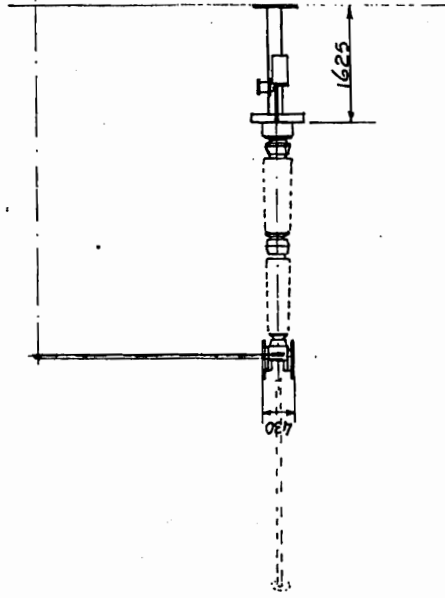
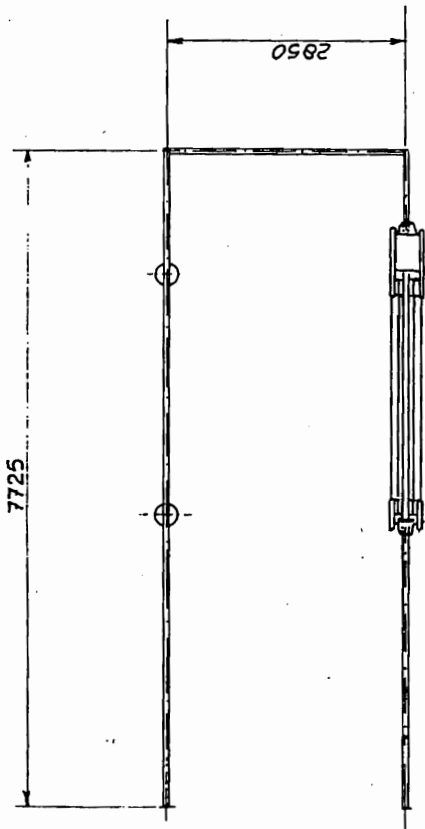
TO – изпитателен образец  
AL – изкуствена линия

### ИЗМЕРВАНЕ

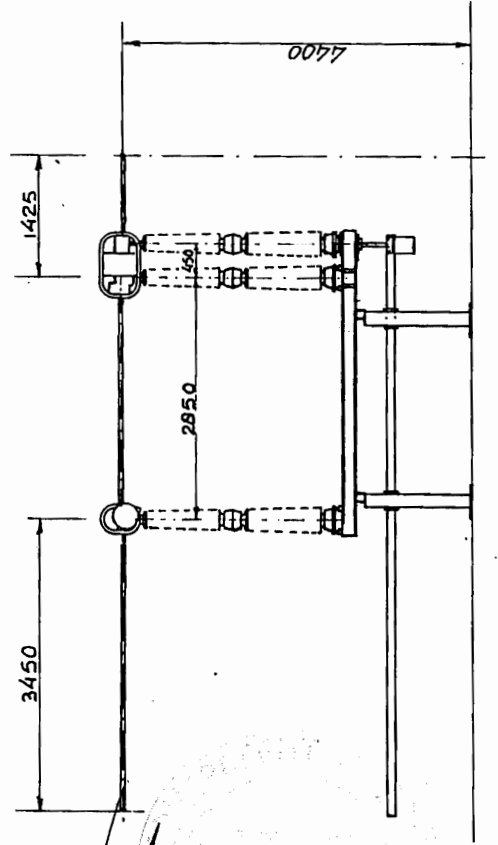
U – измерване на напрежение  
I – измерване на ток  
L – ниско честотна осцилограма  
M – средночестотна осцилограма  
H – високочестотна осцилограма  
LD – отличително измерване с L  
MD – отличително измерване с M  
HD – отличително измерване с H



ВЪПРОС  
СРАВНАТА

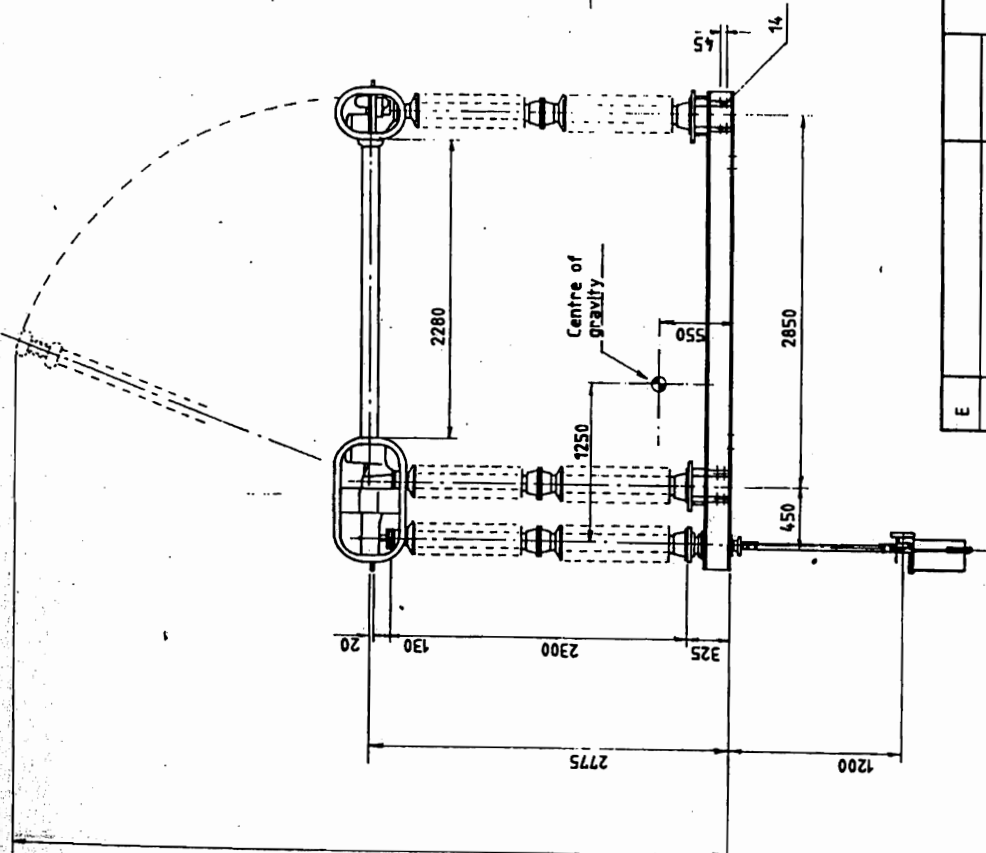


BRPHO C  
CONTINUA



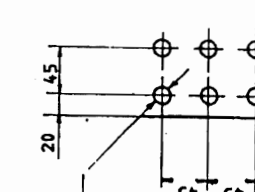
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|-------------|-------|---------------|------------|
| 900606      | 1:50  | Test Position | Prt.050333 |
| DATE        | SCALE | POSITION      | NO.        |
| DESIGNED BY | DATE  | TEST POSITION | NO.        |
| CHECKED BY  | DATE  | TEST POSITION | NO.        |
| APPROVED BY | DATE  | TEST POSITION | NO.        |

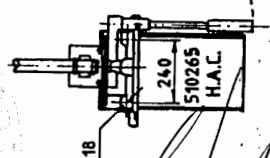


Top view

Foundation plan



Connection plate



|                  |  |           |                                                    |  |             |            |
|------------------|--|-----------|----------------------------------------------------|--|-------------|------------|
| DESIGNATION      |  | 900425GVK | ABB Trans Power                                    |  | Quant.      | 3          |
| Tabel spec. chgd |  | 900302 RA | DC HYBRID LINK - CONTRACT DC1 - CONVERTER STATION! |  | Item        | 01         |
| FORM, was A2     |  | 891206 RA | Trans Power TM                                     |  | Designation | WA-Z1Z1Q11 |
| MODIFICATION     |  | DATE/SIG. | Approval:                                          |  | Item        | 01         |
| R.A. 891206      |  | 1:4.0     | ENG                                                |  | Designation | WA-Z2Z1Q11 |
| DESIGNED BY      |  | ENGINEER  | SCALE                                              |  | Item        | 01         |
| DRAWN BY         |  | DATE      | SMALL SCALE                                        |  | Designation | WA-Z2Z2Q11 |
| CHECKED BY       |  | DATE      | DIPERILATE REINFORCING                             |  | Item        | 01         |
| APPROVED BY      |  | DATE      | STRUCTURE                                          |  | Designation | WA-Z2Z2Q11 |
| R.A. 891206      |  | 1:4.0     | C. 38536                                           |  | Location    | Haywards   |
| DESIGNED BY      |  | ENGINEER  | Weight = 770 kg.                                   |  | ES-N-052    |            |
| DRAWN BY         |  | DATE      | OPERATE REINFORCING                                |  | Location    |            |
| CHECKED BY       |  | DATE      | STRUCTURE                                          |  | Haywards    |            |
| APPROVED BY      |  | DATE      | SCALE                                              |  | Quant.      |            |
| R.A. 891206      |  | 1:4.0     | C. 38536                                           |  | 01          |            |
| DESIGNED BY      |  | ENGINEER  | DIPERILATE REINFORCING                             |  | 01          |            |
| DRAWN BY         |  | DATE      | STRUCTURE                                          |  | 01          |            |
| CHECKED BY       |  | DATE      | SCALE                                              |  | 01          |            |
| APPROVED BY      |  | DATE      | DIPERILATE REINFORCING                             |  | 01          |            |
| R.A. 891206      |  | 1:4.0     | C. 38536                                           |  | 01          |            |

TRANS POWER  
NEW ZEALAND LTD

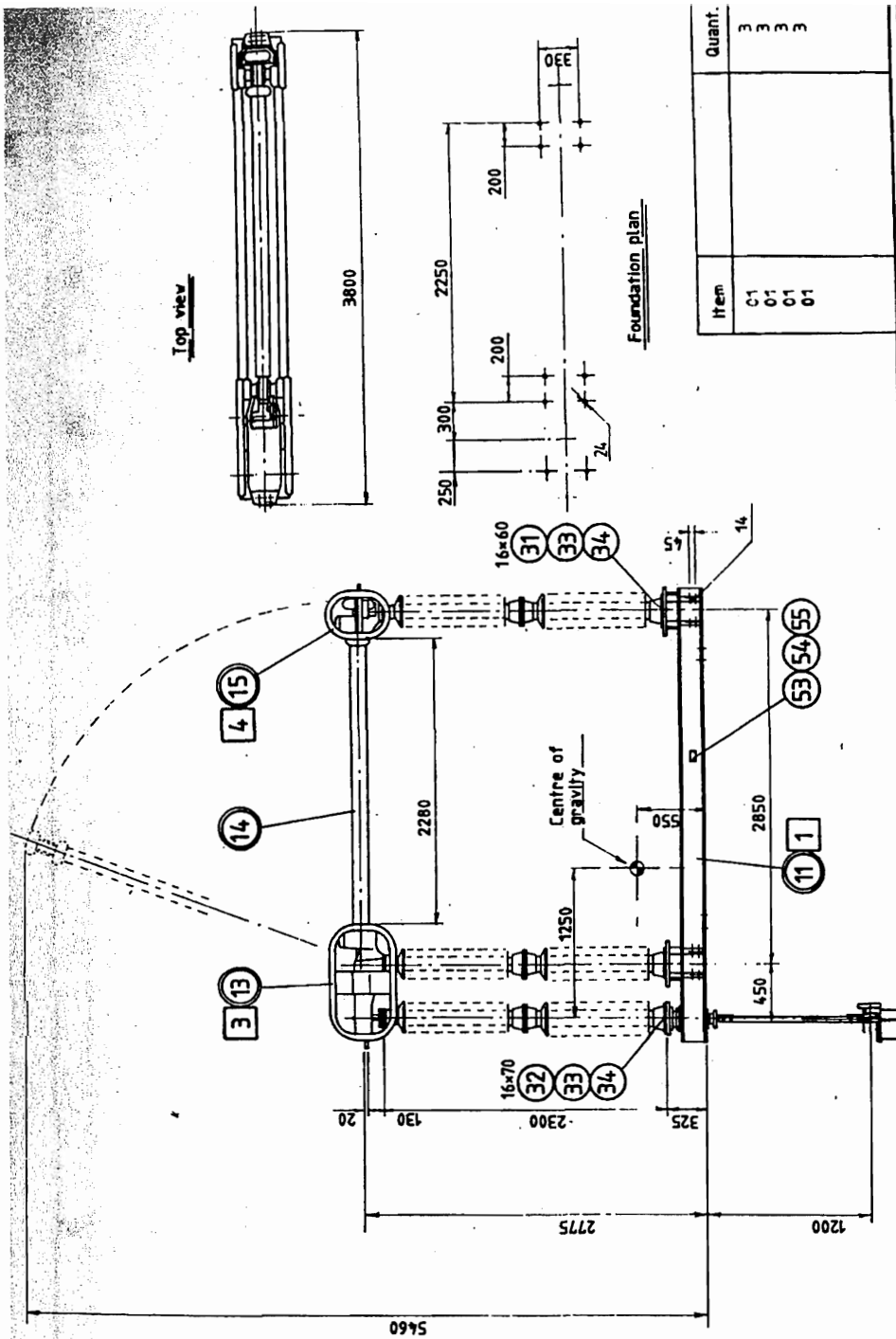
**HAPAM**  
THE NETHERLANDS

Vertical break isolator  
VSSB III 24.5KV 3150A

AMS-50139-3

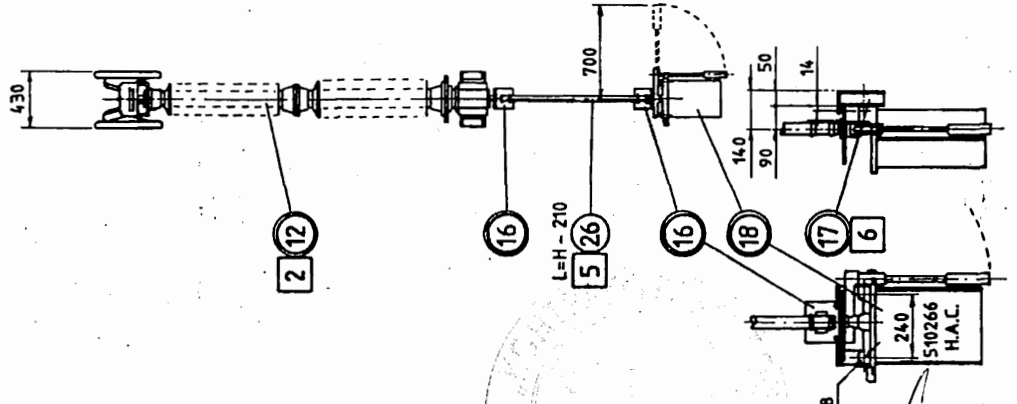
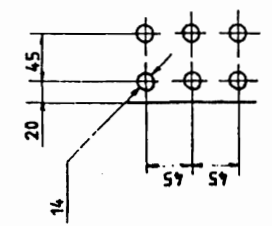
A3

TEKENING NR  
DRAAIING NO



|          |              |      |           |                                                   |                          |                 |          |  |  |
|----------|--------------|------|-----------|---------------------------------------------------|--------------------------|-----------------|----------|--|--|
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| D        |              |      |           |                                                   |                          |                 |          |  |  |
| C        |              |      |           |                                                   |                          |                 |          |  |  |
| B        |              |      |           |                                                   |                          |                 |          |  |  |
| A        |              |      |           |                                                   |                          |                 |          |  |  |
| REV.     | MODIFICATION |      | DATE/SIG. |                                                   |                          |                 |          |  |  |
| R.t.B.   | 900301       |      | 1:40      | C. 38536                                          | Weight = 770 kg.         |                 |          |  |  |
| DESIGNED |              | DATE |           |                                                   | OPERATING SURFACE FINISH |                 | MATERIAL |  |  |
| DRAWN    |              |      |           |                                                   | SURFACE FINISH           |                 |          |  |  |
|          |              |      |           | ABB Trans Power                                   |                          | NEW ZEALAND LTD |          |  |  |
|          |              |      |           | DC HYBRID LINK - CONTRACT DC1 - CONVERTER STATION |                          |                 |          |  |  |
|          |              |      |           | Trans Power TM                                    |                          |                 |          |  |  |
|          |              |      |           | Approval: ENG                                     |                          |                 |          |  |  |
|          |              |      |           | Item                                              |                          | Quant.          |          |  |  |
|          |              |      |           | C1                                                |                          | 3               |          |  |  |
|          |              |      |           | 01                                                |                          | 3               |          |  |  |
|          |              |      |           | 01                                                |                          | 3               |          |  |  |
|          |              |      |           | 01                                                |                          | 3               |          |  |  |

ВЕРТ. РАЗРЫВ. ИЗОЛЯТОР  
ОПИСАНИЕ



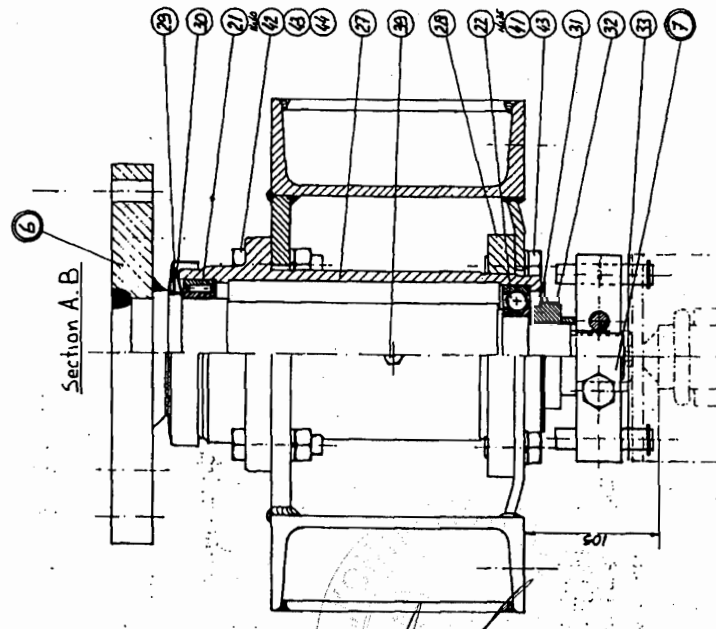
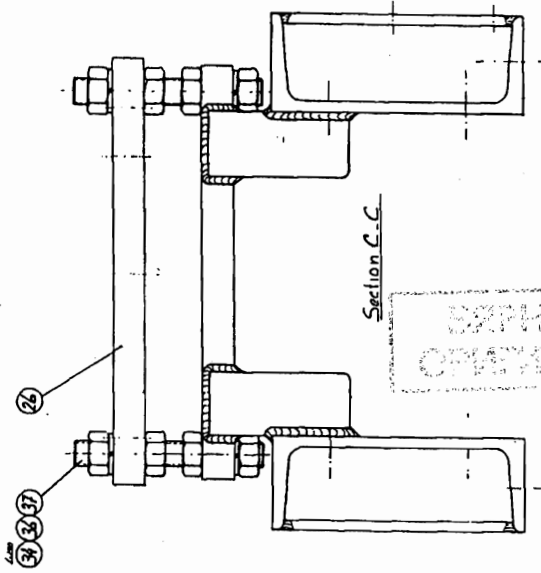
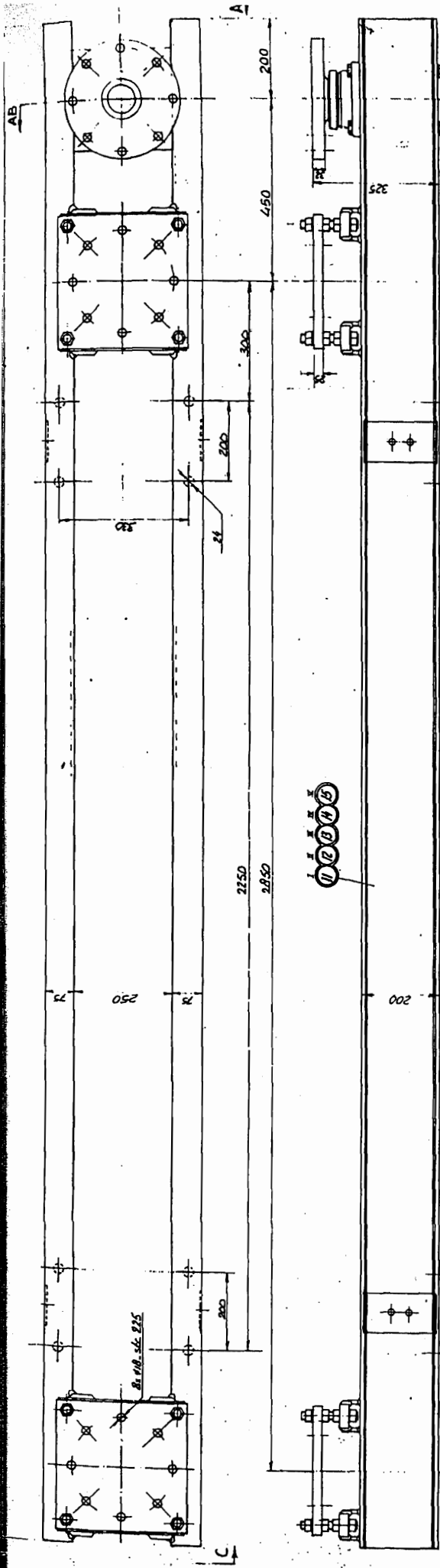
506983 - 1

Vertical break isolator  
VSSB III 24.5KV 3150A

**HAPAM**

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Part I: 2 x M1  
 Part II: 1 x M1  
 Part III: 2 x M1 (Заменим)  
 Part IV: 2 x M1  
 Part V: 1 x M1

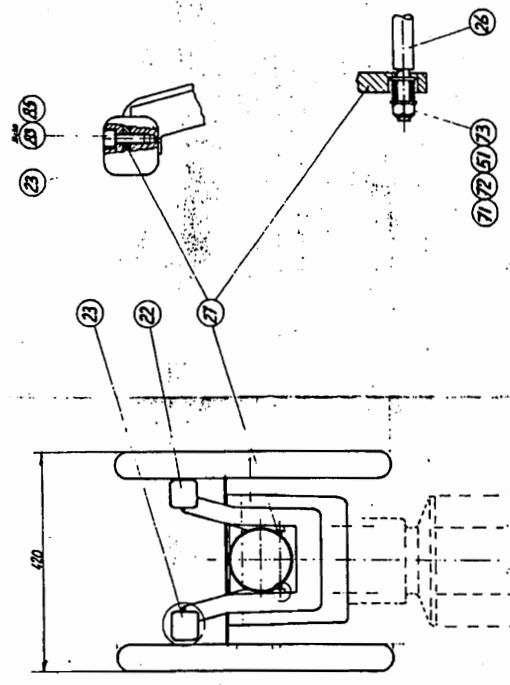
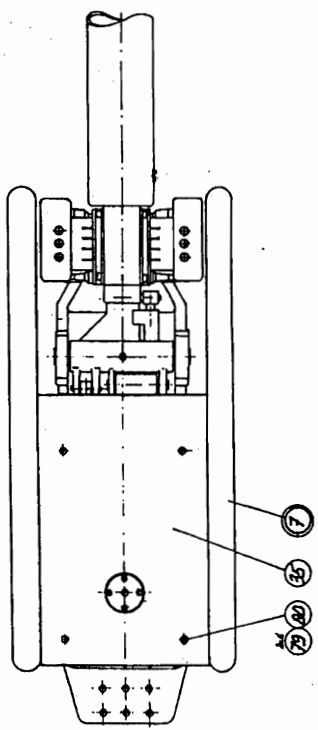
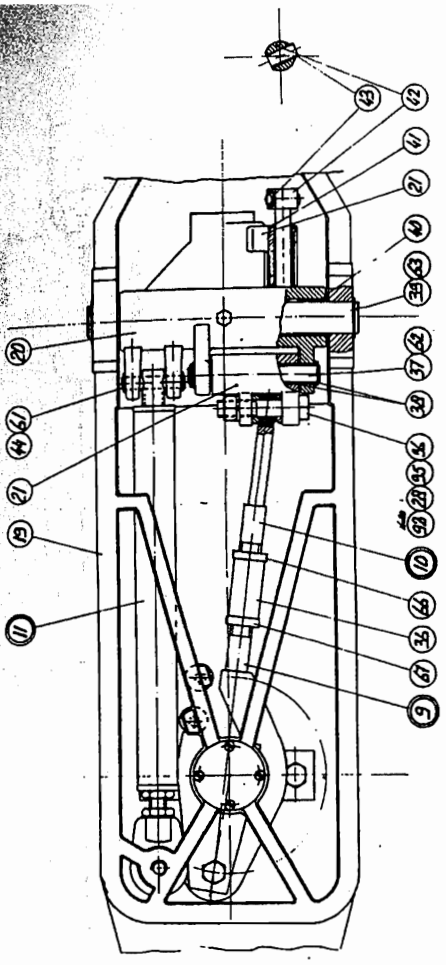
Vertical rod  
disconnector

Соединительный стержень ЛМП-20 баббин

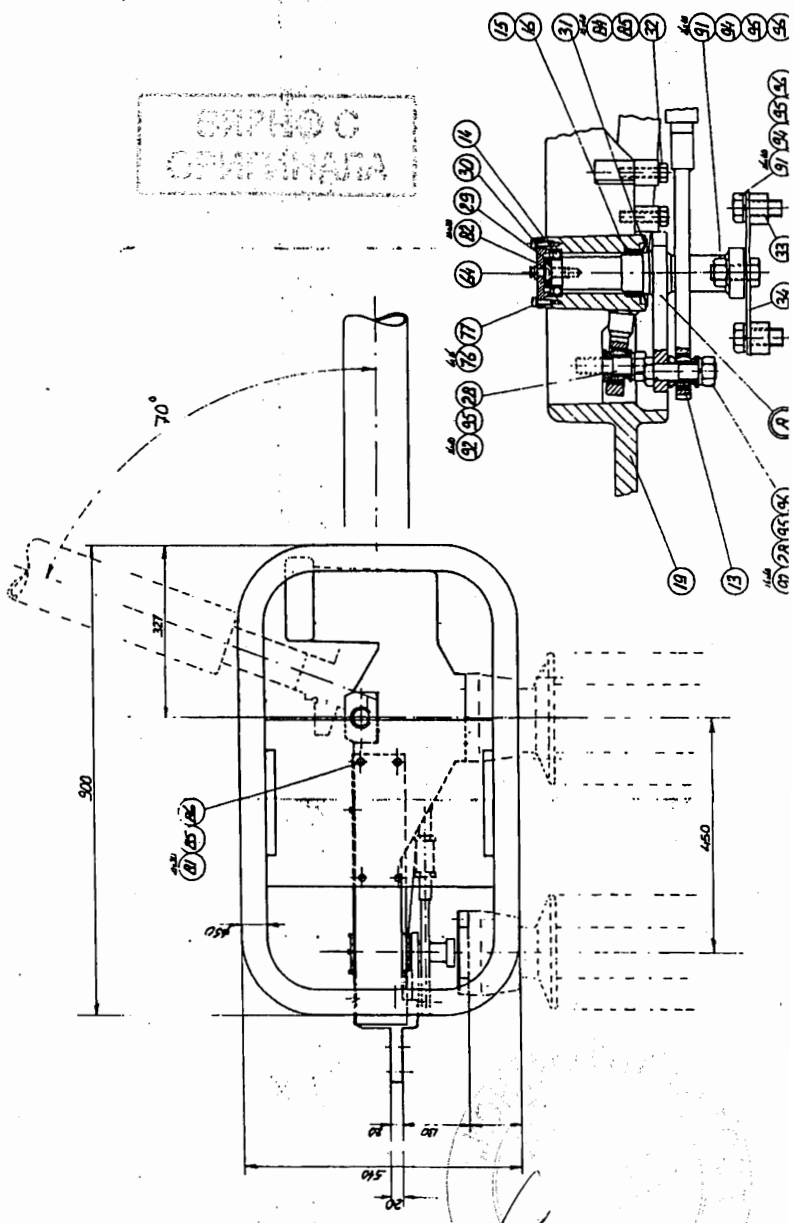
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| №            | 1     | 2     | 3     | 4     | 5     |
| Кол-во       | 2     | 1     | 2     | 2     | 1     |
| Материал     | Сталь | Сталь | Сталь | Сталь | Сталь |
| Изготовление | ...   | ...   | ...   | ...   | ...   |
| Проверка     | 1/5   | 1/2   |       |       |       |

**HAPAM** COMPANY  
МЭС ЗЛФ IV  
506981

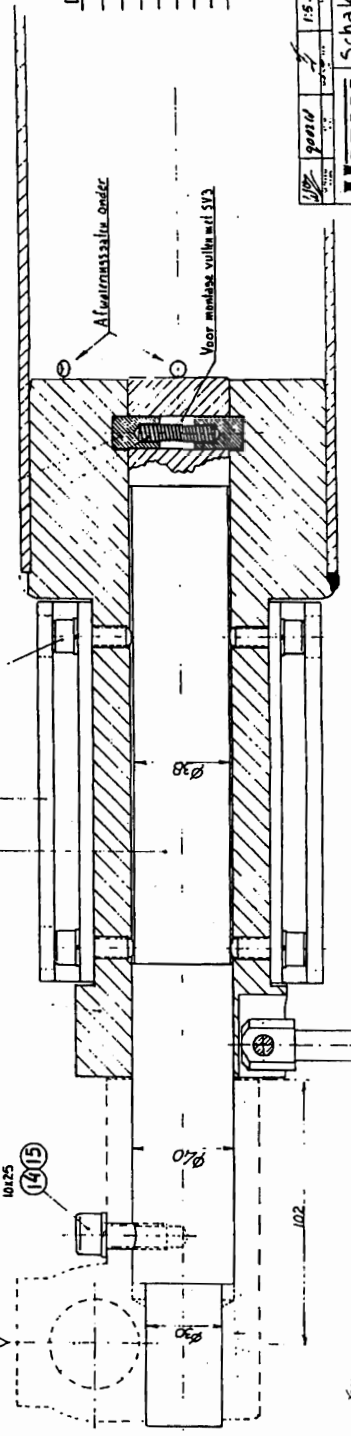
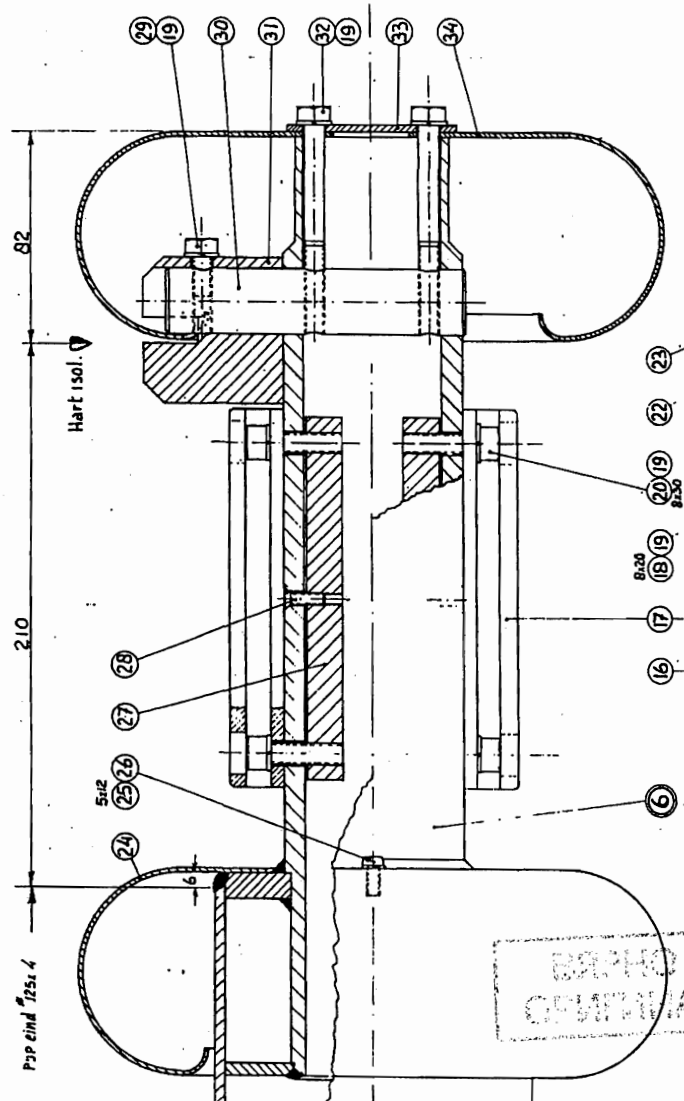
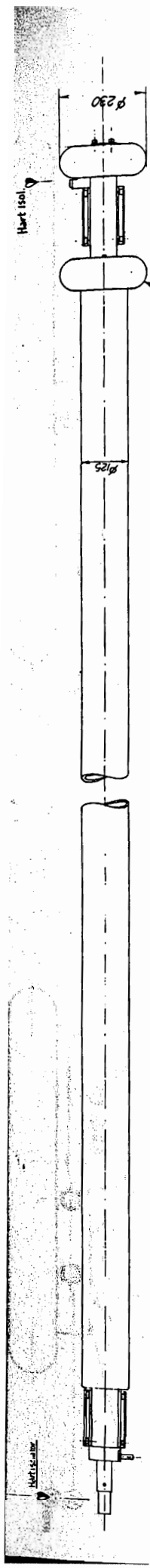
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СЕРИО С  
СЕРИЯ А



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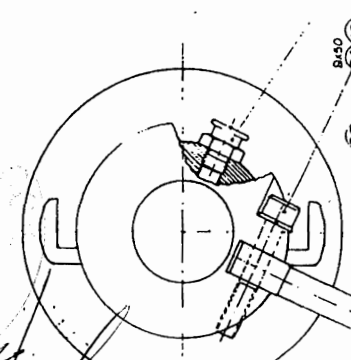
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**HADAM**

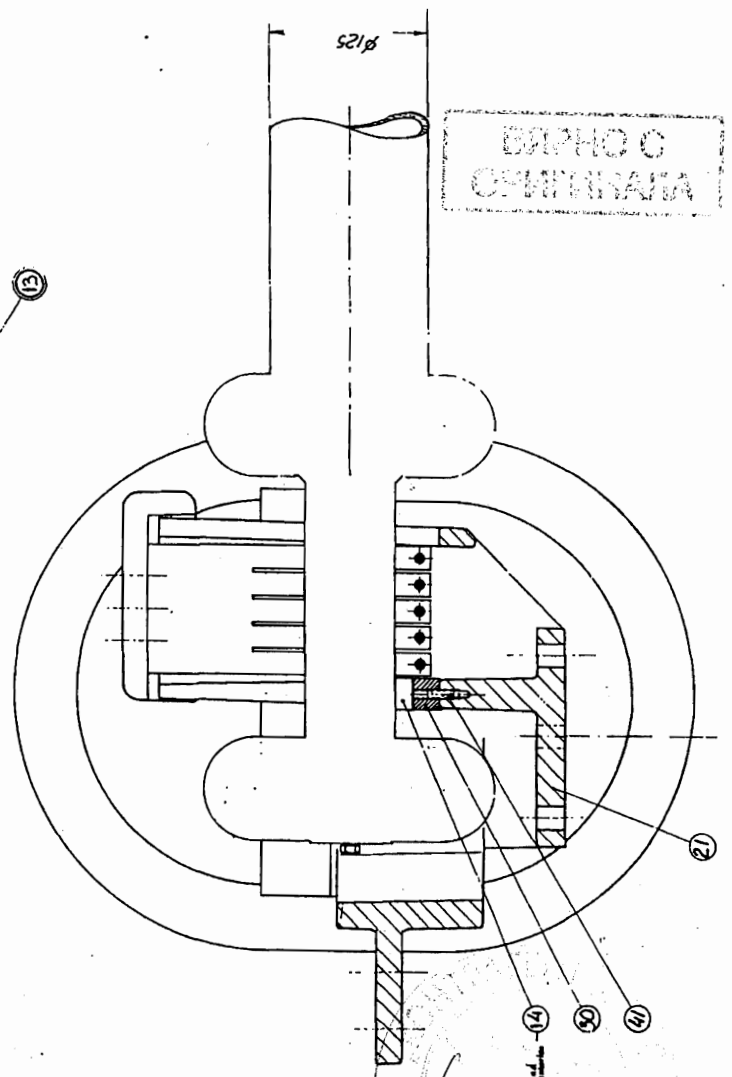
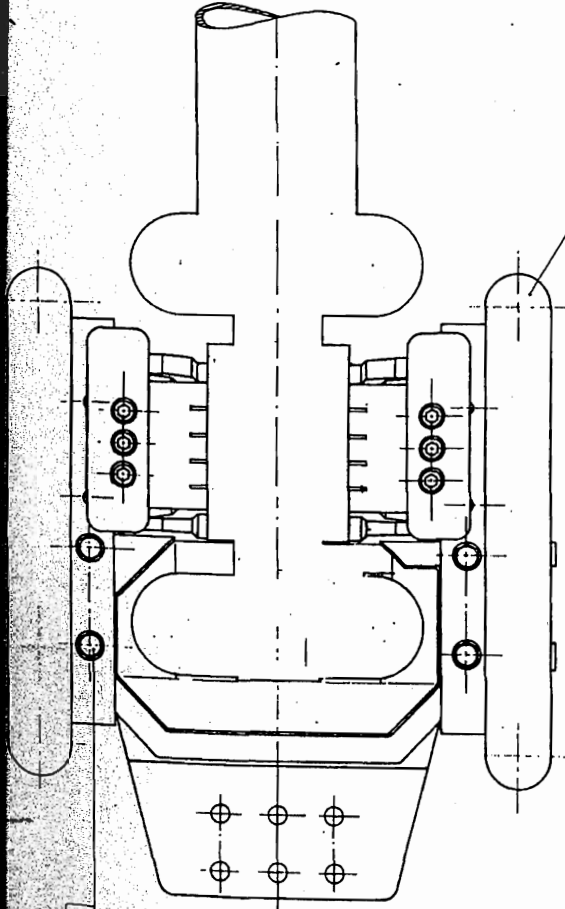
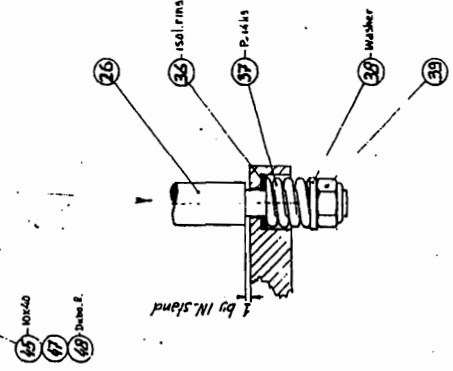
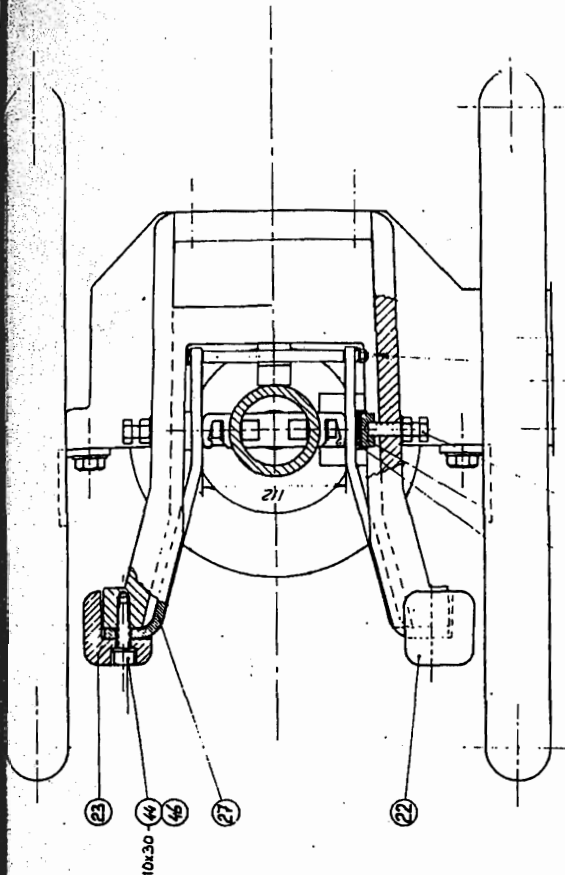
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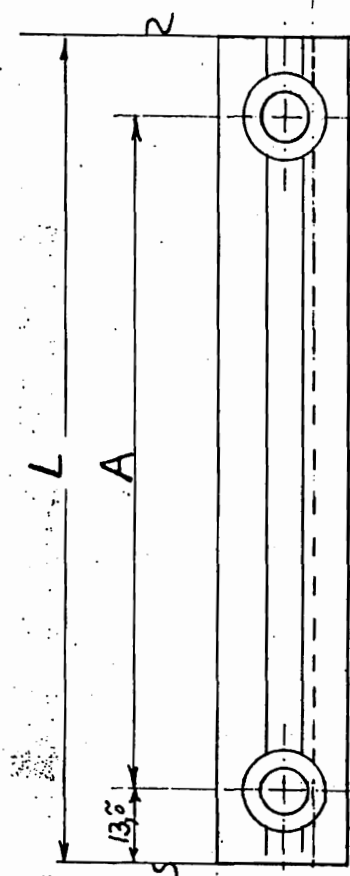
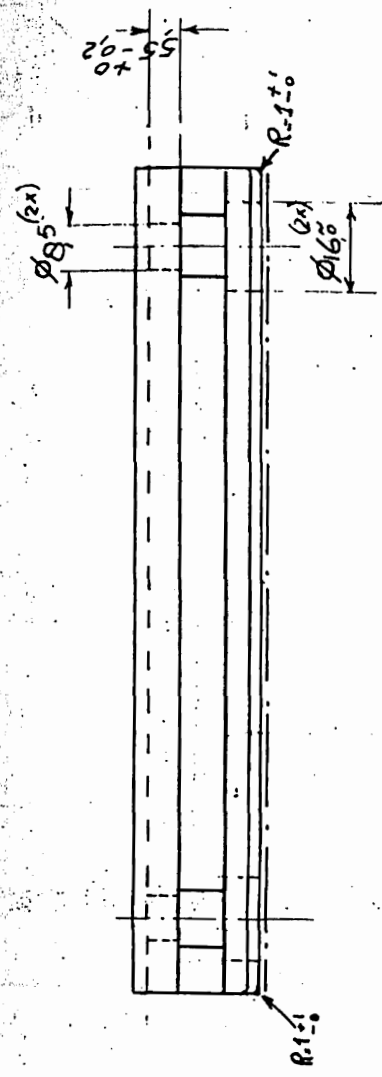
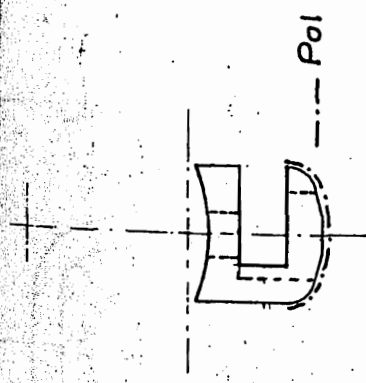
99 of 181



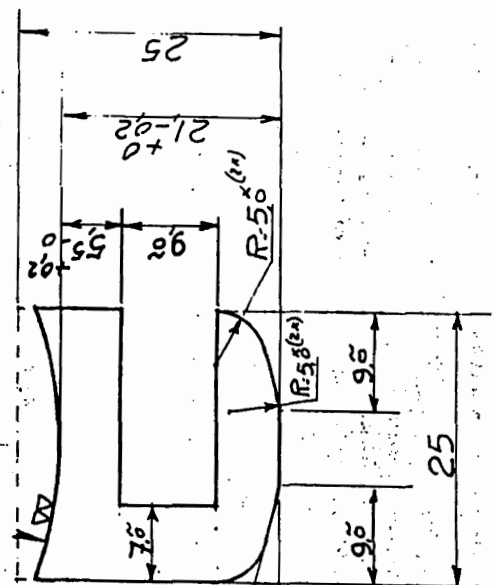
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**HAPAM**  
 ONT VANG KONTRAT 506986  
 KOP 245 HV

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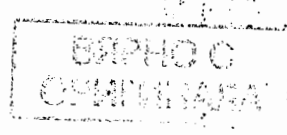
Litv. 1 L = 146,8 A = 120,8  
 Litv. 2 L = 151,8 A = 125,8



|          |        |    |             |              |                      |
|----------|--------|----|-------------|--------------|----------------------|
| REVISION | DATE   | BY | DESCRIPTION | SCALE        | MATERIAL             |
| 1        | 090707 |    | 1:1-2:1     | AG 21e COMM. | K. VIKRY 11 02 12/25 |
| 2        |        |    |             |              |                      |
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| 14       |        |    |             |              |                      |
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**HAPAM**  
 KONTAKT  
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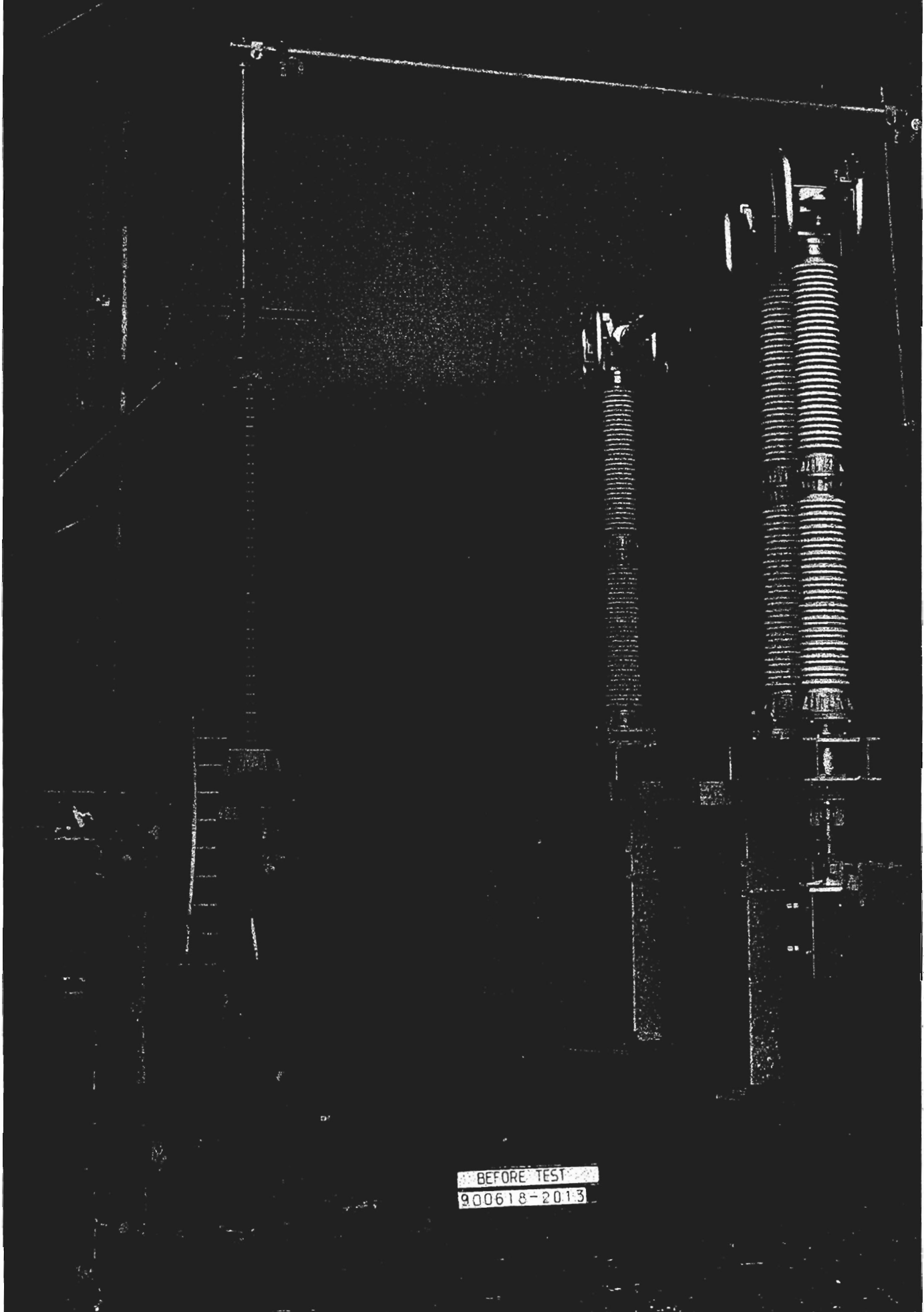
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BEFORE TEST  
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AFTER TEST  
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AFTER TEST  
10618-2014