



**Technical Report No. 028-7130 95685-350**  
**of 22.02.2017**

**Client:** Lukas Hydraulik GmbH  
Weinstraße 39  
D-91058 Erlangen  
  
Mr. Sauerbier

**Manufacturing location:** Lukas Hydraulik GmbH  
Weinstraße 39  
D-91058 Erlangen

**Object of evaluation:** Combi Tools  
SC 357; SC 358; SC 557

**Test specification:** DIN EN 13204: 2016-12  
Double acting hydraulic rescue tools for fire and rescue service

**Purpose of the evaluation:** Testing in accordance with the test specification

**Test result:** The presented tools meet the demands of the mentioned test specification

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## **1 Description of the test subject**

### **1.1 Function**

A hydraulic rescue tool able to perform a minimum of at least three functions namely: spreading, squeezing and cutting without exchange of removable parts.

### **1.2 Technical Data**

See attachment 1 till 3

## **2 Order**

### **2.1 Date of the order, sign of the client**

27.10.2016

### **2.2 Test sample receipt, location**

On-site testing

### **2.3 Date of the testing**

20.02.2017 - 22.02.2017

### **2.4 Location of the testing**

LUKAS Hydraulik GmbH  
Weinstraße 39  
D-91058 Erlangen

### **2.5 Variation or exemption of the test procedure**

none

## **3 Test results**

The presented tools meet the demands of the DIN EN 13204: 2016-12



#### 4 Remark

The operating instruction has been checked according to the minimum standards described in the product standard. The producer is responsible for the correctness of all other content as well as the design and the layout.

#### 4.1 Remark for manufacturing

The setup of the tool must correspond with the documentation. Before safety-relevant changes of the product will be transfer into the current manufacturing, these require a check for evaluation, for the admission in the documentation and if necessary actualization of the certificate.

#### 5 Summary

The presented tools meet the demands of the DIN EN 13204: 2016-12

TÜV SÜD

Test Engineer

i.A. Uwe Beck  
AS BWS-FG

Checked by

Gerhard David  
PS SL





**Attachment 1 Technical data**  
**Order number 028-7130 95685-350**

## Parameter

Type:	Combi -Tool SC 357
Art. No.:	81-30-20 173 037 000
Nominal pressure:	70 MPa
Specification:	CK 38/365-I-14,8

### Technical data

Spreading distance:	365 mm
Pulling way with KSV 8/50:	380 mm
Cutting width of opening:	272 mm
EN-Cutting capacity:	I
Cutting performance:	1I – 2J – 3I – 4I – 5J
Spreading force (25mm from tips):	
1 - Highest spreading force	48,0 KN
2 - Lowest spreading force	38,0 KN
Pulling force with KSV 8/50:	
1 - Highest pulling force	48,0 KN
2 - Lowest pulling force	41,0 KN
Dimension:	
Length:	777 mm
Width:	220 mm
Height:	170 mm
Total Weight:	14,8 kg



**Attachment 2 Technical data**  
**Order number 028-7130 95685-350**

## Parameter

Type:	Combi -Tool SC 358
Art. No.:	81-30-22
Nominal pressure:	70 MPa
Specification:	CK 38/368-I-14,8

### Technical data

Spreading distance:	368 mm
Pulling way with KSV 11:	382 mm
Cutting width of opening:	309 mm
EN-Cutting capacity:	I
Cutting performance:	1I – 2J – 3I – 4J – 5J

Spreading force (25mm from tips):	
1 - Highest spreading force	49,0 KN
2 - Lowest spreading force	38,0 KN

Pulling force with KSV 11:	
1 - Highest pulling force	61,0 KN
2 - Lowest pulling force	46,0 KN

Dimension:	
Length:	774 mm
Width:	228 mm
Height:	172 mm

Total Weight:	14,8 kg
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**Attachment 3 Technical data**  
**Order number 028-7130 95685-350**

## Parameter

Type:	Combi -Tool SC 557
Art. No.:	81-30-30 173 047 000
Nominal pressure:	70 MPa
Specification:	CK 41/430-J-19,8

### Technical data

Spreading distance:	430 mm
Pulling way with KSV 13:	315 mm
Cutting width of opening:	355 mm
EN-Cutting capacity:	J
Cutting performance:	1J - 2K - 3K - 4K - 5K

Spreading force (25mm from tips):	
1 - Highest spreading force	53,0 KN
2 - Lowest spreading force	41,0 KN

Pulling force with KSV 13:	
1 - Highest pulling force	90,0 KN
2 - Lowest pulling force	73,0 KN

Dimension:	
Length:	840 mm
Width:	295 mm
Height:	190 mm

Total Weight:	19,8 kg
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