



MAEDA SEISAKUSHO CO., LTD.

1095 Onbegawa, Shinonoi, Nagano City
Nagano 388-8522, JAPON
TEL +81-(0) 26-292-2228
FAX +81-(0) 26-293-8499
<http://www.maesei.co.jp/english/index.html>



DECLARATION CE DE CONFORMITE DE MACHINE

Le Fabricant

Nom de société: Maeda Seisakusho Co., Ltd.
Adresse: 1095 Onbegawa, Shinonoi, Nagano City
Nagano, 388-8522 JAPON

Le Représentant européen

Nom de société: AB Kranlyft
Adresse: Fibervagen 1 435 33 Molnlycke SUEDE
Tél +46 31 80 70 00

Déclare par la présente que la machine décrite ci-dessous:

Produit: Mini-grue sur chenilles
Modèle: CC985S-1 (puissance kW = 41.0)
Serial Number: 51262 51987
Année de Construction: 2018

- Est en conformité avec les directives suivantes:

La directive machines 2006/42/EC
Les deux derniers chiffres de l'année dans laquelle le marquage CE était apposé sont 12

- Est en conformité avec les provisions suivantes

" Directive de basse tension 2006/95/EC "
" Directive CEM 2004/108/EC "
" Directive d'émissions sonores dans l'environnement des matériels destinés à être utilisés
à l'extérieur des bâtiments 2000/14/EC, modifiée par la Directive 2005/88/EC"
- Niveau de puissance acoustique mesuré = 95.7 dB LWA
- Niveau de puissance acoustique garanti = 101 dB LWA

Et déclare en outre que:

- Les (parties /clauses des) normes harmonisées suivantes ont été appliquées:

EN ISO12100-:2010	Sécurité des machines - Principes généraux de conception - Evaluation et réduction des risques
EN60204-1:2006	Sécurité des machines - Equipement électrique des machines - Partie 1: Exigences générales
EN13000:2010 (Reference)	Grues - Grues mobiles
EN61000-6-2:2005	Compatibilité électromagnétique (CEM) - Partie 6-2: Normes génériques - Immunité pour les environnements industriels
EN61000-6-4:2007	Compatibilité électromagnétique (CEM) - Partie 6-4: Normes génériques - Emission pour les environnements industriels
EN ISO3744:1995	Acoustique. Détermination de niveaux de puissance acoustique émis par les sources de bruit à partir de la pression acoustique. Méthode d'expertise dans des conditions approchant celles du champ libre sur plan réfléchissant

Place: Nagano, Japon

Date: 9 janvier, 2018

Kazutaka Kitada

Directeur Général / Département machines industrielles
MAEDA SEISAKUSHO CO., LTD.



MAEDA SEISAKUSHO CO., LTD.

1095 Shinonoi Onbegawa, Nagano City

Nagano 388-8522, JAPAN

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TO WHOM IT MAY CONCERN:

Certificate of Test and Inspection

4 Fall and 2 Fall, 3 Sheave Hook Block
Manufacturer: MAEDA SEISAKUSHO CO., LTD.
Model for: CC985S-1
Serial No. : 51262
Hook Block No. : 17824

We hereby certify that this hook block has been tested and inspected in accordance with the quality standard of our company and we guarantee the quality of this product.

Hook Block Ass'y:	Part No. 578-1257700
	Drawing No. 584-4587100
Specifications:	Refer to the attached document for details
Safe Working Load:	5910 kg
Sheave rope diameter:	10 mm
Actual value (Internal diameter):	85 mm
Date of Test and Inspection:	January 9, 2018

Signed on behalf of MAEDA SEISAKUSHO CO., LTD.:

Seiichi Yamaguchi
General manager / Quality Assurance Division
MAEDA SEISAKUSHO CO., LTD.



MAEDA SEISAKUSHO CO., LTD.

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EC DECLARATION OF CONFORMITY OF THE MACHINERY

Manufacturer

Company Name: Maeda Seisakusho Co., Ltd.
Address: 1095 Onbegawa, Shinonoi, Nagano City
Nagano, 388-8522 JAPAN

European Representative

Company Name: AB Kranlyft
Address: Fibervagen 1 435 33 Molnlycke SWEDEN
TEL +46 31 80 70 00

Hereby declares that the machine described below:

Product Name: Fly jib for Telescoping Crawler Crane
Model: Fly jib for CC985S-1
Serial Number: FB002
Year of Manufacture: 2018

-is in conformity with the following directives

Machinery Directive 2006/42/EC

-is in conformity with the following provisions

" Low Voltage Directive 2006/95/EC "

" EMC Directive 2004/108/EC "

" Noise emission in the environment by equipment for use outdoors Directive 2000/14/EC,
amended by the Directive 2005/88/EC"

- And furthermore declares that:

- The following (parts/clauses of) harmonized standards have been applied:

EN ISO12100-2:2010	Safety of machinery – General principles for design – Risk assesment and risk reduction
EN60204-1:2006	Safety of machinery – electrical equipment of machines – Part 1: General requirements
EN13000:2010 (Reference)	Cranes – Mobile cranes
EN61000-6-2:2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments
EN61000-6-4:2007	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission for industrial environments
EN ISO3744:1995	Acoustics. Determination of sound power levels of noise sources using sound pressure. Engineering method in an essentially free field over a reflection plane

Place: Nagano, Japan

Date: January 9, 2018

Kazutaka Kitada

Managing Director / Industrial machinery Division
MAEDA SEISAKUSHO CO., LTD.



MAEDA SEISAKUSHO CO., LTD.

1095 Shinonoi Onbegawa, Nagano City

Nagano 388-8522, JAPAN

TEL +81-(0) 26-292-2228

FAX +81-(0) 26-293-5590

TO WHOM IT MAY CONCERN:

Certificate of Test and Inspection

Single fall Hook Block for fly jib

Manufacturer: MAEDA SEISAKUSHO CO., LTD.

Model for: CC985S-1

Serial No. : 51262

Hook Block No. : 7301

We hereby certify that this hook block has been tested and inspected in accordance with the quality standard of our company and we guarantee the quality of this product.

Hook Block Ass'y:

Part No. 557-2222800

Drawing No. 584-4587200

Specifications:

Refer to the attached document for details

Safe Working Load:

1480 kg

Actual value (Internal diameter):

70 mm

Date of Test and Inspection:

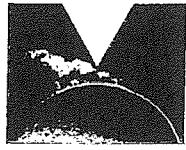
January 9, 2018

Signed on behalf of MAEDA SEISAKUSHO CO., LTD.:

Seiichi Yamaguchi

General manager / Quality Assurance Division

MAEDA SEISAKUSHO CO., LTD.



MAEDA

MAEDA SEISAKUSHO CO., LTD.

1095 Onbegawa Shinonoi, Nagano City
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CERTIFICATE FOR LOAD TEST

We herewith confirm that following model:

MC104CER	LC383M-5
MC174CRM	LC785M-8B
MC285CRM	MK1033CW-1
MC285CRME	MK1033CWH-1
MC285CGRM-2	MK1033CWE-1
MC285CRM-2	MK1033CWEH-1
MC285CRME-2	MC815CWM
MC305CRM-2	MC815CWME
MC305CRME-2	CC985S-1
MC405CRM	CC1485S-1
MC405CRME	

Have been test-lifted with 1.25 times the rated total load at our factory.

We also confirm that the group of classification of the mechanism as a whole is M3
and type of crane is A1 in accordance with ISO 4301-2 (JIS B 8822-1).

Place: Nagano, Japan
Date: 3, March, 2017

Kazutaka Kitada
Managing Director / Industrial machinery Division
MAEDA SEISAKUSHO CO., LTD.

Certificate number NB985E



CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE

Name and address of owner of crane:	Kranlyft-group , Fibervagen 1, 435 33 Molnlycke , Sweden
Name and address of maker of crane:	Maeda Seisakusho Co., Ltd.
Type of crane and nature of power.	Hydraulic tracked diesel engined telescopic crawler crane, Model CC985S-1
Date of manufacture of crane.	2018
IDENTIFICATION NUMBER:	(a)Maker's serial number: 51262 (b)Owner's distinguishing Mark or number(if any): not registered
Make and type of automatic safe load Make and type of derricking interlock , if required:	Maeda Seisakusho Co., Ltd. N/A
Date of last previous test of crane:	New machine
Date of last previous thorough examination of crane:	New machine
Safe working load or loads:	See attached sheets 1 to 5
In the case of a crane with a derricking jib or jibs the max. radius at which the jib or jibs may be worked (in feet):	See attached sheets 1 to 5
Defects noted and alterations or repairs required before crane is put into service:	None. None.

I hereby certify that the crane described in this certificate was tested and thoroughly examined on 9/Jan/2018 and that the above particulars are correct.

Signature:  Kitajima Qualification Engineer

Name and address of person , company or association by whom the person conducting the test and examination is employed. Maeda Seisakusho Co., Ltd.
1095 Onbegawa , Shinonoi ,
Nagano city , Nagano prefecture
388-8522 , Japan

Date of certificate: 9/Jan/2018

For notes see overleaf.

MAEDA CC985S-1

CERTIFICATE No. NB985E

[illegible]

DATE OF CERTIFICATE : 9 / Jan / 2018

SIGNATURE LCB ENGINEER

SERIAL NO:

MAEDA CC985S-1

CERTIFICATE No. NB985E

[illegible]

DATE OF CERTIFICATE : 9 / Jan / 2018

SIGNATURE

100

ENGINEER

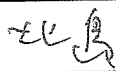
SERIAL NO: 51262

MAEDA CC985S-1

CERTIFICATE No. NB985E

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE					PAGE 3
* Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a	10.28 m boom	2.00		NIL	2600
variable operating radius (including	1+2+3 boom	2.50		NIL	2600
a crane with a derricking jib or with		3.00		NIL	2310
interchangeable jibs of different		3.50		NIL	2010
lengths) the safe working load at		4.00		NIL	1750
various radii of the jib, jibs,		4.50		NIL	1530
or crab must be given. Test loads at		5.00		NIL	1340
various radii should be given in		5.50		NIL	1170
column (IV) and in the case of a		6.00		NIL	1030
safe working load which has been		6.50		1113	890
calculated without the application of		7.00		NIL	780
a test load "NIL" should be entered		7.50		NIL	670
in that column.		8.00		NIL	580
		8.50		NIL	490
* In the case of a crane with a		9.00		NIL	410
derricking jib or jibs the maximum		9.17		NIL	410
radius at which the jib or jibs may					
be worked is : 9.17m					
* We herewith confirm that we test lift all our manufactured cranes individually with 1.25 times the rated load before delivering. * We also confirm that the group of classification of the mechanism as a whole is M3 (for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2). * I hereby certify that the crane described in this certificate was tested and thoroughly examined on 9 / Jan / 2018 and that the above particulars are correct.					
MAEDA SEISAKUSHO CO., LTD. TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 9 / Jan / 2018

SIGNATURE  ENGINEER

SERIAL NO: 51262

MAEDA CC985S-1

CERTIFICATE No. NB985E

CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE				PAGE 5	
*Safe working load or loads.	LENGTH OF JIB (METRES)	RADIUS (METRES)	ANGLE °	TEST LOAD KG	SAFE WORKING LOAD KG
In the case of a crane with a	15.78 m boom	2.50		NIL	1400
variable operating radius (including	1+2+3+4+5 boom	3.00		NIL	1400
a crane with a derricking jib or with		3.50		NIL	1400
interchangeable jibs of different		4.00		NIL	1400
lengths) the safe working load at		4.50		NIL	1320
various radii of the jib, jibs,		5.00		NIL	1200
or crab must be given. Test loads at		5.50		NIL	1090
various radii should be given in		6.00		NIL	990
column (IV) and in the case of a		6.50		1125	900
safe working load which has been		7.00		NIL	820
calculated without the application of		7.50		NIL	750
a test load "NIL" should be entered		8.00		NIL	680
in that column.		8.50		NIL	610
		9.00		NIL	560
		9.50		NIL	500
*In the case of a crane with a		10.00		NIL	450
derricking jib or jibs the maximum		11.00		NIL	360
radius at which the jib or jibs may		12.00		NIL	280
be worked is : 14.67m		13.00		NIL	210
		14.00		NIL	200
		14.67		NIL	200
*We herewith confirm that we test lift all our manufactured cranes individually with 1.25 times the rated load before delivering. *We also confirm that the group of classification of the mechanism as a whole is M3 (for hoist) and type of crane is A1 in accordance with JIS B 8822-1 (ISO 4301-2). *I hereby certify that the crane described in this certificate was tested and thoroughly examined on 9/Jan/2018 and that the above particulars are correct.					
MAEDA SEISAKUSHO CO., LTD. TEL : +81-(0)26-292-2304 FAX : +81-(0)26-293-8768					

DATE OF CERTIFICATE : 9/Jan/2018

SIGNATURE  ENGINEER

Strength Calculation of 4 Falls Hook

Revised

NOV. 27. 2015

Established

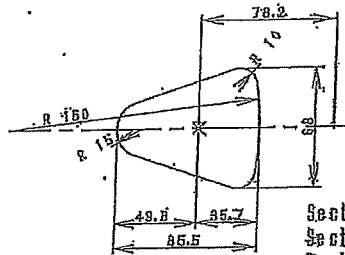
Mar. 3. 2017

Material and tensile strength of 4 Falls hook:

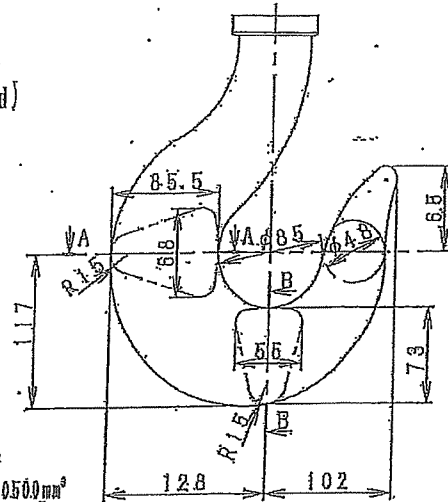
Material: S45C-H (Hardened and tempered)

Tensile strength: $\sigma_B = 686 \text{ N/mm}^2$

1. Strength calculation of cross section A-A:



Sectional area: $A = 3997 \text{ mm}^2$
Section modulus: $Z_{\text{neutral}} = 40500 \text{ mm}^3$
Section modulus: $Z_{\text{tension}} = 56500 \text{ mm}^3$



Tensile stress σ_A of the section A-A is,

$$\sigma_A = (W \times R_A / Z_A + W / A_A) \times 9.80665$$

where, W is rated load

R_A is distance from load application line to centroid of section A-A

A_A is sectional area section A-A

Z_A is section modulus on tension side of section A-A

5910 kg

78.2 mm

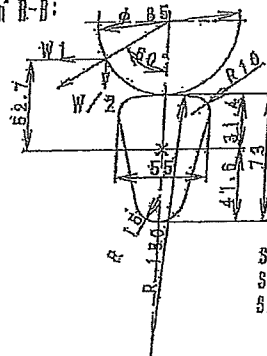
3997 mm²

56500 mm³

$$\sigma_A = (5910 \text{ kg} \times 78.2 \text{ mm} / 56500 \text{ mm}^3 + 5910 \text{ kg} / 3997 \text{ mm}^2) \times 9.80665 = 94.7 \text{ N/mm}^2$$

$$\text{Safety factor } S = \sigma_B / \sigma_A = 686 \text{ N/mm}^2 / 94.7 \text{ N/mm}^2 = 7.24 > 5$$

2. Strength calculation of cross section B-B:



Sectional area: $A = 2922 \text{ mm}^2$
Section modulus: $Z_{\text{neutral}} = 26500 \text{ mm}^3$
Section modulus: $Z_{\text{tension}} = 35100 \text{ mm}^3$

Tensile stress σ_B of the section B-B is,

$$\sigma_B = (W_1 \times R_B / Z_B + W_1 / A_B) \times 9.80665$$

where, W_1 is Horizontal component due to rated load

$(5910/2) \times \tan 60^\circ = 5118 \text{ kg}$

R_B is distance from load application line to centroid of section B-B

52.7 mm

A_B is sectional area section B-B

2922 mm²

Z_B is section modulus on tension side of section B-B

35100 mm³

$$\sigma_B = (5118 \text{ kg} \times 52.7 \text{ mm} / 35100 \text{ mm}^3 + 5118 \text{ kg} / 2922 \text{ mm}^2) \times 9.80665 = 92.5 \text{ N/mm}^2$$

$$\text{Safety factor } S = \sigma_B / \sigma_A = 686 \text{ N/mm}^2 / 92.5 \text{ N/mm}^2 = 7.42 > 5$$

In either case, safety factor is greater than 5.

MODEL: CC985S-1, LC785M-8, LC1385M-8, CC1485S-1



MAEDA SEISAKUSYO CO., LTD.

Drawing No. 584-4587100

 NIIGATA SEIKO CO., LTD.

NO.56, Nakakido, Higashi-ku, Niigata-shi, Niigata-ken 950-0886, Japan
新潟県新潟市東区中木戸 56 番地
新潟製綱株式会社

検査証明書 [CERTIFICATE OF INSPECTION]

日付 [Date] : March 15, 2017

顧客名 [To Messrs.] MAEDA SEISAKUSHO CO., LTD.

適用規格 [Specification] : JIS G 3525

部品番号 [Type] : S553-P081400

数量 [Quantity] 5

機種名 [Model] : CC985S-1

注文番号 [Order No.] : XX481230

ロット番号 [Lot No.] : B456

ロープ構成 [Construction] : IWRC6xFi(29) Ungalv.

ロープ撚り [Lay] : Right Hand (Z) Ordinary Lay

公称ロープ径 [Norminal Dia.] : 10.0mm

実際ロープ径 [Actual Dia.] : 10.22mm

ロープ長さ [Length] : 115 m

製品番号 [Product No.] : 17F4109

種別 [Grade] : S

規格破断荷重 [Specified Breaking Load] : 72.9 kN

実際破断荷重 [Actual Breaking Load] : 79.8 kN

外観 [Appearance] : Good

素線試験 [Wire Test] : Good

We hereby promise that the steel wire rope herein has been satisfactorily tested and inspected in accordance with the requirements of the above specification.

上記のワイヤロープは、規格通りに検査に合格していることを証明致します。



Manager

 NIIGATA SEIKO CO., LTD.

NO.56, Nakakido, Higashi-ku, Niigata-shi, Niigata-ken 950-0886, Japan

 新潟県新潟市東区中木戸 56 番地

新潟製綱株式会社

検査証明書 [CERTIFICATE OF INSPECTION]

日付 [Date] : February 22, 2017.

顧客名 [To Messrs.] MAEDA SEISAKUSHO CO., LTD.

部 品 名 称 [Description] : Steel Wire Rope with Joint Clamp

部 品 番 号 [Type] : S551-3032600

数 量 [Quantity] : 9

機 種 名 [Model] : CC985S-1

用 途 [Location] : Boom Contraction

注 文 番 号 [Order No.] : XX468874

ワイヤロープ [Steel Wire Rope Product No.] : 16C4286

ロープ 構成 [Construction] : IWRC 6xFi(29) Ungalv.

ロープ 撚り [Lay] : Right Hand (Z) Ordinary Lay

規格破断荷重 [Minimum Breaking Load] : 24300 N

ロープ 径 [Norminal Dia.] : 6.0mm

部 品 寸 法 [Dimemnsions of Description]

全 長 [Length] : 14260 ±15 mm

端 末 加 工 [Ends of Description] : B446

端末金具材質 [Materials] : SCM415

加 工 方 法 [Kind of Proccessing] : Swaging

保証締結荷重 [Minimum Proof Load] : 24300 N

破断試験結果 [Load at Breaking Test] : 33800 N

We hereby promise that the steel wire rope with joint clamp herein has been satisfactorily tested and inspected in accordance with the requirements of the above specification.

上記のジョイントクランプ加工品は、規格通りに検査に合格していることを証明致します。



Manager

 NIIGATA SEIKO CO., LTD.

NO.56, Nakakido, Higashi-ku, Niigata-shi, Niigata-ken 950-0886, Japan

 新潟県新潟市東区中木戸 56 番地
新潟製綱株式会社

検査証明書 [CERTIFICATE OF INSPECTION]

日付 [Date] : February 22, 2017

顧客名 [To Messrs.] MAEDA SEISAKUSHO CO., LTD.

部 品 名 称 [Description] : Steel Wire Rope with Joint Clamp
部 品 番 号 [Type] : S551-3032700
数 量 [Quantity] : 9
機 種 名 [Model] : CC985S-1
用 途 [Location] : Boom Contraction
注 文 番 号 [Order No.] : XX468875

ワイヤロープ [Steel Wire Rope Product No.] : 16F0725
ロープ 構成 [Construction] : IWRC 6xFi(29) Ungalv.
ロープ 撚り [Lay] : Right Hand (Z) Ordinary Lay
規格破断荷重 [Minimum Breaking Load] : 43300 N
ロープ 径 [Norminal Dia.] : 8.0mm

部 品 寸 法 [Dimemnsions of Description]
全 長 [Length] : 14850 $\pm$ 15 mm

端 末 加 工 [Ends of Description Lot No.] : B446
端末金具材質 [Materials] : SCM415
加 工 方 法 [Kind of Proccessing] : Swaging
保証締結荷重 [Minimum Proof Load] : 43300 N
破断試験結果 [Load at Breaking Test] : 53600 N

We hereby promise that the steel wire rope with joint clamp herein has been satisfactorily tested and inspected in accordance with the requirements of the above specification.

上記のジョイントクランプ加工品は、規格通りに検査に合格していることを証明致します。



Manager

 NIIGATA SEIKO CO., LTD.

NO.56, Nakakido, Higashi-ku, Niigata-shi, Niigata-ken 950-0886, Japan

 新潟県新潟市東区中木戸 56 番地
新潟製綱株式会社

検査証明書 [CERTIFICATE OF INSPECTION]

目付 [Date] : February 22, 2017

顧客名 [To Messrs.] MAEDA SEISAKUSHO CO., LTD.

部 品 名 称 [Description] : Steel Wire Rope with Joint Clamp

部 品 番 号 [Type] : S551-3032800

数 量 [Quantity] : 9

機 種 名 [Model] : CC985S-1

用 途 [Location] : Boom Extension

注 文 番 号 [Order No.] : XX468876

ワイヤロープ [Steel Wire Rope Product No.] : 16E4763

ロープ 構成 [Construction] : IWRC 6xFi(29) Ungalv.

ロープ 撚り [Lay] : Right Hand (Z) Ordinary Lay

規格破断荷重 [Minimum Breaking Load] : 67700 N

ロープ 径 [Norminal Dia.] : 10.0mm

部 品 寸 法 [Dimemnsions of Description]

全 長 [Length] : 8450 ±10 mm

端 末 加 工 [Ends of Description Lot No.] : B446

端末金具材質 [Materials] : SCM415

加 工 方 法 [Kind of Proccessing] : Swaging

保証締結荷重 [Minimum Proof Load] : 67700 N

破断試験結果 [Load at Breaking Test] : 87300 N

We hereby promise that the steel wire rope with joint clamp herein has been satisfactorily tested and inspected in accordance with the requirements of the above specification.

上記のジョイントクランプ加工品は、規格通りに検査に合格していることを証明致します。



Manager



NIIGATA SEIKO CO., LTD.

NO.56, Nakakido, Higashi-ku, Niigata-shi, Niigata-ken 950-0886, Japan
新潟県新潟市東区中木戸 56 番地
新潟製鋼株式会社

検査証明書 [CERTIFICATE OF INSPECTION]

日付 [Date] : February 22, 2017

顧客名 [To Messrs.] MAEDA SEISAKUSHO CO., LTD.

部 品 名 称 [Description] : Steel Wire Rope with Joint Clamp
部 品 番 号 [Type] : S551-3032900
数 量 [Quantity] : 9
機 種 名 [Model] : CC985S-1
用 途 [Location] : Boom Extension
注 文 番 号 [Order No.] : XX468877

ワイヤロープ [Steel Wire Rope Product No.] : 16E4764
ロープ 構成 [Construction] : IWRC 6xFi(29) Ungalv.
ロープ 撚り [Lay] : Right Hand (Z) Ordinary Lay
規格破断荷重 [Minimum Breaking Load] : 144000 N
ロープ 径 [Norminal Dia.] : 14.0mm

部 品 寸 法 [Dimemnsions of Description]
全 長 [Length] : 8550 $\pm$ 10 mm

端 末 加 工 [Ends of Description Lot No.] : B446
端末金具材質 [Materials] : SCM415
加 工 方 法 [Kind of Proccessing] : Swaging
保証締結荷重 [Minimum Proof Load] : 144000 N
破断試験結果 [Load at Breaking Test] : 162000 N

We hereby promise that the steel wire rope with joint clamp herein has been satisfactorily tested and inspected in accordance with the requirements of the above specification.

上記のジョイントクランプ加工品は、規格通りに検査に合格していることを証明致します。


Manager