POLEA TENSORA COMPACT 126

COMPACT 126 TENSING PULLEY

POULIE DE TENSION COMPACT 126

SPANROLLE COMPACT 126

INSTRUCCIONES DE USO Y MANUTENCIÓN/
INSTRUCTIONS FOR USE AND MAINTENANCE/
INSTRUCTIONS D'USAGE ET ENTRETIEN/
GEBRAUCHS- UND WARTUNGSANLEITUNG/

CERTIFICAT ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ 認證證書 ◆ CERTIFICATE ◆ ZERTIFIKAT

TYPE EXAMINATION CERTIFICATE

ELEVATOR COMPONENT / SYSTEM

Document number:	ATI / CA003 rev: 3
Certification Body:	TÜV SÜD ATISAE S.A.U. Ronda de Poniente, 4 ES 28760 Tres Cantos MADRID
Product:	Tensioning system for overspeed governor
Type:	COMPACT 120
Manufacturer:	DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 ES 50750 ZARAGOZA.
Certificate Holder:	DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 ES 50750 ZARAGOZA.
Date of submission:	2025.03.07
Issuing date:	2025.03.19
Standards of reference: (1)	EN 81-20:2020; [5.6.2.2.1.3.d)]
Report number: (2)	8106091187 (2025.03.19)
Expiry date:	indefinite (please refer to tech. annex section 2.8)

Statement: The tensioning system for overspeed governor COMPACT 120 / ULTRACOMPACT assessed in this certificate can be used in connection with an appropriate overspeed governor within the scope of this type-examination. The solution for the tensioning system deviates from clause [5.6.2.2.1.3.d)] EN 81-20. This certificate can be mentioned as an annex in the certificate of the overspeed governor allowed to use it.

For legal reasons, and since this means is not a safety component according to annex III of Lifts Directive 2014/33/EU, this agency cannot issue an EU type-examination certificate.

This certificate can be used as justification of the features and scope of the system, to be assembled in the overspeed governor.

(1) Only for the clauses mentioned in the technical annex.
(2) For other applicable reports please refer to section 2.10 of the technical annex.

This certificate has a technical annex with reference ATI / CA003 R3.
This certificate is digitally signed. Only the document issued in format 'pdf' with its signature is valid.

DAS / 000777-1

TÜV SÜD ATISAE S.A.U.

Jordi Olivera
LCC Technical Director

INSTRUCTIONS FOR USE AND MAINTENANCE

1 INTRODUCTION

Compact tensing pulley is a product designed to provide the governor's rope with the tension required. It is a compact and perfect design to be used in installations with reduced space.

To design the Compact tensing pulley all its dimensions were reduced to the maximum.

This tensing pulley is a Dynatech product that is supplied pre-assembled. This allows the installer to save time when assembling it in the installation.

2 INSTRUCTIONS FOR USE AND MAINTENANCE

The key points to be taken into account are as follows:

i. The assembly instructions for each tensing pulley are to be observed.
ii. Compact tensing pulley is to be used with Quasar governors of a standard nature, with a governor's rope forming a closed loop.
iii. Use of the Compact 126 is valid for the following ropes:
   - Pfeifer Drako: Drako 250 T → 6 mm
   - Pfeifer Drako: Drako 250 T → 6,5 mm
   - Brunton Shaw: Elstar 8W → 6.5 mm
   - Gustav Wolf: PAWO 819W → 6,5 mm
iv. The Compact tensing pulley is to be properly located so that the rope going past the governor's and tensing pulleys flows correctly and, therefore, avoids decreasing the lifespan of both the rope and the governor's pulley groove, thus ensuring that the tensing pulley operates correctly.
v. Prevent bumps or dents.

2.1 COMPONENTS

2.2 ASSEMBLE THE INSTALLATION

First, before finally securing the Compact tensing pulley in the installation, it is **essential** to correctly position it so that the rope is suitably assembled and thus ensuring its correct operation in the future.

To do so, fit it in such a way that the governor's rope (12), either the branch coming from the governor or the one going to the driving bar's governor attachment (13), exactly coincides with the pulley's groove .

That is to say, both branches of the governor's rope must form a 90º angle with the upper cover of the Compact tensing pulley.

Once it is ensured that the governor's rope branches perfectly coincide with the pulley's groove, fix the Compact tensing pulley to the installation's floor via two M12 screws at the anchoring points (11) arranged for this purpose. See Figure 3.

Drawing DYN 66.C002.05 displays the distances between the anchoring points.

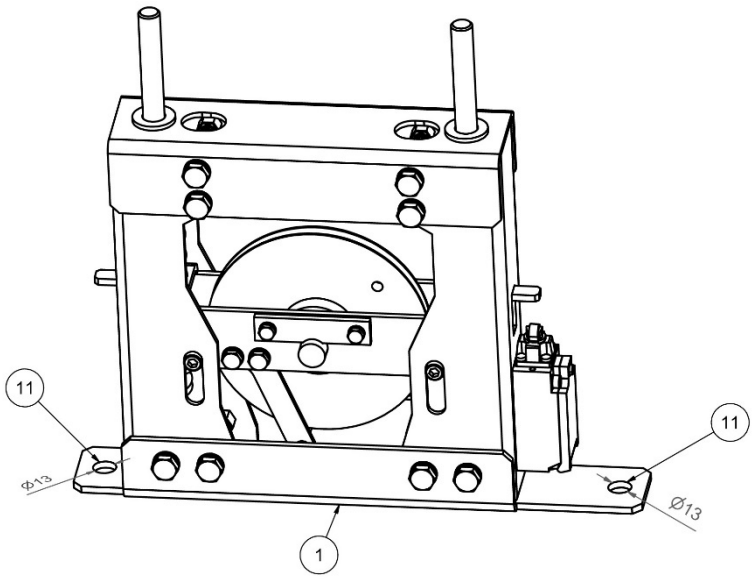


Figure 3: Compact tensing pulley's anchoring points

2.2.1 COMPACT GUIDE RAIL ADAPTER

The Compact tensing pulley may also be fixed to the guide rail by assembling an adapter.

2.3 ASSEMBLE THE GOVERNOR'S ROPE

The ropes to be installed are indicated in Point 2, Section iii of this manual.

These ropes is standard, but are used for special applications with reduced pulley diameters. Special care must be taken when using these specific ropes.

The manufacturer certificates for both ropes should be consulted for their proper application.

- PFEIFER DRAKO 250 T 6 mm y 6,5 mm → KP 067/2
- BRUNTON SHAW ELSTAR 8W 6.5 mm → CA 584-1
- GUSTAV WOLF PAWO 819W 6.5 mm →KP298

Consult the Quasar overspeed governor certificate and manual for detailed information on rope usage.

It is very important to align the rope as well as possible during installation. Both ropes have a stripe painted along their length (blue for DRAKO 250 T, green for PAWO 819W and red for ELSTAR 8W) to help achieve this. The stripe is used to check that there are no kinks or misalignment in the rope after assembly.

Once the Compact tensing pulley has been fixed, assemble the governor's rope onto the tensing pulley.

Turn the lower guard (16) for easier rope installation. To do so, unscrew the bolt (16.a) and loosen the bolt (16.b).

Insert the free end of one of the rope's branches into the holes on the upper bracket (7). Pass the rope's end between the pulley's groove (2) and the release-prevention device (8), surrounding the pulley (2), continuing up to the other release-prevention device (8) and going out at the hole opposite the one it was inserted.

Once the rope has passed through the Compact tensioner, place the lower guard (16) in its initial position and refit the bolt (16.a) and tighten (16.b).

Then, pass the free end of the rope previously passed through the tensing pulley through the driving bar's governor attachment (13). It is important to apply some tension on the rope's end (12), when assembling the cable clip (14) fixing the rope to driving bar's governor attachment (13)

The cable tensioner should be assembled between the Compact tensioner and the driving bar anchoring.

2.4 ROPE TIGHTENING

Before tightening the rope, please make sure that the cable-clips are correctly assembled.

To tighten the rope, unthread the spring-compressing nuts (5). To do so, it is recommended to unthread both nuts almost at the same time. That is to say, alternate the unthreading process of each nut so that both rope-tensing springs (3) become released at the same time, the pulley (2) uniformly lowers and the rope (12) becomes tightened. As the nuts (5) are being unthreaded, the governor's rope (12) becomes tightened. Unthread the nuts (5) until the springs are completely released. The M12 nuts should be removed as shown in the Figure 19.

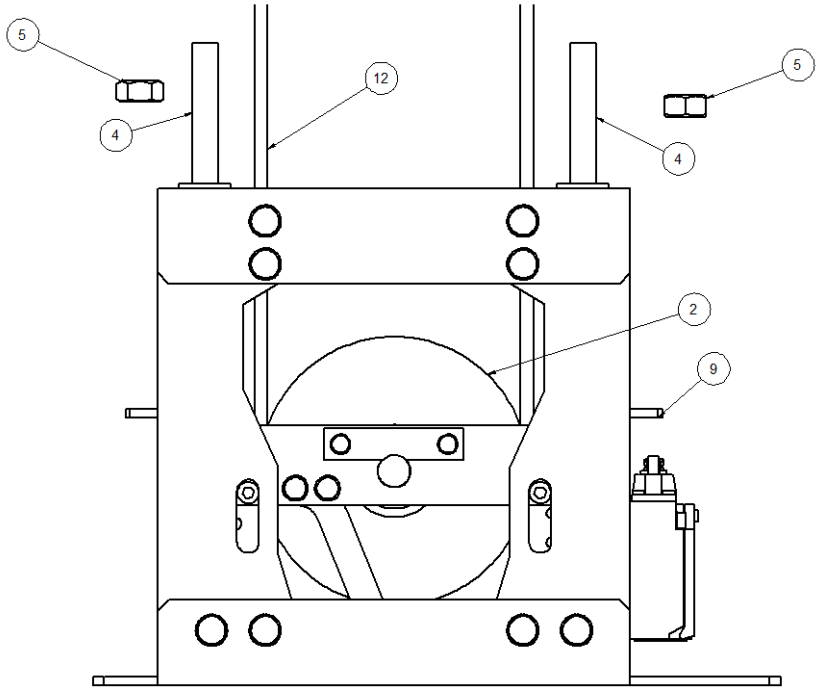


Figure 19: Position after tightening the rope

If, after completely unthreading the nuts, it is detected that the de-tensing contact actuator (9) is in contact or about to contact the de-tensing contact (10) (See Figure 20), release the rope (13) from the cable-clips (14), and pre-tighten the free end of the rope again.

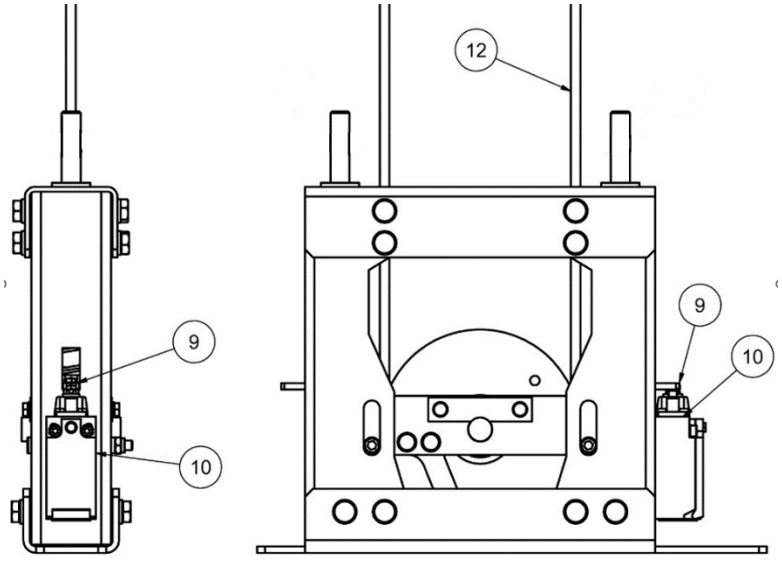


Figure 20: Rope without the correct tension

NB. Two nuts are supplied with the tensioner to act like a locknut, to ensure the tensioner does not unscrew once the rope has been tightened.

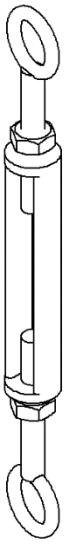


Figure 21: Tensioner with locknut

2.5 DE-TENSING CONTACT

Due to the normal elongation of the rope, untightening may occur.

To detect rope untightening or even breakage, Compact tensing pulley incorporates an electrical contact (10). This contact (10) is to be connected to the installation's safety line.

In case of rope untightening or breakage, the contact (9) will be activated by the de-tensing contact Actuator (9), (see Figure 22), thus ensuring the drive machine stop.

Note: Compact tensing pulley allows assembling the contact (9) both in the right and left vertical brackets.

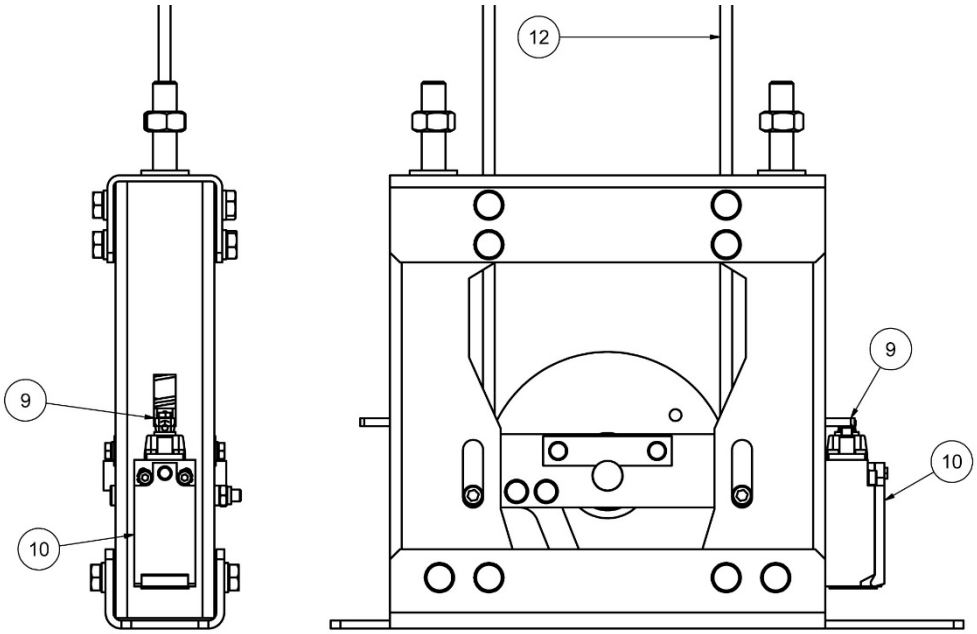


Figure 22: Rope untightening

2.6 ROPE RE-TIGHTENING

In case of rope untightening, the rope is to be re-tightened.

In case of not having the rope tensioner option (15) (DIN 1480 M10), tighten the spring-compressing nuts (5) until the de-tensing contact actuator reaches its maximum position. Please remember to tighten the nuts (5) alternatively.

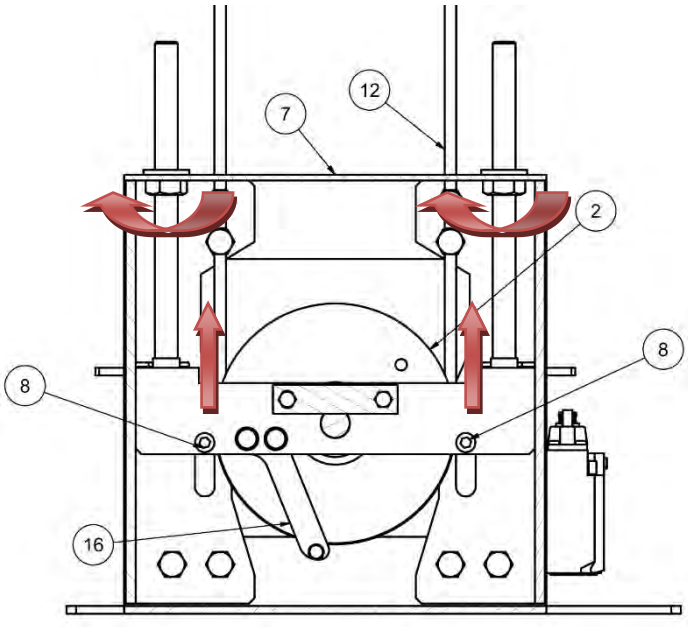


Figure 23: Position to re-tighten the rope

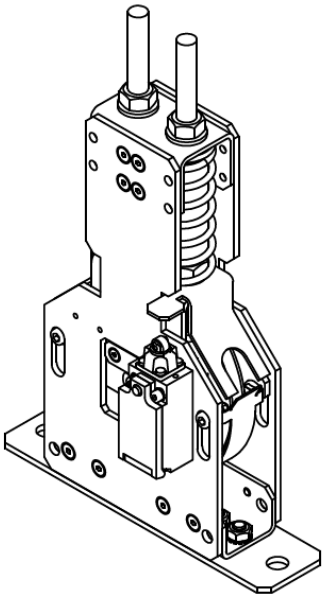
Once the tension in the governor's rope has been released, remove the cable-clips (14) anchoring the rope to the driving bar's governor attachment (13). Then, repeat the process to apply tension onto the rope's free.

After that, secure the rope via cable-clips. Finally, unthread the nuts (5) as explained in section 2.4.

3 ULTRACOMPACT 126

Dynatech also offers a more compact, narrower version of this tensing pulley: Ultracompact 126.

Its narrower design allows for more flexibility and versatility in its placement during installation.



Ultracompact 126 tensioning pulley

Note: The tension values and technical features are identical to the Compact 126.

This tensioning pulley also has a curved plate, and its dual function is to make it easier to insert the rope and subsequently to act as release prevention for the rope itself. Thus, it is not necessary to loosen any screw to insert the rope through the pulley.

4 UNIDIRECTIONAL COMPACT 126

Both Compact 126 and Ultracompact 126 have only-downwards versions, with less tension (minimum tension 250 N and maximum tension 400 N).

Except for being 20 mm higher, the unidirectional tensing pulleys are the same size as their bidirectional versions: See drawings DYN 66.C002.05 and DYN 66.C302.00.

5 TIPS

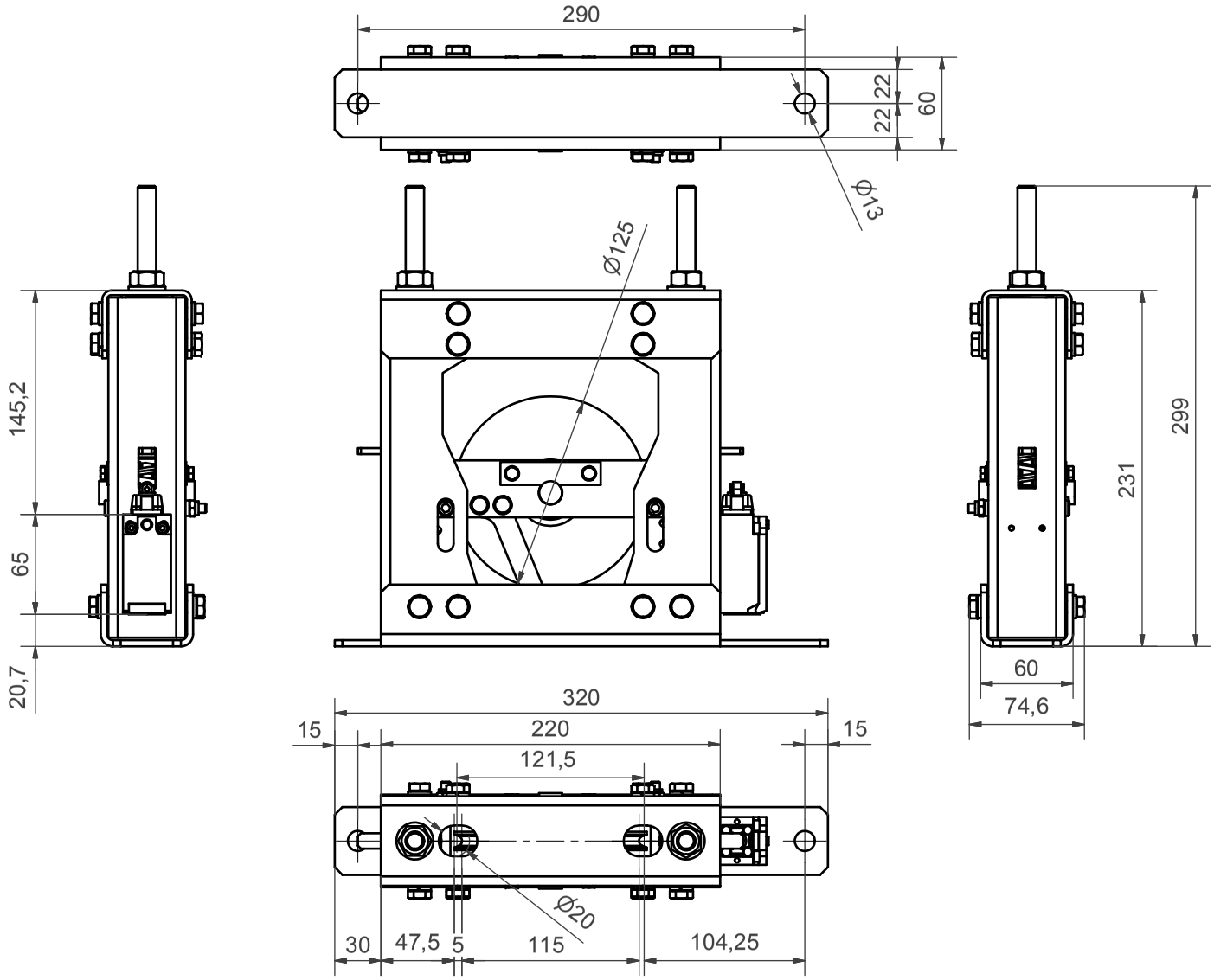
- Position the Compact tensing pulley in the installation in such a way as it forms a 90º angle with the upper cover (7).
- Apply enough tension to the governor's rope before securing it with the cable-clip to the driving bar's governor attachment (13).

6 ROPE SAFETY COEFFICIENT

7 ASSEMBLY'S DRAWINGS

Please find attached the following drawings:

- DYN 66.C002.05
- DYN 66/1.C001.00
- DYN 66/1.C003.01
- DYN 66.C302.00



Historial de revisiones				
Rev.	Descripción	Fecha	Dibujado	Aprobado
1	Se acorta una de las pestañas dónde se sitúa uno de los agujeros de amarre	11/02/2014	-	J. Marco
2	Aumenta la altura de la polea tensora Compact por ajustes de montaje	16/05/2014	-	J. Marco
3	Se aumenta tensión mínima para adaptar la Compact 126	04/03/2015	-	J. Marco
4	Se sustituye la tensora Compact 120 por la Compact 126. Se añade antisalida cable inferior.	14/07/2016	Pilar H.	J. Marco

CANTIDAD POR CONJUNTO:

Material:

Peso terminado: 6 Kg

Tto. tco:

Tto. sup:

	Fecha	Nombre
Dibujado		J. Marco
Norma		

DYNATECH

CONJUNTO:

POLEA TENSORA COMPACT 126
COMPACT 126 TENSING PULLEY
POULIE DE TENSION COMPACT 126
SPANNROLLE COMPACT 126

OBSERVACIONES:
MEDIDAS SIN TOLERANCIA SEGÚN DIN-7168 GM

PLANO COD. Nº: DYN 66.C002.04

Escala:

Fichero:

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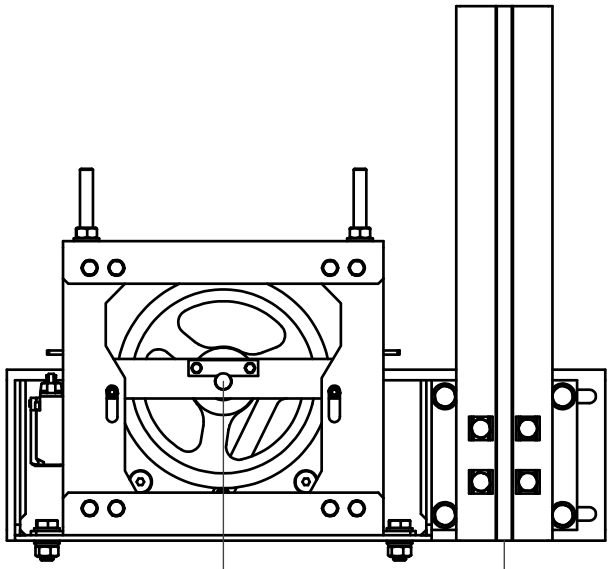
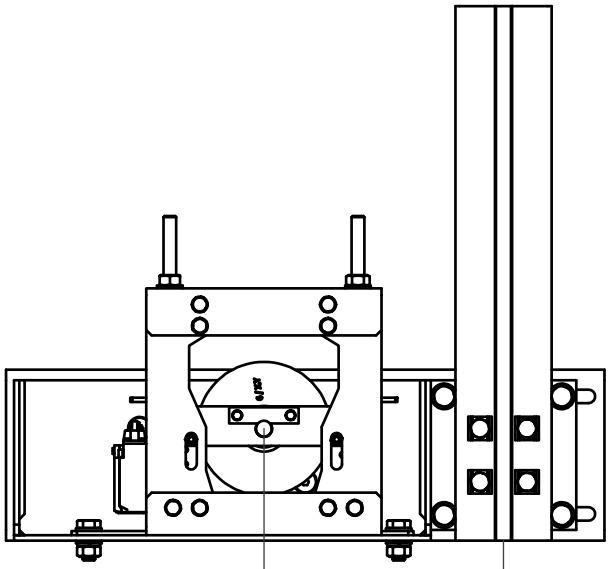
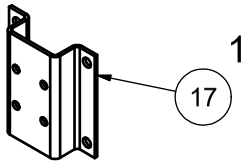
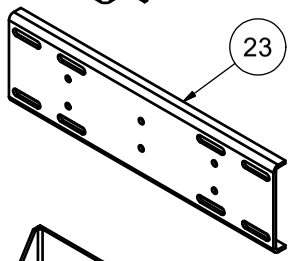


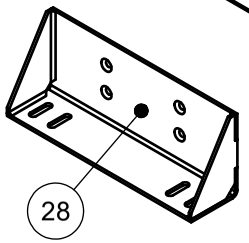




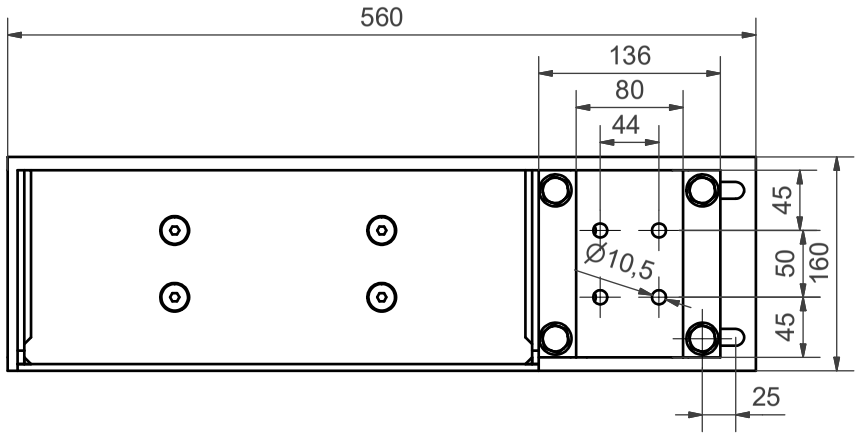
1x Omega unión a guía
Omega profile guide rail attachment
Omega union au guide
Omega-Führungsverbindungsteil

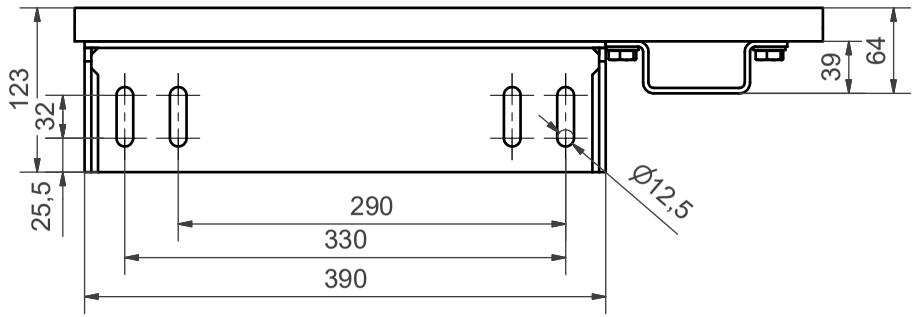


1x Sujeción a guía Compact
Compact guide rail attachment
Fixation au guide Compact
Compact-Führungsbefestigungsteil



1x Conjunto soporte a guía Compact
Compact guide rail Support Unit
Ensemble Support au guide Compact
Compact-Führungshalterung





Parts List		
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19	4	DIN 434 - M10
20	8	DIN 125 - M10
21	8	DIN 127 - M10
22	8	DIN 934 - M10
24	8	DIN 933 - M12 x 30
25	16	DIN 125 - M12
26	8	DIN 127 - M12
27	8	DIN 934 - M12
29	4	DIN 7991 - M10x25

Historial de revisiones			
Rev.	Descripción	Fecha	Aprobado
1	Se añaden vistas superiores y nuevas cotas	05/06/2018	J. Suelves

CANTIDAD POR CONJUNTO:
Material:
Peso terminado: 10 Kg
Tto. tco:
Tto. sup:

	Fecha	Nombre
Dibujado	21/03/2014	J. Marco
Norma		

DYNATECH

CONJUNTO: COMPACT

ADAPTADORES A GUÍA COMPACT
COMPACT GUIDE RAIL ADAPTER
ADAPTEURS À GUIDE COMPACT
ADAPTER FÜR DIE COMPACT-FÜHRUNG

OBSERVACIONES:
MEDIDAS SIN TOLERANCIA SEGÚN DIN-7168 GM

PLANO COD. Nº: DYN 66/1.C001.01

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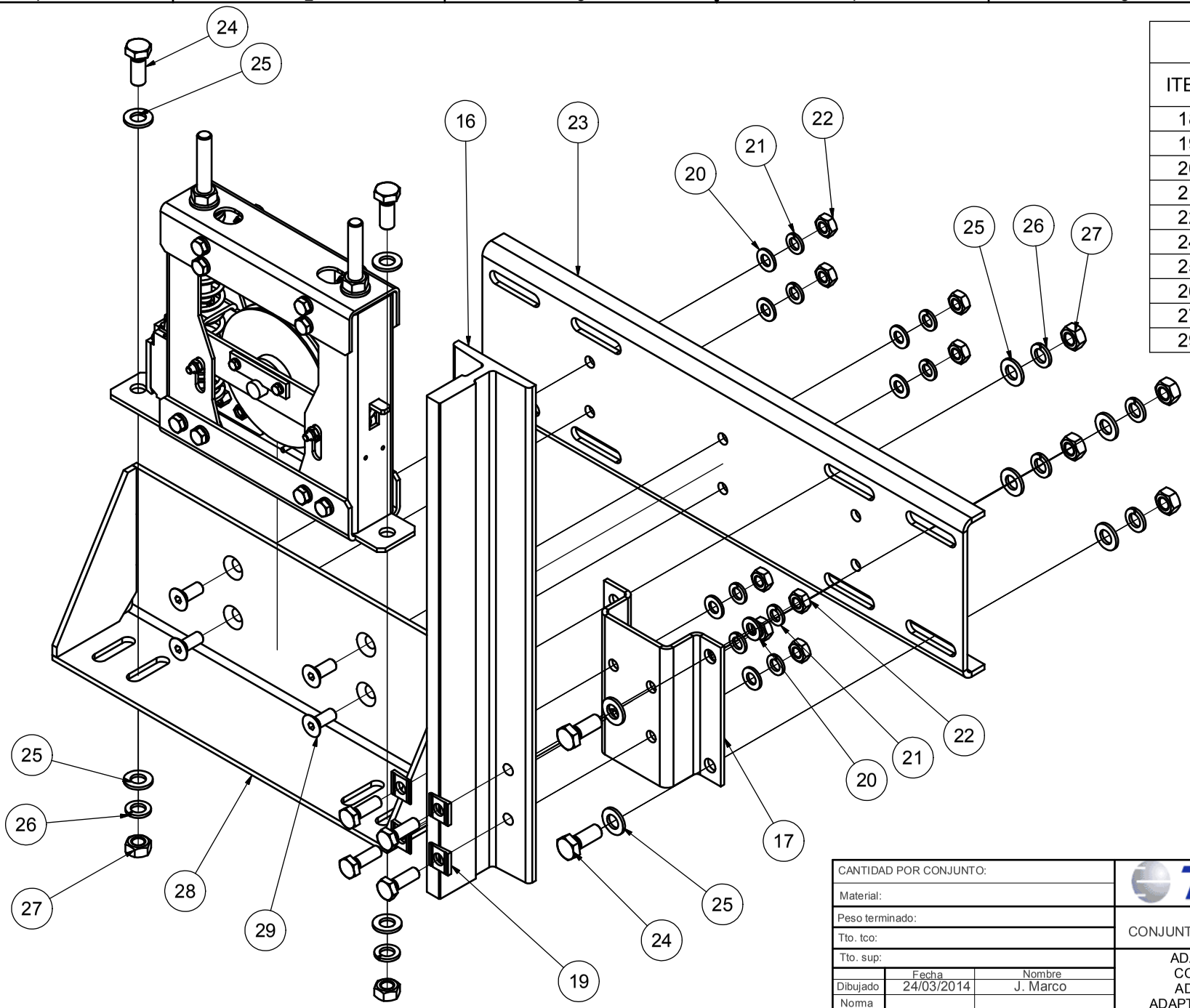

Parts List		
ITEM	QTY	DESCRIPTION
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22	8	DIN 934 - M10
24	6	DIN 933 - M12 x 30
25	12	DIN 125 - M12
26	6	DIN 127 - M 12
27	6	DIN 934 - M12
29	4	DIN 7991 - M10x25

Historial de revisiones				
Rev.	Descripción	Fecha	Dibujado	Aprobado
01	Se sustituye Compact 120 por Compact 126.	14/07/2016	Pilar H.	J. Marco

CANTIDAD POR CONJUNTO:

Material:

Peso terminado:

Tto. tco:

Tto. sup:

	Fecha	Nombre
Dibujado	24/03/2014	J. Marco
Norma		

DYNATECH

CONJUNTO: COMPACT

ADAPTADORES A GUÍA COMPACT 126
COMPACT 126 GUIDE RAIL ADAPTER
ADAPTEURS À GUIDE COMPACT 126
ADAPTER FÜR DIE COMPACT 126-FÜHRUNG

OBSERVACIONES:
MEDIDAS SIN TOLERANCIA SEGÚN DIN-7168 GM

PLANO COD. Nº: DYN 66/1.C003.01

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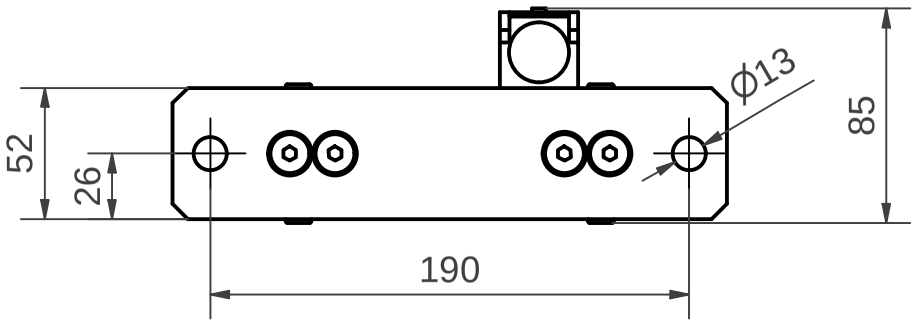

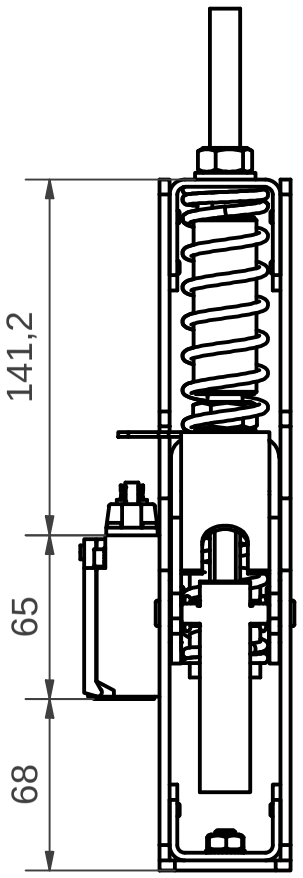

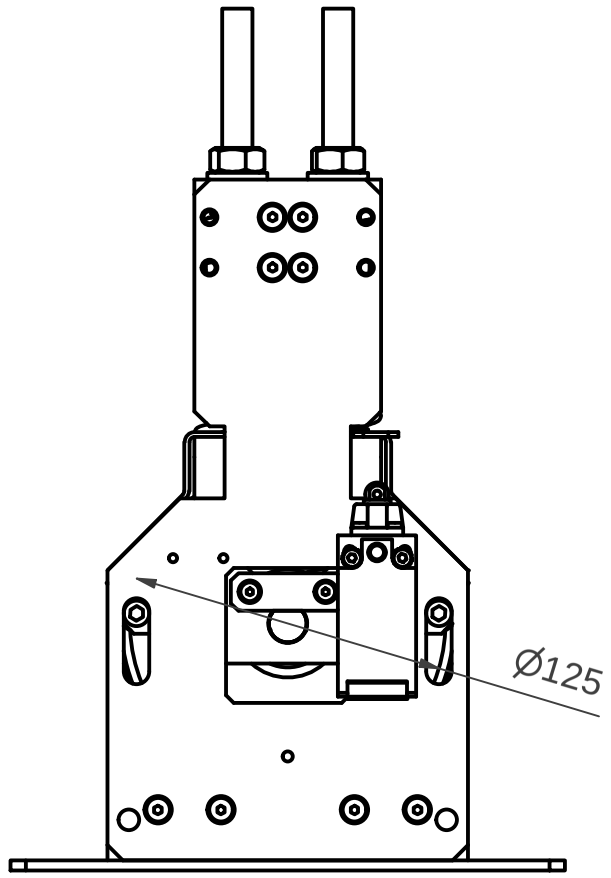

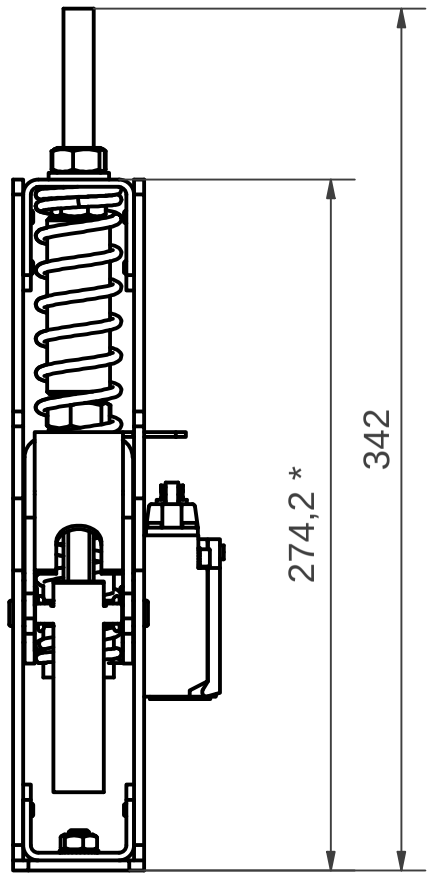

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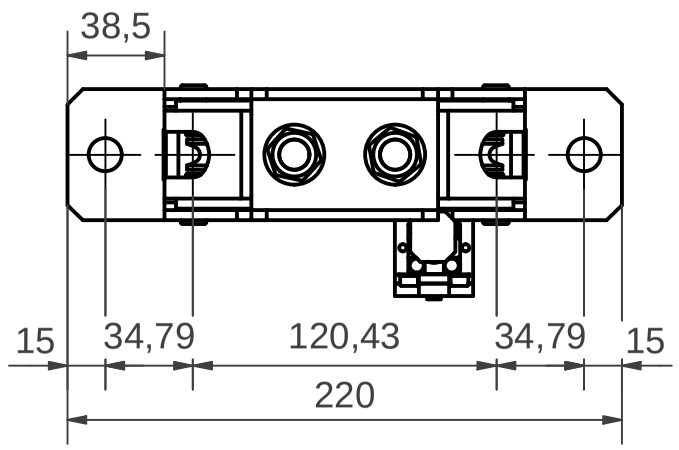

CANTIDAD POR CONJUNTO:		DYNATECH
Material:		
Peso terminado: 5,3 Kg		CONJUNTO:
Tto. tco:		
Tto. sup:		POLEA TENSORA ULTRACOMPACT 126
	Fecha / Nombre	
Dibujado		
Aprobado		
OBSERVACIONES: MEDIDAS SIN TOLERANCIA SEGÚN DIN EN ISO 22081:2022-10	PLANO COD. Nº: DYN 66.C302.00	Escala:
Fichero:	Sustituye a:	Sustituido por: