TRAPOROL

*DRIVING YOUR PERFORMANCE.*

# General


About Us

Construction Notes

Determination of Loading Capacity

Surfaces / Tube Versions

Axle Versions

Illustration of Linear Measures

Chain Wheel Dimensions / Order Information / Order Examples

Enquiry-document

General Terms and Conditions (AGB)

TRAPOROL

*DRIVING YOUR PERFORMANCE.*

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TRAPOROL GmbH plays a major role in conveyance as supplier
of high-quality products and innovative developments.

## Products

The wide-ranging portfolio includes:
Carrying rollers, reels, conveyer components, polydirectional rollers, accessories
and extension elements for complete conveyance systems.
Details are provided on the following pages.

## Our Strength

### Standard and Special Rollers

Our products are adapted to customer requirements and the respective transported material. The TRAPOROL range of products includes standardized or customized solutions for any application.

### Customer Proximity

As our sales department also includes field staff we are available on a daily basis to give advice and to support you realizing your projects at your premises.
Our customers are provided with individual contact persons for direct assistance. A close connection to the work environment of our customers ensures our comprehension for your requirements. Close cooperation and continuous exchange of information with our domestic and international customers creates a trusted basis for user related and customer oriented development and innovations.

### Quality

Our pursuit for quality is emphasized by the TÜV certification. Since 2000 we are DIN EN ISO 9001 certified.
Our experience and the continuous commitment of our employees are reflected in the quality of our products. We are only comfortable when our customer is satisfied with our product. Highest demands related to work quality and responsibility of each employee; supplier and service provider ensure the excellence required for Traporol's utility maximization.

### Know-How

Continuous product improvements stand for integral conveyance solutions. For decades this means to us: Innovative conveyance from the idea to series production. Our creative know-how has no limits. Our employees work in close cooperation with our customers and service providers in order to develop the most economic customized solution for your products.

### Service

#### 48 Hour Service

To support you in case of emergency related to the popular series within 48 hours and assisted by professional logistic partners, many different components are in stock.

#### After-Sale

The after sales business is as important to us as the order acquisition. An order is only completed for us when the support roller and conveyer components are mounted at our customer's satisfaction and achieve the desired performance and function on your site of operation.

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

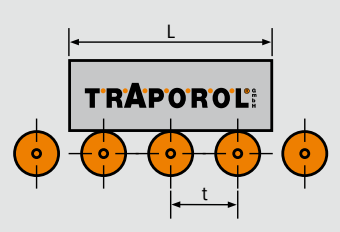
# General

## Construction Notes

Traporol products are used for realization of a large number of conveyer and storage systems. The design of conveyor elements is subject to conditions of use and this catalog is designated as field manual to select the optimal element. Furthermore we provide special solutions for specific requirements.

The following main criteria and basics for conveyor elements should be observed upon design of a support roller:

- Dimensions/weight and characteristics of the transported material
- For proper function the transported material has to be distributed on at least three rollers




- Environmental circumstances (dust, humidity, cold, heat, acids etc.)

- Operating influences (cleaning with soaps, acids, UV radiation etc.)

- Welding seams possibly larger than roller level
- Electrostatic charge

- Diverse roller resistances of bearings
- Noise emissions
- Higher weight distribution on uneven surfaces (distributed load/point load)
- Maximum conveying speed indications of the series
- The weakest component of a roller determines the max. load
- Loads stated in the catalog are guidance values
- Possible limitation of shock loads, extreme temperatures

- Path profiles need to be sufficiently stable and aligned flushing.
- Requirements of the transported material related to concentric precision

**Talk to us – our employees will be pleased to assist you with your projects!**

Technische Änderungen vorbehalten (02/2019)
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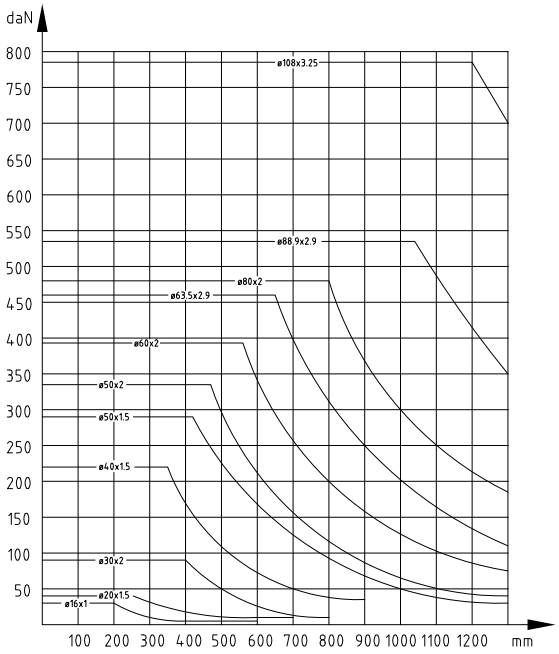
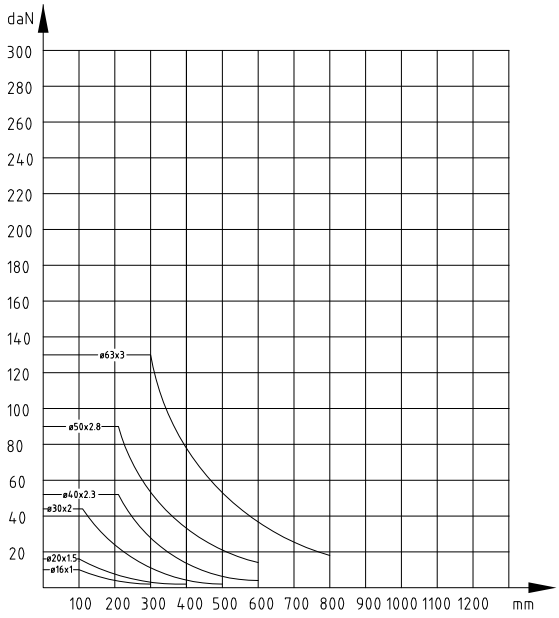
# Determination of Loading Capacity

The loading capacity of a support roller is determined by the respective load values of the applied components such as bearing, tube and axle. The lowest value is the crucial factor for the roller. Characteristics related to bearings are indicated next to the respective series. The following diagrams apply to tube and axle.

## Steel Tube



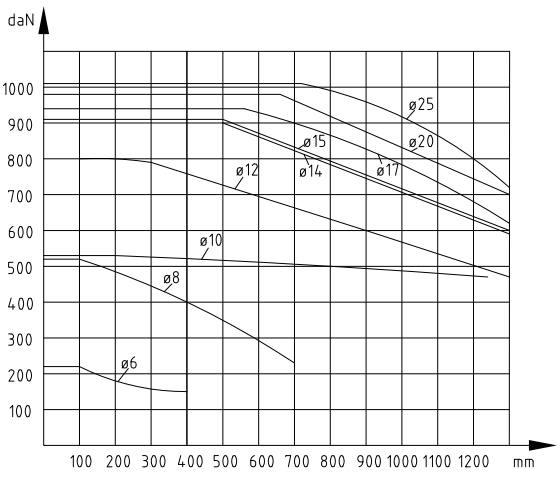

**Steel Tube – Distributed Load**



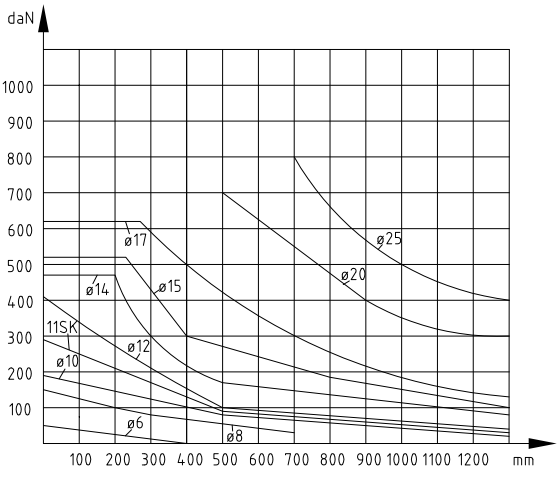

**Plastic Tube – Distributed Load**

Under centric point load 2/3 of the value applies to distributed load.

## Axle




**Version IGM, M, AGM**




**Version GL, FA, SW**

Technische Änderungen vorbehalten (02/2019)
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# General

## Surfaces / Tube Versions

| Surfaces | |
|---|---|
| Bright steel | ST |
| Chrome-plated steel | STC |
| Galvanized steel | STZ |
| Rubber coated steel (similar to Perbunan®) | STG |
| Hardened steel | STH |
| Steel with PVC hose | STP |
| Teflon coated steel (different PTFE coatings) | STT |
| Polyurethane coated steel (similar to Vulkolan®) | STV |
| Powder-coated steel | STB |
| Steel with shrink hose | STS |
| Steel with PUR-RIM / Hard-PU | STU |
| Anodized Aluminum | ALUE |
| Sanded Aluminum | ALUGS |
| Rubber coated stainless steel (similar to Perbunan®) | NG |
| Polyurethane coated stainless steel (similar to Vulkolan®) | NV |
| Powder-coated stainless steel | NB |
| Sanded stainless steel | NGS |
| Steel with PU hose | STPU |
| Stainless steel with PU hose | NPU |
| Stainless steel with PVC hose | NP |
| Marking sample antistatic/dissipative surfaces | Z |
| Dissipative Powder-coating | PUAF |
| Antistatic PU hose | PUA |

**Steel Tube**

| Dimension<br>ø x wall thickness | Steel<br>ST | Galvanized steel<br>STZ | Stainless steel<br>1.4301 N | Weight<br>kg/m |
|---|---|---|---|---|
| 16 x 1 | | x | x | 0,370 |
| 20 x 1,5 | | x | x | 0,684 |
| 30 x 1,5 | x | x | x | 1,050 |
| 30 x 2 | | x | x | 1,381 |
| 40 x 1,5 | x | x | x | 1,424 |
| 50 x 1,5 | x | x | x | 1,794 |
| 50 x 2 | x | x | x | 2,368 |
| 50 x 3 | x | x | x | 3,477 |
| 60 x 2 | x | x | x | 2,861 |
| 60 x 3 | x | x | x | 4,217 |
| 63,5 x 2,9 | x | x | | 4,334 |
| 80 x 2 | x | x | x | 3,847 |
| 80 x 3 | x | x | x | 5,697 |
| 88,9 x 2,9 | x | x | x | 6,151 |
| 108 x 3,25 | x | x | | 8,396 |

Technische Änderungen vorbehalten (02/2019)
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| Plastics Tubes | | | | |
|---|---|---|---|---|
| Dimension<br>ø x wall thickness | PVC<br>Iron gray<br>RAL 7011<br>**KDG** | PVC<br>Dust gray<br>RAL 7037<br>**KHG** | PVC<br>Sky blue<br>RAL 5015<br>**KHB** | Weight<br>kg/m |
| 16x1 | x | | | 0,062 |
| 20x1,5 | x | | x | 0,132 |
| 30x2 | x | | | 0,255 |
| 40x2,3 | | x | x | 0,420 |
| 50x2,8 | x | | x | 0,640 |
| 63x3 | | | x | 0,871 |

**All RAL colors not stated upon request.**

| Plastic tubes should not exceed the following tube lengths: | | | | | |
|---|---|---|---|---|---|
| Tube | Max. tube length | Tube | Max. tube length | Tube | Max. tube length |
| ø 16 | 350 mm | ø 30 | 400 mm | ø 50 | 600 mm |
| ø 20 | 400 mm | ø 40 | 600 mm | ø 63 | 800 mm |

**Note: RL > as above mentioned concentric tolerance without engagement!**

| Aluminum Tube | | |
|---|---|---|
| Dimension<br>ø x wall thickness | Aluminum<br>AlMgSi 0,5<br>**Alu** | Weight<br>kg/m |
| 16 x 1 | * | 0,130 |
| 20 x 1,5 | * | 0,240 |
| 30 x 2 | * | 0,484 |
| 40 x 1,5 | * | 0,499 |
| 50 x 1,5 | * | 0,628 |
| 50 x 2 | * | 0,829 |
| 60 x 2 | * | 1,002 |
| 80 x 2 | * | 1,348 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# General

## Axle Versions

### Steel Axles

Axles from bright drawn steel **A** or stainless steel 1.4305 **AN**.

Axle Weight kg/m

| A ... | IGM ... | M ... | AGM ... | GL ... | FA ... | SW ... | |
|---|---|---|---|---|---|---|---|
| 5 | | | | 5 x 5 | 5 x 5 | | 0,154 |
| 6 | | 6 x 15 | | 6 x 8 | 6 x 8 | | 0,222 |
| 8 | 5 x 10 | 8 x 15 | 6 x 12 | 8 x 8 | 8 x 8 | | 0,395 |
| 10 | 6 x 10 | 10 x 15 | 8 x 15 | 10 x 10 | 10 x 10 | 8 x 10 | 0,617 |
| 11[1)] | | | | 11 x 10 | 11 x 10 | | 0,823 |
| 12 | 8 x 15 | 12 x 20 | 10 x 20 | 12 x 10 | 12 x 10 | 10 x 10 | 0,888 |
| 14 | 8 x 15 | 14 x 20 | 10 x 20 | 14 x 10 | 14 x 10 | 12 x 10 | 1,208 |
| 15 | 10 x 15 | 14 x 20 | | 15 x 10 | 15 x 10 | 12 x 10 | 1,387 |
| 17 | 12 x 18 | 16 x 25 | | | | 14 x 10 | 1,782 |
| 20 | 12 x 18 | 20 x 25 | 16 x 28 | | | 15 x 10 | 2,466 |
| 25 | 16 x 24 | | 16 x 28 | | | 18 x 13 | 3,853 |

[1)] Hexagonal

The versions and values stated refer to our production standard and are adapted accordingly for specific requirements.

**Specific versions upon request.**

### Axle Caps

Axle caps made from plastics reduce noise emission and protect the free Axle ends against corrosion.
The caps are also available out of conductible plastics (Polypropylene).

Axle

| | | | | |
|---|---|---|---|---|
| A 8 GL | | SK 11 x 12 | SK 11 x 17 | SW 10 x 10 |
| | | | | SW 14 x 10 |
| A 8 FA | | SK 11 x 12 | SK 11 x 17 | |
| A 10 GL | | | | SW 12 x 10 |
| | | | | SW 14 x 10 |
| A 12 GL | | | | SW 14 x 10 |
| A 14 GL | | | | SW 17 x 10 |
| A 15 GL | 20 x 9 GL | | | |

Technische Änderungen vorbehalten (02/2019)
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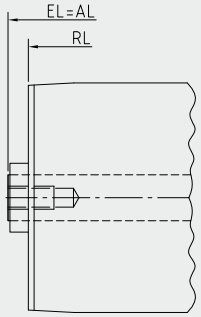
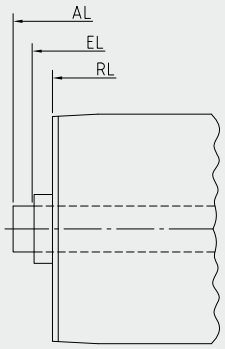
## Linear Measures of a Support Roller

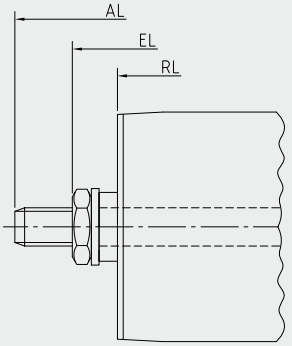
Different linear measures are available to determine a support roller. The dimension EL (installation length) is crucial for installation, from which roller length RL and the axle length AL are directly derived in standard versions. Following the lengths for different axle versions.



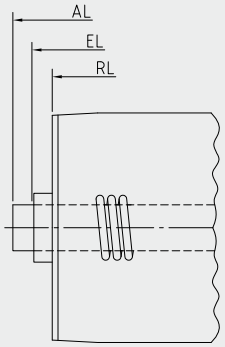

**Axle Version IGM**



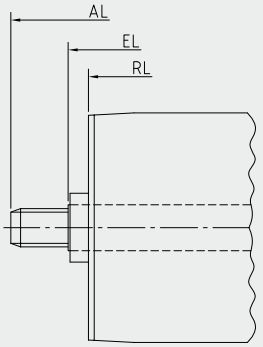

**Axle Version GL**



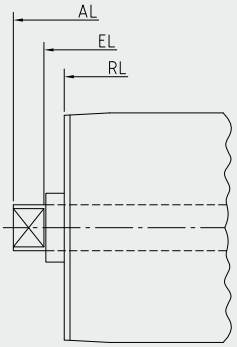

**Axle Version M**




**Axle Version FA**




**Axle Version AGM**




**Axle Version SW**

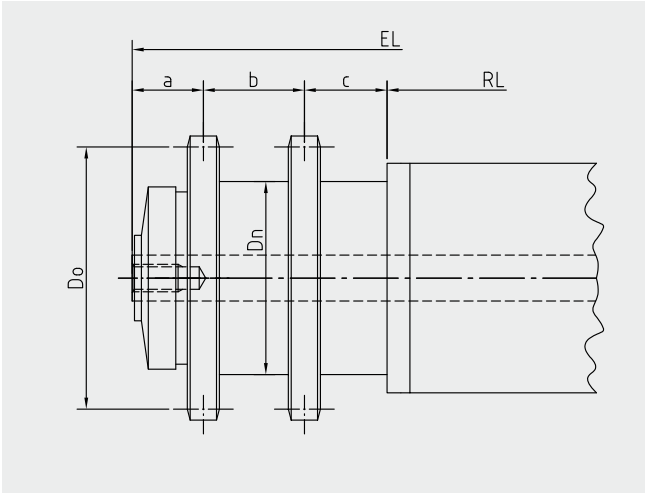
Usually the measure EL corresponds to the usable clearance LW between the lateral supports. Tolerances may be necessary due to production related reasons, such as for the use of washers or spacer sleeves, which has absolutely to be observed upon determination of the installations length.

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# General

## Chain Wheel Dimensions / Order Information / Order Examples

### Chain Wheel Dimensions




**a** = Installation length to center of chain wheel EL-MK

**b** = Center of chain wheel to center of chain wheel MK-MK

**c** = Center of chain wheel to center of roller length MK-RL

**$D_o$** = Partial circle diameter

**$D_n$** = Center diameter

### Order Information

The production of TRAPOROL rollers is customized, thus enabling us to provide you with the best possible roller for a specific application. For explicit product determination, the TRAPOROL item numbers are listed in a uniform scheme that also describes the components used.

### Order Examples

**10.1-20x1.5 KDG A8 FA 8x8 EL ...**

- Determination of installation length
- Determination of Axle version
- Determination of Axle material and Axle size
- Determination of tube material
- Determination of tube dimension
- Determination of variant and bearing
- Determination of series

**45.9-16.2-60x2 STZ A12 IGM 8x15 EL ...**

- Determination of installation length
- Determination of Axle version
- Determination of Axle material and Axle size
- Determination of tube material
- Determination of tube dimension
- Determination of counter bearing series and variant
- Determination of variant and bearing
- Determination of series

Technische Änderungen vorbehalten (02/2019)
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TRAPOROL

# Anfrage-Formular angetriebene Tragrollen
# Enquiry-document driven carrying rollers

**General**

Ausfüllen und per Fax +49(0)2863/924259 oder e-mail (info@traporol.de) an uns senden!
Fill in and send it by fax +49(0)2863/924259 or e-mail (info@traporol.de) back to us!

Firma/Company: Datum/Date:

Anschrift/Address:

Kontakt/Contact:

Tel./Phone: Fax: e-mail:

## Tragrollenausführung / roller design:

Rollen/ roller-ø: mm Stückzahl/ quantity: Traglast je Rolle/ load capacity roller: kg

Einspannlänge/ installation length: mm Rollenlänge/ roller length: mm Achslänge/ axle length: mm

Temperaturbereich/ temperature °C:

## Rohrmaterial / tube material:

☐ Stahl/steel ☐ Stahl verz./galv. steel ☐ Niro/stainl. steel ☐ Alu ☐ Kunststoff/plastics

☐ Andere/Others:

## Achsausführung / axle version:

☐ Stahl/steel ☐ Niro/stainl. steel ☐ Andere/Others:

☐ Aussengewinde/ male thread ☐ Glatte Achse/ fixed axle ☐ Innengewinde/ female thread ☐ Federachse/ spring axle ☐ Schlüsselweite/ across flats

## Antrieb / drive:

☐ Stahl/steel ☐ Stahl verz./galv. steel ☐ Niro/stainl. steel ☐ Kunststoff/plastics Zähne/tooth:

☐ Einfach/single ☐ Doppel/twin ☐ Presssitz/fixed ☐ Friktion/friction ☐ verschweißt/welded

☐ 6 mm, Z=17 ☐ 3/8x7/32” ☐ 1/2x5/16” ☐ 5/8x3/8” ☐ 3/4x7/16”

☐ Sickenkopf/belt ☐ Zahnrad/toothed belt wheel 8M Z=20 ☐ Poly-V ☐ Andere/Others:

## Lagerung / bearings:

Rollenbodenwerkstoff / material roller inserts:
☐ Stahl/steel ☐ Kunststoff/plastics ☐ Andere/Others:

Rollenbodenaufbau / version roller inserts:
☐ gepresst/pressed ☐ verschweißt/welded ☐ Andere/Others:

Werkstoff Lagerung/ Material of bearings:

| | Konuslager/ ball bearing | ZZ-Rillenkugellager/ ZZ-bearing | RS-Rillenkugellager/ RS-bearing | Gleitlagerung/ friction bearing |
|---|---|---|---|---|
| Stahl/steel: | ☐ | ☐ | ☐ | ☐ |
| Niro/stainl. steel: | ☐ | ☐ | ☐ | ☐ |
| Andere/Others: | ☐ | | | |

## Oberflächenbeschichtung / coating:

☐ Stückverzinkt/galv. steel ☐ eloxiert/anodized ☐ Teflon ☐ verchromt/chromed

☐ pulverbeschichtet/powder-coated: RAL/colour ☐ PU-Baytec: mm °Shore/hardness:

☐ PVC-Schlauch/ plastic coating: mm °Shore/hardness ☐ Andere/Others:

## Information:

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## General

## Anfrage-Formular Schwerkraft-Tragrollen
## Enquiry-document gravity carrying rollers

Ausfüllen und per Fax +49(0)2863/924259 oder e-mail (info@traporol.de) an uns senden!
Fill in and send it by fax +49(0)2863/924259 or e-mail (info@traporol.de) back to us!

Firma/Company: Datum/Date:

Anschrift/Address:

Kontakt/Contact:

Tel./Phone: Fax: e-mail:

### Tragrollenausführung / roller design:

Rollen/ roller-ø: mm Stückzahl/ quantity: Traglast je Rolle/ load capacity roller: kg

Einspannlänge/ installation length: mm Rollenlänge/ roller length: mm Achslänge/ axle length: mm

Temperaturbereich/ temperature °C:

### Rohrmaterial / tube material:

☐ Stahl/steel ☐ Stahl verz./galv. steel ☐ Niro/stainl. steel ☐ Alu ☐ Kunststoff/plastics

☐ Andere/Others:

### Achsausführung / axle version:

☐ Stahl/steel ☐ Niro/stainl. steel ☐ Andere/Others:

☐ Aussengewinde/ male thread ☐ Glatte Achse/ fixed axle ☐ Innengewinde/ female thread ☐ Federachse/ spring axle ☐ Schlüsselweite/ across flats

### Lagerung / bearings:

Rollenbodenwerkstoff / material roller inserts:
☐ Stahl/steel ☐ Kunststoff/plastics ☐ Andere/Others:

Rollenbodenaufbau / version roller inserts:
☐ gepresst/pressed ☐ verschweißt/welded ☐ Andere/Others:

Werkstoff Lagerung/ Material of bearings:

| | Konuslager/ ball bearing | ZZ-Rillenkugellager/ ZZ-bearing | RS-Rillenkugellager/ RS-bearing | Gleitlagerung/ friction bearing |
|---|---|---|---|---|
| Stahl/steel: | ☐ | ☐ | ☐ | ☐ |
| Niro/stainl. steel: | ☐ | ☐ | ☐ | ☐ |
| Andere/Others: | ☐ | | | |

### Oberflächenbeschichtung / coating:

☐ Stückverzinkt/galv. steel ☐ eloxiert/anodized ☐ Teflon ☐ verchromt/chromed

☐ pulverbeschichtet/powder-coated: RAL/colour ☐ PU-Baytec: mm °Shore/hardness:

☐ PVC-Schlauch/ plastic coating: mm °Shore/hardness ☐ Andere/Others:

### Information:

Technische Änderungen vorbehalten (02/2019)
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TRAPOROL

# General Terms and Conditions (GTC)

General

Section 1 Scope

1. These General Terms and Conditions (GTC) apply to all – including future – business transactions, agreements and negotiations with our business partners who are entrepreneurs, legal persons under public law or special funds under public law (referred to as "Buyer" below).
2. These GTC apply in particular to contracts for the sale of movable objects ("goods") regardless of whether we manufacture the goods ourselves or procure them from suppliers (Sections 433, 651 German Civil Code [BGB]).
3. Unless agreed upon otherwise, these GTC apply in the version valid at the time of the Buyer's order, but at least in the version last communicated in text form, as a framework agreement for similar future contracts without us having to refer to them again in each individual case.
4. Our Terms and Conditions shall apply exclusively; conflicting or deviating conditions of the Supplier are not recognized by us. Our GTC shall also apply if we carry out the delivery to the Buyer without reservation in the knowledge of conflicting or deviating conditions of the Buyer.

Section 2 Conclusion of contract

1. Our offers are non-binding and subject to change. This also applies where we have provided the Buyer with catalogs, technical documentations (e.g. drawings, plans, calculations, references to DIN standards), other product specifications or documents, including in electronic form. We reserve ownership rights and copyrights to all these.
2. The order of the goods by the Buyer constitutes a binding contract offer. Unless specified otherwise in the order, we are entitled to accept this contract offer within three weeks upon receipt.
3. All contracts are only concluded on the basis of our confirmation, which must at least be submitted in text form, or with the dispatch of the contractual item or the performance of the work.
4. Any individual agreements entered into with the Buyer (additional agreements, supplements and amendments) always take precedence over these General Terms and Conditions. Subject to evidence to the contrary, an agreement or our confirmation in text form are authoritative for the content of such agreements.

Section 3 Delivery period and delay in delivery

1. The specification of our service times (delivery time, installation time, repair time) is non-binding. If, in exceptional cases, a binding delivery time has been promised, it only begins after the clarification of all questions required for the execution of the contract and with the issuing of our written order confirmation.
2. The occurrence of our delay in delivery shall be determined in accordance with the statutory provisions. If our delivery is delayed due to simple negligence, the claims of the Buyer to compensation for delay damages or claims for damages because the service time was exceeded is limited to a maximum of 5% of the net purchase price.

Section 4 Delivery, transfer of risk

1. The delivery is ex warehouse. It is also the place of fulfillment for the delivery and any subsequent fulfillment. At the request and expense of the Buyer, the goods can be shipped to a different destination (sales shipment). Unless agreed upon otherwise, we are entitled to determine at our discretion the shipping method (especially in terms of means of transportation and route as well as the packaging and load carriers). Packaging materials and load carriers, except pallets, are not taken back.
2. The risk of accidental loss and accidental deterioration of the goods is transferred to the Buyer upon handover. In the case of sales shipment, the risk of accidental loss and accidental deterioration of the goods as well as the risk of delay shall pass upon delivery of the goods to the shipper, forwarding agent or other person or institution designated to carry out the shipment. Any agreements on the transport and insurance costs (e.g. cif, fob, franko, etc.) are 100% expense clauses. Insofar as acceptance has been agreed upon as an exception, the acceptance is decisive for the transfer of risk.
3. If the Buyer is in default with the acceptance of the goods, if he fails to fulfill an obligation to cooperate or if the shipping is delayed at the request of the Buyer or for other reasons for which the Buyer is responsible, we are entitled to demand compensation for the resulting damage, including additional expenses incurred (e.g. costs of storage). If we store the goods at our plant, we charge a lump-sum compensation in the amount of 0.5% of the invoice amount for each month or partial month, beginning with the delivery date or – if there is no delivery date – with the notice of readiness for dispatch of the goods. The proof of a higher damage and our statutory claims (in particular reimbursement of additional expenses, appropriate compensation, termination) shall remain unaffected; the lump sum shall be offset against further monetary claims. The Buyer is entitled to prove that we have incurred no damage at all or only considerably less damage than the above lump sum.

Section 5 Offer and prices

1. Our offers are non-binding and subject to change. Any binding offers, made in exceptional cases, lose their validity at the latest 30 days after submission, unless the offer specifies a binding commitment beyond this period. The Buyer is bound to his offers for 30 days, unless a longer period for the binding commitment arises from the circumstances.
2. Price information without additions are always net prices plus the applicable statutory VAT. In the absence of a special agreement, the prices are ex works, including loading at the factory but without packaging material and load carriers. Discounts, rebates or other reductions are only granted in cases where it has been expressly agreed.

Section 6 Payment

1. If not explicitly agreed upon otherwise in writing, the purchase price is due for payment within 30 days as of the invoice date. In the absence of a special agreement, payment must be made in cash or by bank transfer.
2. The Buyer shall be in delay upon expiration of the aforementioned payment period. For the delay, the purchase price accrues interest at the applicable statutory default interest rate. We reserve the right to assert further damages caused by the delay. With regard to merchants, our claim to commercial maturity interest (Section 353 German Commercial Code [HGB]) remains unaffected.
3. Unless agreed upon otherwise, we are entitled at any time, even within the framework of an ongoing business relationship, to make delivery in whole or in part only against advance payment. This applies in particular if the Buyer is in default of payment to us or in default of acceptance of a delivery, including partial delivery. We declare a corresponding condition at the latest with the order confirmation.
4. The Buyer is only entitled to set-off and retention rights of any kind if his counterclaims have been legally established or are undisputed. In addition, the Buyer is only entitled to exercise rights of retention if his counterclaim is based on the same individual delivery. In the case of defects in the delivery, the counterclaims of the Buyer remain unaffected, especially in accordance with Section 8 (5) of these GTC.
5. If, after the conclusion of the contract, it becomes apparent that our claim to the purchase price is at risk because the Buyer does not have the required capability, we are entitled to refuse the service and – after setting a deadline, if applicable – to withdraw from the contract in accordance with the legal provisions (Section 321 BGB).

Section 7 Reservation of title

1. We reserve the title to the sold goods (reserved goods) until receipt of all payments from the existing business relationship with the Buyer. In the case of a current account, the reserved title also serves to secure our balance claims.
2. The Buyer is entitled until revocation to resell the reserved goods in the normal course of business; however, he assigns to us as security already now all claims that accrue to him from the resale against his customers or third parties in the amount of the final invoice amount (including the respective VAT) of our claims. This applies regardless whether the reserved goods have been resold without processing or after processing. As long as he is not in default, no request for the opening of bankruptcy proceedings has been made and as long as there is no stoppage of payments and we have not revoked this consent, the Buyer is allowed to collect on a trust basis the claims we are entitled to due to the assignment under the condition that he pays us the amount of the existing and due claims we have against him from the collected amount. If the power to collect is inapplicable in the aforementioned cases, we are entitled to demand that the Buyer makes the assigned claims and their debtors known to us; that he provides all information necessary for collection; hands over the relevant documents; and informs the debtors of the assignment.
3. The processing or transformation of the reserved goods by the Buyer is always carried out for us. If the reserved goods are processed, combined, mixed or blended with other items not belonging to us, we acquire co-title to the new item in the ratio of the invoice values of the reserved goods to the processed, mixed or combined goods. The above provision applies mutatis mutandis to the new item. If the Buyer manufactures new items that are to be regarded as the main item on the order of a third party using the reserved goods, the Buyer grants us pro rata co-title and keeps the new item safe for us free of charge.
4. If the realizable value of the securities exceeds our claims by more than 10%, we shall release securities of our choice at the Buyer's request.
5. We are entitled to inspect the reserved goods at any time in the place at which they are located. In the event of a breach of contract on the part of the Buyer – in particular, in the case of delayed payments – we are, after setting a reasonable deadline, entitled to take back the security goods. Taking back the reserved goods does not establish a withdrawal from the contract on our part. After taking back the reserved goods, we are entitled to utilize the goods; the proceeds from this utilization are set off against the liabilities of the Buyer, minus reasonable costs of utilization.
6. The Buyer is obligated to treat the reserved goods with care and insure them at replacement value against fire, water and theft at his own expense. Upon request, he must assign us the claims against the insurer. As far as maintenance and inspection work is required, the Buyer must carry out the work at his own expense in a timely manner, unless contractually agreed upon otherwise. If the reserved goods are seized by third parties from the Buyer, the Buyer must inform us immediately of the seizure and inform the third parties carrying out the seizure of the existing reservation of title. The Buyer bears all costs we incurred from the seizure, unless he is not responsible for it.

Section 8 Claims for defects

1. Claims for defects of the Buyer presuppose that he has fulfilled his inspection and complaint obligations according to Section 377 HGB. This applies only to the extent that the purchase is a commercial transaction for both parties.
2. The basis of our liability for defects is, above all, the agreement on the quality of the goods. All product specifications that are the subject matter of the individual contract or have been made publicly known by us (in particular in brochures and on our Web site) are deemed an agreement on the quality of the goods. The handover of samples does not contain a quality agreement; the samples only illustrates the type of goods. The information on the production, composition, mode of action, suitability and application of our services shall not release the Buyer from the obligation to carry out his own tests and trials.
3. To the extent that the quality has not been agreed upon, an assessment based on statutory regulations must determine whether a defect is on hand or not (Section 434 [1] no. 1 and 3 BGB). We do not assume any liability for public statements of third parties (e.g. advertising statements).
4. If defects occur, we shall initially be entitled, at our own discretion, to rectify the defect or deliver a replacement ("subsequent performance"). If the subsequent performance fails twice, the Buyer is entitled to demand at his own discretion either a reduction of the price or to withdraw from the contract. In such a case, the Buyer can also assert claims for damages in accordance with Section 9 if we are responsible for the defect and the Buyer does not demand a reduction of the price.
5. We are entitled to make the subsequent performance dependent on the Buyer paying the due purchase price. However, the Buyer is entitled to retain a part of the purchase price that is reasonable in relation to the defect.
6. Subsequent performance does not include the removal of a defective item or its re-installation if we were not originally obligated to install it.
7. In the case of the elimination of a defect, we bear all expenses required for purposes of eliminating the defect; this refers in particular to transport costs, travel expenses, labor and material costs as well as, if applicable, the costs for removal and installation in accordance with the statutory provisions if a defect actually exists. Otherwise, we can demand from the Buyer to refund the costs that arose from unjustified demands for the elimination of defects (especially test and transport costs), unless the fact that there was no defect was not recognizable for the Buyer.
8. The customary manufacturer deviations and tolerances shall be deemed agreed for all deliveries.
9. In the case of purchase and contracts for work and services, the Buyer's defect-related rights shall expire one year after delivery of the purchase item or, in the case of work and services, one year after acceptance thereof. If the Buyer asserts claims for damages in the context of liability for defects, the statutory limitation periods apply.

Section 9 Liability

1. We are liable without limitations for damage caused intentionally by us, our legal representatives or our vicarious agents. The same applies to damages arising from injury to life, body or health culpably caused by the aforementioned persons. We are also liable without limitations for gross negligence on the part of our legal representatives and our executive staff.
2. If the conditions referred to in paragraph (1) are given, we are only liable – irrespective of legal basis – if an essential contractual obligation (major obligation) has been negligently breached or if one of our other vicarious agents who do not belong to the executive staff has caused damage through gross negligence. In these cases, our liability is limited to the foreseeable damage typical for the contract. Obligations whose fulfillment makes the implementation of the contract possible in the first place and on the compliance with which the Buyer normally can rely are seen as major obligations. This means they are obligations whose breaches would put the achievement of the purpose of the contract at risk.
3. The above limitation of liability does not apply to claims under the Product Liability Act and due to the absence of a guaranteed quality or a warranted quality of the contractual item. Insofar as liability is excluded or limited, this also applies to the personal liability of our legal representatives, executive staff and other vicarious agents.

Section 10 Place of jurisdiction/applicable law/final provisions

1. The place of jurisdiction for all disputes and types of procedures directly or indirectly connected to the business relationship between us and the Buyer, including disputes on the validity of a contract, is Borken, Westphalia, Germany, if the Buyer is a merchant, legal person under public law or a special fund under public law or if he has no general place of jurisdiction in Germany. We are also entitled to file a lawsuit at the Buyer's principal place of business.
2. With respect to all rights and obligations arising from contracts concluded with us, the law of the Federal Republic of Germany that governs the legal relationships of domestic parties shall apply, under the exclusion of the UN Convention on Contracts for the International Sale of Goods (CISG).
3. The invalidity of an individual clause of these Terms and Conditions do not affect the validity of the remaining provisions.

Status: 11/2018

TRAPOROL
*DRIVING YOUR PERFORMANCE.*

# Gravity Support Roller

**Roller bottom made of plastics**

| | | |
|---|---|---|
| Roller bottom made of plastics with one roller line | Tube ø 16, 20, 30, 40 | Series 10 |
| Roller bottom made of plastics with two roller lines | Tube ø 50, 60, 63, 80 | Series 11 |
| Roller bottom made of plastics with grooved ball bearing | Tube ø 30 | Series 13 |
| Roller bottom made of plastics with grooved ball bearing | Tube ø 40 | Series 14 |
| Roller bottom made of plastics with oiled ball bearing | Tube ø 50, 60, 63, 63.5, 80 | Series 15 |
| Roller bottom made of plastics with grooved ball bearing | Tube ø 50, 60, 63.5, 80, 88.9 | Series 16/16K |
| Roller bottom made of plastics with grooved ball bearing | Tube ø 63.5, 80, 88.9, 108 | Series 19 |

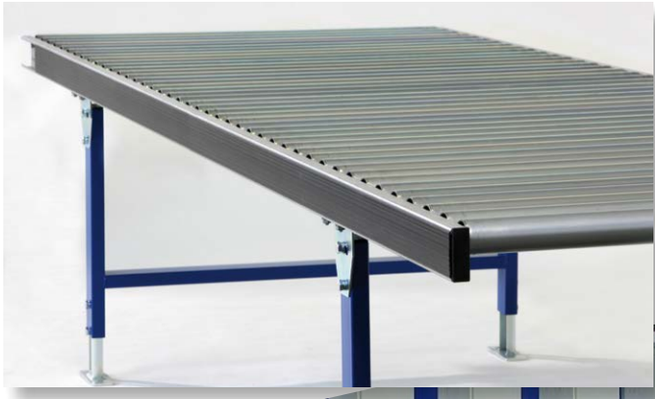
**Roller bottom made of steel**

| | | |
|---|---|---|
| Deburred roller bottom made of galvanized steel sheet with oiled ball bearing | Tube ø 30, 40, 50, 60, 80 | Series 20 |
| Deburred roller bottom made of galvanized steel sheet with grooved ball bearing | Tube ø 40, 50, 60, 80 | Series 25 |
| Deburred roller bottom made of galvanized steel sheet with grooved ball bearing | Tube ø 63.5, 80, 88.9, 108 | Series 26 |
| Welded roller bottom made of steel sheet with grooved ball bearing | Tube ø 63.5, 80, 88.9, 108 | Series 27 |

**Roller bottom „Special“**

| | | |
|---|---|---|
| Skimmed bearing | upon request | Series 28 |
| Fixture welded circle | upon request | Series 28R |

# Gravity Support Roller



TRAPOROL

# Light Gravity Support Roller

**Roller bottom made of plastics with one roller line**
**Tube ø 16 • 20 • 30 • 40**

**Series 10**

## Features:

- ✔ **easy travel**
- ✔ **low curb weight**
- ✔ **max. 14 kg/roller** (see construction notes)

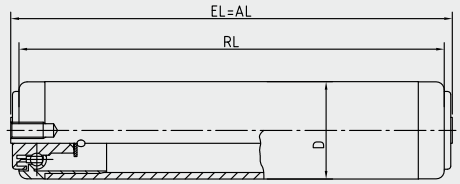
Notes / sketches to Series 10

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

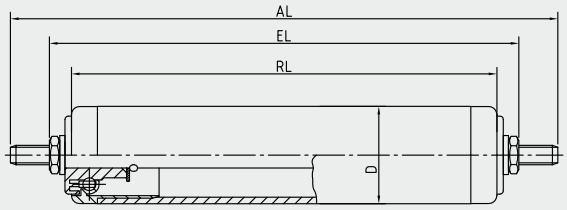
# TRAPOROL

## Series 10

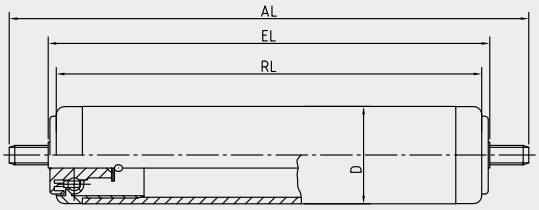
**Light Gravity Support Roller**
**Roller bottom made of plastics with one roller line**
**Tube ø 16 • 20 • 30 • 40**



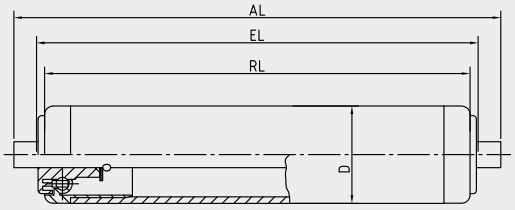

IGM



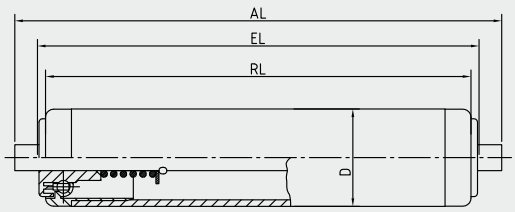

M



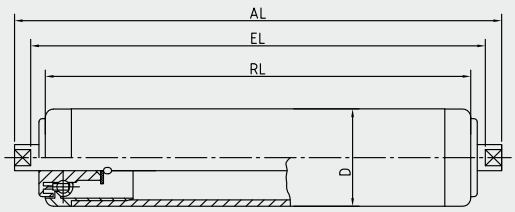

AGM




GL




FA




SW

**The roller insert consists of a plastic roller bottom (Polypropylene) with plastic seal (Polyamide) and steel balls, optional stainless steel balls. Antistatic, roller bottom and seal made of Vestamid.**

| Order no. | Variant |
|---|---|
| 10.1 | Stainless steel balls |
| 10.2 | Roller bottom made of Vestamid with stainless steel balls |
| 10.3 | Roller bottom made of plastic with stainless steel balls and plastic axle |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | | |
|---|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 5 | 6 | 8 | 10 |
| 16 x 1 | x | x | x | x | x | x | | |
| 20 x 1,5 | x | x | x | x | | x | x | |
| 30 x 2 | x | x | x | x | | x | x | x |
| 40 x 1,5 | x | x | x | | | x | x | x |
| 40 x 2,3 | | | | x | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | FA-K | SW |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 5 | EL=RL+ | | | | 3 | 3 | | |
| | 6 | EL=RL+ | | 25,5 | | 15,5 | 15,5 | | |
| 20 | 6 | EL=RL+ | | 15 | | 5 | 5 | 5 | 5 |
| | 8 | EL=RL+ | | 13 | 5 | 5 | 5 | | |
| 30 to 40 | 6 | EL=RL+ | | 15 | | 5 | 5 | 5 | |
| | 8 | EL=RL+ | 5 | 13 | 5 | 5 | 5 | 5 | |
| | 10 | EL=RL+ | 5 | 15 | 5 | 5 | 5 | | 5 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 16 | 1,5 | 3 | 0,10 |
| 20 | 2,5 | 5 | 0,20 |
| 30 to 40 | 3,5 | 7 | 0,30 |

**Special Designs:** see surface variants

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Light Gravity Support Roller**
**Roller bottom made of plastics with two roller lines**
**Tube ø 50 • 60 • 63 • 80**

**Series 11**

## Features:

- ✔ **easy travel**
- ✔ **low curb weight**
- ✔ **max. 20 kg/roller** (see construction notes)

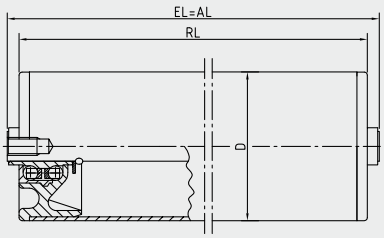
Notes / sketches to Series 11

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

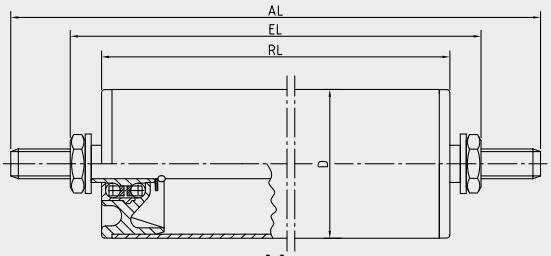
# TRAPOROL

## Series 11

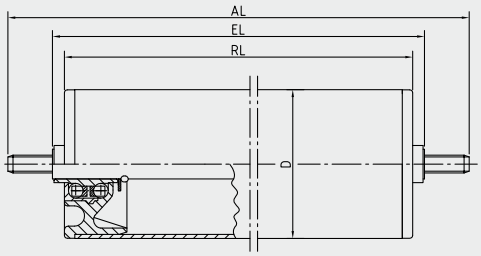
**Light Gravity Support Roller**
**Roller bottom made of plastics with two roller lines**
**Tube ø 50 • 60 • 63 • 80**



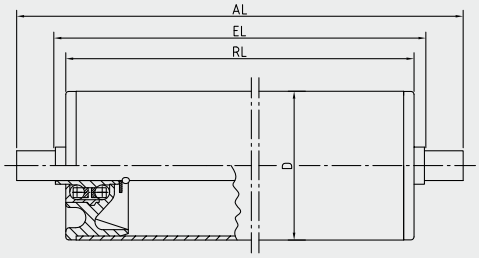
IGM



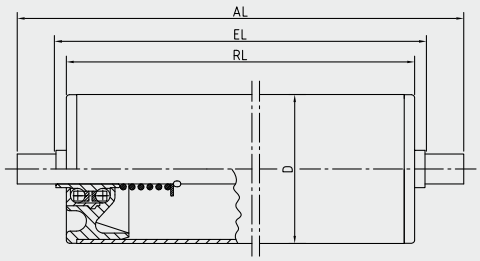
M



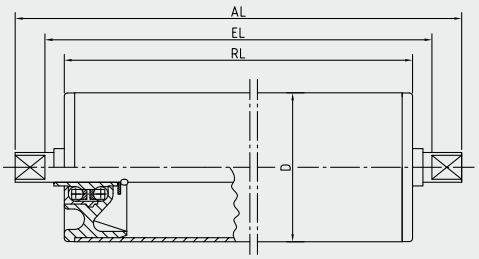
AGM



GL



FA



SW

**The bearing insert consists of a plastic roller bottom (Polypropylene) with plastic sealing (Polypropylene) and steel balls, optional stainless steel balls. Starting from tube ø 60 with distance washer (Polyamide).**

| Order no. | Variant |
|---|---|
| 11.0 | Steel balls |
| 11.1 | Stainless steel balls |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | | |
|---|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 6 | 8 | 10 | 12 |
| 50 x 1,5 | x | x | x | | x | x | x | x |
| 50 x 2 | | | x | | x | x | x | x |
| 50 x 2,8 | | | | x | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x | x |
| 63 x 3 | | | | x | x | x | x | x |
| 80 x 2 | x | x | x | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 6 | EL=RL+ | | 18 | | 8 | 8 | |
| | 8 | EL=RL+ | 8 | 16 | 8 | 8 | 8 | 8 |
| | 10 | EL=RL+ | 8 | 18 | 8 | 8 | 8 | 8 |
| | 12 | EL=RL+ | 8 | 20 | 8 | 8 | 8 | 8 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 5 | 10 | 0,40 |

**Special Designs:** see surface variants

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Gravity Support Roller**
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 30**

**Series 13**

## Features:

- ✔ **low travel noise**
- ✔ **antistatic**
- ✔ **max. 80 kg/roller** (see construction notes)

Notes / sketches to Series 13

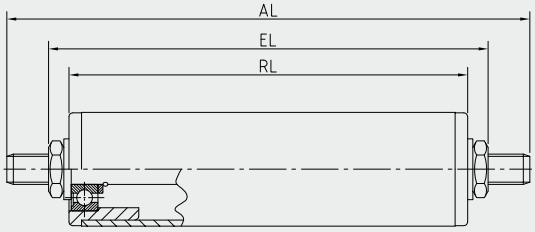
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series 13

**Gravity Support Roller**
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 30**

IGM

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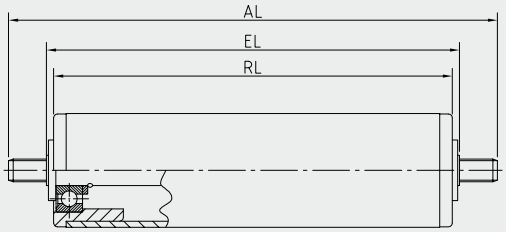
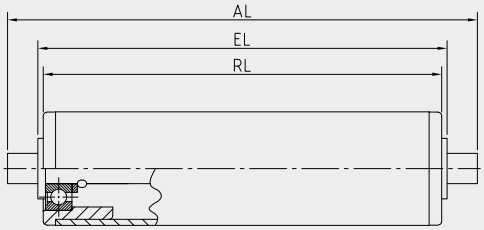
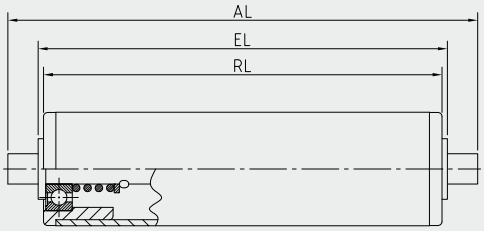


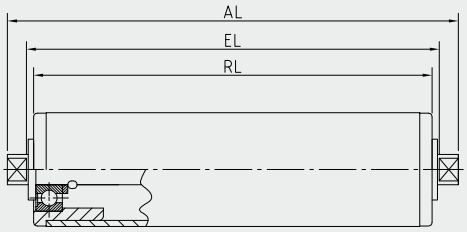

AGM




GL




FA




SW

**The bearing insert consists of a plastic roller bottom (Polyamide) with plastic bearing bush (Polyamide) and grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 13.2 | Grooved ball bearing 608 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 6 | 8 | 10 |
| 30 x 2 | x | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 30 | 8 | EL=RL+ | | 15 | 8 | 8 | 8 | 8 |
| | 10 | EL=RL+ | 5 | 15 | 3 | 3 | 3 | 3 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 30 | 30 | 40 | 1,0 |

**Special Designs:** see surface variants

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Gravity Support Roller
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 40**

**Series 14**

## Features:

- ✔ **low travel noise**
- ✔ **max. 120 kg/roller** (see construction notes)

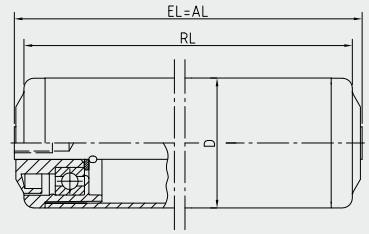
Notes / sketches to Series 14

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

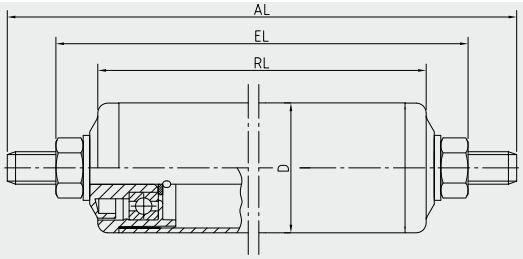
# TRAPOROL

## Series 14

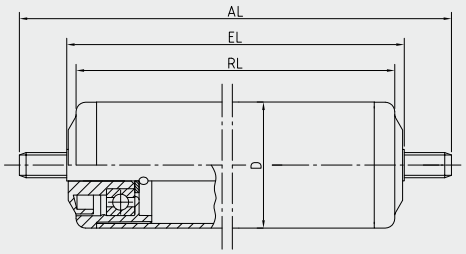
## Gravity Support Roller
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 40**



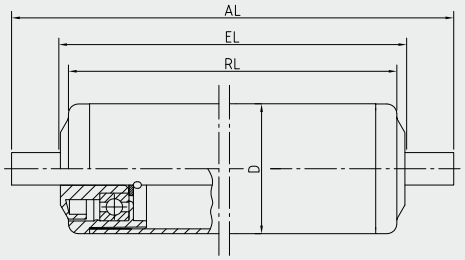
IGM



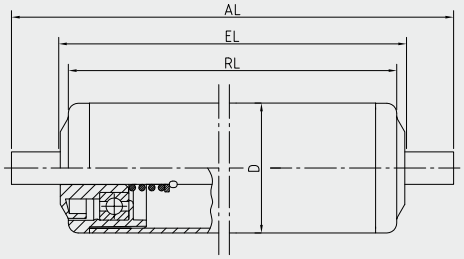
M



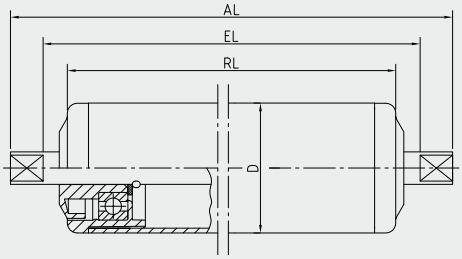
AGM



GL



FA



SW

**The bearing insert consists of a plastic roller bottom (Polyamide) with plastic sealing (Polypropylene) and grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 14.2 | Grooved ball bearing 6002 2RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Construction Notes

## Series 14

### Combination Options Tube / Axle

| Dimensions | Tube: Steel | Tube: Stainless Steel | Tube: Aluminum | Axle: 10 | Axle: 11 | Axle: 12 |
|---|---|---|---|---|---|---|
| 40 x 1,5 | x | x | x | x | x | x |

### Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 40 | 10 | EL=RL+ | 4 | 14 | 4 | 4 | 4 | 4 |
| | 11 | EL=RL+ | | | | 4 | 4 | |
| | 12 | EL=RL+ | 4 | 16 | 4 | 4 | 4 | 4 |

### Load Values Bearings

| Tube ø | maximum Load daN / Bearing: static | maximum Load daN / Bearing: dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 40 | 45 | 60 | 1,50 |

**Special Designs:** see surface variants
antistatic
deburred bearing bottoms

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Gravity Support Roller

**Roller bottom made of plastics with oiled ball bearing**
**Tube ø 50 • 60 • 63 • 63,5 • 80**

**Series 15**

## Features:

- ✔ **easy travel**
- ✔ **additional splash water and dust protection**
- ✔ **suitable for medium-weight material to be transported**
- ✔ **max. 160 kg/roller** (see construction notes)

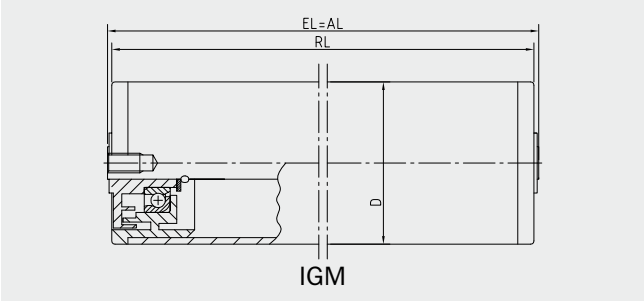
Notes / sketches to Series 15

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

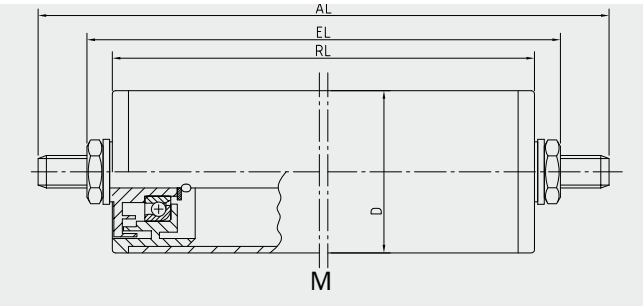
# TRAPOROL

## Series 15

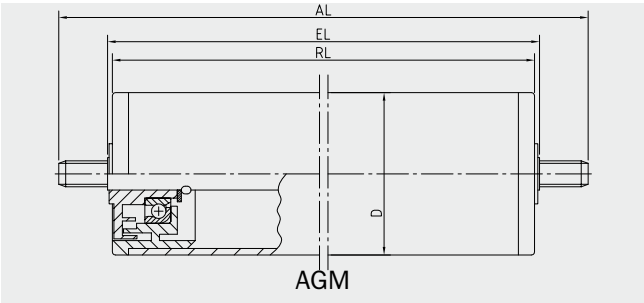
**Gravity Support Roller**
**Roller bottom made of plastics with oiled ball bearing**
**Tube ø 50 • 60 • 63 • 63,5 • 80**



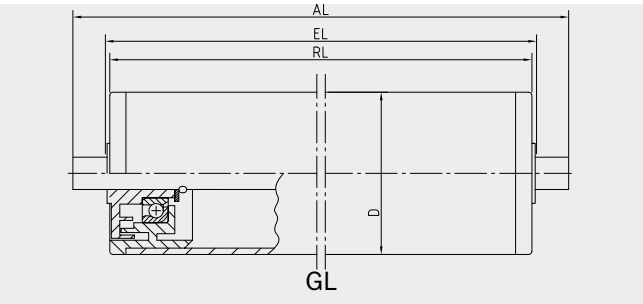
IGM



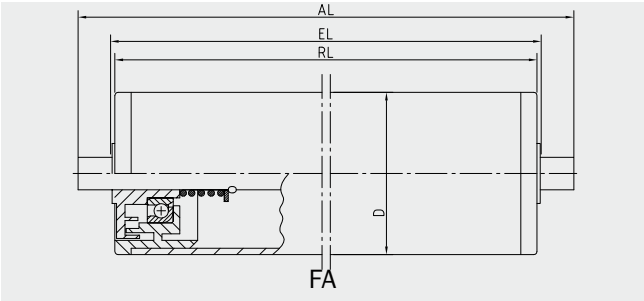
M



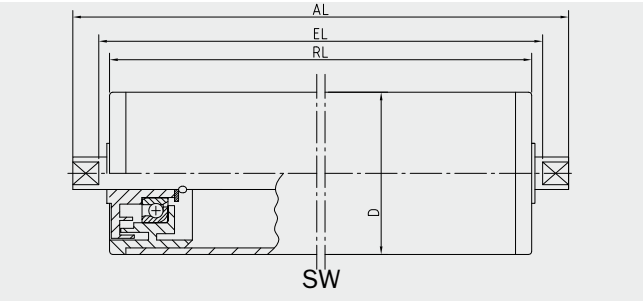
AGM



GL



FA



SW

**The bearing insert consists of a plastic roller bottom (Polypropylene) with plastic sealing (Polypropylene) and pressed ball bearing, optional in stainless steel.**

| Order no. | Variant |
|---|---|
| 15.0 | pressed ball bearing in steel RL30 |
| 15.1 | pressed ball bearing in stainless steel RL31 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2 | x | x | | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 63 x 3 | | | | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x |
| 80 x 2 | x | x | x | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 10 | EL=RL+ | 5 | 15 | 5 | 5 | 5 | 5 |
| | 12 | EL=RL+ | 5 | 17 | 5 | 5 | 5 | 5 |
| | 15 | EL=RL+ | 5 | 19 | 5 | 5 | 5 | 5 |

## Load Values Bearings

| Type | Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 15.0 | 50 to 80 | 60 | 80 | 0,80 |
| 15.1 | 50 to 80 | 20 | 25 | 0,80 |

**Special Designs:** see surface variants

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Gravity Support Roller

**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**

**Series 16/16K**

## Features:

- ✔ **splash water and dust protection**
- ✔ **suitable for high rotational speeds**
- ✔ **suitable for heavy goods to be transported**
- ✔ **max. 200 kg/roller** (see construction notes)

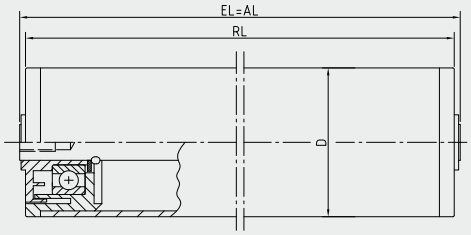
Notes / sketches to Series 16

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

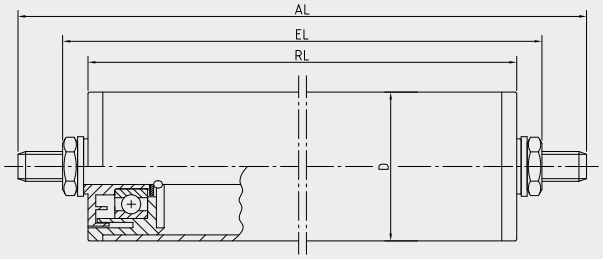
# TRAPOROL

## Series 16/16K

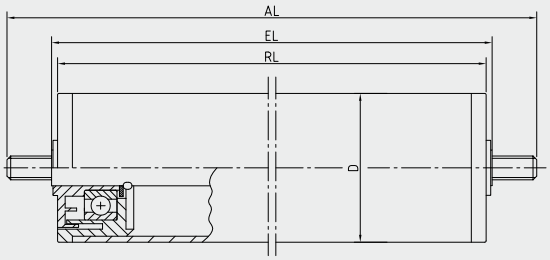
**Gravity Support Roller**
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**



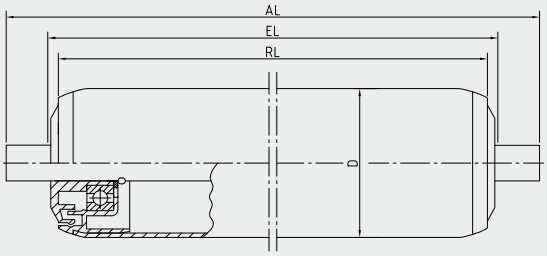
IGM



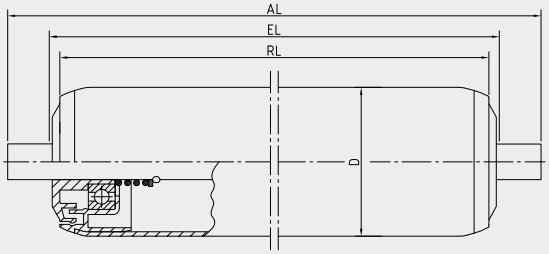
M



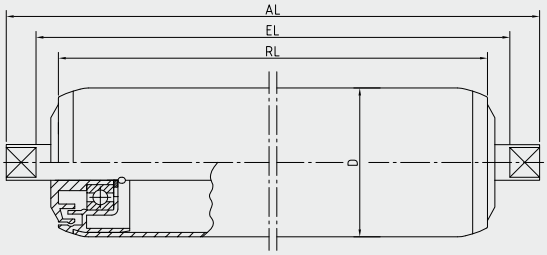
AGM



GL



K-FA



K-SW

**The bearing insert consists of a plastic roller bottom (Polypropylene) with plastic sealing (Polypropylene) and grooved ball bearing DIN 625. Optional with depurred roller bottom. Deburred roller bottom = Recommendation for lateral movement.**

| Order no. | Variant |
|---|---|
| 16.2 | Grooved ball bearing 6202 RS, 6003 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Construction Notes

**Series 16/16K**

## Combination Options Tube / Axle

| Dimensions | Tube: Steel | Tube: Stainless Steel | Tube: Alumi-num | Tube: Plastics | Axle: 10 | Axle: 11 | Axle: 12 | Axle: 15 | Axle: 17 |
|---|---|---|---|---|---|---|---|---|---|
| 50 x 1,5 | x | x | x | | x | x | x | x | x |
| 50 x 2 | x | x | x | | x | x | x | x | |
| 50 x 2,8 | | | | x | x | x | x | x | x |
| 50 x 3 | x | x | | | x | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x | x | x |
| 60 x 3 | x | x | | | x | x | x | x | x |
| 63 x 3 | | | | x | x | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x | x | x |
| 80 x 2 | x | x | x | | x | x | x | x | x |
| 80 x 3 | x | | | | x | x | x | x | x |
| 88,9 x 2,9 | x | x | | | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 10 | EL=RL+ | 6 | 16 | 6 | 6 | 6 | 6 |
| | 11 | EL=RL+ | | | | 6 | 6 | |
| | 12 | EL=RL+ | 6 | 18 | 6 | 6 | 6 | 6 |
| | 15 | EL=RL+ | 6 | 20 | 6 | 6 | | 6 |
| | 17 | EL=RL+ | 6 | 22 | 6 | 6 | | 6 |

## Relation of EL to RL / mm — K= deburred roller bottom

| Tube ø | Axle ø | | K-IGM | K-M | K-AGM | K-GL | K-FA | K-SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 10 | EL=RL+ | 5 | 14 | 5 | 5 | 5 | 5 |
| | 11 | EL=RL+ | | | | | 5 | 5 |
| | 12 | EL=RL+ | 5 | 16 | 5 | 5 | 5 | 5 |
| | 15 | EL=RL+ | 5 | | 5 | 5 | | |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing: static | maximum Load daN / Bearing: dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 50 to 88,9 | 80 | 100 | 2,00 |

**Special Designs:** **see surface variants**
**antistatic**
**rust-proof**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Gravity Support Roller

**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 63,5 • 80 • 88,9 • 108**

**Series 19**

## Features:

- ✔ **splash water and dust protection**
- ✔ **suitable for high rotational speeds**
- ✔ **suitable for heavy goods to be transported**
- ✔ **max. 300 kg/roller** (see construction notes)

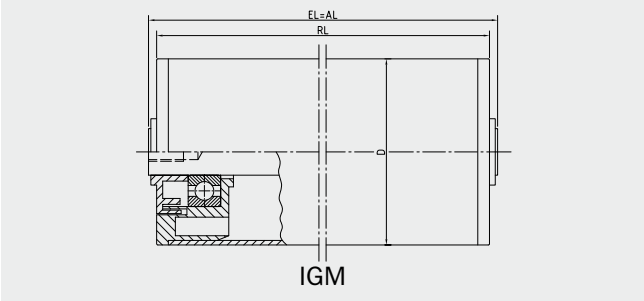
Notes / sketches to Series 19

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

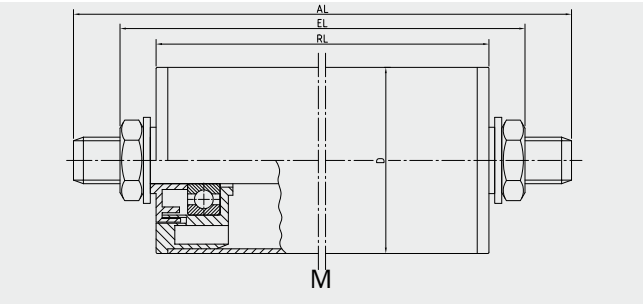
# TRAPOROL

## Series 19

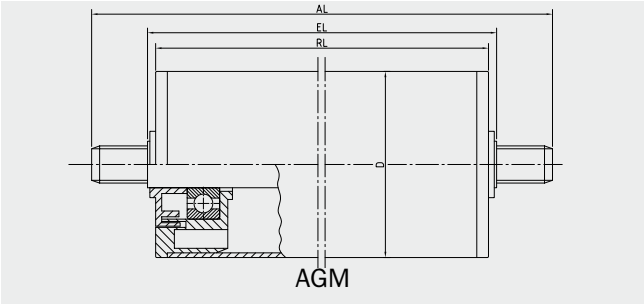
**Gravity Support Roller**
**Roller bottom made of plastics with grooved ball bearing**
**Tube ø 63,5 • 80 • 88,9 • 108**



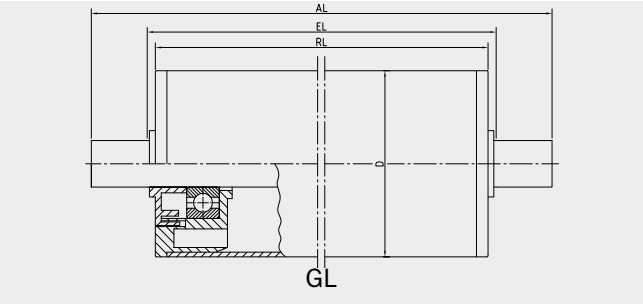
IGM



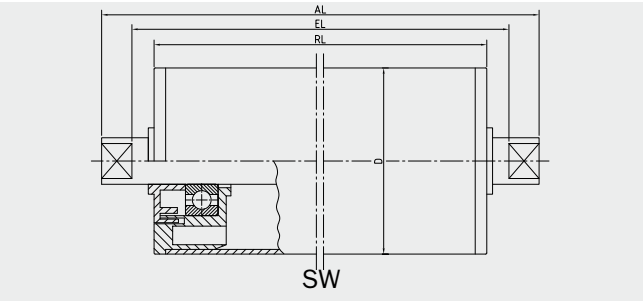
M



AGM



GL



SW

**The bearing insert consists of a plastic roller bottom (Polycarbonate) with plastic sealing (Polypropylene) and grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 19.2 | Grooved ball bearing 6204 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | Axle |
|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | 20 |
| 63,5 x 2,9 | x | | | x |
| 80 x 2 | x | x | x | x |
| 80 x 3 | x | x | | x |
| 88,9 x 2,9 | x | x | | x |
| 108 x 3,25 | x | | | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 63,5 to 108 | 20 | EL=RL+ | 5 | 25 | 5 | 5 | 5 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 63,5 to 108 | 120 | 150 | 2,00 |

**Special Designs:** **see surface variants**
**rust-proof**
**deburred bearing bottoms**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with oiled ball bearing**
**Tube ø 30 • 40 • 50 • 60 • 80**

**Series 20**

## Features:

- ✔ **easy travel**
- ✔ **suitable for lateral tasks**
- ✔ **deburred roller bottom**
- ✔ **antistatic**
- ✔ **max. 160 kg/roller** (see construction notes)

Notes / sketches to Series 20

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

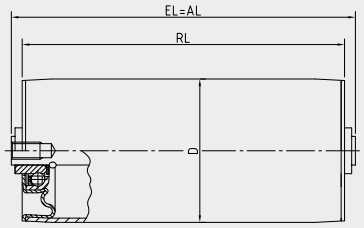
# TRAPOROL

## Series 20

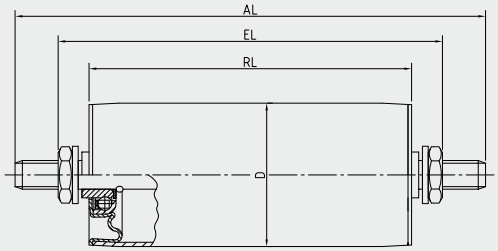
## Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with oiled ball bearing**

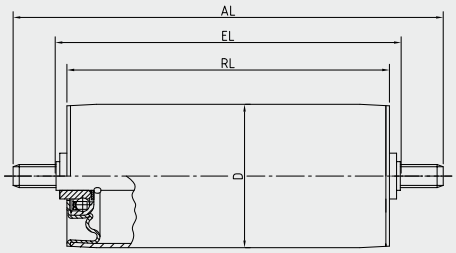
**Tube ø 30 • 40 • 50 • 60 • 80**



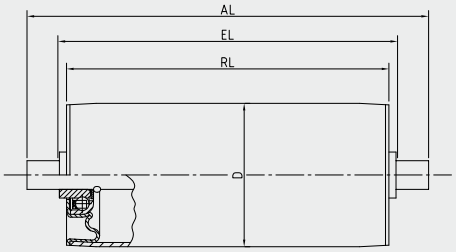

IGM



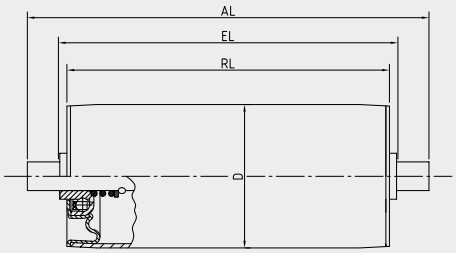

M



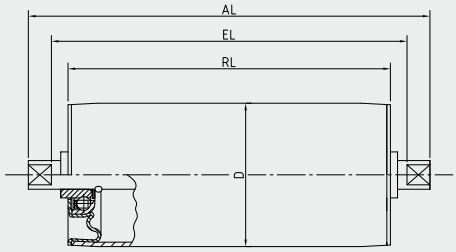

AGM




GL




FA




SW

**The bearing insert consists of a galvanized steel sheet roller bottom and a pressed ball bearing.**

| Order no. | Variant |
|---|---|
| 20.0 | pressed ball bearing |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| Dimensions | Tube Steel | Axle 6 | 8 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|
| 30 x 1,5 | x | x | x | x | | |
| 40 x 1,5 | x | x | x | x | x | x |
| 50 x 1,5 | x | x | x | x | x | x |
| 50 x 2 | x | x | x | x | x | x |
| 60 x 2 | x | | x | x | x | x |
| 80 x 2 | x | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 30 | 6 | EL=RL+ | | 16 | | 6 | 6 | |
| | 8 | EL=RL+ | 6 | 14 | 6 | 6 | 6 | |
| | 10 | EL=RL+ | 6 | 16 | 6 | 6 | 6 | 6 |
| 40 to 60 | 6 | EL=RL+ | | 16 | | 6 | 6 | |
| | 8 | EL=RL+ | 6 | 14 | 6 | 6 | 6 | |
| | 10 | EL=RL+ | 6 | 16 | 6 | 6 | 6 | 6 |
| | 11 | EL=RL+ | | | | 6 | 6 | |
| | 12 | EL=RL+ | 6 | 18 | 6 | 6 | 6 | 6 |
| 80 | 8 | EL=RL+ | 8 | 16 | 8 | 8 | 8 | |
| | 10 | EL=RL+ | 8 | 18 | 8 | 8 | 8 | 8 |
| | 11 | EL=RL+ | | | | 8 | 8 | |
| | 12 | EL=RL+ | 8 | 20 | 8 | 8 | 8 | 8 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing static | dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 30 | 20 | 30 | 0,30 |
| 40 | 60 | 80 | 0,40 |
| 50 to 80 | 60 | 80 | 0,50 |

**Special Designs:** **see surface variants**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with grooved ball bearing**
**Tube ø 40 • 50 • 60 • 80**

**Series 25**

## Features:

- ✔ **splash water and dust protection**
- ✔ **suitable for lateral tasks**
- ✔ **suitable for high rotational speeds**
- ✔ **suitable for heavy goods to be transported**
- ✔ **max. 240 kg/roller** (see construction notes)

Notes / sketches to Series 25

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

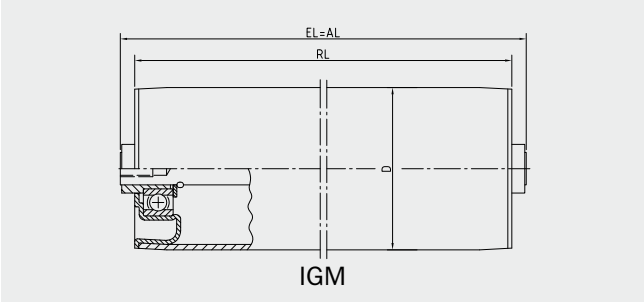
# TRAPOROL

## Series 25

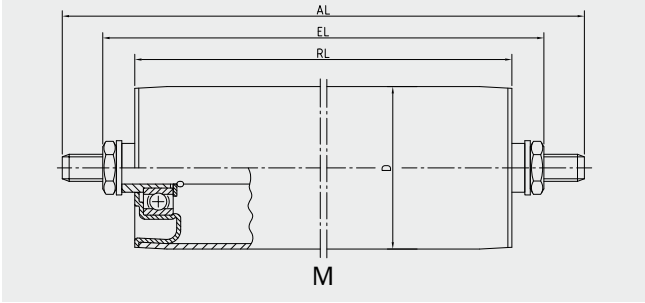
## Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with grooved ball bearing**

**Tube ø 40 • 50 • 60 • 80**



IGM



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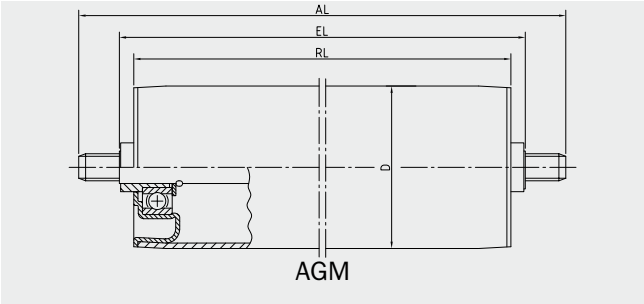

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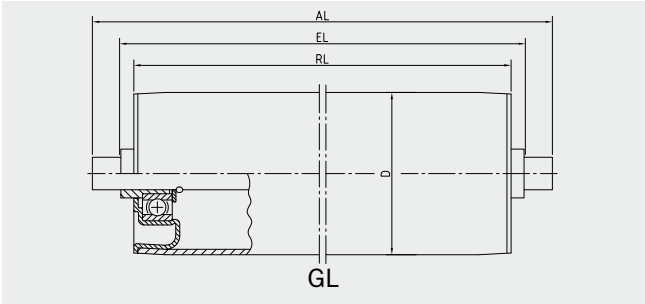

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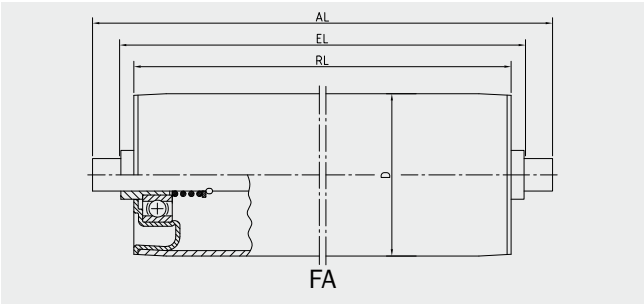
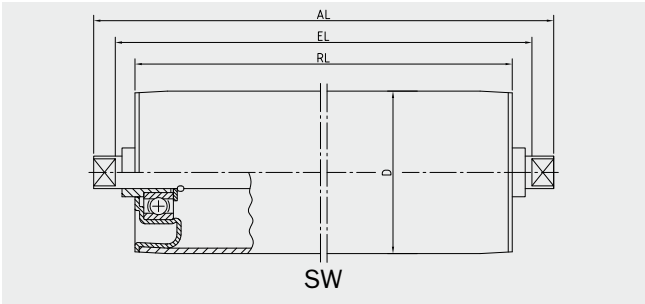


FA



SW

**The bearing insert consists of a galvanized steel sheet roller bottom with plastic bearing bush (Polypropylene) and grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 25.2 | Grooved ball bearing 6202 RS, 6003 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | Axle | | | | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | 10 | 11 | 12 | 15 | 17 |
| 50 x 1,5 | x | x | x | x | x | x |
| 50 x 2 | x | x | | x | x | x |
| 60 x 2 | x | x | x | x | x | x |
| 60 x 3 | x | x | x | x | x | x |
| 80 x 2 | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 10 | EL=RL+ | 10 | 20 | 10 | 10 | 10 | 10 |
| | 11 | EL=RL+ | | | | 10 | 10 | |
| | 12 | EL=RL+ | 10 | 22 | 10 | 10 | 10 | 10 |
| | 15 | EL=RL+ | 10 | 24 | 10 | | | 10 |
| | 17 | EL=RL+ | 10 | 26 | 10 | | | 10 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 100 | 120 | 2,00 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **see surface variants**
**for high and deep freeze temperature ranges**
**antistatic**

# Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with grooved ball bearing**
**Tube ø 63,5 • 80 • 88,9 • 108**

**Series 26**

## Features:

- ✔ **splash water and dust protection**
- ✔ **suitable for high rotational speeds**
- ✔ **suitable for heavy goods to be transported**
- ✔ **max. 500 kg/roller** (see construction notes)

Notes / sketches to Series 26

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

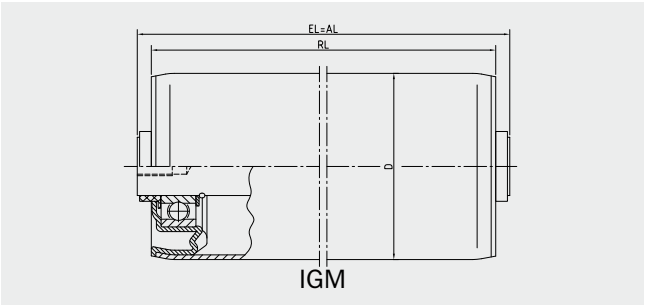
# TRAPOROL

## Series 26

## Gravity Support Roller

**Deburred roller bottom made of galvanized steel sheet with grooved ball bearing**

**Tube ø 63,5 • 80 • 88,9 • 108**



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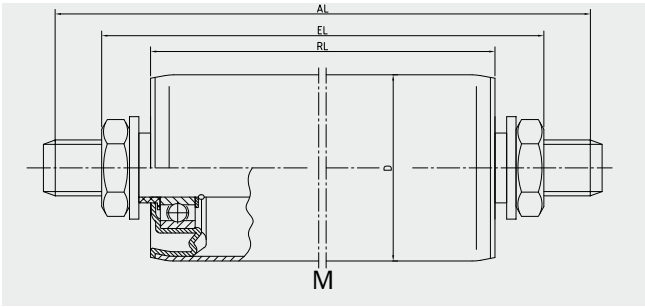

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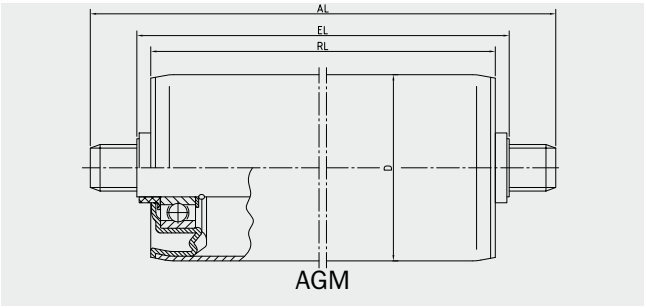

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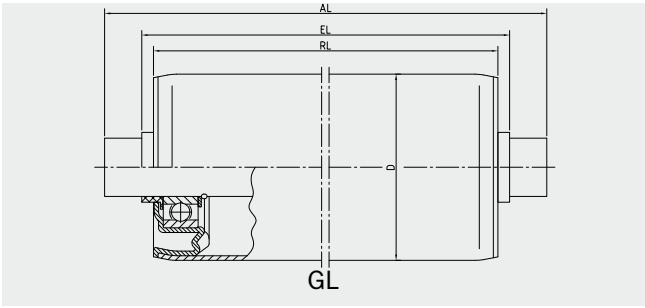
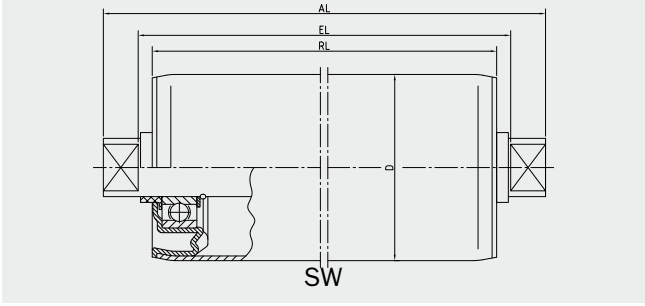


GL



SW

**The bearing insert consists of a galvanized steel sheet roller bottom with plastic bearing bush (Polypropylen) and with grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 26.2 | Grooved ball bearing 6204 RS, 6205 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| Dimensions | Tube Steel | Axle 20 | Axle 25 |
|---|---|---|---|
| 63,5 x 2,9 | x | x | |
| 80 x 2 | x | x | |
| 80 x 3 | x | x | |
| 88,9 x 2,9 | x | x | x |
| 108 x 3,25 | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 63,5 | 20 | EL=RL+ | 9 | 19 | 9 | 9 | |
| 80 to 108 | 20 | EL=RL+ | 9 | 19 | 9 | 9 | 9 |
| | 25 | EL=RL+ | 9 | 19 | 9 | 9 | 9 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing static | maximum Load daN / Bearing dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 63,5 | 180 | 200 | 2,00 |
| 80 to 108 | 200 | 250 | 2,00 |

**Special Designs:** **see surface variants**
**for high and deep freeze temperature ranges**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Gravity Support Roller**
**Welded roller bottom made of steel sheet with grooved ball bearing**
**Tube ø 63,5 • 80 • 88,9 • 108**

**Series 27**

## Features:

- ✔ **splash water and dust protection**
- ✔ **axial lock**
- ✔ **double labyrinth sealing**
- ✔ **suitable for very heavy goods to be transported**
- ✔ **max. 500 kg/roller** (see construction notes)

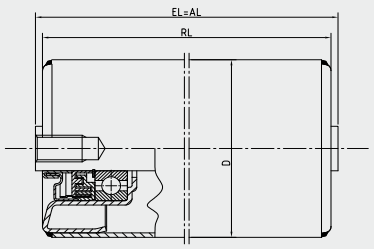
Notes / sketches to Series 27

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

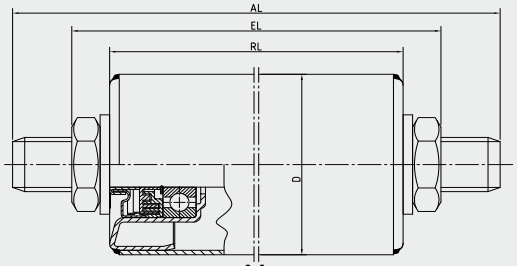
# TRAPOROL

## Series 27

**Gravity Support Roller**
**Welded roller bottom made of steel sheet with grooved ball bearing**
**Tube ø 63,5 • 80 • 88,9 • 108**



IGM



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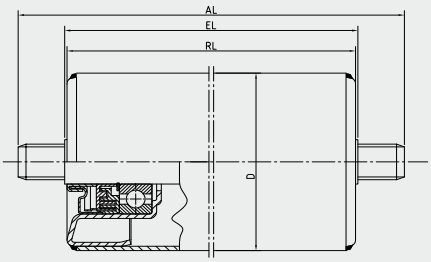

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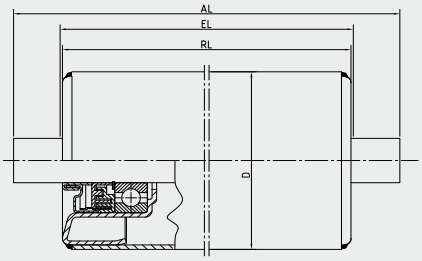
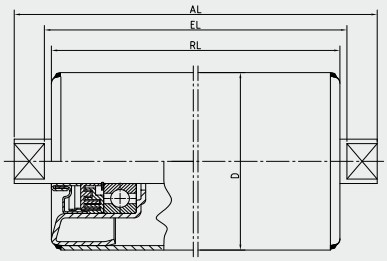


GL



SW

**The bearing insert consists of a steel sheet roller bottom with labyrinth sealing (Polypropylene) and grooved ball bearing DIN 625.**

| Order no. | Variant |
|---|---|
| 27.2 | Grooved ball bearing 6204 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | Axle | Axle |
|---|---|---|---|
| **Dimensions** | **Steel** | **20** | **25** |
| 63,5 x 2,9 | x | x | |
| 80 x 2 | x | x | |
| 80 x 3 | x | x | |
| 88,9 x 2,9 | x | x | x |
| 108 x 3,25 | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 63,5 to 108 | 20 | EL=RL+ | 10 | 26 | 10 | 10 | 10 |
| 89 to 108 | 25 | EL=RL+ | 10 | 26 | 10 | 10 | 10 |

## Load Values Bearings

| Tube ø | maximum Load daN / Bearing | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 63,5 | 180 | 200 | 2,00 |
| 80 to 108 | 220 | 250 | 2,00 |

**Special Designs:** **see surface variants**
**for high and deep freeze temperature ranges**
**larger axel diameters upon request**
**larger tube diameters upon request**
**Version with roller bottom made of stainless steel for tube- and A20 on request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Skimmed bearing fixture welded circle**

**Series 28**
**Series 28R**

## Features:

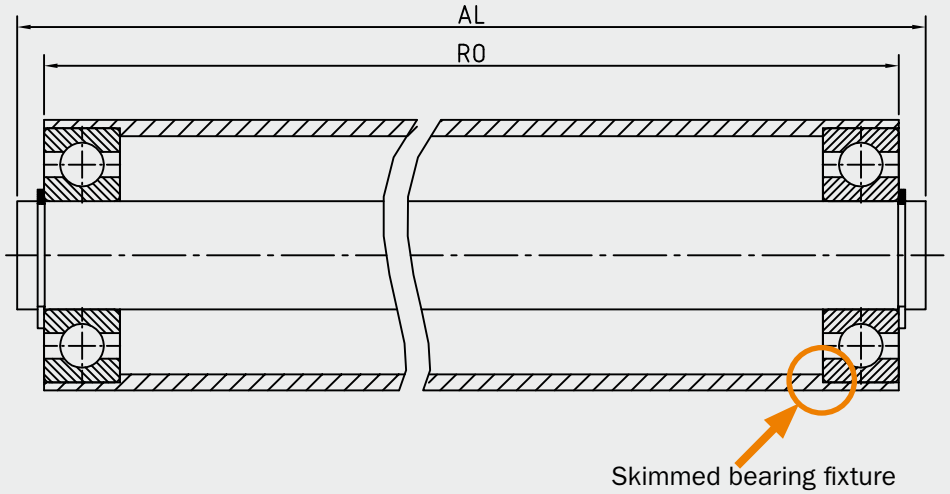
- ✔ skimmed bearing fixture inside tube
- ✔ diverse bearings according to customer request: spherical bearing / grooved ball bearing / freewheel bearings / other bearings
- ✔ bearing locking with Seeger rings
- ✔ Materials according to customer request
- ✔ for high and deep freeze temperature ranges
- ✔ load depending on the respective version

Notes / sketches to Series 28/28R

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

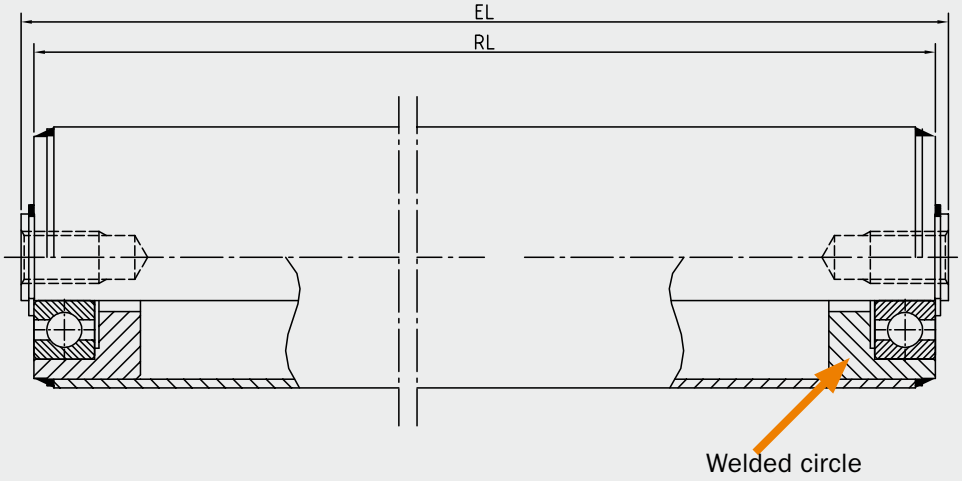
## Series 28

**Skimmed bearing fixture**




## Series 28R

**Welded circle of solid material with bearing fixture**



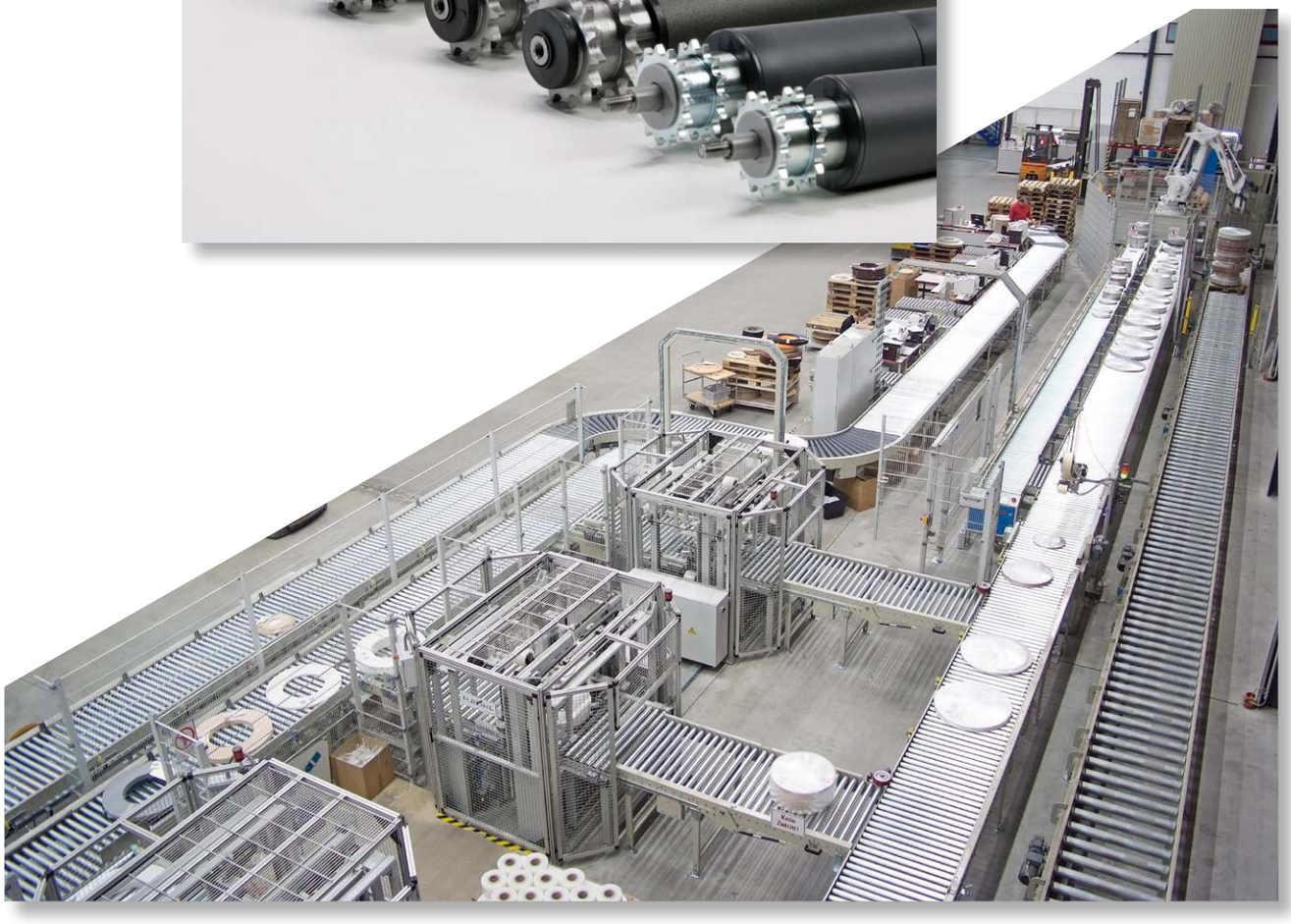

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL
*DRIVING YOUR PERFORMANCE.*

# Driven Support Roller

| | | |
|---|---|---|
| **Driven Support Roller** | | |
| Pleat for round belts | Tube ø 50, 60, 80 | Series 30 |
| **Driven with single chain wheel** | | |
| Single chain wheel made of steel | Tube ø 30 | Series 31 |
| Single chain wheel made of plastics | Tube ø 50, 60, 63, 63.5, 80 | Series 32 |
| Single chain wheel made of steel | Tube ø 50, 60, 63, 63.5, 80 | Series 33 |
| Single chain wheel made of plastics | Tube ø 50, 60, 63, 63.5, 80 | Series 34 |
| Single chain wheel made of steel | Tube ø 50, 60, 63, 63.5, 80, 88.9 | Series 35 |
| Single chain wheel made of steel | Tube ø 63.5, 80, 88.9, 108 | Series 37 |
| Single chain wheel made of steel | Tube ø 88.9, 108 | Series 38 |
| **Driven with double chain wheel** | | |
| Double chain wheel made of steel | Tube ø 20, 30 | Series 40 |
| Double chain wheel made of plastics | Tube ø 20, 30 | Series 40K |
| Double chain wheel made of steel | Tube ø 30 | Series 41 |
| Double chain wheel made of steel | Tube ø 30, 40 | Series 42 |
| Double chain wheel made of steel | Tube ø 50, 60, 63, 63.5, 80, 88.9 | Series 43 |
| Double chain wheel made of plastics | Tube ø 50, 60, 63, 63.5, 80, 88.9 | Series 44 |
| Double chain wheel made of steel | Tube ø 50, 60, 63, 63.5, 80, 88.9 | Series 45 |
| Double chain wheel made of steel | Tube ø 63.5, 80, 88.9, 108 | Series 47 |
| Double chain wheel made of steel | Tube ø 80, 88.9, 108 | Series 48 |
| **Driven with toothed belt wheel** | | |
| Toothed belt wheel made of plastics | Tube ø 50, 60, 63.5, 80, 88.9 | Series 54 |
| Toothed belt wheel made of steel | Tube ø 50, 60, 63.5, 80, 88.9 | Series 55 |
| **Driven with Poly-V-head** | | |
| Poly-V-head made of plastics (DIN 7867) | Tube ø 50, 60, 63, 63.5, 80 | Series 56K |

# Driven Support Roller



TRAPOROL

**Driven Support Roller**
**Pleat for round belts**
**Tube ø 50 • 60 • 80**

**Series 30**

## Features:

✔ **Data comply with the selected bearing.**

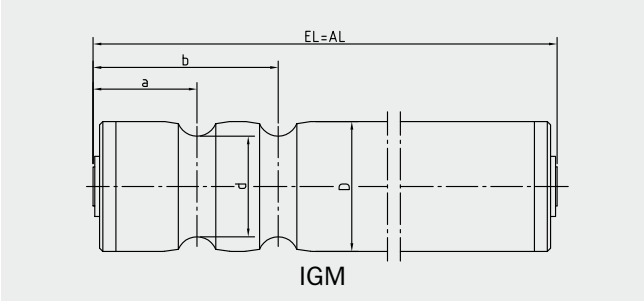
Notes / sketches to Series 30

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

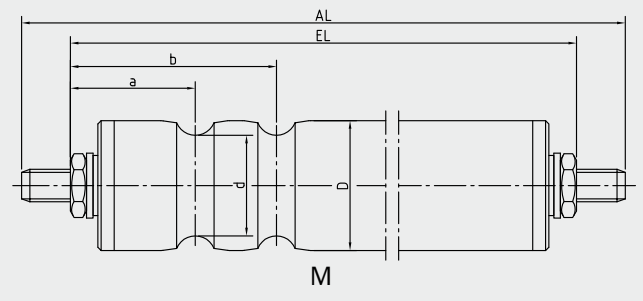
# TRAPOROL

## Series 30

**Driven Support Roller**
**Pleat for round belts**
**Tube ø 50 • 60 • 80**



IGM



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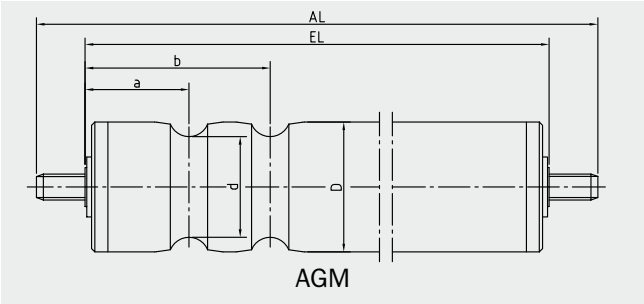

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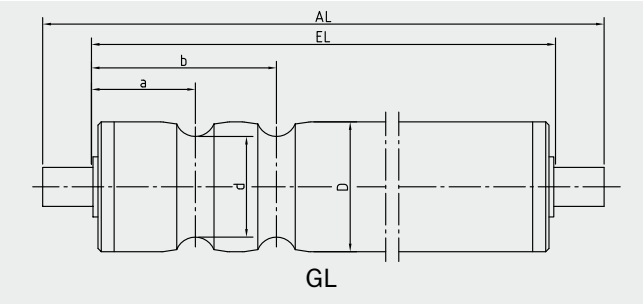

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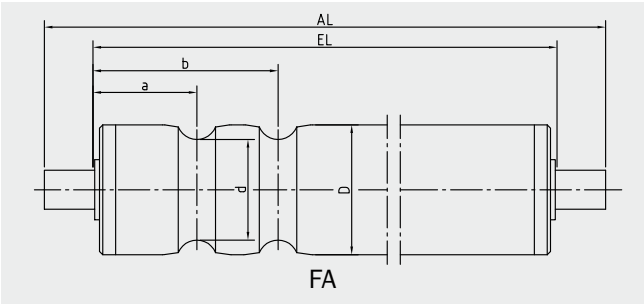

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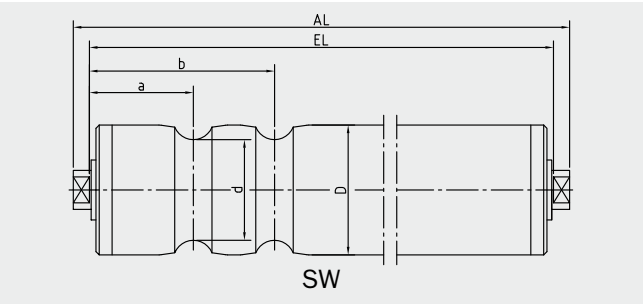


SW

**Driven support roller for round belt drive with one or two pleats. Rollers are manufactured in antistatic version.**
**Bearing: Series 16, 20 or 25**

| Order no. | Variant |
|---|---|
| 30.1 | Support roller with 1 pleat |
| 30.2 | Support roller with 2 pleats |
| 30.x | Support roller with „x“ pleats upon request |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

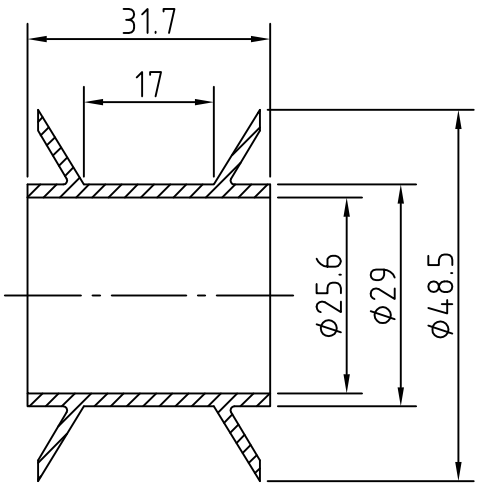
| Pleat dimensions | | | | |
|---|---|---|---|---|
| **Steel tube** | **Belt ø** | **$a_{min}$** | **$a\text{-}b_{min}$** | **$d_{min}$** |
| 50 x 1,5 | 5 | 40 | 35 | 40 |
| 60 x 2 | 6 | 40 | 35 | 48 |
| 80 x 2 | 6 | 40 | 35 | 68 |

At axle version with axle caps a + b + 5 mm!
All further technical data comply with those of the selected bearing.

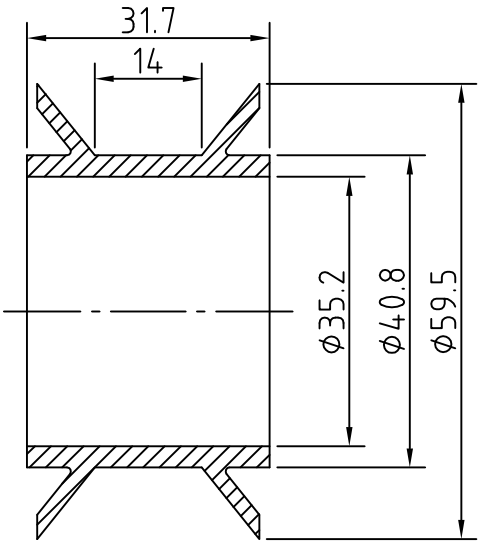
## Accessories

Diabolo roller made of plastics (Polyamide)

**Type DR25**




**Type DR35**




**Special Designs:** **see surface variants**
**rust proof**
**Special drive element made of plastic**
**with „x“ pleats upon request**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of steel 3/8 x 7/32" Z = 10**
**Tube ø 30**

**Series 31**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **suitable for light to medium heavy goods to be transported**
- ✔ **max. 60 kg/roller** (s. Construction Notes)

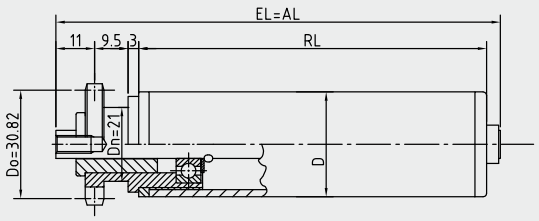
Notes / sketches to Series 31

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

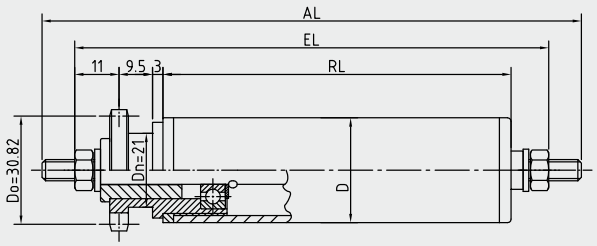
# TRAPOROL

## Series 31

**Driven Support Roller**
**Single chain wheel made of steel 3/8 x 7/32” Z = 10**
**Tube ø 30**



IGM



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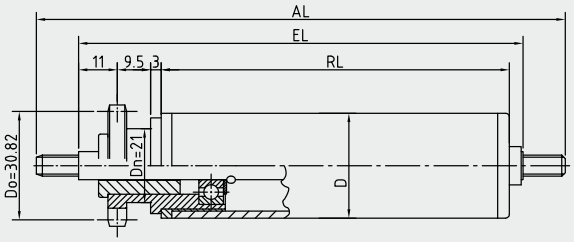

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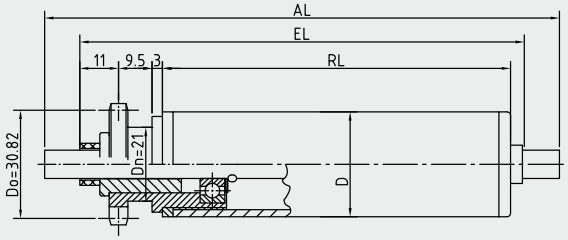

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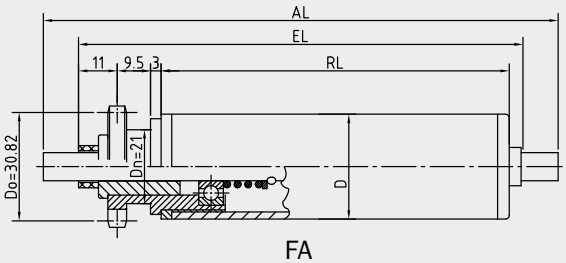

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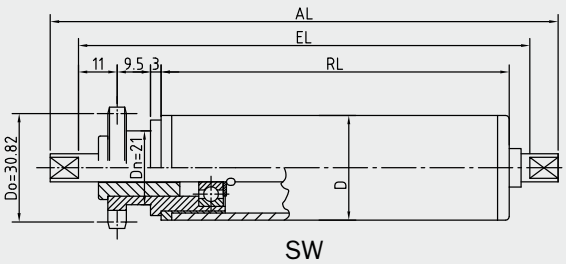


SW

**The bearing consists of a galvanized steel single chain wheel with hardened tooth surface 3/8 x 7/32” Z = 10 with grooved ball bearing DIN 625 and counter bearing (series 10 or 13). Friction version only with counter bearing series 13.**

| Order no. | Variant |
|---|---|
| 31.2 | Friction roller with grooved ball bearing 608 RS / 6900 RS |
| 31.6 | Fixed roller with grooved ball bearing 608 RS / 6900 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 8 | 10 |
| 30 x 2 | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 30 | 8 | EL=RL+ | 26 | 35 | 26 | 26 | 26 | 26 |
| | 10 | EL=RL+ | 26 | 34 | 26 | 26 | 26 | 26 |

## Load Values Bearings

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 30 | Series 10 | 10 | 20 | 0,30 |
| | Series 13 | 50 | 60 | 0,40 |

**Special Designs:** **see surface variants**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of plastics 1/2 x 5/16” Z = 11**
**Tube ø 50 • 60 • 63**

**Series 32**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **low curb weight**
- ✔ **low operating noise**
- ✔ **max. 40 kg/roller** (s. Construction Notes)

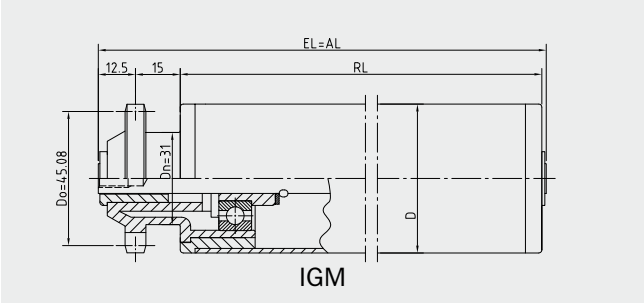
Notes / sketches to Series 32

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

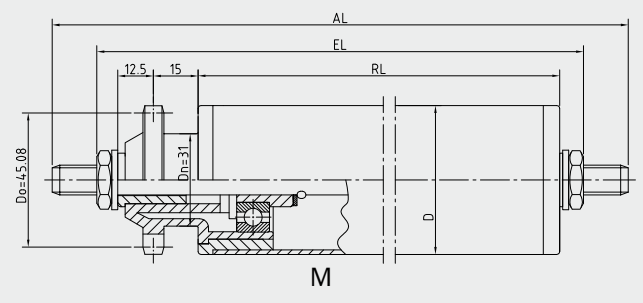
# TRAPOROL

## Series 32

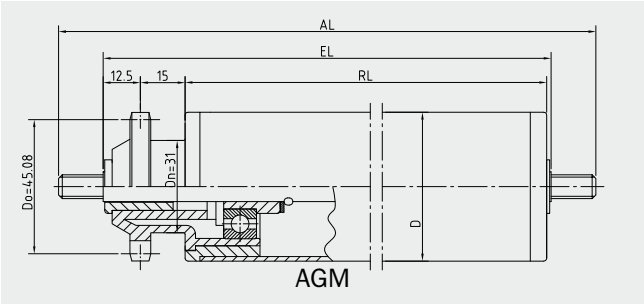
**Driven Support Roller**
**Single chain wheel made of plastics 1/2 x 5/16” Z = 11**
**Tube ø 50 • 60 • 63**



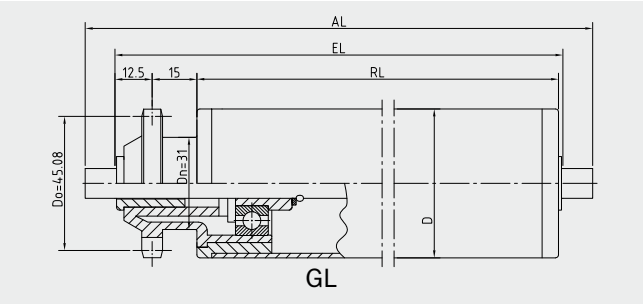
IGM



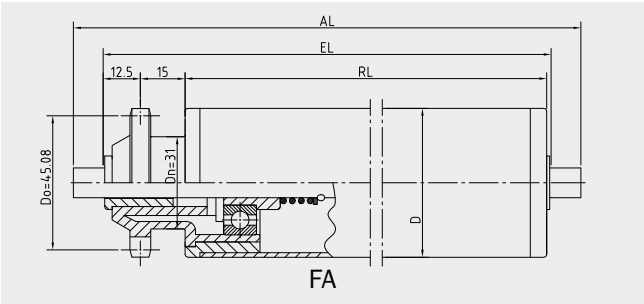
M



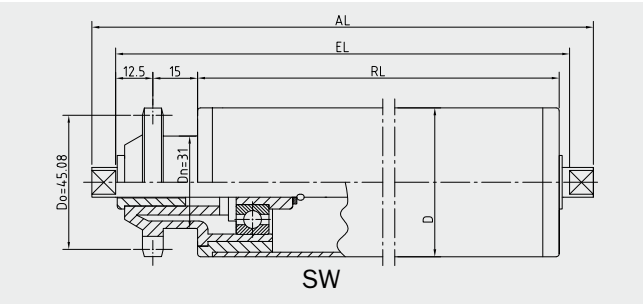
AGM



GL



FA



SW

**The bearing consists of a plastic single chain wheel 1/2 x 5/16” Z = 11 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25).**

| Order no. | Variant |
|---|---|
| 32.2 | Friction roller with grooved ball bearing 6202 RS |
| 32.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 |
| 50 x 1,5 | x | x | x | | x | x |
| 50 x 2,8 | | | | x | x | x |
| 60 x 2 | x | x | x | | x | x |
| 63 x 3 | | | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 63 | 10 | EL=RL+ | 31 | 41 | 31 | 31 | 31 | 31 |
| | 12 | EL=RL+ | 31 | 43 | 31 | 31 | 31 | 31 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 63 | 35 | 40 | 0,50 |

**Special Designs:** **see surface variants**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of steel 1/2 x 5/16” Z = 11**
**Tube ø 50 • 60 • 63 • 63,5 • 80**

**Series 33**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **max. 100 kg/roller** (s. Construction Notes)

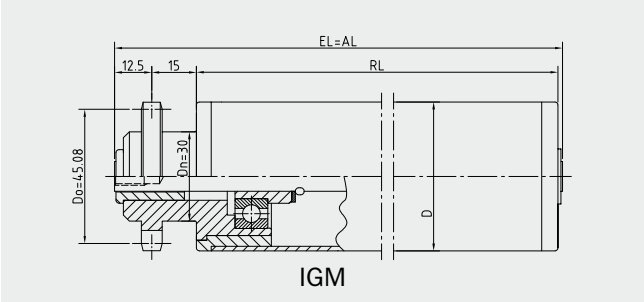
Notes / sketches to Series 33

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

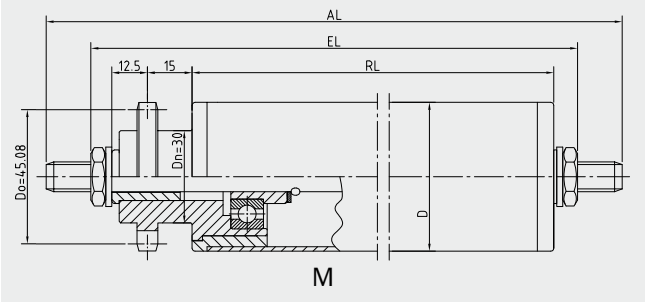
# TRAPOROL

## Series 33

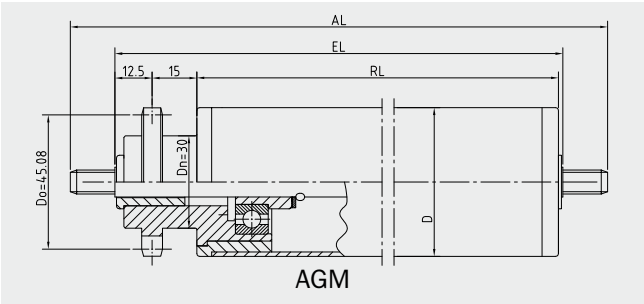
**Driven Support Roller**
**Single chain wheel made of steel 1/2 x 5/16” Z = 11**
**Tube ø 50 • 60 • 63 • 63,5 • 80**



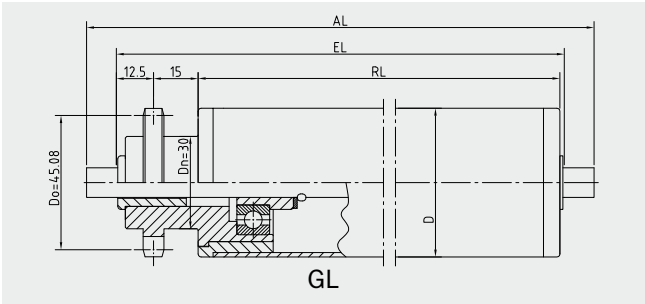
IGM



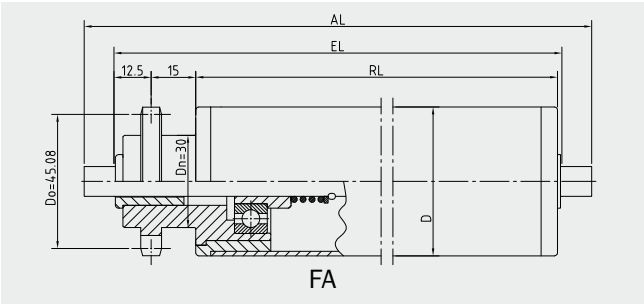
M



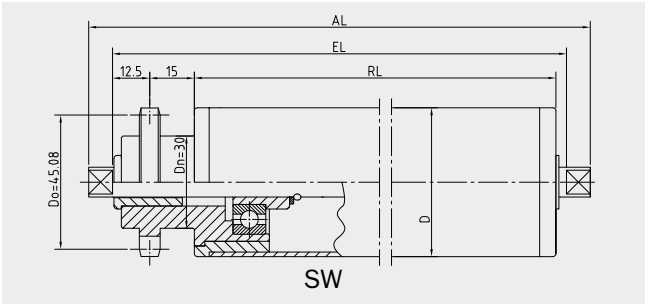
AGM



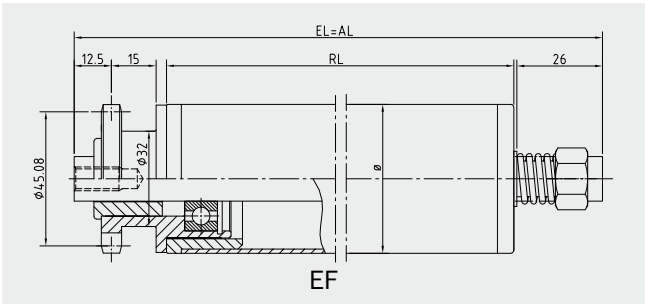
GL



FA



SW



EF

**The bearing consists of a steel single chain wheel 1/2 x 5/16” Z = 11 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25).**

| Order no. | Variant |
|---|---|
| 33.2 | Friction roller with grooved ball bearing 6202 RS |
| 33.6 | Fixed roller with grooved ball bearing 6202 RS |
| 33.9 | Fixed roller, welded with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 63 x 3 | | | | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x |
| 80 x 2 | x | x | x | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW | EF |
|---|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 10 | EL=RL+ | 31 | 42 | 31 | 31 | 31 | 31 | |
| | 12 | EL=RL+ | 31 | 43 | 31 | 31 | 31 | 31 | |
| | 15 | | | | | | | | 56 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 80 | 100 | 0,50 |

**Special Designs:** **see surface variants**
**high and deep freeze temperature range**
**rust proof**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of plastics 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63 • 63,5 • 80**

**Series 34**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **low operating noise**
- ✔ **max. 40 kg/roller** (s. Construction Notes)

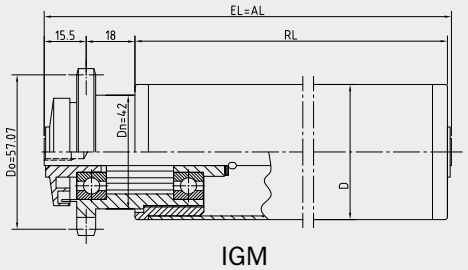
Notes / sketches to Series 34

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

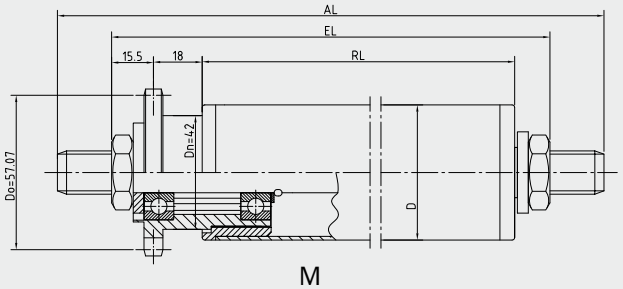
# TRAPOROL

## Series 34

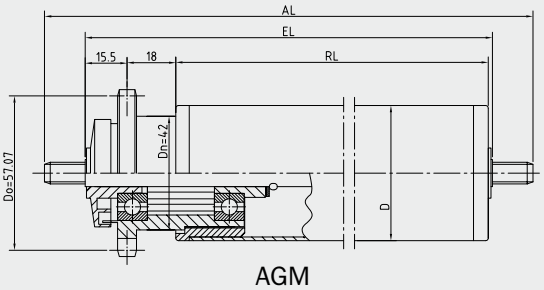
**Driven Support Roller**
**Single chain wheel made of plastics 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63 • 63,5 • 80**



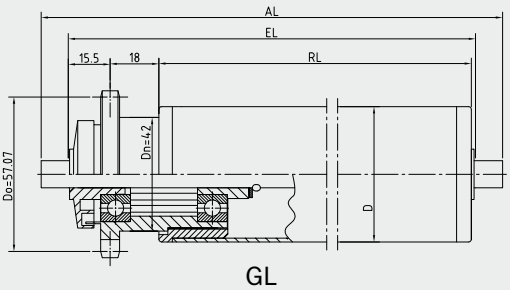
IGM



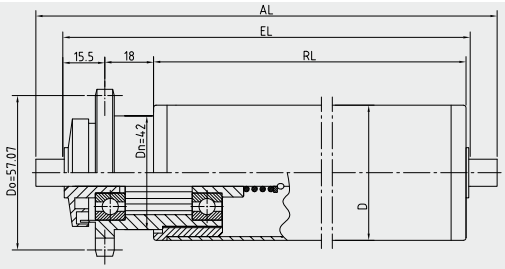
M



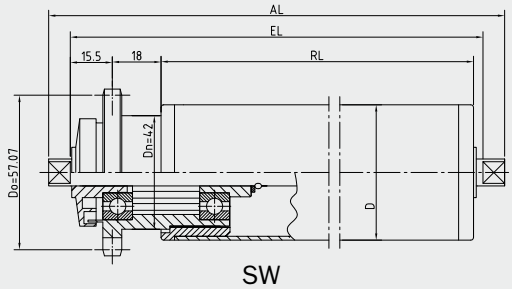
AGM



GL



FA



SW

**The bearing consists of a plastic single chain wheel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25).**

| Order no. | Variant |
|---|---|
| 34.2 | Friction roller with grooved ball bearing 6202 RS |
| 34.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 63 x 3 | | | | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x |
| 80 x 2 | x | x | x | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 10 | EL=RL+ | 37 | 42 | 37 | 37 | 37 | 37 |
| | 12 | EL=RL+ | 37 | 43 | 37 | 37 | 37 | 37 |
| | 15 | EL=RL+ | 37 | 44 | 37 | 37 | 37 | 37 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 35 | 40 | 0,50 |

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**
**EF function**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**

**Series 35**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **max. 100 kg/roller** (s. Construction Notes)

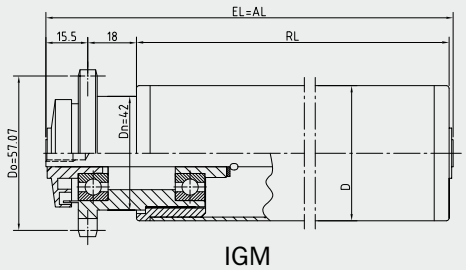
Notes / sketches to Series 35

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

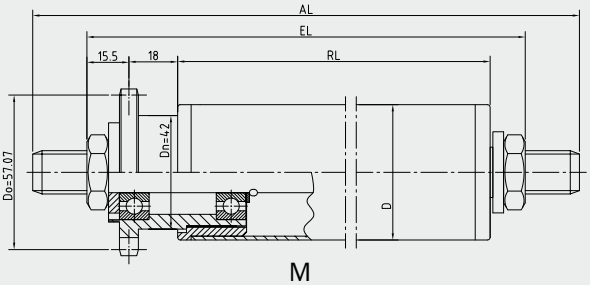
# TRAPOROL

## Series 35

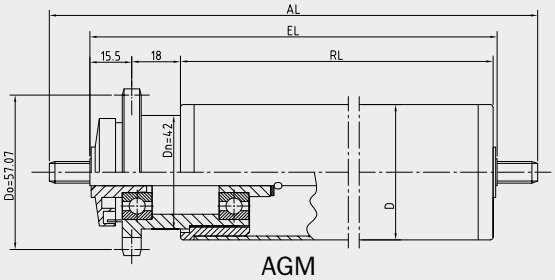
**Driven Support Roller**
**Single chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**



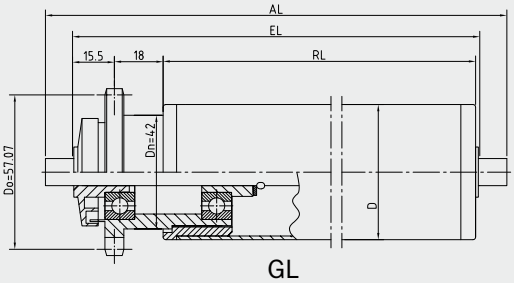
IGM



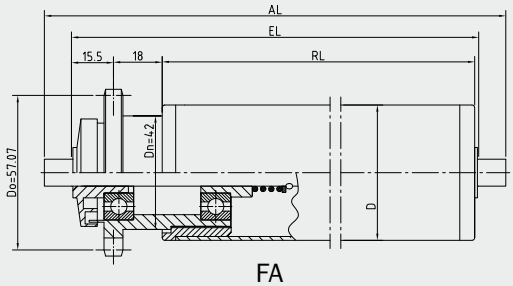
M



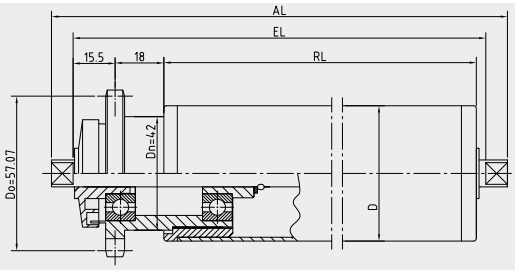
AGM



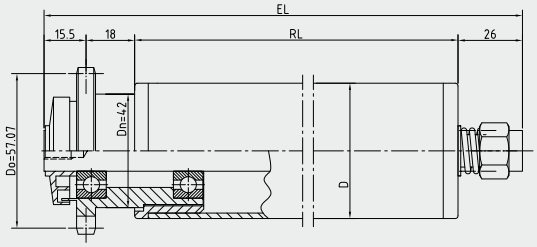
GL



FA



SW



EF

**The bearing consists of a steel single chain wheel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25). Double bearing only with friction rollers.**

| Order no. | Variant |
|---|---|
| 35.2 | Friction roller with grooved ball bearing 6202 RS, 6003 RS |
| 35.6 | Fixed roller with grooved ball bearing 6202 RS, 6003 RS |
| 35.9 | Fixed roller, welded with grooved ball bearing 6202 RS, 6003 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 63 x 3 | | | | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x |
| 80 x 2 | x | x | x | | x | x | x |
| 88,9 x 2,9 | x | x | | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW | EF |
|---|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 10 | EL=RL+ | 37 | 42 | 37 | 37 | 37 | 37 | |
| | 12 | EL=RL+ | 37 | 43 | 37 | 37 | 37 | 37 | |
| | 15 | EL=RL+ | 37 | 44 | 37 | 37 | 37 | 37 | 63 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 88,9 | 80 | 100 | 0,50 |

**Special Designs:** **see surface variants**
**high and deep freeze temperature range**
**rust proof**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of steel 5/8 x 3/8” Z = 15, welded**
**Tube ø 80 • 88,9 • 108**

**Series 37**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **medium to heavy weight goods to be transported**
- ✔ **max. 400 kg/roller** (s. Construction Notes)

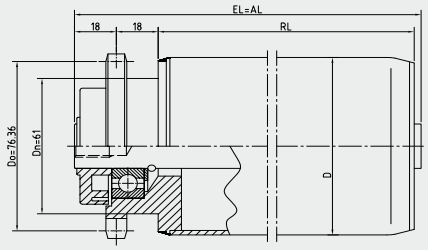
Notes / sketches to Series 37

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

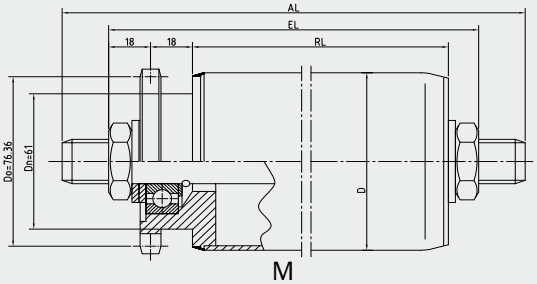
# TRAPOROL

## Series 37

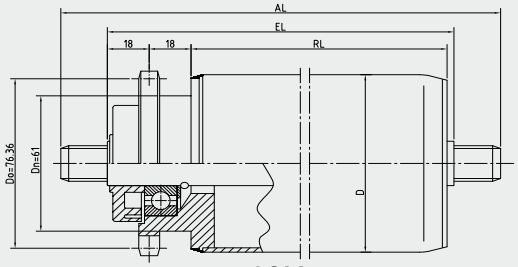
**Driven Support Roller**
**Single chain wheel made of steel 5/8 x 3/8” Z = 15, welded**
**Tube ø 80 • 88,9 • 108**



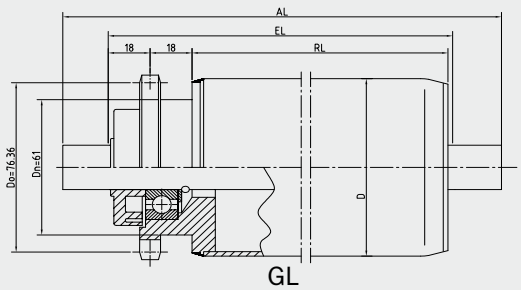
IGM



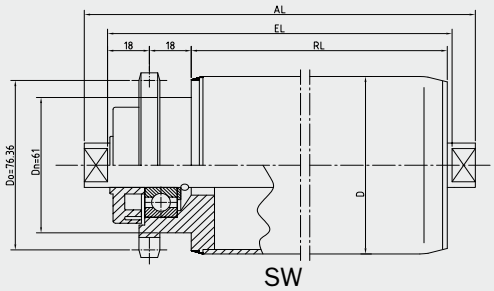
M



AGM



GL



SW

**The bearing consists of a steel single chain wheel 5/8 x 3/8” Z = 15 with grooved ball bearing DIN 625 and counter bearing (series 19, 26 or 27).**

| Order no. | Variant |
|---|---|
| 37.9 | Fixed roller, welded with grooved ball bearing 6204 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| Dimensions | Tube: Steel | Tube: Stainless Steel | Axle: 20 |
|---|---|---|---|
| 80 x 2 | x | x | x |
| 80 x 3 | x | x | x |
| 88,9 x 2,9 | x | x | x |
| 108 x 3,25 | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 80 to 108 | 20 | EL=RL+ | 41 | 50 | 41 | 41 | 41 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller: static | maximum Load daN / roller: dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 80 to 108 | 350 | 400 | 0,80 |

**Special Designs:** **see surface variants**
**high and deep freeze temperature range**
**rust proof**
**load independent friction**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Single chain wheel made of steel 3/4 x 7/16” Z = 13, welded**
**Tube ø 88,9 • 108**

**Series 38**

## Features:

- ✔ **Rack and pinion geared**
- ✔ **for heavy goods to be transported**
- ✔ **max. 500 kg/roller** (s. Construction Notes)

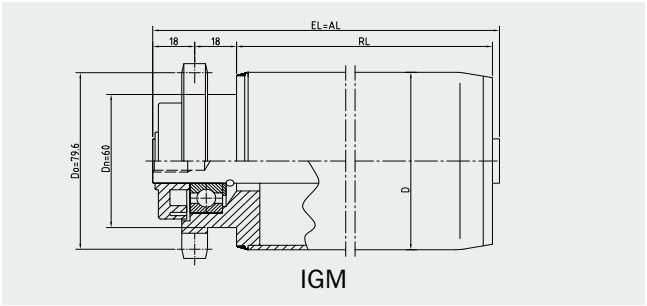
Notes / sketches to Series 38

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

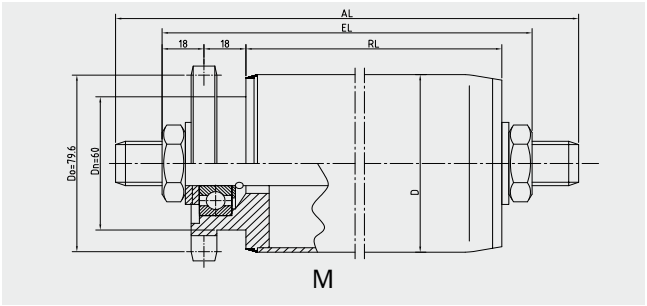
# TRAPOROL

## Series 38

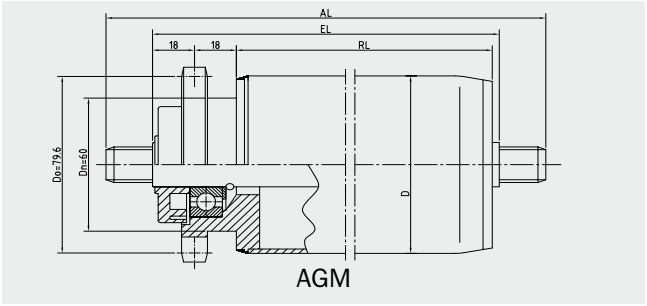
**Driven Support Roller**
**Single chain wheel made of steel 3/4 x 7/16” Z = 13, welded**
**Tube ø 88,9 • 108**



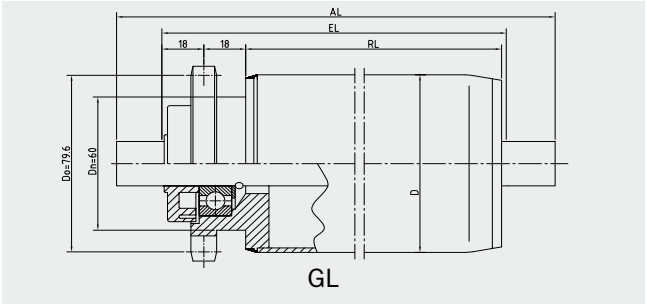
IGM



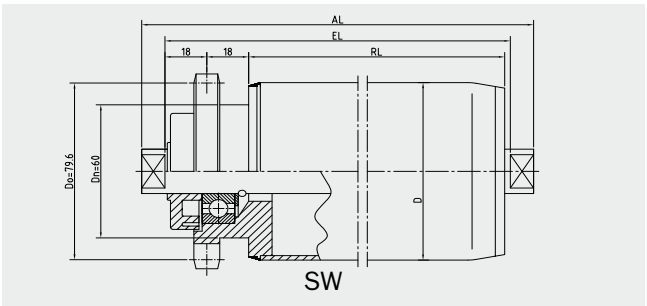
M



AGM



GL



SW

**The bearing consists of a steel single chain wheel 3/4 x 7/16” Z = 13 with grooved ball bearing DIN 625 and counter bearing (series 26 or 27).**

| Order no. | Variant |
|---|---|
| 38.9 | Fixed roller, welded with grooved ball bearing 6204 RS, 6005 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | Axle | |
|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | 20 | 25 |
| 88,9 x 2,9 | x | x | x | x |
| 108 x 3,25 | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 88,9 to 108 | 20 | EL=RL+ | 41 | 50 | 41 | 41 | 41 |
| | 25 | EL=RL+ | 41 | 50 | 41 | 41 | 41 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 88,9 to 108 | 400 | 500 | 0,80 |

**Special Designs:** **see surface variants**
**rust proof**
**load independent friction**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Driven Support Roller
**Double chain wheel made of steel 6 x 3 mm Z = 17**
**Tube ø 20 • 30**

**Series 40**

## Features:

- ✔ **hardened tooth flanks**
- ✔ **low curb weight**
- ✔ **for low-weight goods to be transported**
- ✔ **max. 20 kg/roller** (s. Construction Notes)

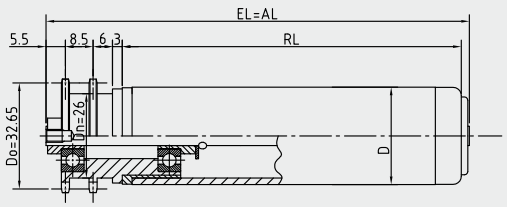
Notes / sketches to Series 40

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

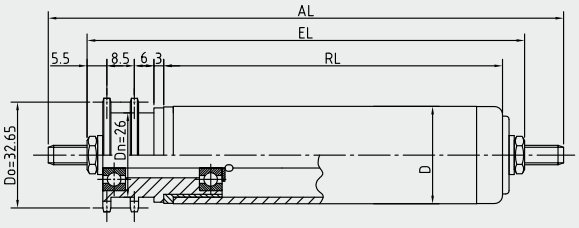
# TRAPOROL

## Series 40

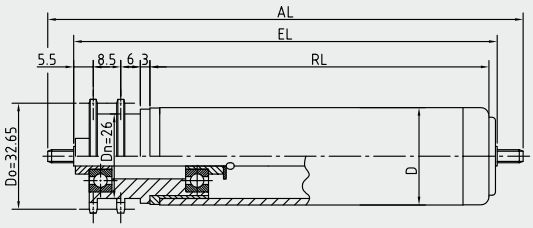
**Driven Support Roller**
**Double chain wheel made of steel 6 x 3 mm Z = 17**
**Tube ø 20 • 30**



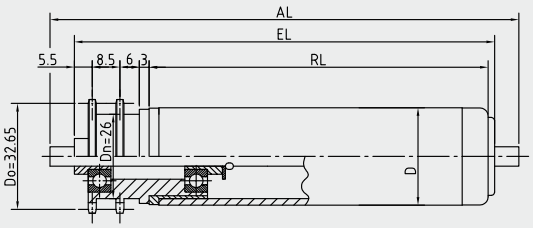

IGM



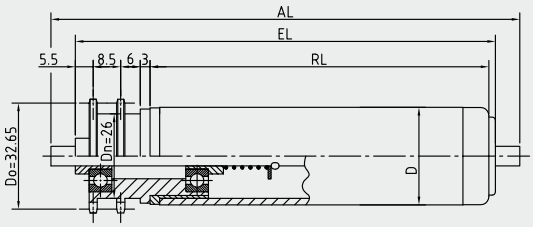

M




AGM




GL




FA

**The bearing consists of a galvanized steel double chain wheel 6 x 3 mm with hardened tooth surface Z = 17 with grooved ball bearing DIN 625 and counter bearing (series 10 or 13). Friction version only with counter bearing series 13.**

| Order no. | Variant |
|---|---|
| 40.2 | Friction roller with grooved ball bearing 608 RS, tube ø 30 only |
| 40.6 | Fixed roller with grooved ball, tube, 20 pressed without bush |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 6 | 8 |
| 20 x 1,5 | x | x | x | x | x | x |
| 30 x 2 | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA |
|---|---|---|---|---|---|---|---|
| 20 | 6 | EL=RL+ | | 35 | | 25 | 25 |
| | 8 | EL=RL+ | 25 | 29 | 25 | 25 | 25 |
| 30 | 6 | EL=RL+ | | 35 | | 25 | 25 |
| | 8 | EL=RL+ | 25 | 29 | 25 | 25 | 25 |

## Load Values Bearings

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 20 | Series 10 | 5 | 10 | 0,20 |
| 30 | | 5 | 14 | 0,30 |
| 30 | Series 13 | 15 | 20 | 0,40 |

**Special Designs:** **see surface variants**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Double chain wheel made of plastics 6 x 3 mm Z = 17**
**Tube ø 20 • 30**

**Series 40K**

## Features:

- ✔ **low curb weight**
- ✔ **low operating noise**
- ✔ **max. 20 kg/roller** (s. Construction Notes)

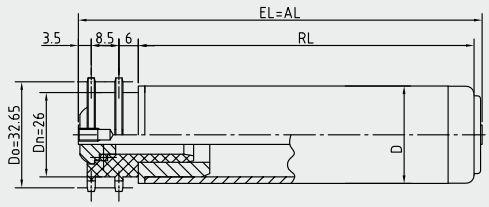
Notes / sketches to Series 40K

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

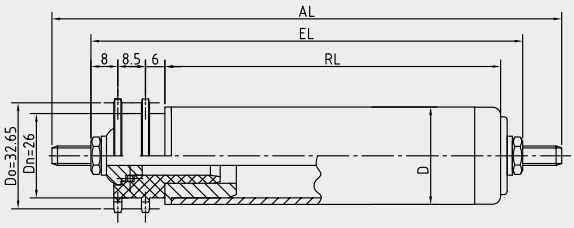
# TRAPOROL

## Series 40K

**Driven Support Roller**
**Double chain wheel made of plastics 6 x 3 mm Z = 17**
**Tube ø 20 • 30**




IGM

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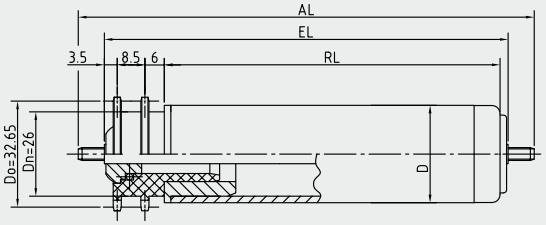
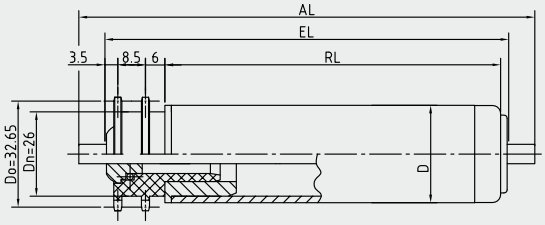
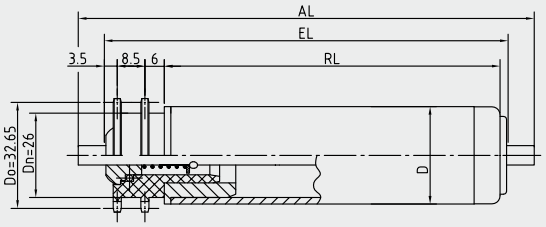



AGM




GL




FA

**The bearing consists of a plastic double chain wheel 6 x 3 mm Z = 17 with steel balls and counter bearing (series 10 or 13).**

| Order no. | Variant |
|---|---|
| 40K.2 | Friction roller with stainless steel balls, tube ø 30 only |
| 40K.6 | Fixed roller with stainless steel balls 608 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle |
|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 8 |
| 20 x 1,5 | x | x | x | x | x |
| 30 x 2 | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA |
|---|---|---|---|---|---|---|---|
| 20 | 8 | EL=RL+ | 25 | 29 | 25 | 25 | 25 |
| 30 | 8 | EL=RL+ | 25 | 29 | 25 | 25 | 25 |

## Load Values Bearings

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 20 | Series 10 | 5 | 10 | 0,20 |
| 30 | | 5 | 14 | 0,30 |
| 30 | Series 13 | 15 | 20 | 0,40 |

**Special Designs:** **see surface variants**
**antistatic**
**rust proof**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Driven Support Roller

**Double chain wheel made of steel 3/8 x 7/16” Z = 12**
**Tube ø 30 • 40**

**Series 41**

## Features:

- ✔ **low curb weight**
- ✔ **max. 30 kg/roller** (s. Construction Notes)

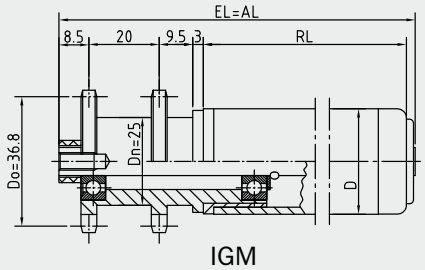
Notes / sketches to Series 41

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

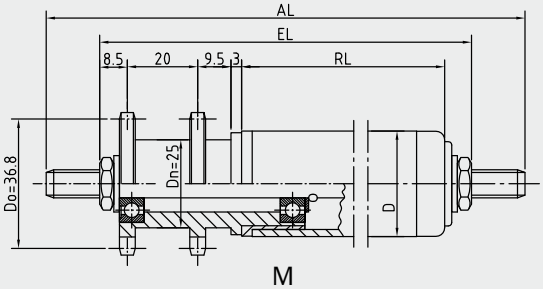
# TRAPOROL

## Series 41

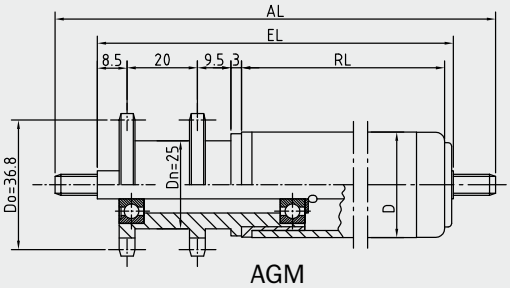
**Driven Support Roller**
**Double chain wheel made of steel 3/8 x 7/16” Z = 12**
**Tube ø 30 • 40**



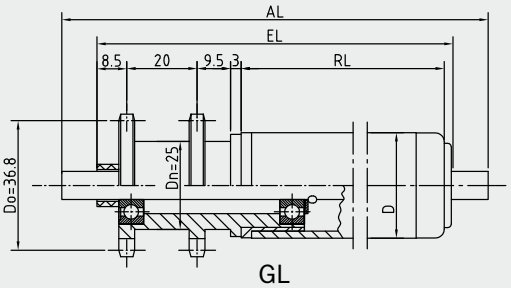
IGM



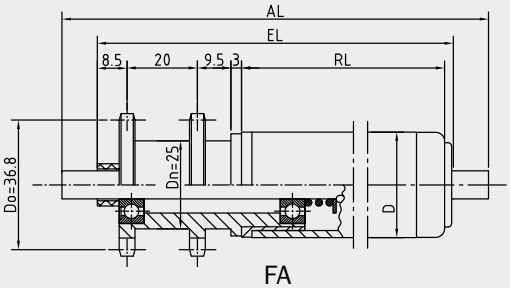
M



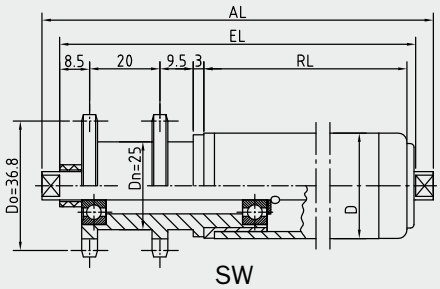
AGM



GL



FA



SW

**The bearing consists of a steel double chain wheel 3/8 x 7/16” Z = 12 with hardened tooth surface with grooved ball bearing DIN 625 and counter bearing (series 10, 13 or 14). Double bearing only with friction rollers. Friction version only with counter bearing series 13.**

| Order no. | Variant |
|---|---|
| 41.2 | Friction roller with grooved ball bearing 608 RS, only Tube ø 30 |
| 41.6 | Fixed roller with grooved ball bearing 608 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 8 | 10 |
| 30 x 2 | x | x | x | x | x | |
| 40 x 1,5 | x | x | x | | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA |
|---|---|---|---|---|---|---|---|
| 30 | 8 | GL10+13, EL=RL+ | 44 | 48 | 44 | 44 | 44 |
| 40 | 8 | GL10+13 | 44 | 48 | 44 | 44 | 44 |
| | 10 | GL10+13, EL=RL+ | 44 | 49 | 44 | 44 | 44 |
| | 8 | GL14, EL=RL+ | 46 | 50 | 46 | 46 | 46 |
| | 10 | GL14, EL=RL+ | 46 | 51 | 46 | 46 | 46 |

## Load Values Bearings

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 30 | Series 10 | 7 | 14 | 0,30 |
| 40 | Series 13 | 20 | 30 | 0,40 |
| | Series 14 | 20 | 30 | |

**Special Designs:** **see surface variants**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Driven Support Roller

**Double chain wheel made of steel 3/8 x 7/32” Z = 15**
**Tube ø 30 • 40**

**Series 42**

## Features:

- ✔ **medium weight goods to be transported**
- ✔ **max. 40 kg/roller** (s. Construction Notes)

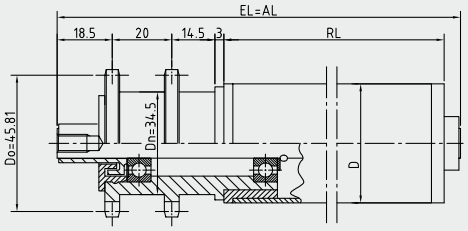
Notes / sketches to Series 42

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

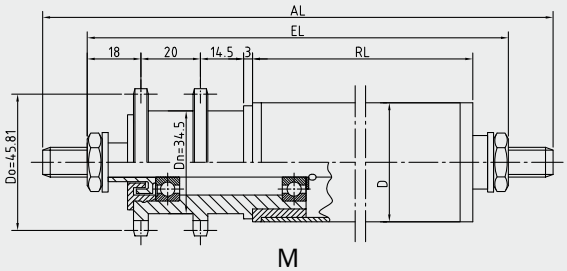
# TRAPOROL

## Series 42

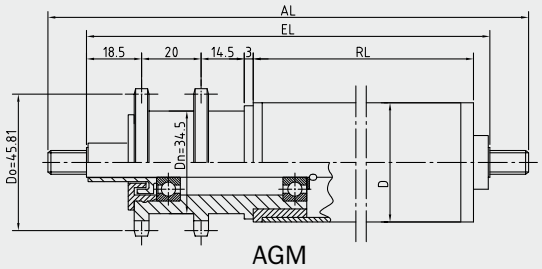
**Driven Support Roller**
**Double chain wheel made of steel 3/8 x 7/32” Z = 15**
**Tube ø 30 • 40**



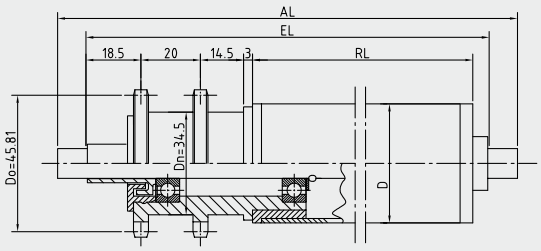
IGM



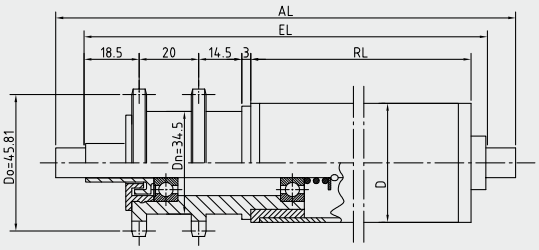
M



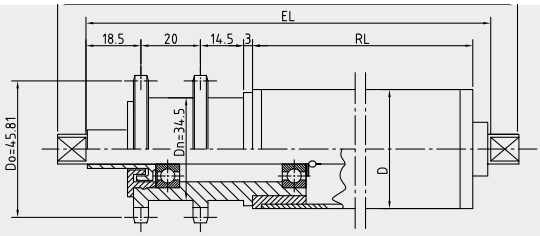
AGM



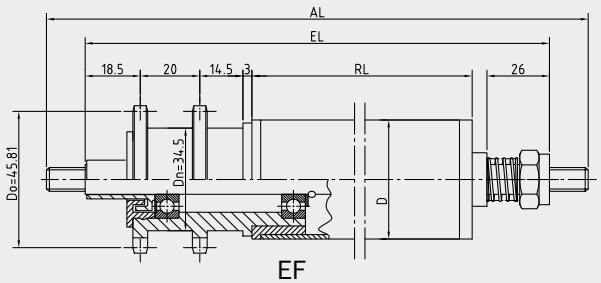
GL



FA



SW



EF

**The bearing consists of a steel double chain wheel 3/8 x 7/32” Z = 15 with grooved ball bearing DIN 625 and counter bearing (series 10 or 14). Double bearing only with friction rollers.**

| Order no. | Variant |
|---|---|
| 42.2 | Friction roller with grooved ball bearing 6000 RS, only Tube ø 40 |
| 42.6 | Fixed roller with grooved ball bearing 6000 RS, tube, 30 pressed without bush |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Construction Notes



## Construction Notes

| Dimensions | Tube | | | | Axle |
|---|---|---|---|---|---|
| | Steel | Stainless Steel | Aluminum | Plastics | 10 |
| 30 x 2 | x | x | x | x | x |
| 40 x 1,5 | x | x | x | | x |
| 40 x 2,3 | | | | x | x |

## Relation of EL to RL / mm

| Tube ø | Counter bearing | Axle ø | | IGM | M | AGM | GL | FA | SW | EF |
|---|---|---|---|---|---|---|---|---|---|---|
| 30 to 40 | Series 10 | 10 | EL=RL+ | 59 | 64 | 59 | 59 | 59 | 59 | |
| 40 | Series 14 | 10 | EL=RL+ | 61 | 66 | 61 | 61 | 61 | 61 | 85 |

## Load Values Bearings

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 30 to 40 | Series 10 | 7 | 14 | 0,30 |
| 40 | Series 14 | 30 | 40 | 0,40 |

**Special Designs:** **see surface variants**
**antistatic**
**rust proof**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Driven Support Roller

**Double chain wheel made of steel 3/8 x 7/32” Z = 20**
**Tube ø 50 • 60 • 63**

**Series 43**

## Features:

- ✔ **for medium weight goods to be transported**
- ✔ **max. 60 kg/roller** (s. Construction Notes)

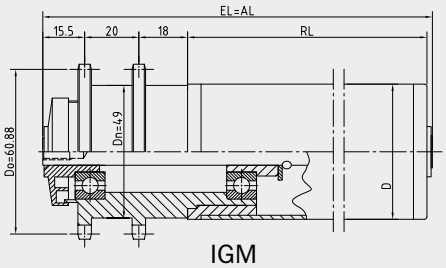
Notes / sketches to Series 43

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

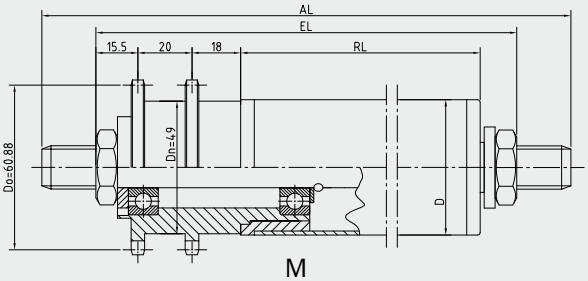
# TRAPOROL

## Series 43

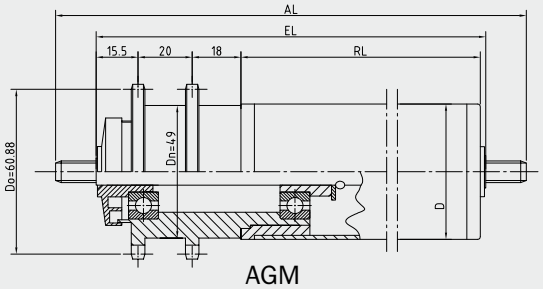
**Driven Support Roller**
**Double chain wheel made of steel 3/8 x 7/32” Z = 20**
**Tube ø 50 • 60 • 63**



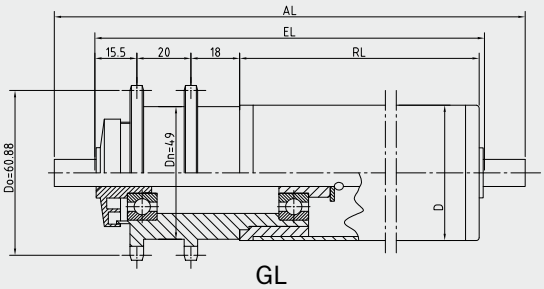
IGM



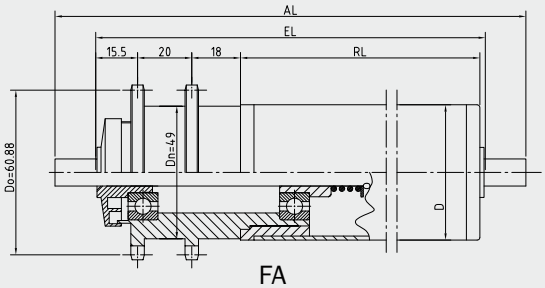
M



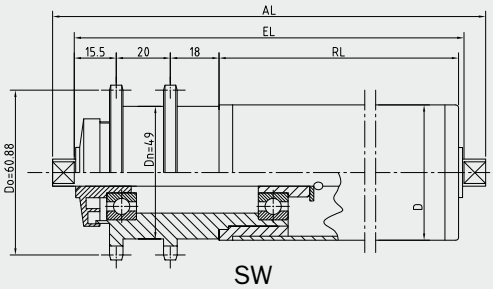
AGM



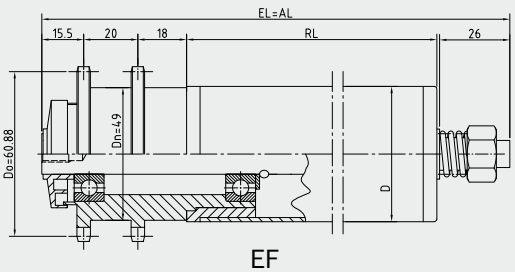
GL



FA



SW



EF

**The bearing consists of a steel double chain wheel 3/8 x 7/32” Z = 20 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25). Double bearing only with friction rollers.**

| Order no. | Variant |
|---|---|
| 43.2 | Friction roller with grooved ball bearing 6202 RS |
| 43.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 50 x 3 | x | x | | | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 60 x 3 | x | x | | | x | x | x |
| 63 x 3 | | | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW | EF |
|---|---|---|---|---|---|---|---|---|---|
| 50 to 63 | 10 | EL=RL+ | 57 | 62 | 57 | 57 | 57 | 57 | |
| | 12 | EL=RL+ | 57 | 63 | 57 | 57 | 57 | 57 | |
| | 15 | EL=RL+ | 57 | 64 | 57 | 57 | 57 | 57 | 83 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 63 | 50 | 60 | 0,40 |

**Special Designs:** **see surface variants**
**antistatic**
**rust proof**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Driven Support Roller

**Double chain wheel made of plastics 1/2 x 5/16" Z = 14**
**Tube ø 50 • 60 • 63,5 • 80**

**Series 44**

## Features:

- ✔ **low operating noise**
- ✔ **max. 40 kg/roller** (s. Construction Notes)

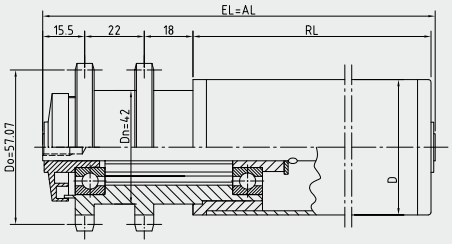
Notes / sketches to Series 44

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

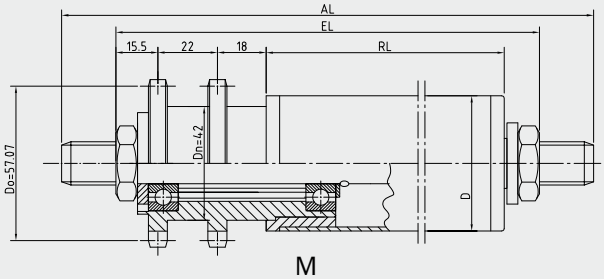
# TRAPOROL

## Series 44

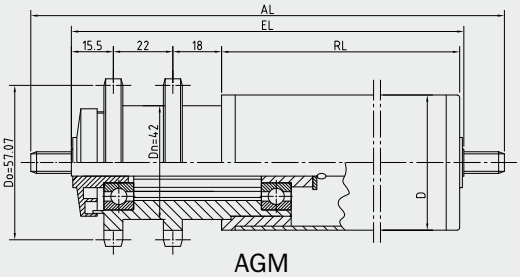
**Driven Support Roller**
**Double chain wheel made of plastics 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63,5 • 80**



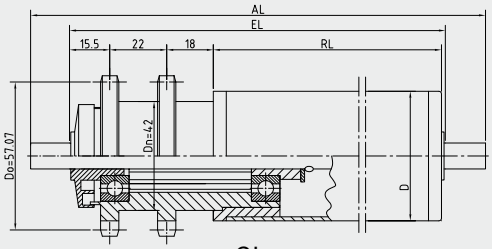
IGM



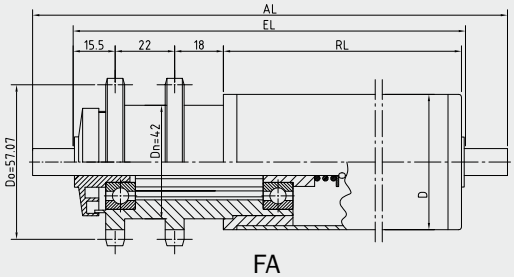
M



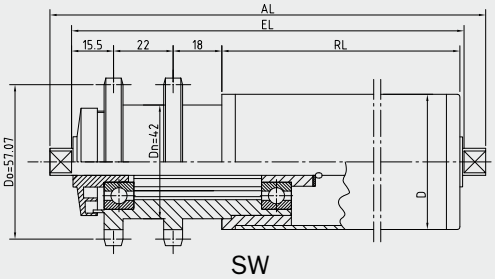
AGM



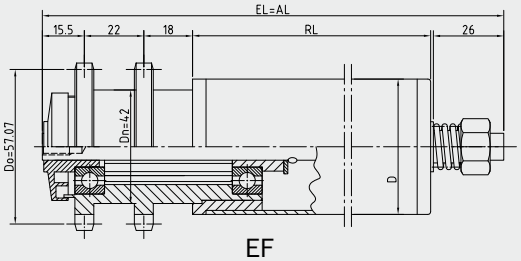
GL



FA



SW



EF

**The bearing consists of a plastic double chain wheel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25).**

| Order no. | Variant |
|---|---|
| 44.2 | Friction roller with grooved ball bearing 6202 RS |
| 44.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |
| 60 x 2 | x | x | x | | x | x | x |
| 60 x 3 | x | x | | | x | x | x |
| 63 x 3 | | | | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x |
| 80 x 2 | x | x | x | | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW | EF |
|---|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 10 | EL=RL+ | 59 | 64 | 59 | 59 | 59 | 59 | |
| | 12 | EL=RL+ | 59 | 65 | 59 | 59 | 59 | 59 | |
| | 15 | EL=RL+ | 59 | 66 | 59 | 59 | 59 | 59 | 85 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 30 | 40 | 0,50 |

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Double chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63,5 • 80 • 88,9**

**Series 45**

## Features:

- ✔ **for medium weight to heavy goods to be transported**
- ✔ **max. 100 kg/roller** (s. Construction Notes)

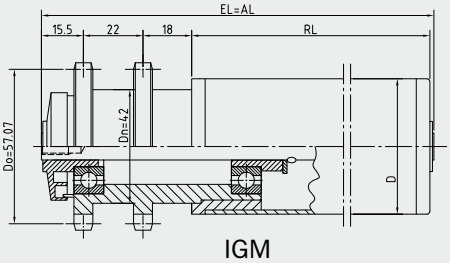
Notes / sketches to Series 45

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

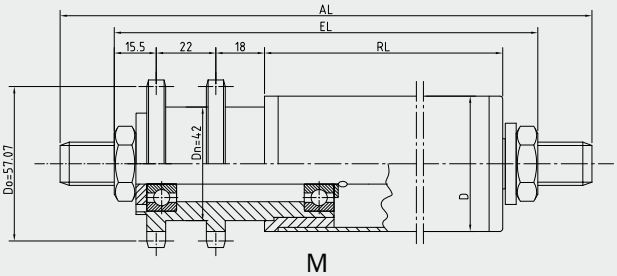
# TRAPOROL

## Series 45

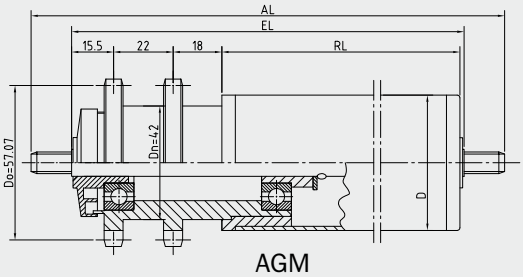
**Driven Support Roller**
**Double chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50 • 60 • 63,5 • 80 • 88,9**



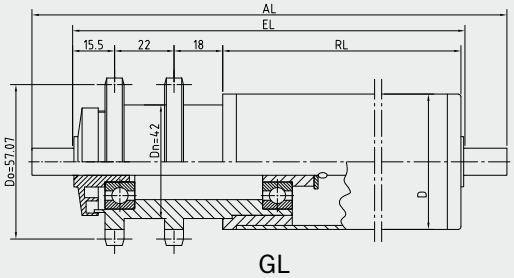
IGM



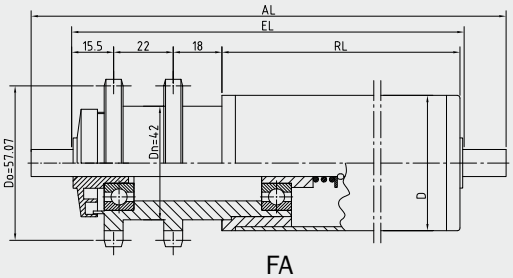
M



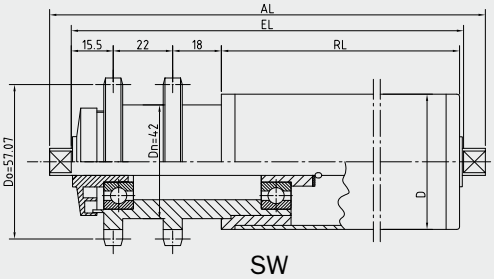
AGM



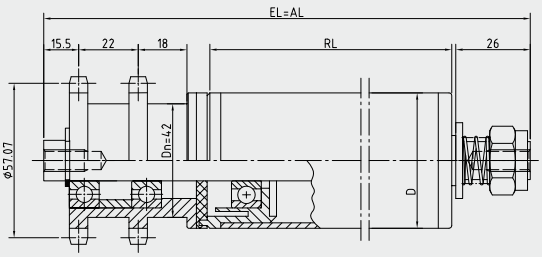
GL



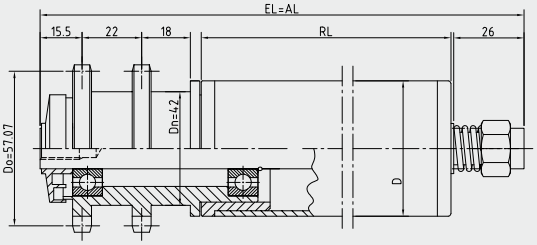
FA



SW



LF



EF

**The bearing consists of a steel double chain wheel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25). Double bearing only with friction rollers.**

| Order no. | Variant |
|---|---|
| 45.2 | Friction roller with grooved ball bearing 6202 RS |
| 45.6 | Fixed roller with grooved ball bearing 6202 RS |
| 45.9 | Fixed roller, welded with grooved ball bearing 6202 RS, 6003 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | | |
|---|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 | 17 |
| 50 x 1,5 | x | x | x | | x | x | x | |
| 50 x 2,8 | | | | x | x | x | x | |
| 60 x 2 | x | x | x | | x | x | x | x |
| 60 x 3 | x | x | | | x | x | x | x |
| 63 x 3 | | | | x | x | x | x | x |
| 63,5 x 2,9 | x | | | | x | x | x | x |
| 80 x 2 | x | x | x | | | x | x | x |
| 88,9 x 2,9 | x | x | | | | | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW | LF | EF |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 10 | EL=RL+ | 59 | 64 | 59 | 59 | 59 | 59 | | |
| | 12 | EL=RL+ | 59 | 65 | 59 | 59 | 59 | 59 | | |
| | 15 | EL=RL+ | 59 | 66 | 59 | 59 | 59 | 59 | 90 | 90 |
| | 17 | EL=RL+ | 59 | 67 | 59 | 59 | 59 | 59 | 90 | 90 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 88,9 | 80 | 100 | 0,80 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **see surface variants**
**square end version**
**exchange function (fixed and friction)**
**high and deep freeze temperature range**
**rust proof**
**antistatic**

TRAPOROL

**Driven Support Roller**
**Double chain wheel made of steel 5/8 x 3/8” Z = 15, welded**
**Tube ø 63,5 • 80 • 88,9 • 108**

**Series 47**

## Features:

- ✔ **antistatic**
- ✔ **for very heavy goods to be transported**
- ✔ **max. 400 kg/roller** (s. Construction Notes)

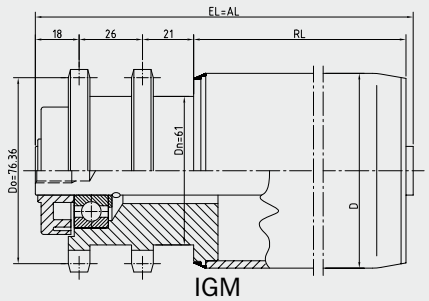
Notes / sketches to Series 47

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

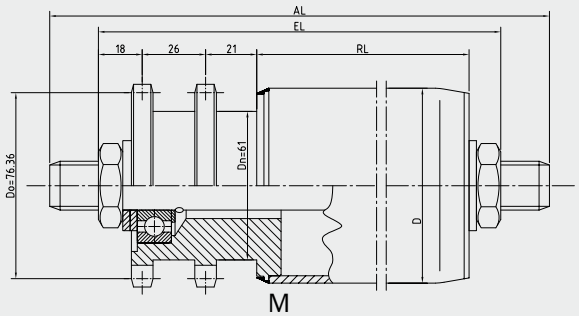
# TRAPOROL

## Series 47

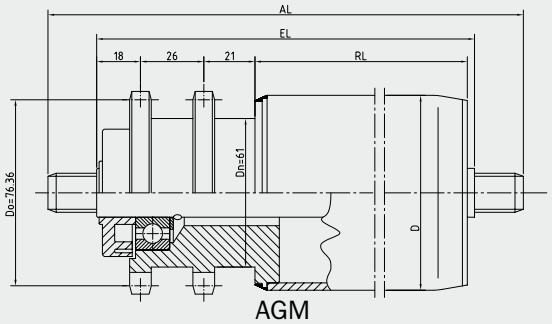
**Driven Support Roller**
**Double chain wheel made of steel 5/8 x 3/8” Z = 15, welded**
**Tube ø 63,5 • 80 • 88,9 • 108**



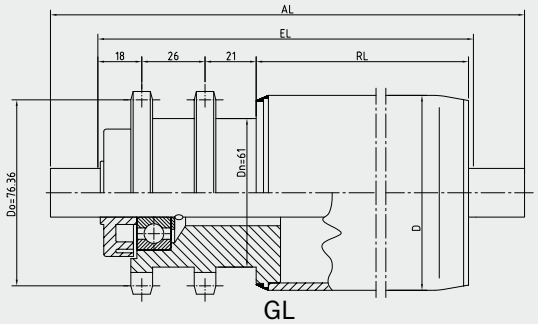
IGM



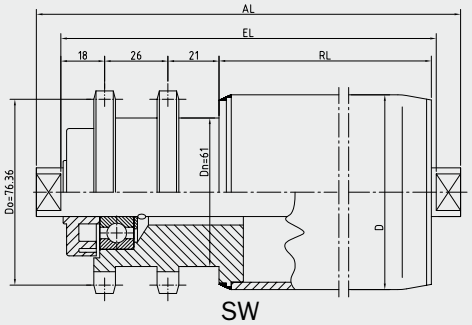
M



AGM



GL



SW

**The bearing consists of a steel double chain wheel 5/8 x 3/8” Z = 15 with grooved ball bearing DIN 625 and counter bearing (series 19, 26, 27).**

| Order no. | Variant |
|---|---|
| 47.9 | Fixed roller, welded with grooved ball bearing 6204 RS, 6005 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | Axle | |
|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | 20 | 25 |
| 63,5 x 2,9 | x | | x | |
| 80 x 2 | x | x | x | |
| 80 x 3 | x | x | x | |
| 88,9 x 2,9 | x | x | x | x |
| 108 x 3,25 | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | SW |
|---|---|---|---|---|---|---|---|
| 63,5 | 20 | EL=RL+ | 70 | 80 | 70 | 70 | 70 |
| 80 to 108 | 20 | EL=RL+ | 70 | 80 | 70 | 70 | 70 |
| | 25 | EL=RL+ | 70 | 80 | 70 | 70 | 70 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 63,5 | 270 | 300 | 0,80 |
| 80 to 108 | 360 | 400 | 0,80 |

**Special Designs:** **see surface variants**
**high and deep freeze temperature range**
**rust proof**
**load independent friction**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Double chain wheel made of steel 3/4 x 7/16” Z = 13, welded**
**Tube ø 80 • 88,9 • 108**

**Series 48**

## Features:

- ✔ **antistatic**
- ✔ **for very heavy goods to be transported**
- ✔ **max. 500 kg/roller** (s. Construction Notes)

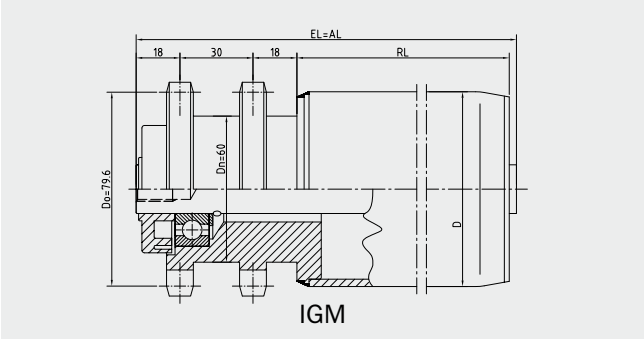
Notes / sketches to Series 48

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

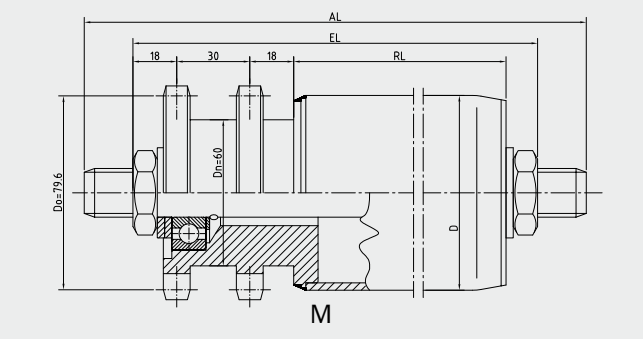
# TRAPOROL

## Series 48

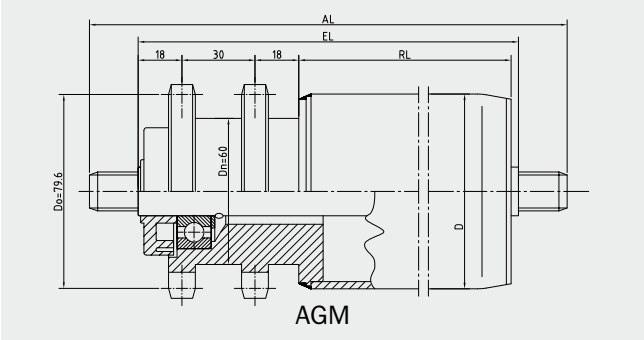
**Driven Support Roller**
**Double chain wheel made of steel 3/4 x 7/16” Z = 13, welded**
**Tube ø 80 • 88,9 • 108**



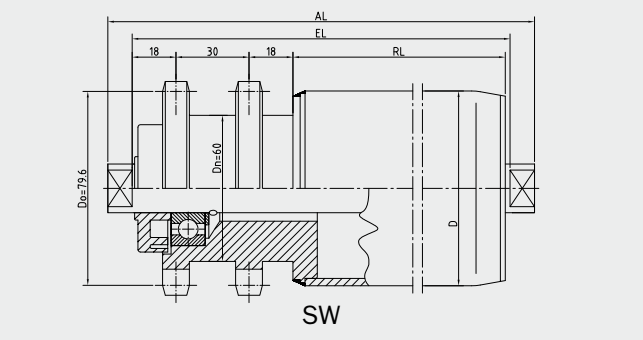
IGM



M



AGM



SW

**The bearing consists of a steel double chain wheel 3/4 x 7/16” Z = 13 with grooved ball bearing DIN 625, optional with covering or sealing disks and counter bearing (series 19, 26 and 27).**

| Order no. | Variant |
|---|---|
| 48.9 | Fixed roller, welded with grooved ball bearing 6204 RS, 6005 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | Axle | |
|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | 20 | 25 |
| 80 x 2 | x | x | x | x |
| 80 x 3 | x | x | x | x |
| 88,9 x 2,9 | x | x | x | x |
| 108 x 3,25 | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | SW |
|---|---|---|---|---|---|---|
| 80 to 108 | 20 | EL=RL+ | 71 | 81 | 71 | 71 |
| | 25 | EL=RL+ | 71 | 81 | 71 | 71 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 80 to 108 | 450 | 500 | 0,80 |

**Special Designs:** **see surface variants**
**high and deep freeze temperature range**
**rust proof**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

**Driven Support Roller**
**Toothed belt wheel made of plastics 8M Z = 20**
**for tooth belts b = 12**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**

**Series 54**

## Features:

- ✔ **low operating noise**
- ✔ **for light to medium weight goods to be transported**
- ✔ **max. 40 kg/roller** (s. Construction Notes)

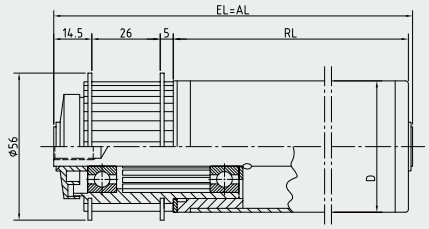
Notes / sketches to Series 54

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

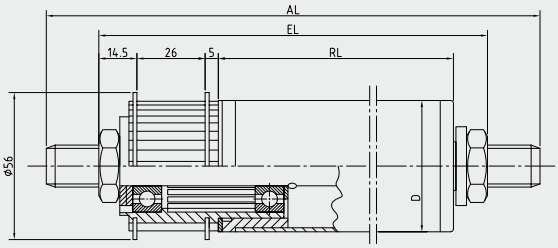
# TRAPOROL

## Series 54

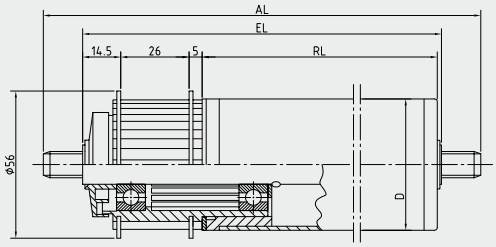
**Driven Support Roller**
**Toothed belt wheel made of plastics 8M Z = 20**
**for tooth belts b = 12**
**Tube ø 50 • 60 • 63 • 63,5 • 80 • 88,9**



IGM



M



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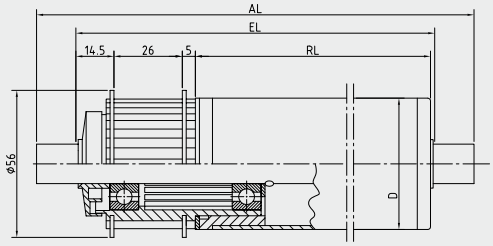
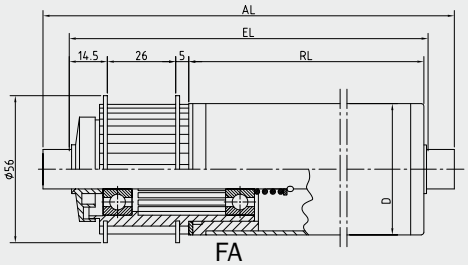
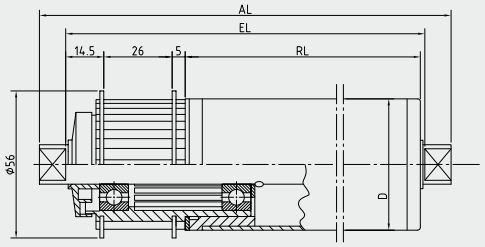


GL



FA



SW

**The bearing consists of a plastic toothed belt wheel Poly-Chain 8M Z = 20 for tooth belts b = 12 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25). Fixed version by continuous conveying, in case of cycle operation we refer series 55.9.**

| Order no. | Variant |
|---|---|
| 54.2 | Friction roller with grooved ball bearing 6202 RS |
| 54.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x |
| 50 x 2,8 | | | | x | x | x |
| 50 x 3 | x | | | | x | x |
| 60 x 2 | x | x | x | | x | x |
| 60 x 3 | x | | | | x | x |
| 63 x 3 | | | | x | x | x |
| 63,5 x 2,9 | x | | | | x | x |
| 80 x 2 | x | x | x | | x | x |
| 80 x 3 | x | | | | x | x |
| 88,9 x 2,9 | x | x | | | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 12 | EL=RL+ | 49 | 55 | 49 | 49 | 49 | 49 |
| | 15 | EL=RL+ | 49 | 56 | 49 | 49 | 49 | 49 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 88,9 | 35 | 40 | 2,00 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**
**adjustable friction**

TRAPOROL

**Driven Support Roller**
**Toothed belt wheel made of steel 8M Z = 20 for tooth belts b = 12**
**Tube ø 50 • 60 • 63,5 • 80 • 88,9**

**Series 55**

## Features:

- ✔ **low operating noise**
- ✔ **max. 100 kg/roller** (s. Construction Notes)

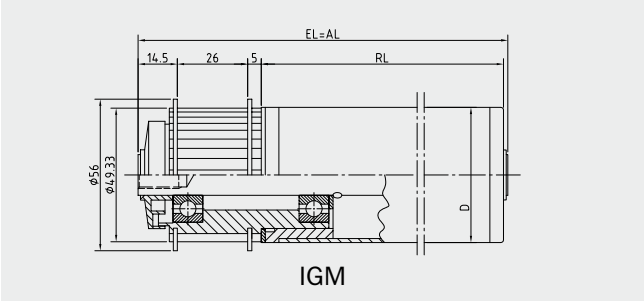
Notes / sketches to Series 55

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

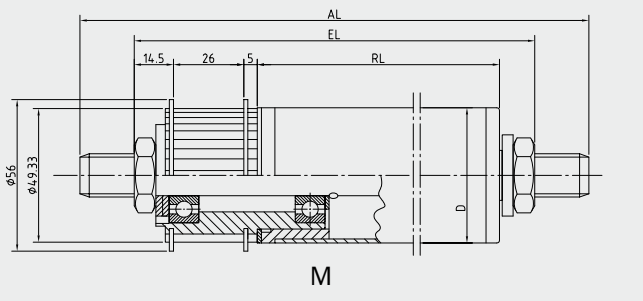
# TRAPOROL

## Series 55

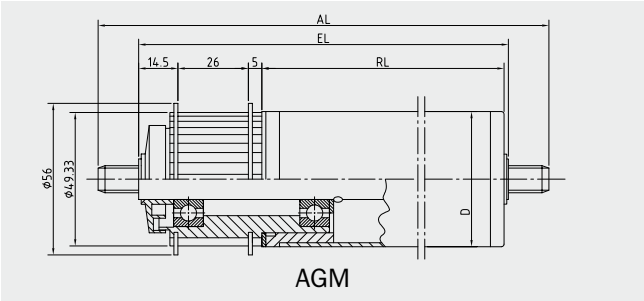
**Driven Support Roller**
**Toothed belt wheel made of steel 8M Z = 20 for tooth belts b = 12**
**Tube ø 50 • 60 • 63,5 • 80 • 88,9**



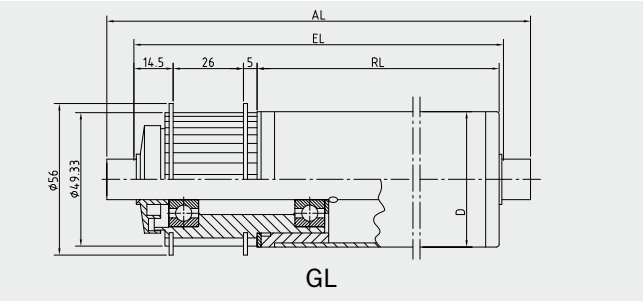
IGM



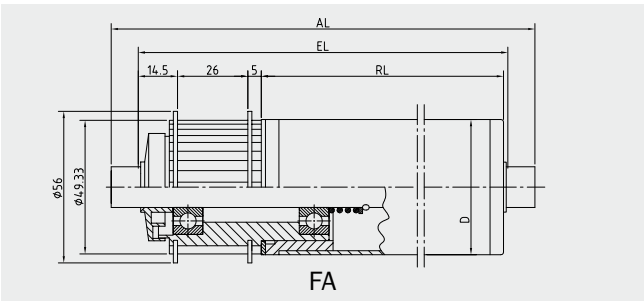
M



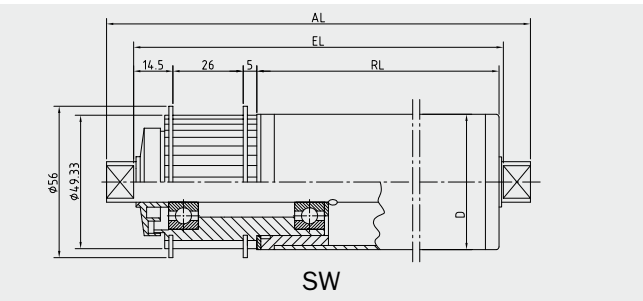
AGM



GL



FA



SW

**The bearing consists of a steel toothed belt wheel Poly-Chain 8M Z = 20 for tooth belts b = 12 with grooved ball bearing DIN 625 and counter bearing (series 16 or 25). Double bearing only with friction roller. Fixed roller version recommendation for cycle operation.**

| Order no. | Variant |
|---|---|
| 55.2 | Friction roller with grooved ball bearing 6202 RS |
| 55.6 | Fixed roller with grooved ball bearing 6202 RS |
| 55.9 | Fixed roller, welded with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x |
| 50 x 2,8 | | | | x | x | x |
| 60 x 2 | x | x | x | | x | x |
| 60 x 3 | x | | | | x | x |
| 63 x 3 | | | | x | x | x |
| 63,5 x 2,9 | x | | | | x | x |
| 80 x 2 | x | x | x | | x | x |
| 80 x 3 | x | | | | x | x |
| 88,9 x 2,9 | x | x | | | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 88,9 | 12 | EL=RL+ | 49 | 56 | 49 | 49 | 49 | 49 |
| | 15 | EL=RL+ | 49 | 55 | 49 | 49 | 49 | 49 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 88,9 | 80 | 100 | 2,00 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**
**adjustable friction**
**More tooth upon request**
**HTD and more upon request**

TRAPOROL

**Driven Support Roller**
**Poly-V-head made of plastics (DIN 7867)**
**Tube ø 50 • 60 • 63 • 63,5 • 80**

**Series 56K**

## Features:

- ✔ **low operating noise**
- ✔ **max. 50 kg/roller** (s. Construction Notes)

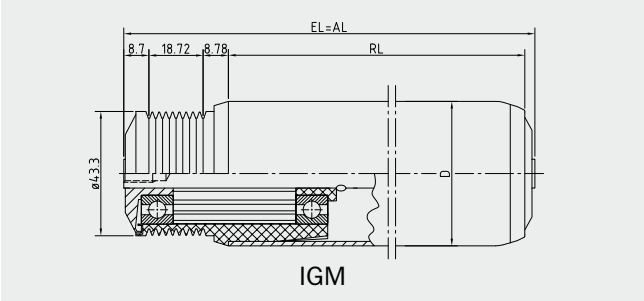
Notes / sketches to Series 56K

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

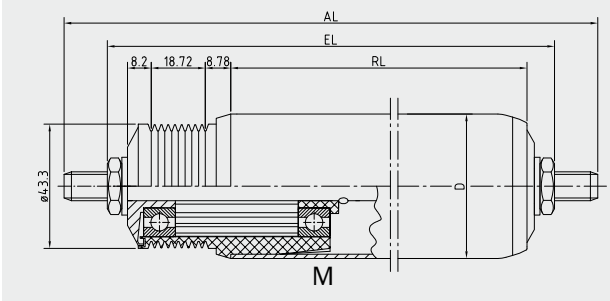
# TRAPOROL

## Series 56K

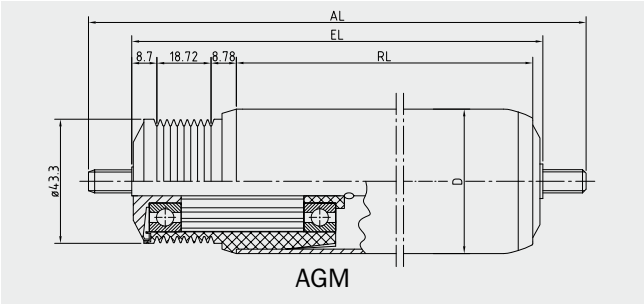
**Driven Support Roller**
**Poly-V-head made of plastics (DIN 7867)**
**Tube ø 50 • 60 • 63 • 63,5 • 80**



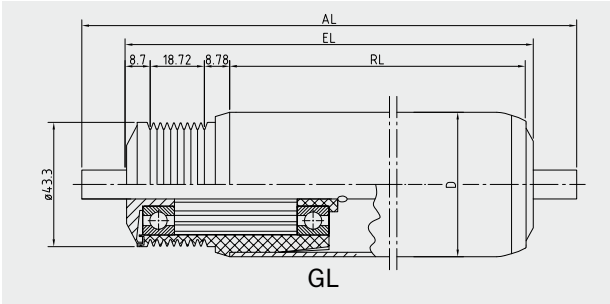
IGM



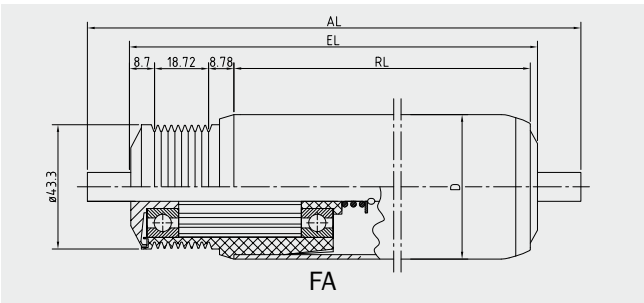
M



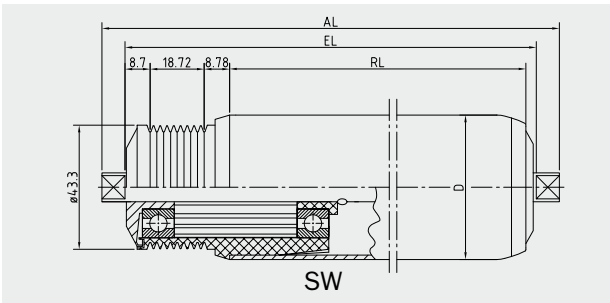
AGM



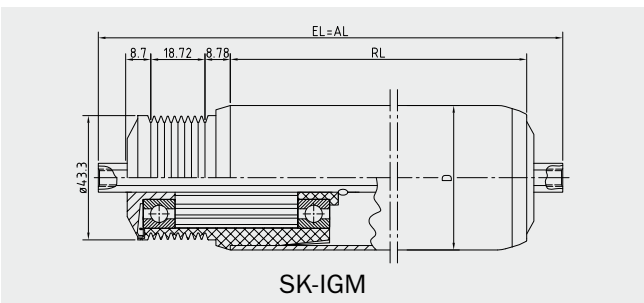
GL



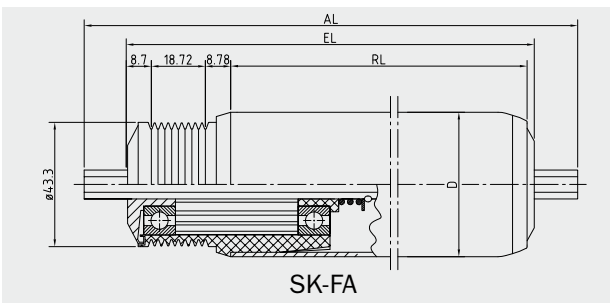
FA



SW



SK-IGM



SK-FA

**The bearing consists of a Poly-V-head made of plastics (DIN 7867) with grooved ball bearing DIN 625 and counter bearing (series 16, 16K or 25). Completement for motor rollers.**

| Bestellnummer | Variante |
|---|---|
| 56K.2 | Friction roller with grooved ball bearing 6202 RS |
| 56K.6 | Fixed roller with grooved ball bearing 6202 RS |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 11 | 12 |
| 50 x 1,5 | x | x | x | | x | x |
| 50 x 2,8 | | | | x | x | x |
| 60 x 2 | x | x | x | | x | x |
| 60 x 3 | x | x | | | x | x |
| 63,5 x 2,9 | x | | | | x | x |
| 80 x 2 | x | x | x | | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 to 80 | 11 | EL=RL+ | 40 | 52 | 40 | 40 | 40 | 40 |
| | 12 | EL=RL+ | 40 | 52 | 40 | 40 | 40 | 40 |

## Load Values Bearings

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 to 80 | 40 | 50 | 1,2 |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **see surface variants**
**antistatic**
**rust proof**
**hardened steel tube**
**conical elements**

TRAPOROL

*DRIVING YOUR PERFORMANCE.*

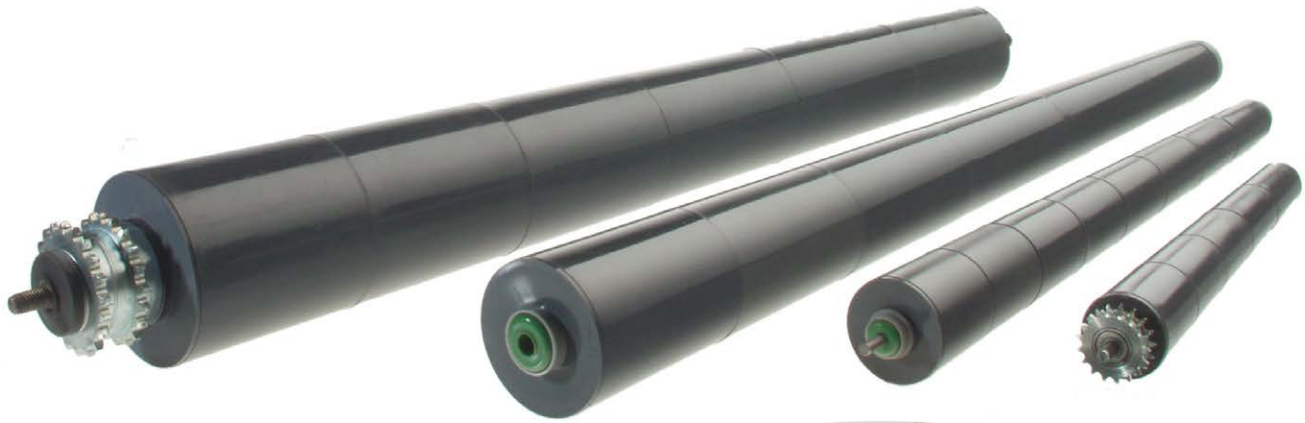
# Conic Support Roller

**Gravity**

| | | |
|---|---|---|
| Gravity | Tube ø 20 | Series 60 |
| Gravity | Tube ø 30 | Series 61 |
| Gravity | Tube ø 50 | Series 62 |

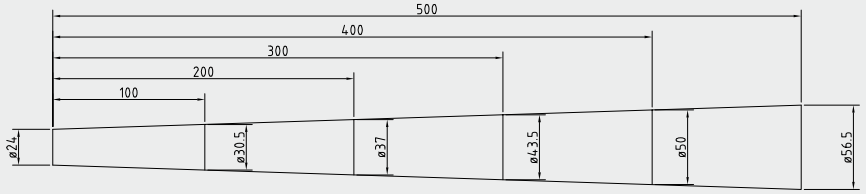
**Driven**

| | | |
|---|---|---|
| Double chain wheel made of steel | Tube ø 20 | Series 64 |
| Double chain wheel made of steel | Tube ø 30 | Series 65 |
| Double chain wheel made of steel | Tube ø 50 | Series 67 |
| Double chain wheel made of plastics | Tube ø 50 | Series 68 |
| Double chain wheel made of steel | Tube ø 50 | Series 69 |

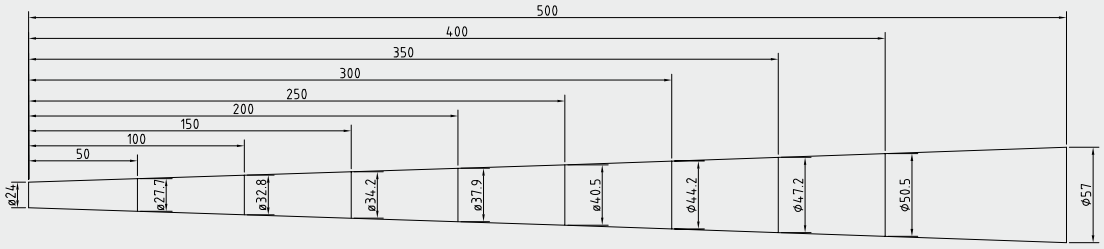


# Conic Support Roller

# Conicity of Support Rollers

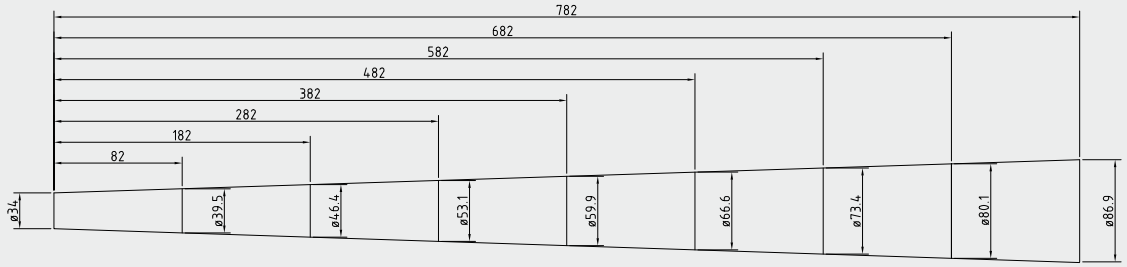



Ary- & V-pots



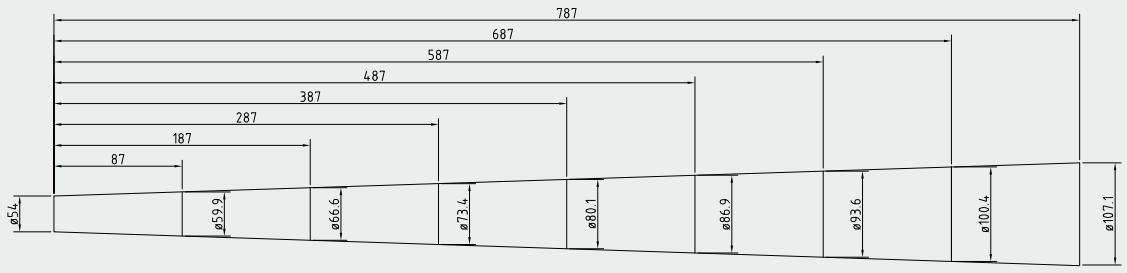

A- & V-pots

## Series 60 | 64

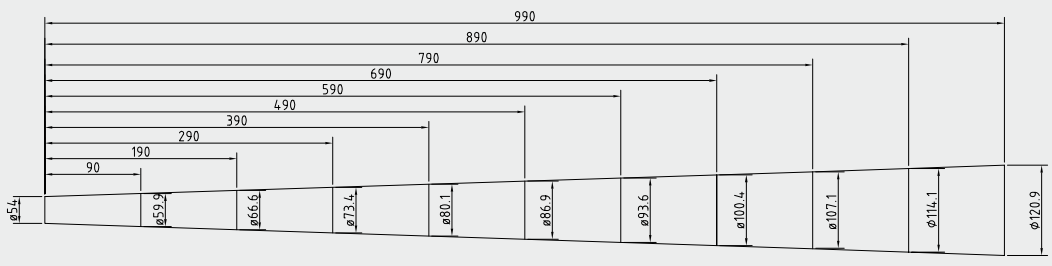



Ary- & V-pots

## Series 61 | 65




A-pots




PW-pots

## Series 62 | 67 | 68 | 69

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Conic Gravity Support Roller
Tube ø 20

**Series 60**

## Features:

- ✔ low curb weight
- ✔ low operating noise
- ✔ easy travel
- ✔ For small goods to be transported with a minimum length/minimum diameter of 95 mm and a unit weight up to approx. 15 kg

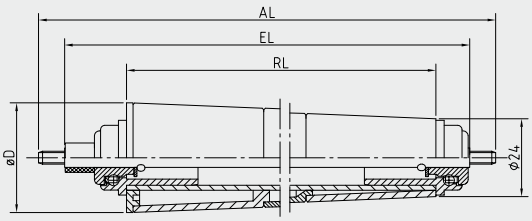
Notes / sketches to Series 60

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

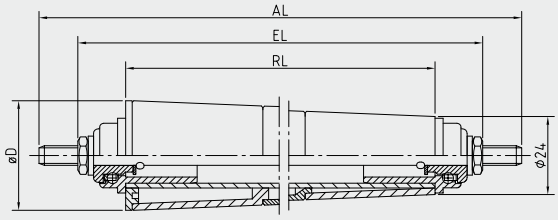
# TRAPOROL

## Series 60

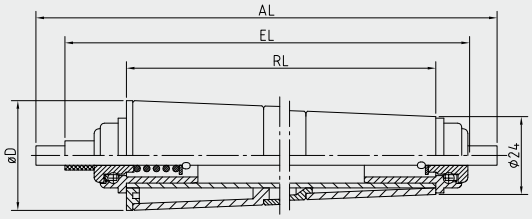
## Conic Gravity Support Roller
**Tube ø 20**



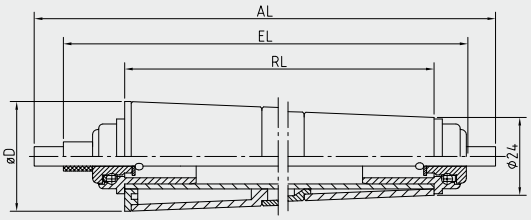

AGM




M




FA




GL

**Support roller with conic jars made of plastics (Polyamide 6, optional Vestamid).**
**Bearing: Series 10.**

| Order no. | Variant |
|---|---|
| 60.0ARY | Conic jars made of Polyamide 6 |
| 60.0V | Conic jars made of Vestamid |
| 60.0A | Conic pots made of polyamide 6 (between length) |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 6 | 8 |
| 20 x 1,5 | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | M | AGM | GL | FA |
|---|---|---|---|---|---|---|
| 20 | 6 | EL=RL+ | 31 | | 30 | 30 |
| | 8 | EL=RL+ | 34 | 30 | 30 | 30 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 20 | 5 | 10 | 0,40 |

## Standard lengths, Ri = 359, Ti = 25,6 – bend 90° with 22 rollers

| Nominal width | RL | EL | Dø | Rm | Ra | Ta |
|---|---|---|---|---|---|---|
| 100 | 102 | 132 | 30,5 | 421,5 | 494 | 35,3 |
| 150 | 152 | 182 | 33,7 | 446,5 | 544 | 38,8 |
| 200 | 202 | 232 | 37,0 | 471,5 | 594 | 42,3 |
| 250 | 252 | 282 | 40,2 | 496,5 | 644 | 46,0 |
| 300 | 302 | 332 | 43,5 | 521,5 | 694 | 49,5 |
| 350 | 352 | 382 | 46,7 | 546,5 | 744 | 53,0 |
| 400 | 402 | 432 | 50,0 | 571,5 | 794 | 56,6 |
| 500 | 502 | 532 | 56,5 | 621,5 | 894 | 63,8 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**
**conic tubes of Steel**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Conic Gravity Support Roller
Tube ø 30

**Series 61**

## Features:

- ✔ **easy travel**
- ✔ **low curb weight**
- ✔ **for goods to be transported with a minimum length/minimum diameter of 140 mm and a unit weight of approx. 20 kg**

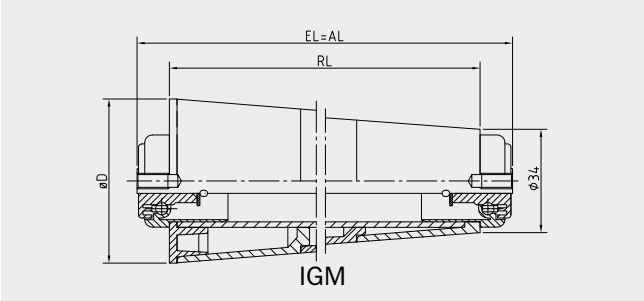
Notes / sketches to Series 61

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

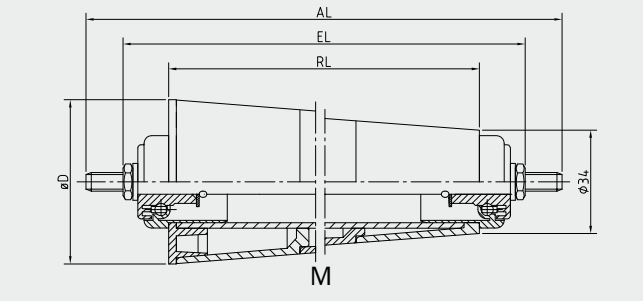
# TRAPOROL

## Series 61

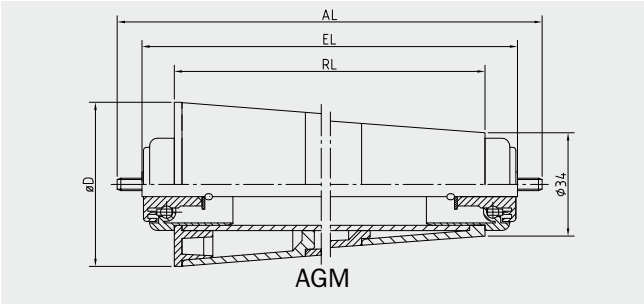
## Conic Gravity Support Roller
**Tube ø 30**



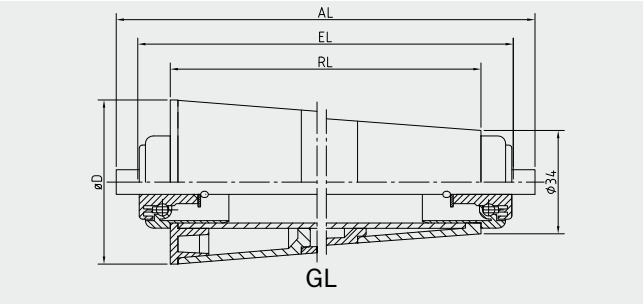
IGM



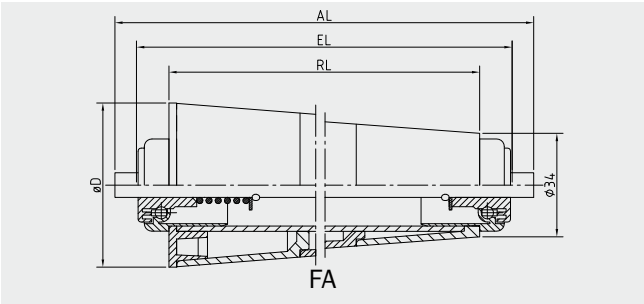
M



AGM



GL



FA

**Support roller with conic jars made of plastics (Polyamide 6, optional Vestamid).**
**Bearing: Series 10.**

| Order no. | Variant |
|---|---|
| 61.0ARY | Conic jars made of Polyamide 6 |
| 61.0V | Conic jars made of Vestamid |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Alumi-num | Plastics | 6 | 8 | 10 |
| 30 x 2 | x | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA |
|---|---|---|---|---|---|---|---|
| 30 | 6 | EL=RL+ | | 32 | | 22 | 22 |
| | 8 | EL=RL+ | 22 | 30 | 22 | 22 | 22 |
| | 10 | EL=RL+ | 22 | 32 | 22 | 22 | 22 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 30 | 7 | 14 | 0,40 |

## Standard lengths, Ri = 502, Ti = 35,4 – bend 90° with 22 rollers (Example IGM)

| Nominal width | RL | EL | LW | Dø | Rm | Ra | Ta |
|---|---|---|---|---|---|---|---|
| 300 | 285 | 307 | 310 | 53,1 | 657 | 812 | 57,3 |
| 400 | 385 | 407 | 410 | 59,9 | 707 | 912 | 64,3 |
| 500 | 485 | 507 | 510 | 66,6 | 757 | 1012 | 71,3 |
| 600 | 585 | 607 | 610 | 73,5 | 807 | 1112 | 78,3 |
| 700 | 685 | 707 | 710 | 80,1 | 857 | 1212 | 85,3 |
| 800 | 785 | 807 | 810 | 86,9 | 907 | 1312 | 92,3 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**antistatic**
**conic tubes of Steel**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Conic Gravity Support Roller
Tube ø 50

**Series 62**

## Features:

✔ **for Goods to be transported with a minimum length/minimum diameter of 220 mm and a unit weight of approx. 150 kg**

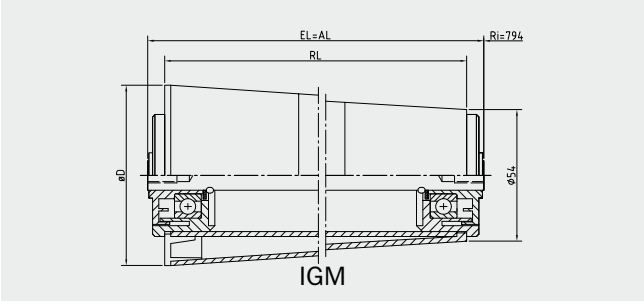
Notes / sketches to Series 62

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

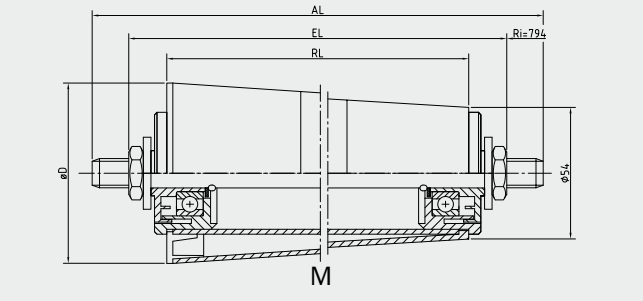
# TRAPOROL

## Series 62

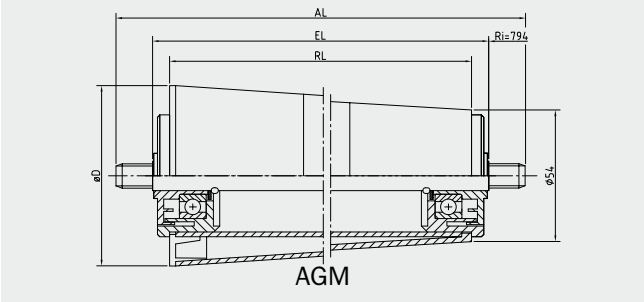
## Conic Gravity Support Roller
**Tube ø 50**



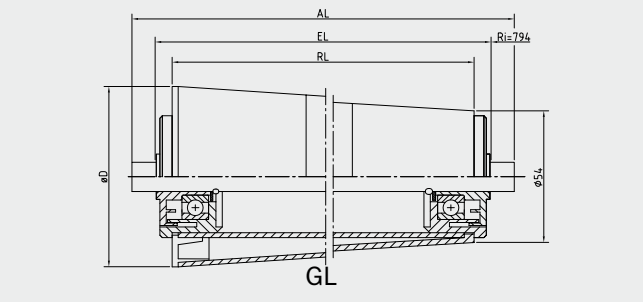
IGM



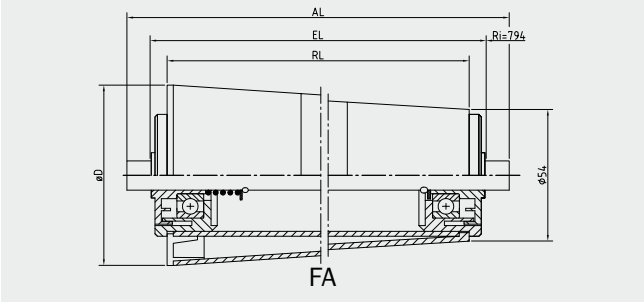
M



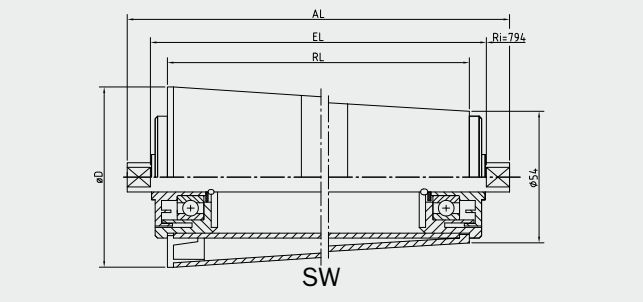
AGM



GL



FA



SW

**Suport roller with conic jars made of plastics (Polyamide 6, optional Polypropylene).**
**Bearing: Series 16.**

| Order no. | Variant |
|---|---|
| 62.0A | Conic jars made of Polyamide 6 |
| 62.0PW | Conic jars made of Polypropylene (Special length) |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | | |
|---|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 8 | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x | x |
| 50 x 2,8 | | | | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 | 8 | EL=RL+ | 17 | 24 | | 17 | 17 | 17 |
| | 10 | EL=RL+ | 17 | 26 | 17 | 17 | 17 | 17 |
| | 12 | EL=RL+ | 17 | 28 | 17 | 17 | 17 | 17 |
| | 15 | EL=RL+ | 17 | 30 | 17 | 17 | 17 | 17 |

## Load values bearing

| Tube ø | Counter bearing | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|---|
| | | static | dynamic | |
| 50 | 16 | 90 | 100 | 1,20 |

## Standard lengths, Ri = 797 – bend 90° with 15 rollers: Ti 83,5 – bend 90° with 21 rollers: Ti 59,1 (Example IGM)

| Nominal width | RL | EL | LW | Dø | Rm | Ra | Ta |
|---|---|---|---|---|---|---|---|
| 300 | 290 | 307 | 310 | 76,4 | 1107 | 115,4 | 82,5 |
| 400 | 390 | 407 | 410 | 80,1 | 1207 | 126,2 | 98,5 |
| 500 | 490 | 507 | 510 | 86,9 | 1307 | 137,0 | 96,9 |
| 600 | 590 | 607 | 610 | 93,6 | 1407 | 147,2 | 104,3 |
| 700 | 690 | 707 | 710 | 100,4 | 1507 | 157,7 | 111,7 |
| 800 | 790 | 807 | 810 | 107,4 | 1607 | 168,2 | 119,1 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**
**special lengths**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Driven Conic Support Rollers
**Double chain wheel made of steel 6 x 3 mm Z = 17**
**Tube Ø 20**

**Series 64**

## Features:

- ✔ **easy travel**
- ✔ **for goods to be transported with a minimum length/minimum diameter of 105 mm and a unit weight of approx. 15 kg**

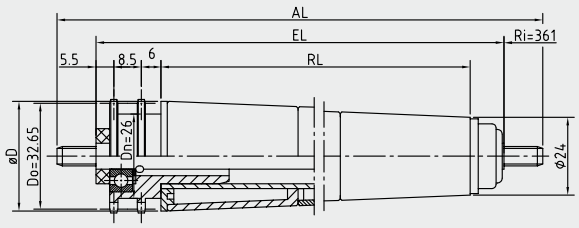
Notes / sketches to Series 64

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

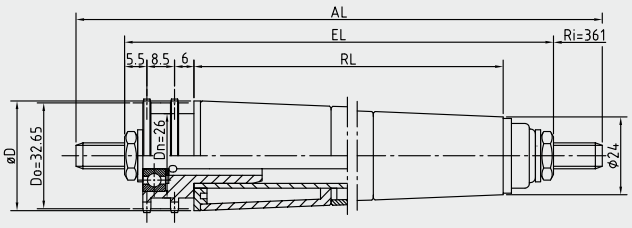
# TRAPOROL

## Series 64

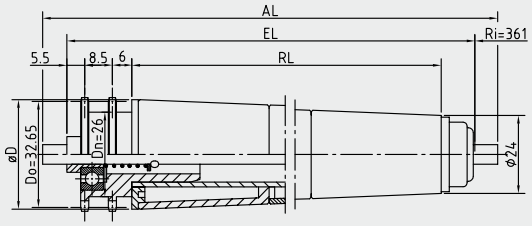
## Driven Conic Support Rollers
**Double chain wheel made of steel 6 x 3 mm Z = 17**
**Tube Ø 20**



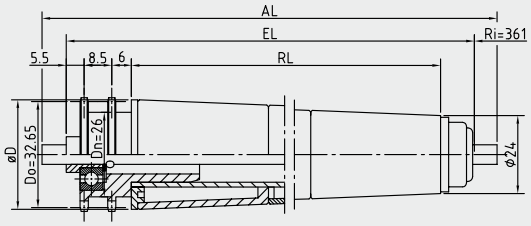

AGM




M




FA




GL

**Support roller with conic jars made of plastics (Polyamide 6, optional Vestamid). The bearing consists of a galvanized steel double chain wheel 6 x 3 mm with hardended tooth surface Z = 17 with grooved ball bearing DIN 625 and counter bearing (Series 10).**

| Order no. | Variant |
|---|---|
| 64.6ARY | Fixed roller with grooved ball bearing 608 RS, conic jars made of Polyamide 6 |
| 64.6V | Fixed roller with grooved ball bearing 608 RS, conic jars made of Vestamid |
| 64.6A | Fixed roller with groobed ball bearing 608RS, tons made of Polyamide 6 (between length) |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | |
|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 6 | 8 |
| 20 x 1,5 | x | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | M | AGM | GL | FA |
|---|---|---|---|---|---|---|
| 20 | 6 | EL=RL+ | 40 | | 30 | 30 |
| | 8 | EL=RL+ | 46 | 30 | 30 | 30 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 20 | 15 | 20 | 0,40 |

## Standard lengths, Ri = 359, Ti = 25,6 – bend 90° with 22 rollers

| Nominal width | RL | EL | Dø | Rm | Ra | Ta |
|---|---|---|---|---|---|---|
| 200 | 202 | 232 | 37,0 | 471,5 | 594 | 42,3 |
| 250 | 252 | 282 | 40,2 | 496,5 | 644 | 46,0 |
| 300 | 302 | 332 | 43,5 | 521,5 | 694 | 48,8 |
| 350 | 352 | 382 | 46,7 | 546,5 | 744 | 51,8 |
| 400 | 402 | 432 | 50,0 | 571,5 | 794 | 57,8 |
| 500 | 502 | 532 | 56,5 | 621,5 | 894 | 63,8 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Driven Conic Support Rollers

**Double chain wheel made of steel 3/8 x 7/32” Z = 15**
**Tube ø 30**

**Series 65**

## Features:

- ✔ **for Goods to be transported with a minimum length/minimum diameter of 140 mm and a unit weight of approx. 20 kg**

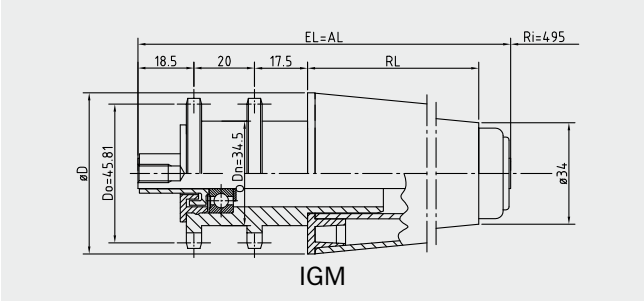
Notes / sketches to Series 65

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

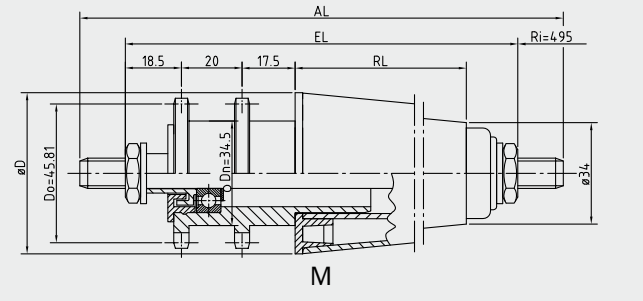
# TRAPOROL

## Series 65

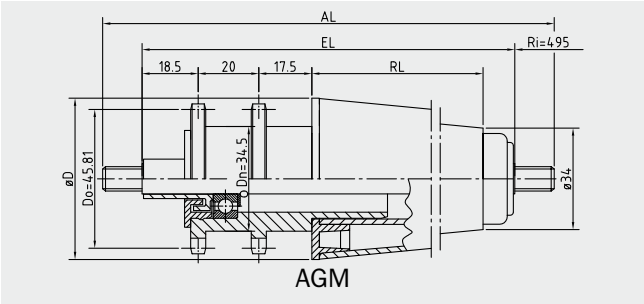
## Driven Conic Support Rollers
**Double chain wheel made of steel 3/8 x 7/32” Z = 15**
**Tube ø 30**



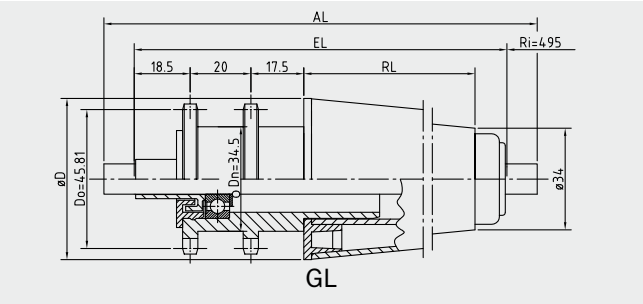
IGM



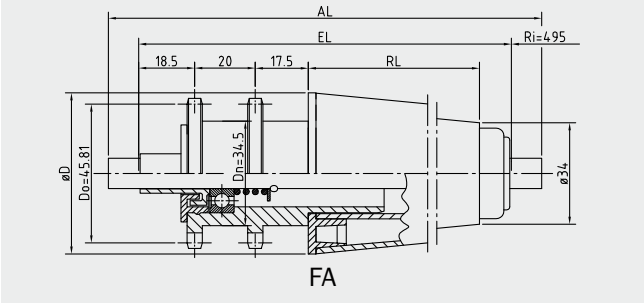
M



AGM



GL



FA

**Support roller with conic jars made of plastics (Polyamide 6, optional Vestamid). The bearing consists of a double chain wheel made of steel 3/8 x 7/32” Z = 15 with grooved ball bearing DIN 625 and counter bearing (Series 10).**

| Order no. | Variant |
|---|---|
| 65.6ARY | Fixed roller with grooved ball bearing 6000 RS, conic jars made of Polyamide 6 |
| 65.6V | Fixed roller with grooved ball bearing 6000 RS, conic jars made of Vestamid |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle |
|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 |
| 30 x 2 | x | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA |
|---|---|---|---|---|---|---|---|
| 30 | 10 | EL=RL+ | 67 | 77 | 67 | 67 | 67 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 30 | 20 | 30 | 0,40 |

## Standard lengths, Ri = 502, Ti 35,9 – bend 90° with 21 rollers, Ti 59,1 (Example AGM)

| Nominal width | RL | EL | LW | Dø | Rm | Ra | Ta |
|---|---|---|---|---|---|---|---|
| 300 | 285 | 352 | 355 | 53,1 | 657 | 860 | 61,4 |
| 400 | 385 | 452 | 455 | 59,9 | 707 | 960 | 68,5 |
| 500 | 485 | 552 | 555 | 66,6 | 757 | 1060 | 75,4 |
| 600 | 585 | 652 | 655 | 73,4 | 807 | 1160 | 82,8 |
| 700 | 685 | 752 | 755 | 80,1 | 857 | 1260 | 89,9 |
| 800 | 785 | 852 | 855 | 86,9 | 907 | 1360 | 97,1 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**
**special lengths**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Driven Conic Support Rollers

**Double chain wheel made of steel 3/8 x 7/32” Z = 20**
**Tube Ø 50**

**Series 67**

## Features:

✔ **for goods to be transported with a minimum length/minimum diameter of 220 mm and a unit weight of approx. 150 kg**

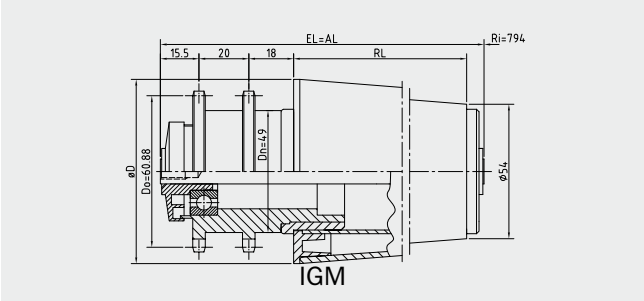
Notes / sketches to Series 67

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

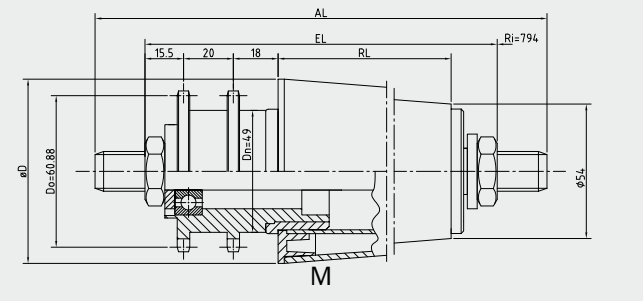
# TRAPOROL

## Series 67

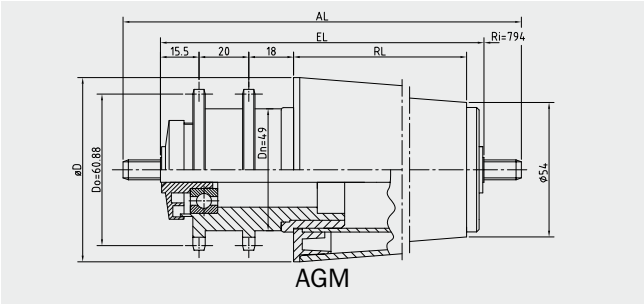
**Driven Conic Support Rollers**
**Double chain wheel made of steel 3/8 x 7/32” Z = 20**
**Tube Ø 50**



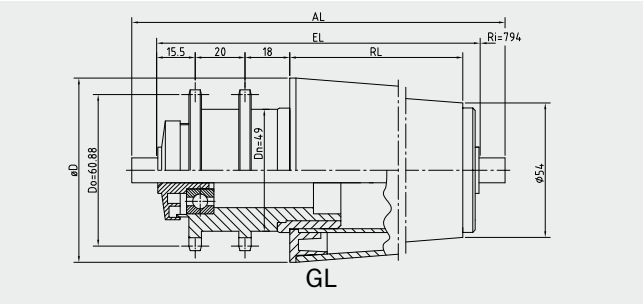
IGM



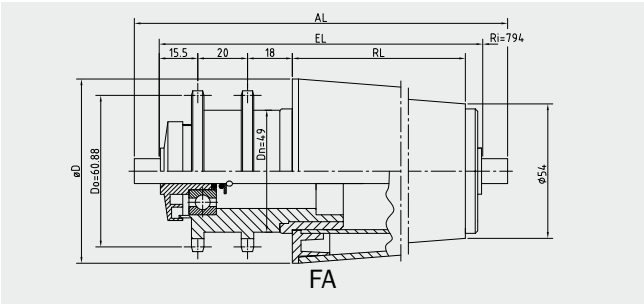
M



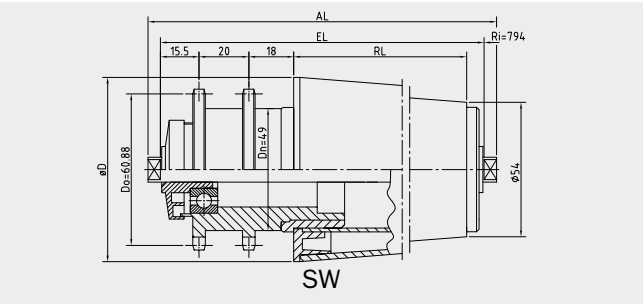
AGM



GL



FA



SW

**Support roller with conic jars made of plastics (Polyamide 6, optional Polypropylene). The bearing consists of a steel double chain wheel 3/8 x 7/32” Z = 20 with grooved ball bearing DIN 625 and counter bearing (Series 16).**

| Order no. | Variant |
|---|---|
| 67.6A | Friction roller with grooved ball bearing 6202 RS, conic jars made of Polyamide 6 |
| 67.6PW | Friction roller with grooved ball bearing 6202 RS, conic jars made of Polypropylene |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 | 10 | EL=RL+ | 62 | 72 | 62 | 62 | 62 | 62 |
| | 12 | EL=RL+ | 62 | 74 | 62 | 62 | 62 | 62 |
| | 15 | EL=RL+ | 62 | 86 | 62 | 62 | 62 | 62 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 | 80 | 100 | 1,20 |

## Standard lengths – bend 90° with 20 rollers

| Nominal width | RL | EL | Dø | Ri | Rm | Ra | Ti | Ta |
|---|---|---|---|---|---|---|---|---|
| 300 | 290 | 352 | 73,5 | 761 | 918 | 1119 | 59,7 | 87,8 |
| 400 | 390 | 452 | 80,1 | 783 | 990 | 1241 | 61,5 | 97,4 |
| 500 | 490 | 552 | 86,9 | 804 | 1061 | 1362 | 63,1 | 106,9 |
| 600 | 590 | 652 | 93,6 | 764 | 1071 | 1422 | 60,1 | 111,6 |
| 700 | 690 | 752 | 100,4 | 786 | 1143 | 1544 | 61,7 | 121,5 |
| 800 | 790 | 852 | 107,1 | 807 | 1215 | 1665 | 63,6 | 130,7 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**
**special lengths**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Driven Conic Support Rollers

**Double chain wheel made of plastics 1/2 x 5/16” Z = 14**
**Tube ø 50**

**Series 68**

## Features:

- ✔ **low operating noise**
- ✔ **for goods to be transported with a minimum length/minimum diameter of 220 mm and a unit weight of approx. 150 kg**

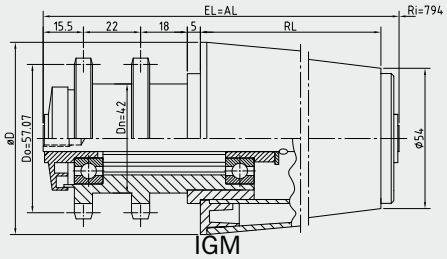
Notes / sketches to Series 68

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

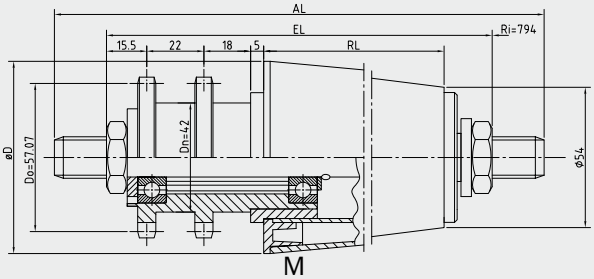
# TRAPOROL

## Series 68

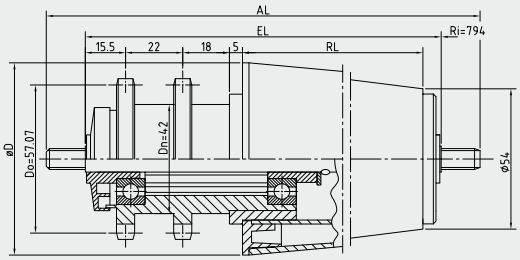
## Driven Conic Support Rollers
**Double chain wheel made of plastics 1/2 x 5/16” Z = 14**
**Tube ø 50**



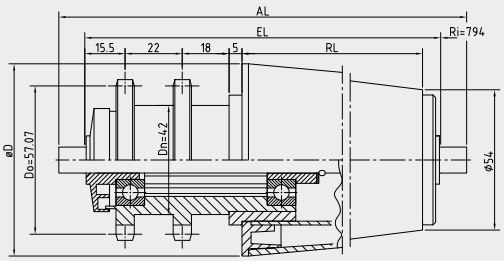
IGM



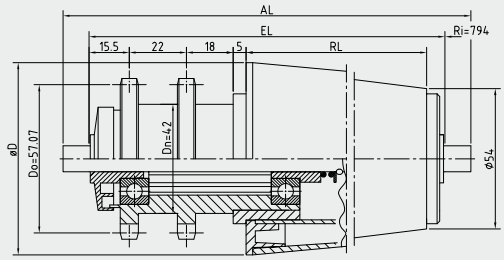
M



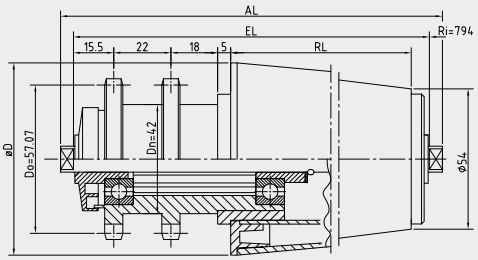
AGM



GL



FA



SW

**Support roller with conic jars made of plastics (Polyamide 6, optional Polypropylene). The bearing consists of a plastic double chain wheel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625, optional with covering or sealing disks and counter bearing (Series 16).**

| Order no. | Variant |
|---|---|
| 68.6A | Fixed roller with grooved ball bearing 6202 RS, conic jars made of Polyamide 6 |
| 68.6PW | Fixed roller with grooved ball bearing 6202 RS, conic jars made of Polypropylene |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| | Tube | | | | Axle | | |
|---|---|---|---|---|---|---|---|
| Dimensions | Steel | Stainless Steel | Aluminum | Plastics | 10 | 12 | 15 |
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 | 10 | EL=RL+ | 69 | 79 | 69 | 69 | 69 | 69 |
| | 12 | EL=RL+ | 69 | 81 | 69 | 69 | 69 | 69 |
| | 15 | EL=RL+ | 69 | 83 | 69 | 69 | 69 | 69 |

## Load values bearing

| Tube ø | maximum Load daN / roller | | maximum Conveyor speed m / s |
|---|---|---|---|
| | static | dynamic | |
| 50 | 80 | 100 | 1,20 |

## Standard lengths (PW - up to RL990) – bend 90° with 20 rollers (Example IGM)

| Nominal width | RL | EL | Dø | Ri | Rm | Ra | Ti | Ta |
|---|---|---|---|---|---|---|---|---|
| 280 | 290 | 359 | 73,4 | 798 | 951 | 1161 | 62,9 | 91,2 |
| 380 | 390 | 459 | 80,1 | 780 | 983 | 1243 | 61,4 | 97,4 |
| 480 | 490 | 559 | 86,9 | 760 | 1013 | 1323 | 59,9 | 103,8 |
| 580 | 590 | 659 | 93,6 | 818 | 1121 | 1481 | 64,6 | 116,5 |
| 680 | 690 | 759 | 100,4 | 798 | 1151 | 1561 | 63 | 122,8 |
| 780 | 790 | 859 | 107,1 | 780 | 1183 | 1643 | 61,65 | 129,4 |

Measures are only case studies, in case of order technical proove by customer.

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**
**special lengths**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

# Driven Conic Support Rollers

**Double chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50**

**Series 69**

## Features:

✔ **for goods to be transported with a minimum length/minimum diameter of 220 mm and a unit weight of approx. 150 kg**

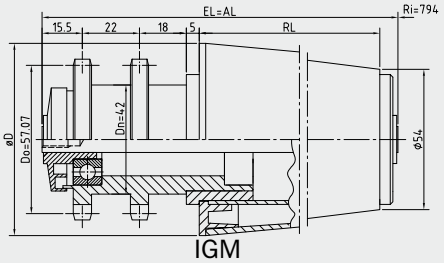
Notes / sketches to Series 69

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

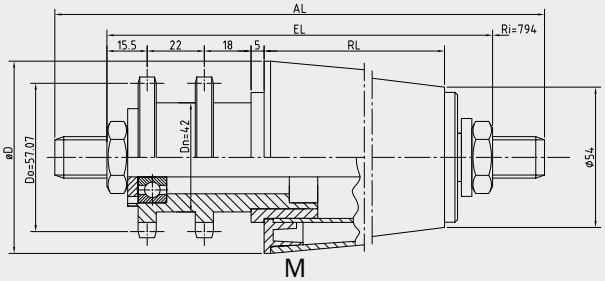
# TRAPOROL

## Series 69

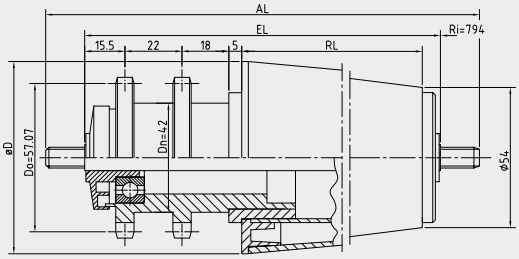
## Driven Conic Support Rollers
**Double chain wheel made of steel 1/2 x 5/16” Z = 14**
**Tube ø 50**



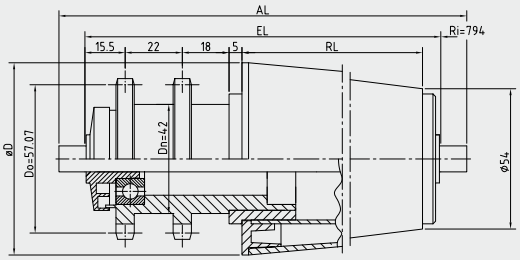
IGM



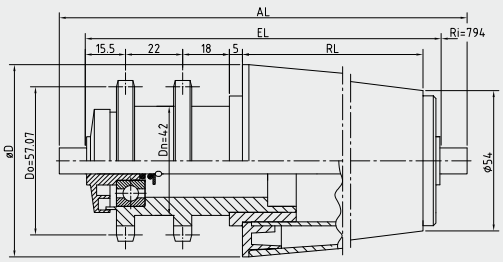
M



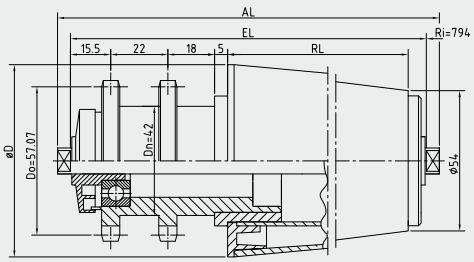
AGM



GL



FA



SW

**Support rollers with conic jars made of plastics (Polyamide 6, optional Polypropylene). The bearing consists of a double chain wheel made of steel 1/2 x 5/16” Z = 14 with grooved ball bearing DIN 625, optional with covering or sealing disks and counter bearing (Series 16).**

| Order no. | Variant |
|---|---|
| 69.6A | Fixed roller with grooved ball bearing 6202 RS, conic jars made of Polyamide 6 |
| 69.6PW | Fixed roller with grooved ball bearing 6202 RS, conic jars made of Polypropylene |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

## Combination Options Tube / Axle

| Dimensions | Tube: Steel | Tube: Stainless Steel | Tube: Aluminum | Tube: Plastics | Axle: 10 | Axle: 12 | Axle: 15 |
|---|---|---|---|---|---|---|---|
| 50 x 1,5 | x | x | x | | x | x | x |
| 50 x 2,8 | | | | x | x | x | x |

## Relation of EL to RL / mm

| Tube ø | Axle ø | | IGM | M | AGM | GL | FA | SW |
|---|---|---|---|---|---|---|---|---|
| 50 | 10 | EL=RL+ | 69 | 79 | 69 | 69 | 69 | 69 |
| | 12 | EL=RL+ | 69 | 81 | 69 | 69 | 69 | 69 |
| | 15 | EL=RL+ | 69 | 83 | 69 | 69 | 69 | 69 |

## Load values bearing

| Tube ø | maximum Load daN / roller: static | maximum Load daN / roller: dynamic | maximum Conveyor speed m / s |
|---|---|---|---|
| 50 | 80 | 100 | 1,20 |

## Standard lengths (PW - up to RL 990) – bend 90° with 20 rollers (Example IGM)

| Nominal width | RL | EL | Dø | Ri | Rm | Ra | Ti | Ta |
|---|---|---|---|---|---|---|---|---|
| 280 | 290 | 359 | 73,4 | 798 | 951 | 1161 | 62,9 | 91,2 |
| 380 | 390 | 459 | 80,1 | 780 | 983 | 1243 | 61,4 | 97,4 |
| 480 | 490 | 559 | 86,9 | 760 | 1013 | 1323 | 59,9 | 103,8 |
| 580 | 590 | 659 | 93,6 | 818 | 1121 | 1481 | 64,6 | 116,5 |
| 680 | 690 | 759 | 100,4 | 798 | 1151 | 1561 | 63 | 122,8 |
| 780 | 790 | 859 | 107,1 | 780 | 1183 | 1643 | 61,65 | 129,4 |

**Special Designs:** **see surface variants**
**rust proof**
**conic tubes of Steel**
**special lengths**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

TRAPOROL

*DRIVING YOUR PERFORMANCE.*

# Polydirectional Rollers

**Gravity**

| | | |
|---|---|---|
| Gravity | ø 40 mm | Series ARS 40 |
| Gravity | ø 48 mm | Series ARS 48 |
| Gravity | ø 60 mm | Series ARS 60 |
| Gravity | ø 80 mm | Series ARS 80 |
| Gravity | ø 120 mm | Series ARS 120 |

**Driven**

| | | |
|---|---|---|
| Driven | ø 40 mm | Series ARG 40 |
| Driven | ø 60 mm | Series ARG 60 |
| Driven | ø 80 mm | Series ARG 80 |
| Driven | ø 120 mm | Series ARG 120 |

**Profiles (not mounted)**

| | |
|---|---|
| Profiles for Polydirectional Rollers ARS ø 40 to 120 mm | Series ARP |

**Polydirectional Roller Edge**

| | | |
|---|---|---|
| Polydirectional Roller Edge | with Rollers ø 40 mm | Series ARL 40 |
| Polydirectional Roller Edge | with Rollers ø 48 mm | Series ARL 48 |
| Polydirectional Roller Edge | with Rollers ø 60 mm | Series ARL 60 |
| Polydirectional Roller Edge | with Rollers ø 80 mm | Series ARL 80 |
| Polydirectional Roller Edge | with Rollers ø 120 mm | Series ARL 120 |

# Polydirectional Rollers

# General Notes Polydirectional Rollers

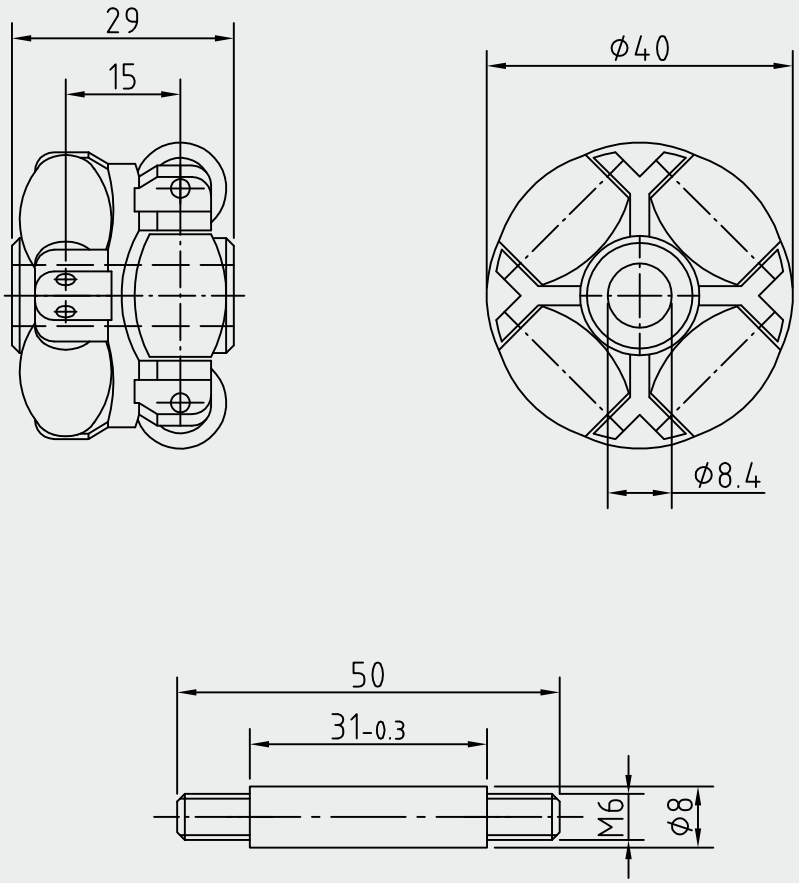
Notes

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

**Series ARS 40**

## Polydirectional Roller ø 40
**Gravity**
**Maximum Load: 10 daN**




**Accessories:** **Roller axle A8 AGM 6 with screw nuts and washers galvanized steel, optional stainless steel 1.4305.**
**Profiles not mounted: See ARP 40**
**Mounted Edges: See ARL 40**

### Hoppits with sliding bearing on stainless steel axle 1.4104

| Order no. | Variant |
|---|---|
| ARS 40.0 | Housing and hoppits made of PA |
| ARS 40.1 | Housing made of Polyamide, hoppits made of PUR |
| ARS 40.AZ8 | Roller axle, galvanized steel |
| ARS 40.AN8 | Roller axle, stainless steel |

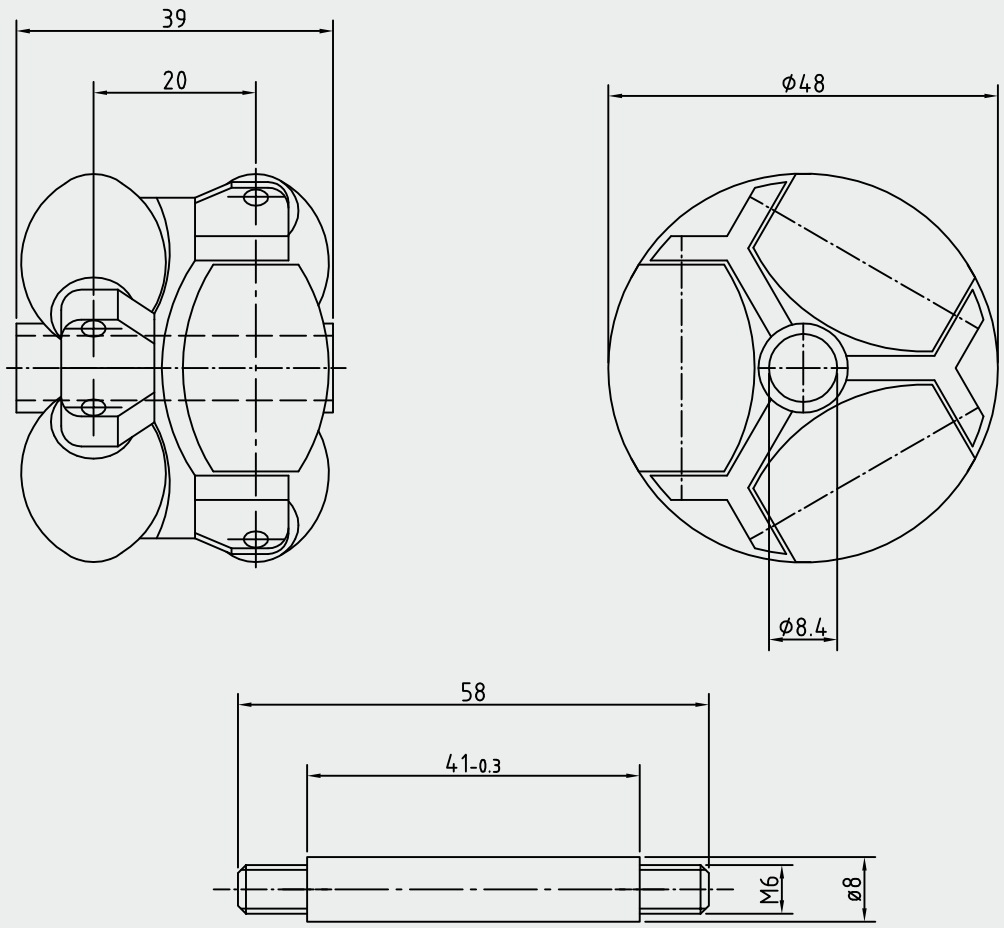
**Special Designs:** **ARS 40.010 for roller axle ø 10 mm**
**Antistatic**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Polydirectional Roller ø 48

**Gravity**
**Maximum Load: 15 daN**

**Series ARS 48**




**Accessories:** **Roller axle A8 AGM 6 with screw nuts and washers galvanized steel, optional stainless steel 1.4305.**
**Profiles not mounted: See ARP 48**
**Mounted edges: See ARL 48**

## Hoppits with sliding bearing on stainless steel axle 1.4104

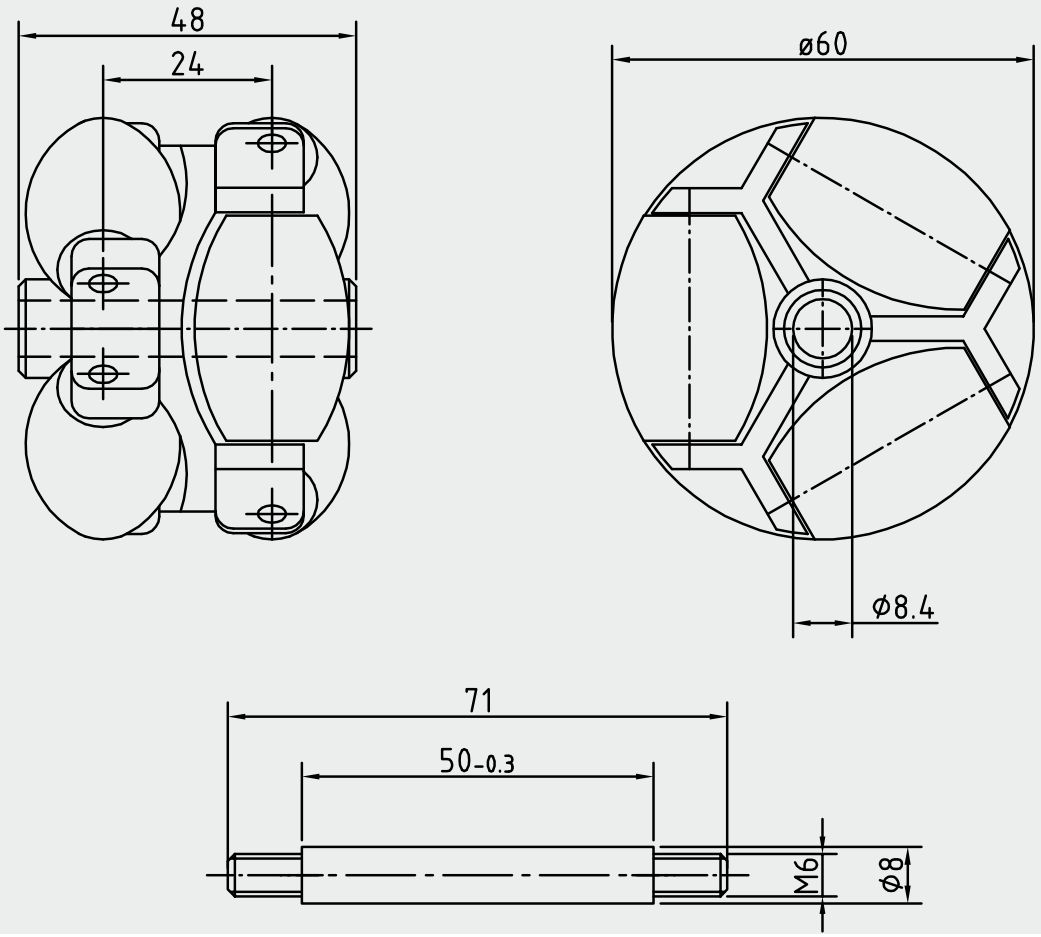
| Order no. | Variant |
|---|---|
| ARS 48.0 | Housing and hoppits made of PA |
| ARS 48.AZ8 | Roller axle, galvanized steel |
| ARS 48.AN8 | Roller axle, stainless steel |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series ARS 60

**Polydirectional Roller ø 60**
**Gravity**
**Maximum Load: 20 daN**




**Accessories:** **Roller axle A8 AGM 6 with screw nuts and washers galvanized steel, optional stainless steel 1.4305.**
**Profiles not mounted: See ARP 60**
**Edges mounted: See ARL 60**

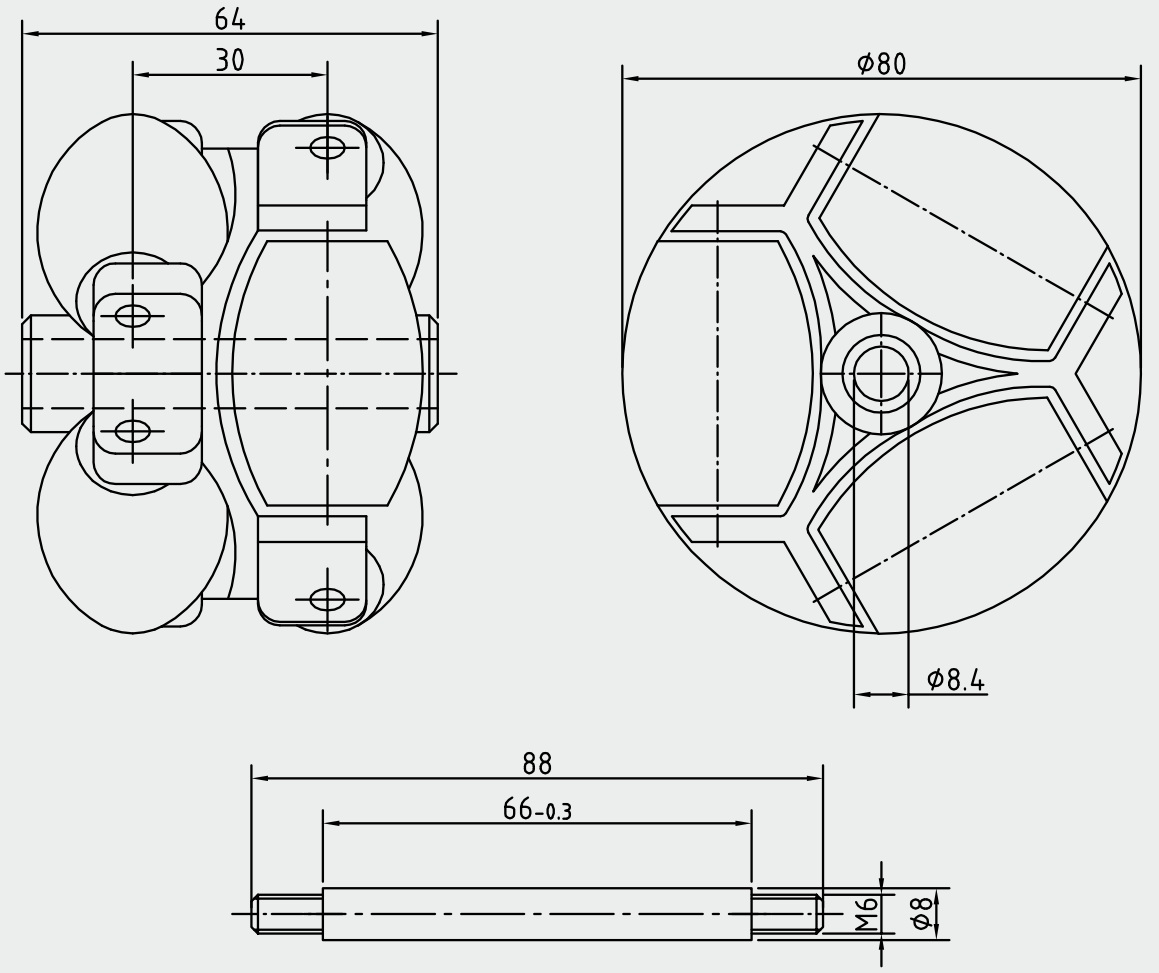
### Hoppits with sliding bearing on stainless steel axle 1.4104

| Order no. | Variant |
|---|---|
| ARS 60.0 | Housing and hoppits made of PA |
| ARS 60.1 | Housing made of Polyamide, hoppits made of PUR |
| ARS 60.AZ8 | Roller axle, galvanized steel |
| ARS 60.AN8 | Roller axle, stainless steel |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Polydirectional Roller ø 80
**Gravity**
**Maximum Load: 40 daN**

**Series ARS 80**




**Accessories:** **Roller axle A8 AGM 6 with screw nuts and washers galvanized steel, optional stainless steel 1.4305.**
**Profiles not mounted: See ARP 80**
**Edges mounted: See ARL 80**

## Hoppits with sliding bearing on stainless steel axle 1.4104

| Order no. | Variant |
|---|---|
| ARS 80.0 | Housing and hoppits made of PA |
| ARS 80.1 | Housing made of PA, hoppits made of PUR |
| ARS 80.012 | Housing and hoppits made of PA; for roller axle ø 12 mm |
| ARS 80.AZ8 | Roller axle, galvanized steel |
| ARS 80.AN8 | Roller axle, stainless steel |

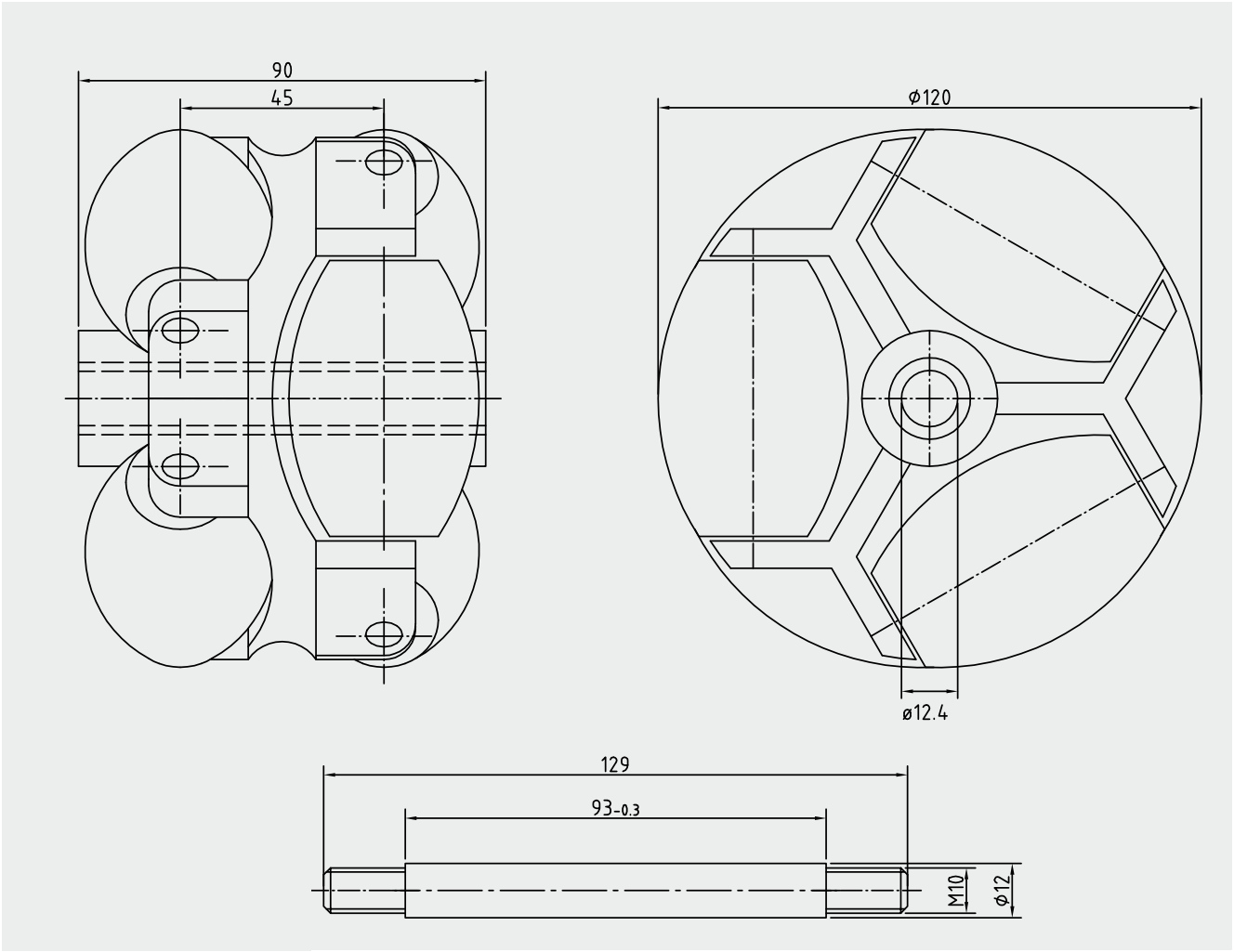
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **Antistatic**

# TRAPOROL

## Series ARS 120

**Polydirectional Roller ø 120**
**Gravity**
**Maximum Load: 120 daN**




**Accessories:** **Roller axles A12 AGM 10 with screw nuts and washers galvanized steel, optional stainless steel 1.4305 .**
**Profiles not mounted: See ARP 120**
**Edges mounted: See ARL 120**

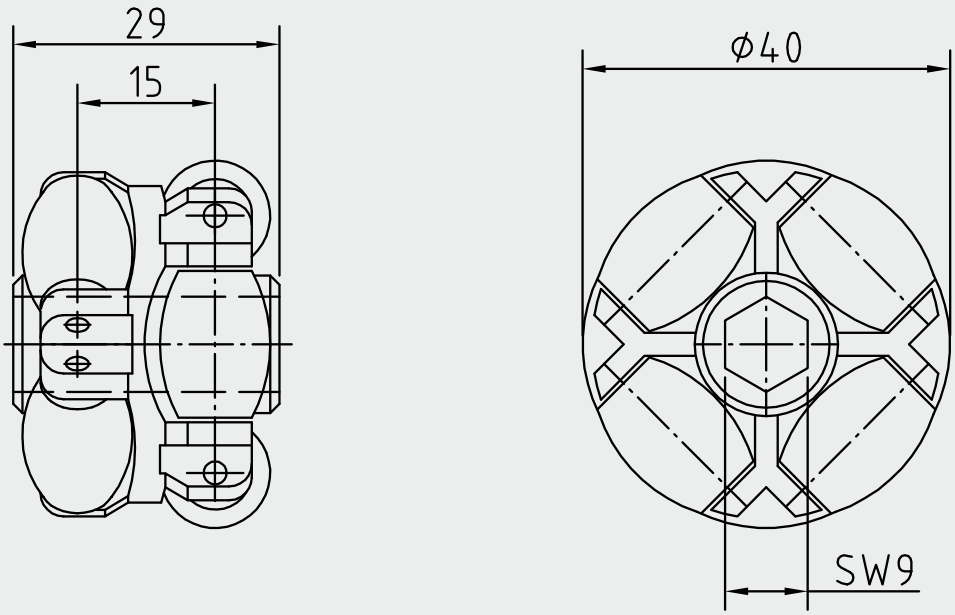
### Hoppits with sliding bearing on stainless steel axle 1.4104

| Order no. | Variant |
|---|---|
| ARS 120.0 | Housing and hoppits made of PA |
| ARS 120.1 | Housing made of Polyamide, hoppits made of PUR |
| ARS 120.AZ12 | Roller axle, galvanized steel |
| ARS 120.AN12 | Roller axle, stainless steel |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Polydirectional Roller ø 40
**Driven**
**Maximum Load: 10 daN**

**Series ARG 40**




**Hoppits with sliding bearing on stainless steel axle 1.4104**

| Order no. | Variant |
|---|---|
| ARG 40.0 | Housing and hoppits made of PA |
| ARG 40.1 | Housing made of PA, hoppits made of PUR |

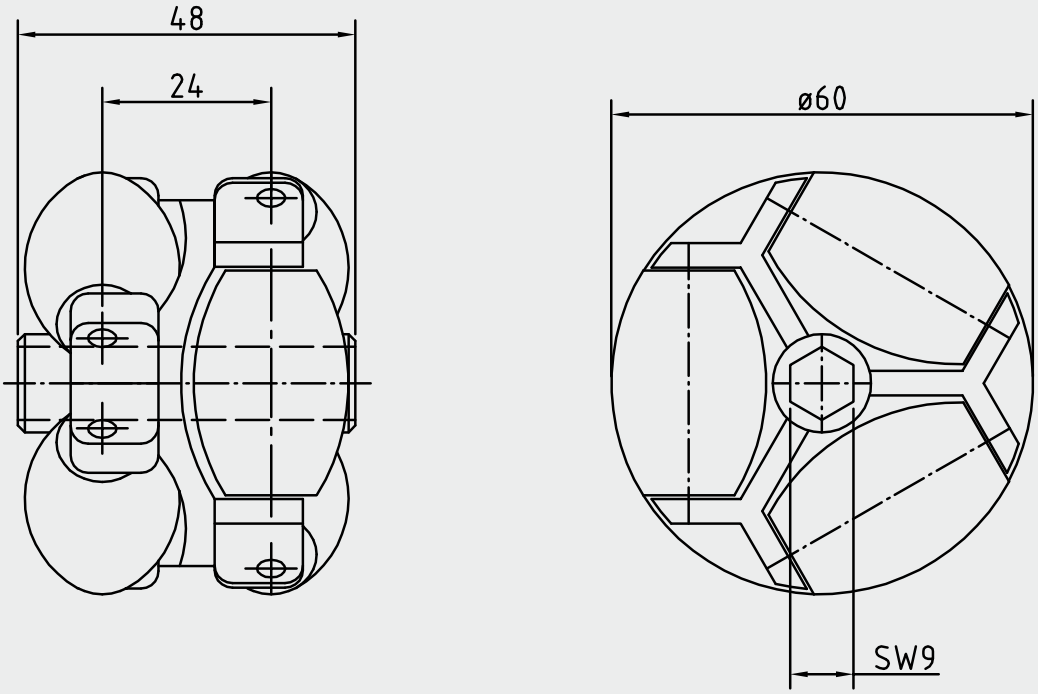
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **Antistatic**

# TRAPOROL

## Series ARG 60

**Polydirectional Roller ø 60**
**Driven**
**Maximum Load: 20 daN**



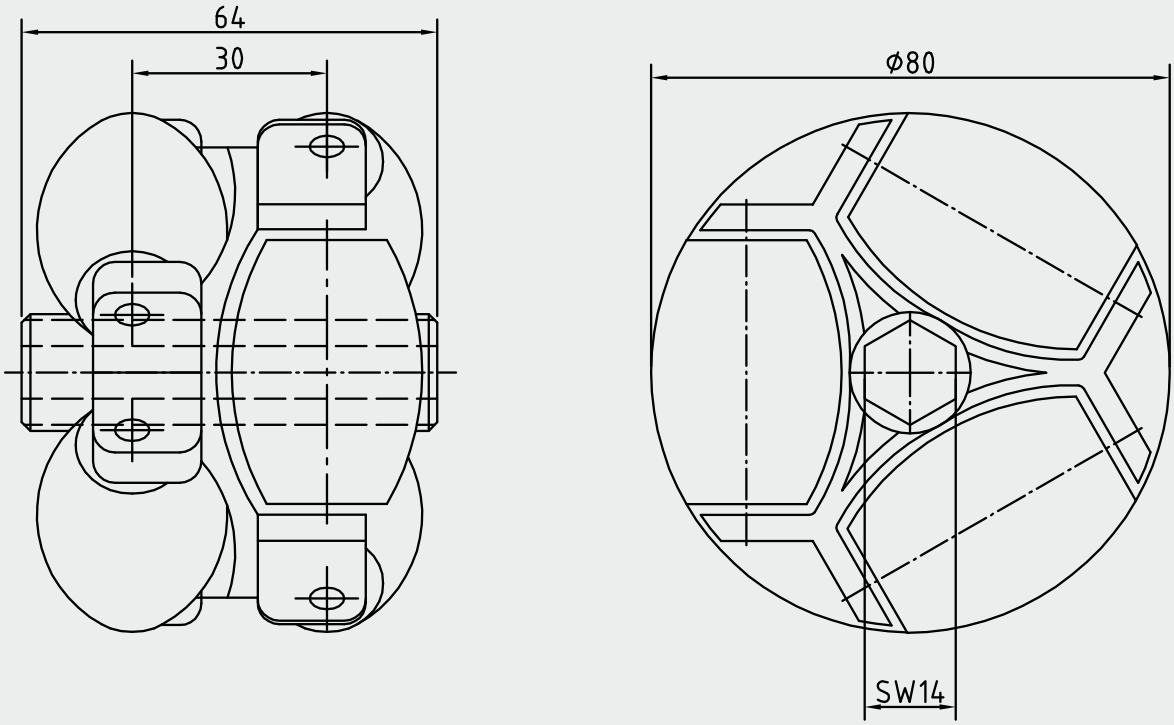

**Hoppits with sliding bearing on stainless steel axle 1.4104**

| Order no. | Variant |
|---|---|
| ARG 60.0 | Housing and hoppits made of PA |
| ARG 60.1 | Housing made of PA, hoppits made of PUR |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Polydirectional Roller ø 80
**Driven**
**Maximum Load: 40 daN**

**Series ARG 80**




**Hoppits with sliding bearing on stainless steel axle 1.4104**

| Order no. | Variant |
|---|---|
| ARG 80.0 | Housing and hoppits made of PA |
| ARG 80.1 | Housing made of PA, hoppits made of PUR |

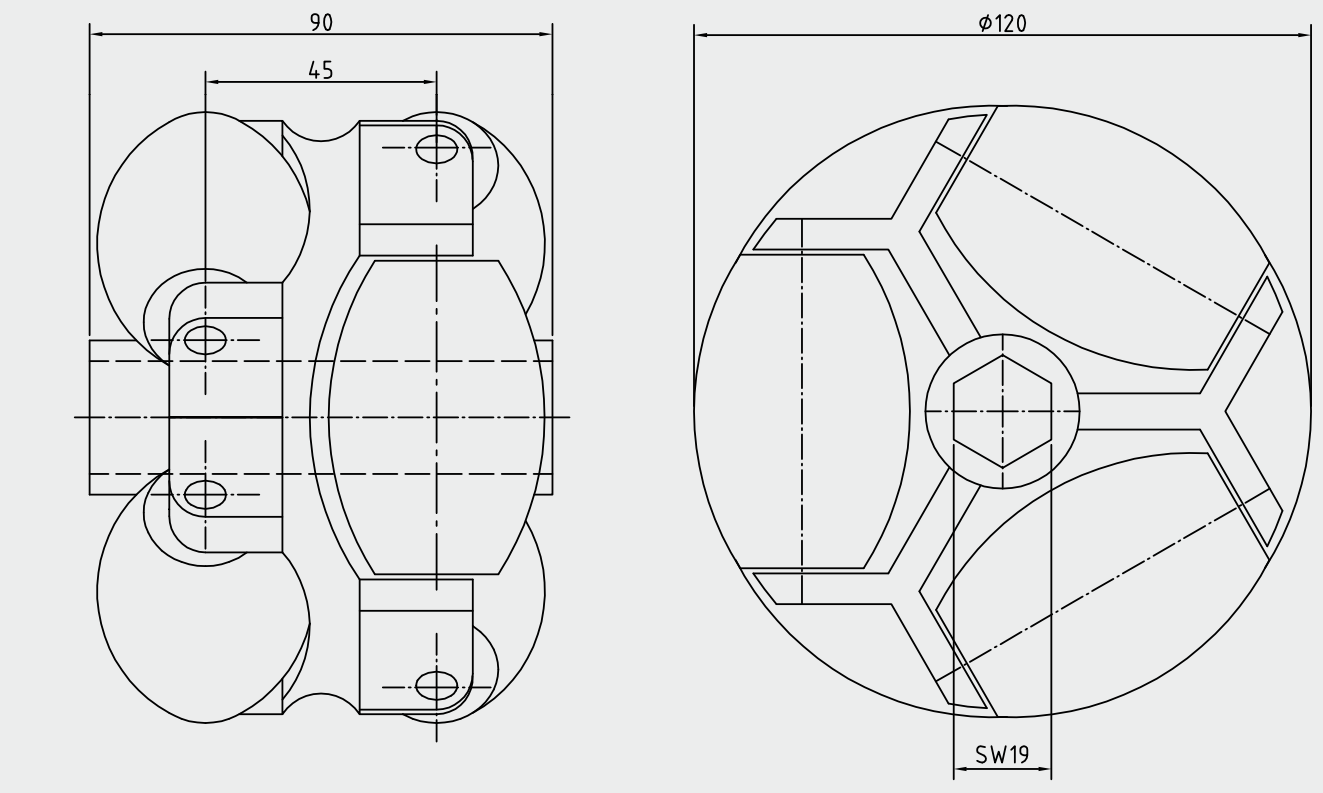
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

**Special Designs:** **Antistatic**

# TRAPOROL

## Series ARG 120

**Polydirectional Roller ø 120**
**Driven**
**Maximum Load: 120 daN**



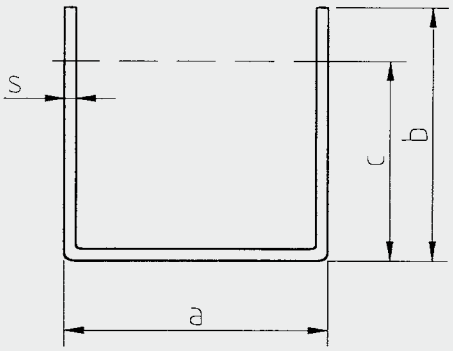

**Hoppits with sliding bearing on stainless steel axle 1.4104**

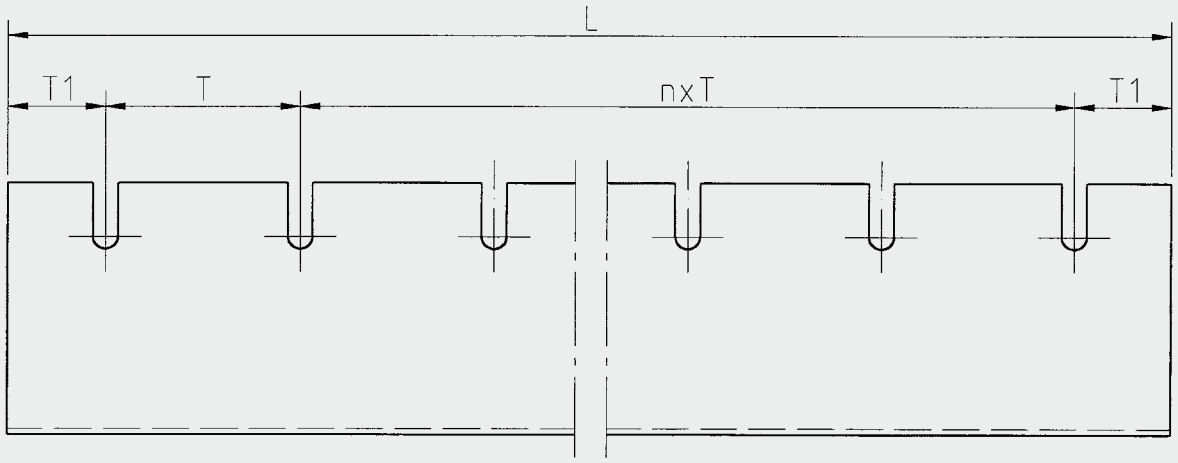
| Order no. | Variant |
|---|---|
| ARG 120.0 | Housing and hoppits made of PA |
| ARG 120.1 | Housing made of PA, hoppits made of PUR |

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Profiles for Polydirectional Rollers
## ø 40 to 120

**Series ARP**




**Standard Dimensions**

| | a | b | c | s | T | T1 | |
|---|---|---|---|---|---|---|---|
| | | | | | | A | B |
| ARP40 | 34 | 33 | 26 | 1,5 | 50 | 25 | 50 |
| ARP48 | 44 | 40 | 30 | 1,5 | 100 | 50 | 100 |
| ARP60 | 57 | 50 | 40 | 2 | 100 | 50 | 100 |
| ARP80 | 73 | 60 | 50 | 2 | 100 | 50 | 100 |
| ARP120 | 105 | 85 | 70 | 4 | 150 | 75 | 150 |

**Our profiles are available in the following versions: Cold drawn steel, galvanized steel, powder coated and stainless steel.**

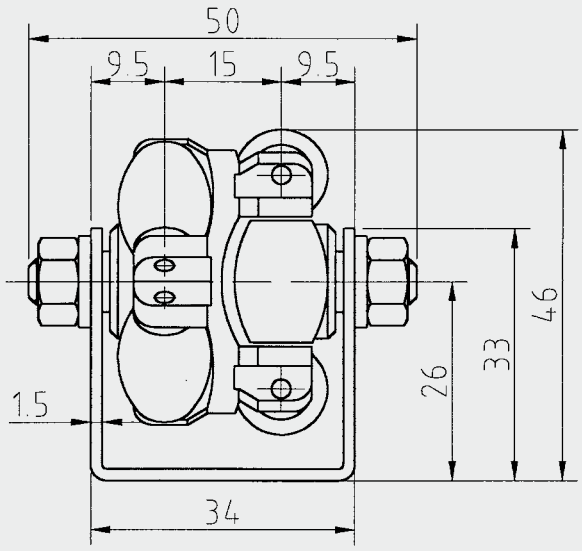
**Versions:** **galvanized steel (cut edges unsealed)**

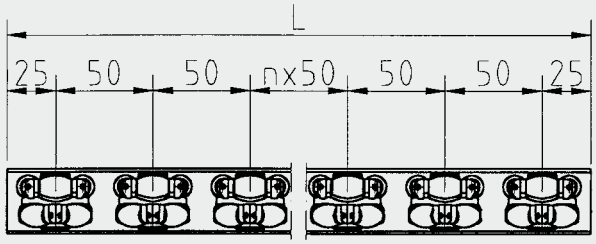
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

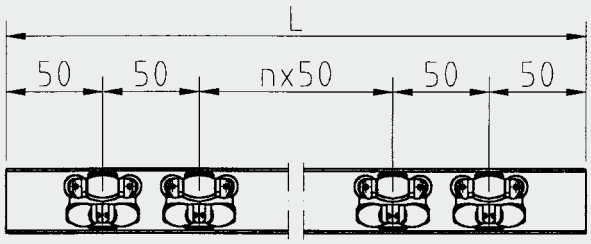
## Series ARL 40

**Polydirectional Roller Edge**
**with Rollers ø 40**




**Edge A**




**Edge B**

| Order no. | Variant |
|---|---|
| ARL 40.0A | Edge A with ARS 40.0, Housing and hoppits made of PA |
| ARL 40.1A | Edge A with ARS 40.1, Housing made of PA, hoppits made of PUR |
| ARL 40.0B | Edge B with ARS 40.0, Housing and hoppits made of PA |
| ARL 40.1B | Edge B with ARS 40.1, Housing made of PA, hoppits made of PUR |

**Note:** **A and B edges should be mounted alternately next to each other; thus the rollers are arranged shifted in order to realize convenient roller distances.**

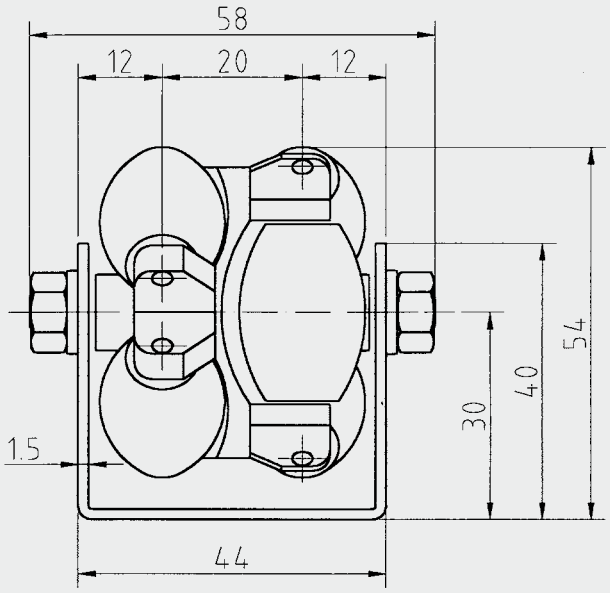
**Versions:** **galvanized steel (cut edges unsealed)**
**stainless steel**
**powder coated (RAL standard colors)**

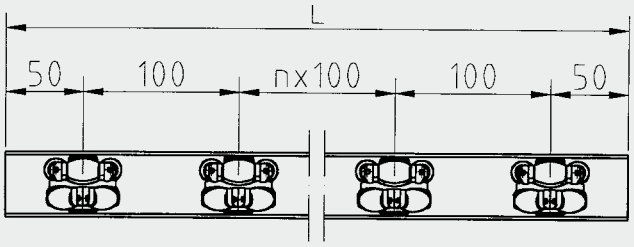
**Special dimensions and complete tables upon request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

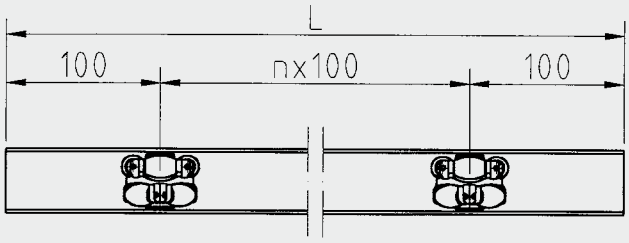
# Polydirectional Roller Edge
with Rollers ø 48

**Series ARL 48**




Edge A




Edge B

| Order no. | Variant |
|---|---|
| ARL 48.0A | Edge A with ARS 48.0, Housing and hoppits made of PA |
| ARL 48.0B | Edge B with ARS 48.0, Housing and hoppits made of PA |

**Note:** **A and B edges should be mounted alternately next to each other; thus the rollers are arranged shifted in order to realize convenient roller distances.**

**Versions:** **galvanized steel (cut edges unsealed)**
**stainless steel**
**powder coated (RAL standard colors)**

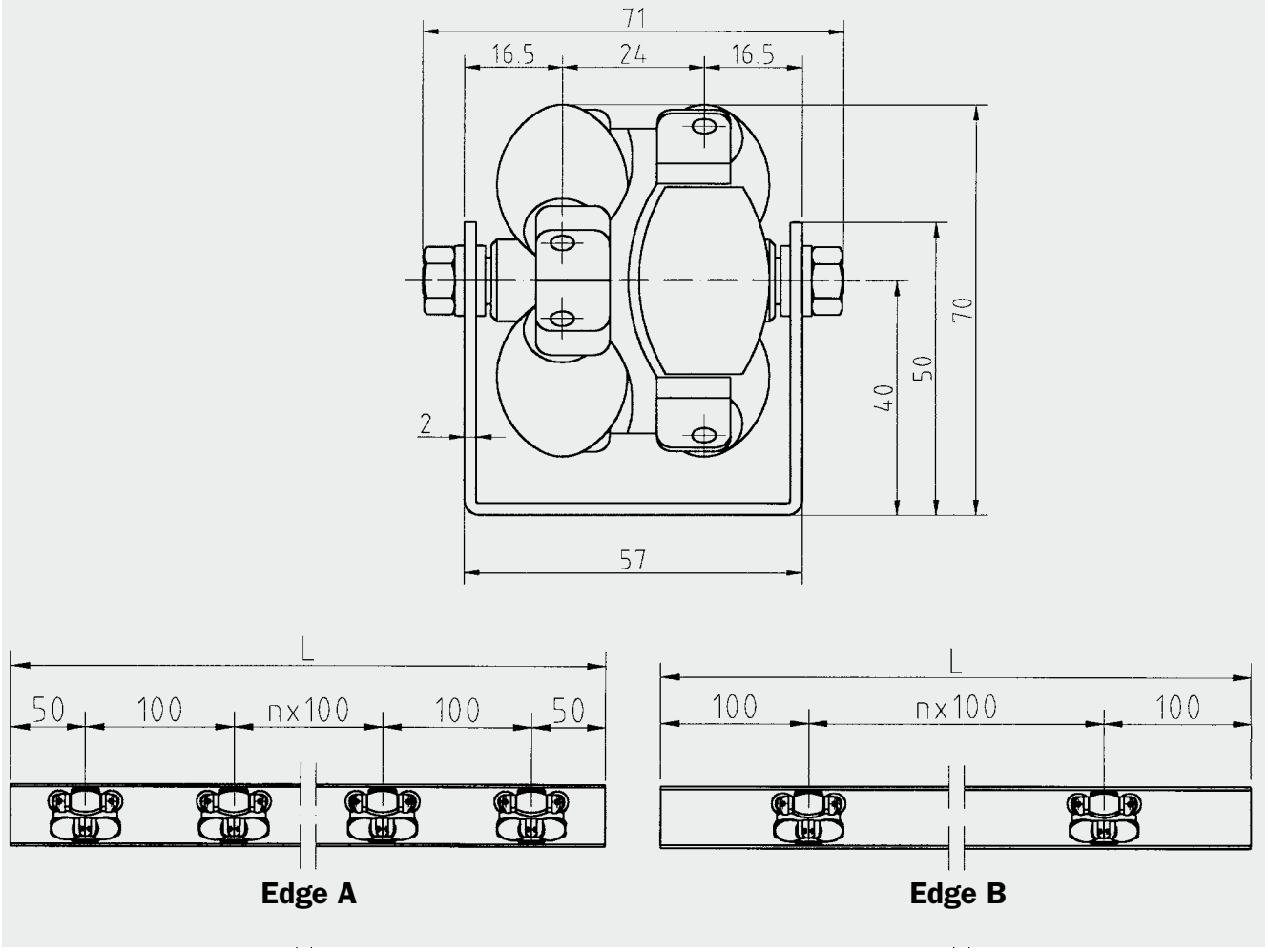
**Special dimensions and complete tables upon request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series ARL 60

**Polydirectional Roller Edge**
**with Rollers ø 60**




| Order no. | Variant |
|---|---|
| ARL 60.0A | Edge A with ARS 60.0, Housing and hoppits made of PA |
| ARL 60.1A | Edge A with ARS 60.1, Housing made of PA, hoppits made of PUR |
| ARL 60.0B | Edge B with ARS 60.0, Housing and hoppits made of PA |
| ARL 60.1B | Edge B with ARS 60.1, Housing made of PA, hoppits made of PUR |

**Note:** **A and B edges should be mounted alternately next to each other; thus the rollers are arranged shifted in order to realize convenient roller distances.**

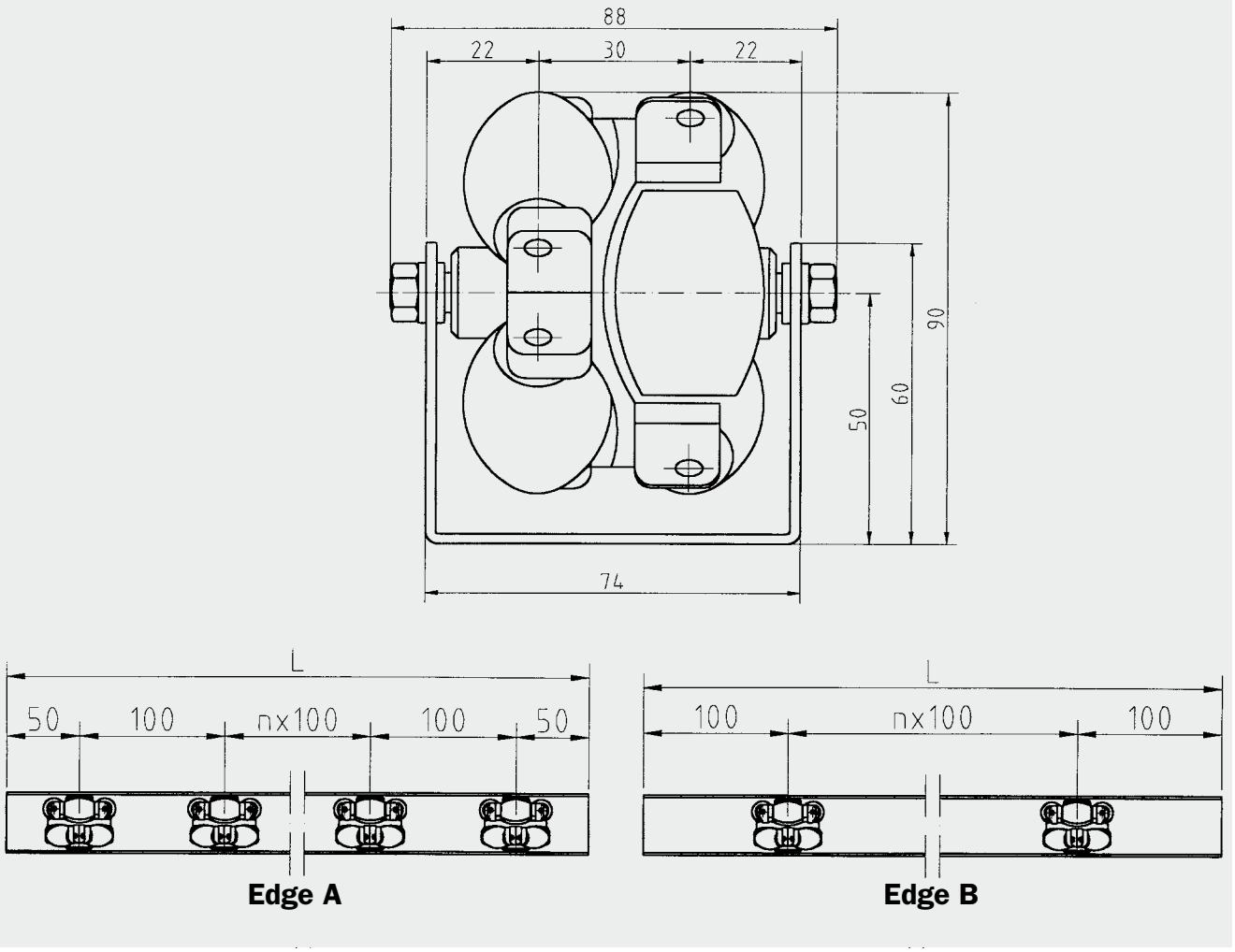
**Versions:** **galvanized steel (cut edges unsealed)**
**stainless steel**
**powder coated (RAL standard colors)**

**Special dimensions and complete tables upon request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# Polydirectional Roller Edge
with Rollers ø 80

**Series ARL 80**




| Order no. | Variant |
|---|---|
| ARL 80.0A | Edge A with ARS 80.0, Housing and hoppits made of PA |
| ARL 80.1A | Edge A with ARS 80.1, Housing made of PA, hoppits made of PUR |
| ARL 80.0B | Edge B with ARS 80.0, Housing and hoppits made of PA |
| ARL 80.1B | Edge B with ARS 80.1, Housing made of PA, hoppits made of PUR |

**Note:** **A and B edges should be mounted alternately next to each other; thus the rollers are arranged shifted in order to realize convenient roller distances.**

**Versions:** **galvanized steel (cut edges unsealed)**
**stainless steel**
**powder coated (RAL standard colors)**

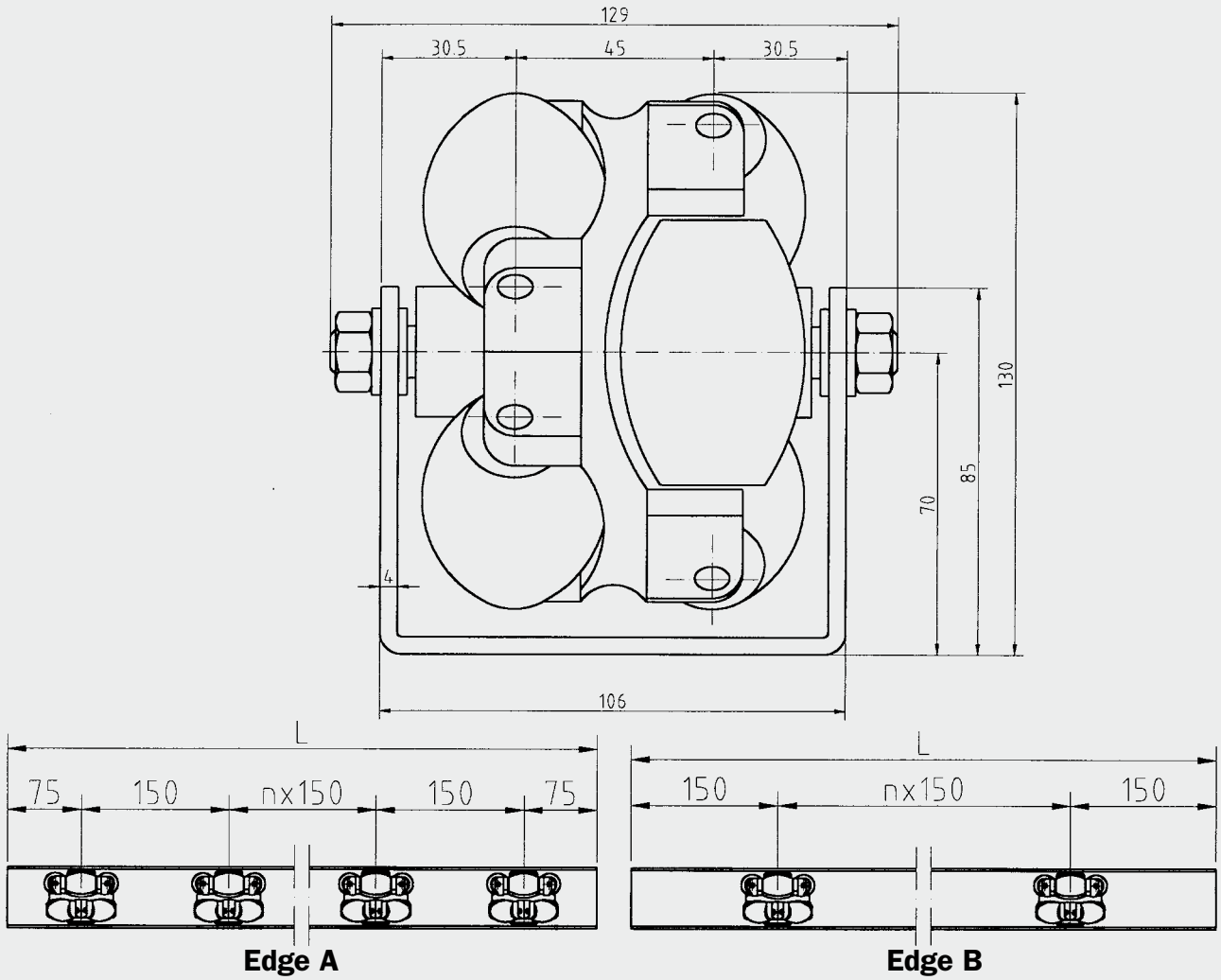
**Special dimensions and complete tables upon request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series ARL 120

**Polydirectional Roller Edge**
**with Rollers ø 120**




| Order no. | Variant |
|---|---|
| ARL 120.0A | Edge A with ARS 120.0, Housing and hoppits made of PA |
| ARL 120.1A | Edge A with ARS 120.1, Housing made of PA, hoppits made of PUR |
| ARL 120.0B | Edge B with ARS 120.0, Housing and hoppits made of PA |
| ARL 120.1B | Edge B with ARS 120.1, Housing made of PA, hoppits made of PUR |

**Note:** **A and B edges should be mounted alternately next to each other; thus the rollers are arranged shifted in order to realize convenient roller distances.**

**Versions:** **galvanized steel (cut edges unsealed)**
**stainless steel**
**powder coated (RAL standard colors)**

**Special dimensions and complete tables upon request.**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

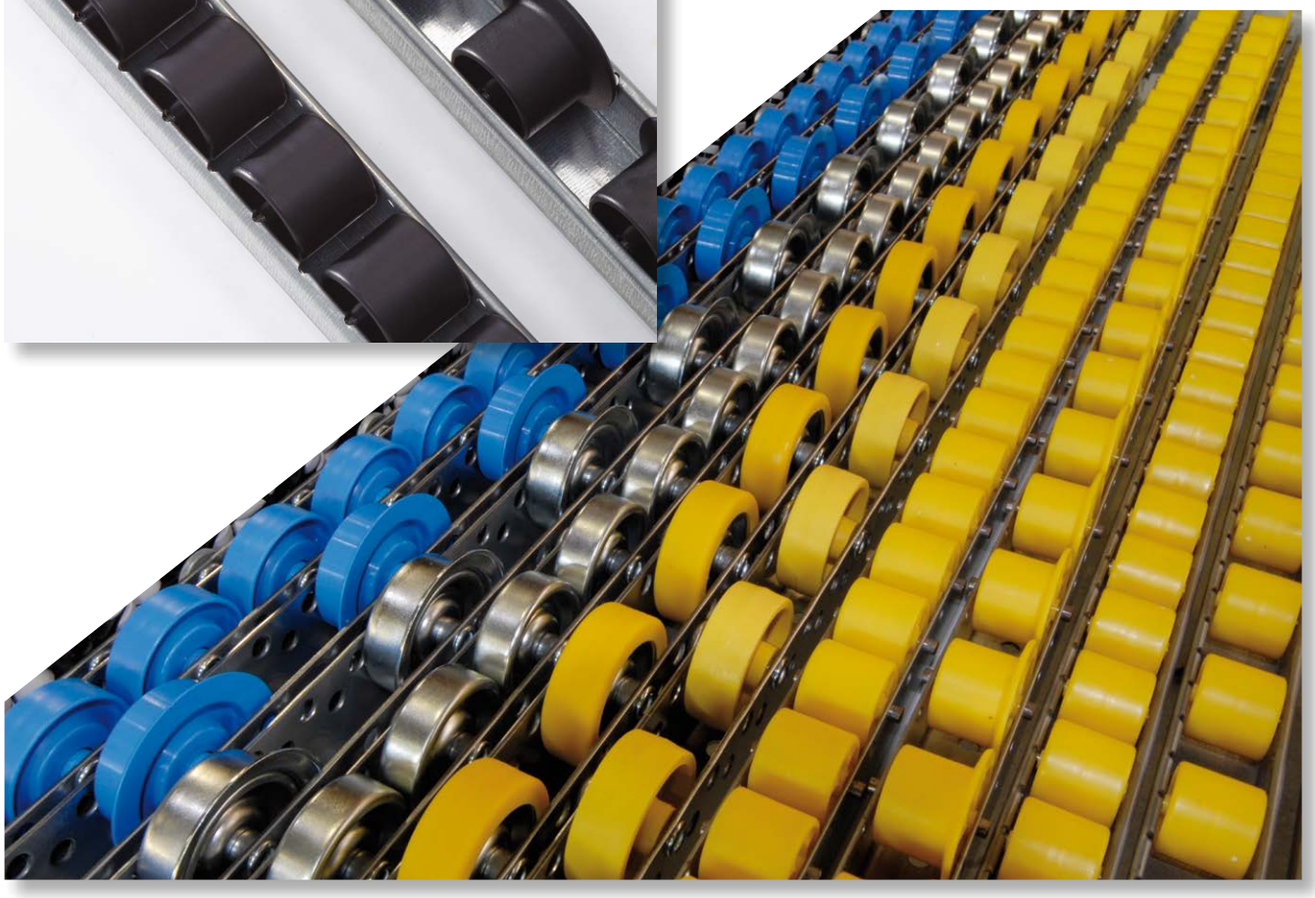
TRAPOROL

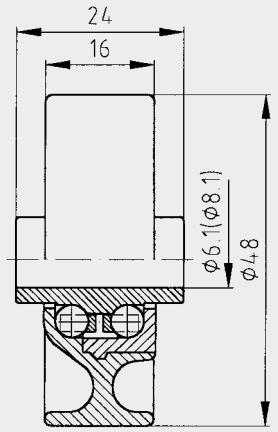
*DRIVING YOUR PERFORMANCE.*

# Accessoires


| | |
|---|---|
| Conveyor Rolls | Series FR |
| Roller Edge | Series RL |
| Palet Roller Rail | Series RS |
| Guide Disks | Series FS |

# Accessoires



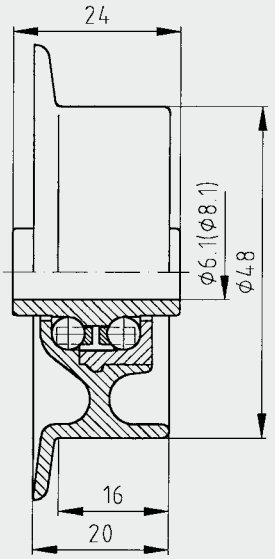



**Plastic Rolls**

**Type FR.00** with steel balls

**Type FR.01** with stainless steel balls 1.4034

**Load:**
static 5 daN
dynamic 10 daN

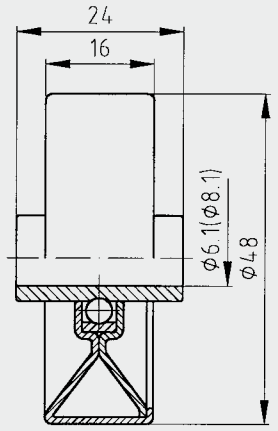



**Plastic Rolls with Guide Rail**

**Type FR.10** with steel balls

**Type FR.11** with stainless steel balls 1.4034

**Load:**
static 5 daN
dynamic 10 daN




**Steel Rolls, galvanized**

**Type FR.20** with steel balls

**Load:**
static 10 daN
dynamic 20 daN

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series RL 28

## Roller Edge

The rolls are made of high quality thermoplastics (Polypropylene), impact resistant and break-proof. The material is acid and base resistant and does not absorb humidity. The rolls can be easily exchanged. The roller edge with steel axle is designed for easy traveling and low noise material flow. This edge is a solid, variable and economic solution for different logistic ranges of application.

**Edge Material:**

Polished, galvanized profiled steel sheet with round edges, warp resistant

**Version:**

with standard rollers

with wheel flange rollers

**Length:**

Upon customer's request (max. 6500 mm)

**Divisions:**

33, 50, 66, 83, 100 mm …

The divisions stated in the catalog are only approximate. The exact hole matrix of the roller edge is 16,667 mm ± 0,1 mm. Please state the desired division in your order and observe the stated tolerances.

If no special tolerance (T1) is ordered, the roller edges are always assembled to make sure that no roller stands out from the edge.

However, the roller commencement varies by the roller division. If the commencement should be at a precisely specified dimension, additional cutting costs will be charged.

If the roller commencement (T1) (center of axle) shall be precisely specified , this dimension can only be observed on this side. For the other side only a dimensions can be indicated that matures according to the length of the roller edge with the tolerances of the hole divisions (max. up to ± 8,5 mm).

**Load of the rollers (Bearing Steel axle):**

6daN[kg]

**Load of the Roller Edge Profile:**

Results from the section modulus in the main load level of 0,5 $cm^3$. The bearing influences a very low slide friction resistance.

**Temperature Range:**

–30 °C to +100 °C

**Accessories:**

Connectors, stop devices, fitting clamps etc.

**Special Designs:**

Deep freeze version from –30 °C

with high conductive rollers (black) to avoid static loads

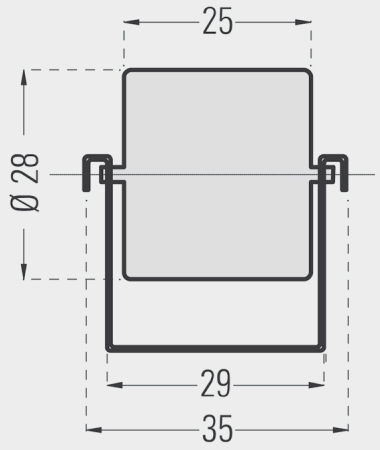
Axle and profile made of stainless steel

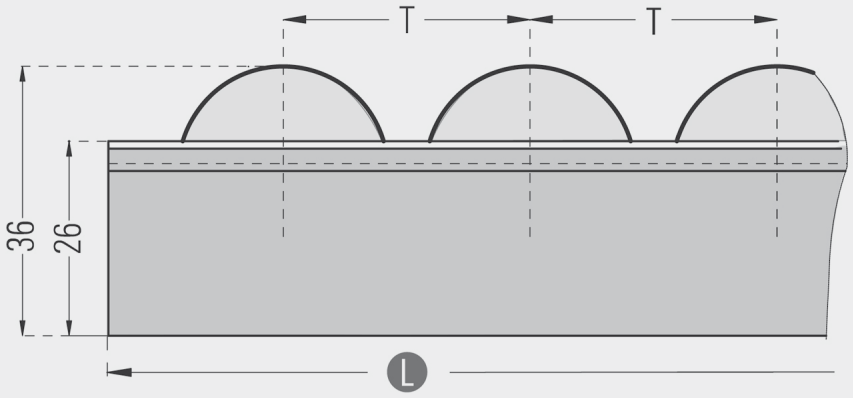
Axle only made of stainless steel

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

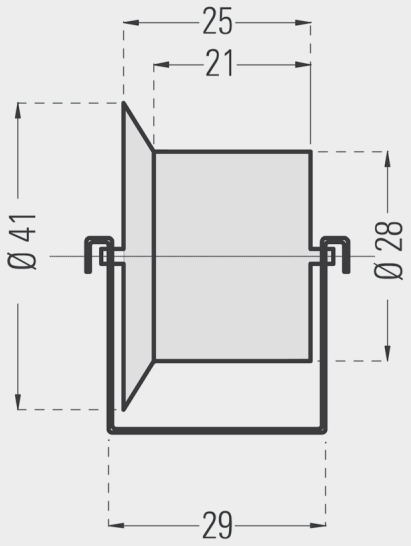
**Roller Edge**

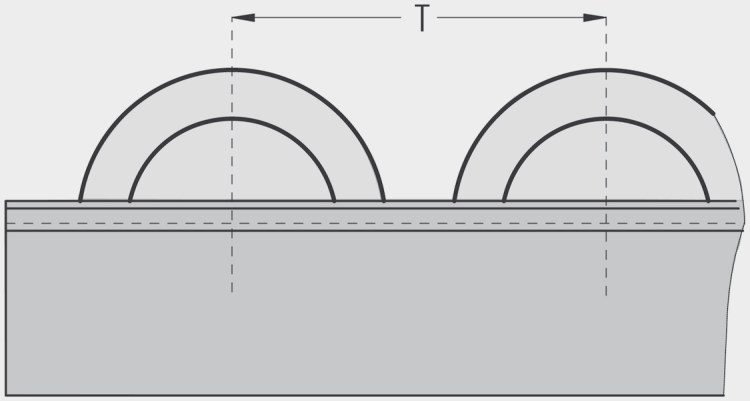
**Series RL 28**



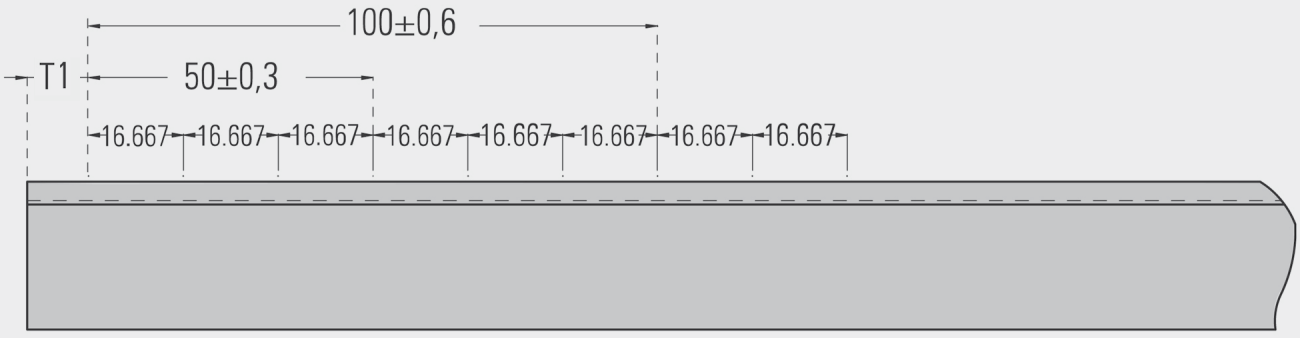




T = 33, 50, 66, 83, 100




T = 50, 66, 83, 100




Roller edge – Tolerances

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series RL 30

## Roller Edge

The rolls are made of high quality thermoplastics (Polypropylene), impact resistant and break-proof. The material is acid and base resistant and does not absorb humidity. The rolls can be easily exchanged. The roller edge with steel axle is designed for easy traveling and low noise material flow. This edge is a solid, variable and economic solution for different logistic ranges of application.

**Edge Material:**

Cold profiled, sendzimir galvanized steel, thickness 1,5 mm

**Version:**

with standard rollers

with wheel flange rollers

**Length:**

Upon customer's request (max. 6500 mm)

**Divisions:**

33, 50, 66, 83, 100 mm …

The divisions stated in the catalog are only approximate. The exact hole matrix of the roller edge is 16,667 mm ± 0,1 mm. Please state the desired division in your order and observe the stated tolerances.

If no special tolerance (T1) is ordered, the roller edges are always assembled to make sure that no roller stands out from the edge.

However, the roller commencement varies by the roller division. If the commencement should be at a precisely specified dimension, additional cutting costs will be charged.

If the roller commencement (T1) (center of axle) shall be precisely specified , this dimension can only be observed on this side. For the other side only a dimensions can be indicated that matures according to the length of the roller edge with the tolerances of the hole divisions (max. up to ± 8,5 mm).

**Load of the rollers (Bearing Steel axle):**

12daN[kg]

**Load of the Roller Edge:**

Results from the section modulus in the main load level of 1,2 $cm^3$.

**Temperature Range:**

–30 °C to +100 °C

**Accessories:**

Individual rolls, stop device, friction delaying stop device, connector – consisting of a U-profile mounted by 4 screws below the roller edge.

**Special Designs:**

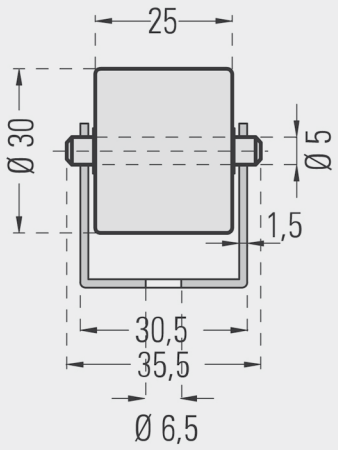
Deep freeze version from –30 °C

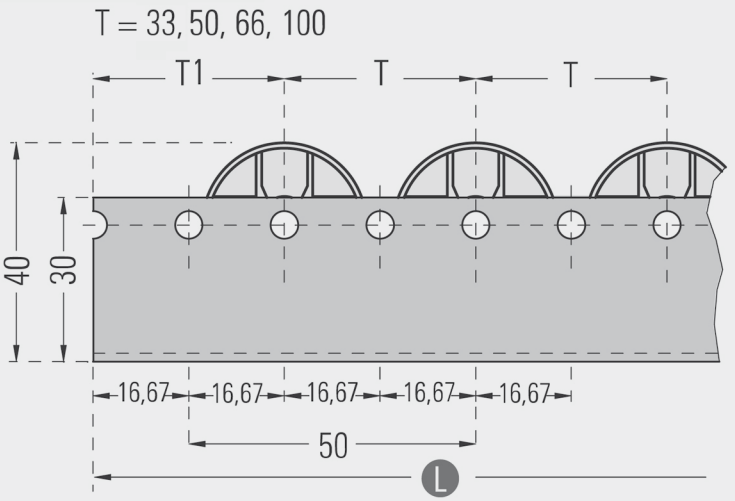
with high conductive rollers (black) to avoid static loads

Axle and profile of stainless steel

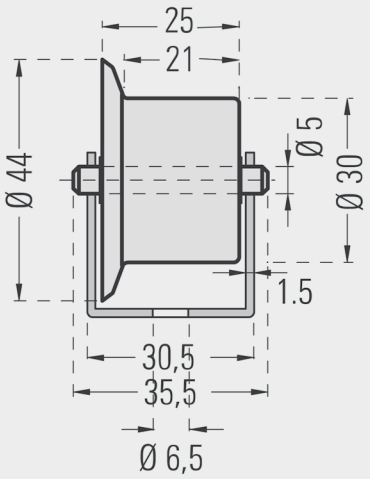
Axle only of stainless steel

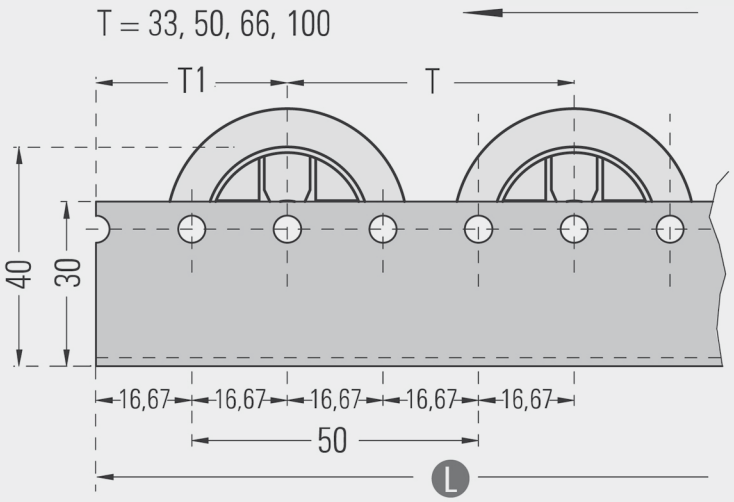
Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice



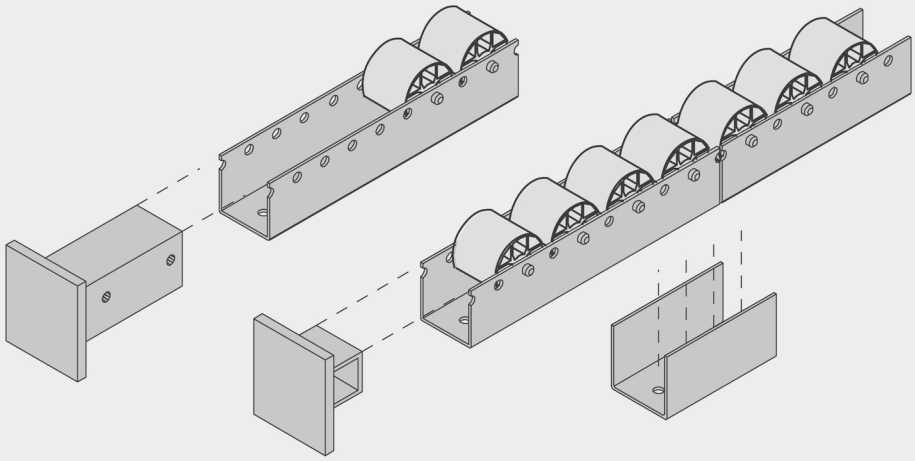




movement direction




stop device
delaying stop device
connector



Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

# TRAPOROL

## Series RS

## Palet Roller Rail

The pallet roller edge is the most economical solution for cross pallet transport. It is mainly used for flow racks and flow storage. The supporting profile is made of steel with high flexing and torsional strength. Hole lines (two) in the bottom of the profile are designated to fix the edge on a supporting construction. The ball bearings of the galvanized steel support rollers are maintenance free and have a long lifecycle. Die Kugellager der verzinkten

**Profile Material:** Sendzimir galvanized steel edge

**Measures:** 55 x 80 x 3 mm

**Version:** Galvanized steel rollers ø 50 mm

Galvanized steel rollers ø 50 mm with guiding disk (FSV) Bearing of the rollers on a steel axle incl. safety nut M8x90 A.

**Length:** Upon customer's request (max. 6500 mm)

**Divisions:** 52, 78, 104, 130, 156 mm …

The divisions stated in the catalog are only approximate. The exact hole matrix of the roller edge is 16,667 mm ± 0,1 mm. Please state the desired division in your order and observe the stated tolerances.

If no special tolerance (T1) is ordered, the roller edges are always assembled to make sure that no roller stands out from the edge.

However, the roller commencement varies by the roller division. If the commencement should be at a precisely specified dimension, additional cutting costs will be charged.

If the roller commencement (T1) (center of axle) shall be precisely specified , this dimension can only be observed on this side. For the other side only a dimensions can be indicated that matures according to the length of the roller edge with the tolerances of the hole divisions (max. up to ± 8,5 mm).

**Load of the rollers:** 150 daN [kg]

**Load of the roller edge:** Results from the section modulus (Wy) in the main load level of 4,6 $cm^3$.
(Iy: 17 $cm^3$)

**Accessories:** Stop device, abrading stop device, roller protection,

connector U profile 55 mm, lateral links (2 pieces),

fitting clamp with screw,

fitting clamp for hollow chamber profile, slide back lock,

set of anchor fittings without anchors for approx. 2500 mm long roller rails with 2,25% decline, set of anchor fittings for floor mounting 2500 mm,

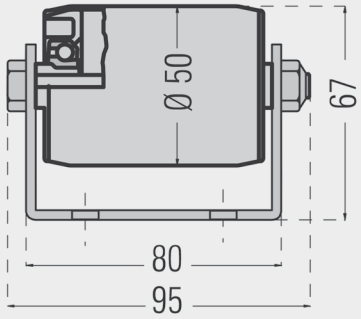
set of anchor fittings without anchors for approx. 3700 mm roller rails,

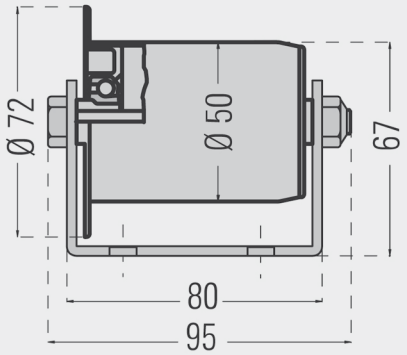
set of anchor fittings 3700 mm, anchors MAS 12/25

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

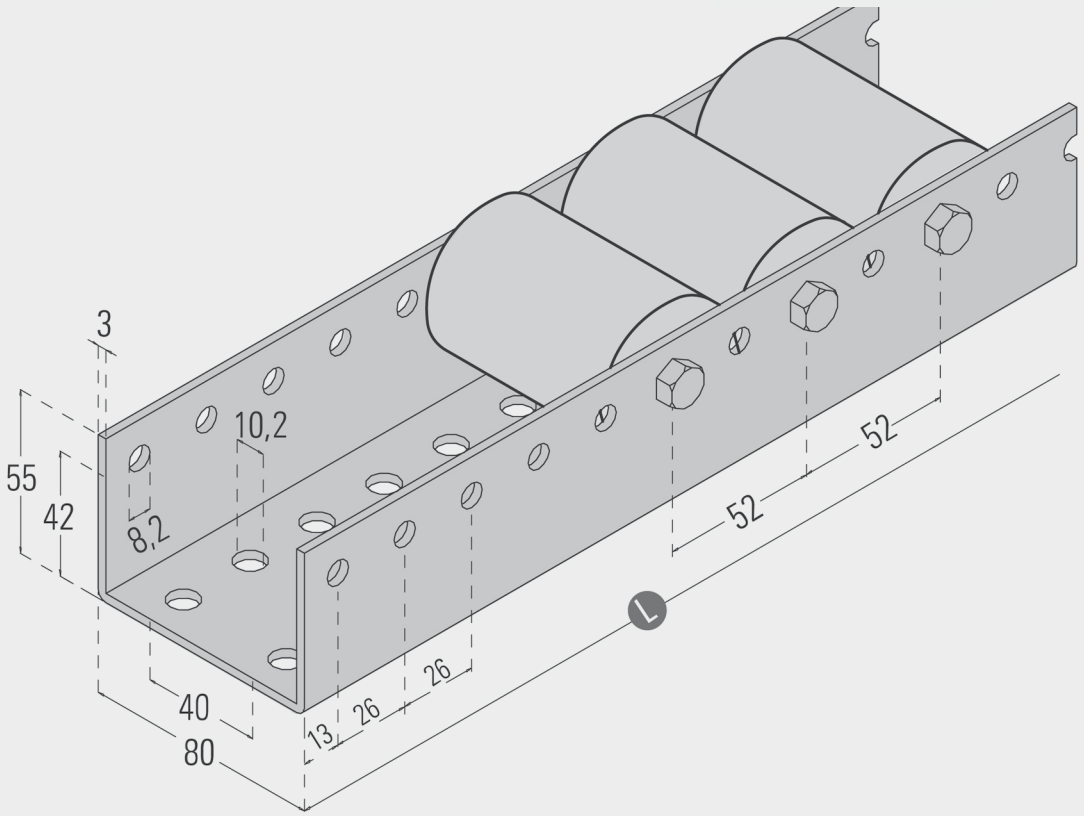
# Palet Roller Rail

## Series RS




with FSV

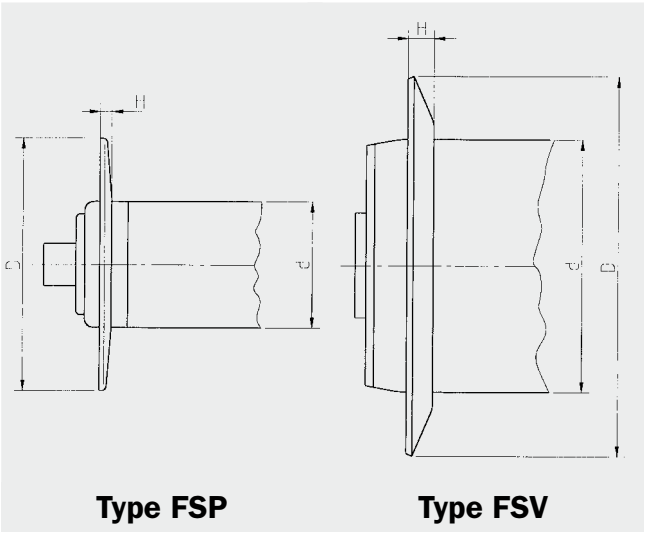



Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice

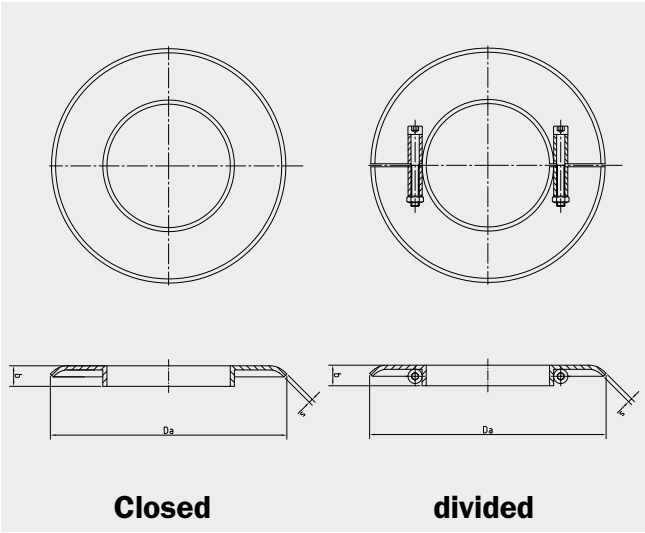
# TRAPOROL

## Series FS

## Guide disks




Type FSP Type FSV



Closed divided

### Standard Lengths

| Type | d | D | H | Material |
|---|---|---|---|---|
| FSP | 30 | 60 | 6,5 | Plastic |
| | 40 | 60 | 6,5 | |
| | 40 | 73 | 10 | |
| | 50 | 70 | 6 | |
| FSV | 50 | 70 | 6 | Steel/galvanized |
| | 60 | 110 | 10 | |
| | 63,5 | 130 | 14 | |
| | 80 | 130 | 14 | |
| | 80 | 150 | 14 | |
| | 88,9 | 130 | 14 | |
| | 88,9 | 150 | 14 | |
| | 108 | 160 | 14 | |

**Special Designs:** **FSV from Solids Stainless Steel**

Technische Änderungen vorbehalten (02/2019)
Specifications subject to change without notice