OVEsteel
OVErubber

OVESTEEL

OVESTEEL is a company for design and manufacture of all kind of conveyor rollers, idler and all other part that are using in these technology

INNOVATION AND TECHNOLOGY

OVESTEEL always ahead in thechological innovation, being large resources constantly invested in research and development.Excellent characteristic, continuous innovation, reliability, design, strict adherence to the international standarts are the secret of OVESTEEL's growing success.

PRODUCT CARE

Severe controls in the entie manufacturing process, from incoming material reception to the final strict computerized quality checks on the finished product, ensure the maximum care in the production, fully satisfying the Total Quality criteria; as a matter of facts OVESTEEL, reached the prestigious ISO certifications.

PEOPLE

People are no doubt number one rosource for OVESTEEL and a strong team spirit-easily detectable at all levels in the entire organization-characterizes anybody working in OVESTEEL. All customers, dealers and after sale service centers become real partners for OVESTEEL. The company philosophy committed to establish a solid and long lasting realtionship, as in a partnership, with all dealers and users of OVESTEEL products.

QUALITY POLITICS

International Organization for Standardization

OVESTEEL is mainly interested in manufacturing different kinds of rollers and other product of like this technology. The goal of our company to ensure the quality of our products, provisions and to fulfill our customers' need.

In order that our employees are engaged in doing their best to achieve the best quality. We use as good material as we can so as to produce reliable equipments and up-to-date solutions are applied. Quality management is very important to the leaders of the company and also to the employees. Everybody is rensponsible for his/her job and has to do the best for the contentment of the customers. Our documentation system is regularly updated to keep step with newer and newer demands. We give chance to our colleagues if they have ideas how to improve the company and coniniously interview them to check if they are satisfied.

Our company is customer centric. We do our best to suit the customers' requirements. If it's needed we develop our technology and producing system. The colleagues are continiously trained also we repeatedly check the tidy and clean workstations. Additionaly we stand out for protecting natural environment.

OVESTEEL goes for reputation, appreciation and deserved result with its provisions.

CERTIFICATION AND STANDARTS

EN ISO 14001:2004

CERTIFICATE

TÜV AUSTRIA

Management system as per
EN ISO 14001:2004

In accordance with TÜV AUSTRIA CERT procedures, it is hereby certified that

OVE STEEL DOO Gostivar
s. Negotino-Polosko, Industriska Zona
1238 Vrapciste
R. Macedonia

applies a management system in line with the above standard for the following scope

production and sales of conveyer rollers

Certificate Registration No. 20 104 141400058 Valid until 2017-10-24

Certification Body at TÜV AUSTRIA CERT GMBH

Vienna, 2014-10-25

This certification was conducted in accordance with TÜV AUSTRIA CERT auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA CERT GMBH Krugerstraße 16 A-1015 Wien www.tuv.at

EN ISO 9001:2008

CERTIFICATE

TÜV AUSTRIA

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Certificate Registration No. 20 100 141400057 Valid until 2017-10-24

Certification Body at TÜV AUSTRIA CERT GMBH

Vienna, 2014-10-25

This certification was conducted in accordance with TÜV AUSTRIA CERT auditing and certification procedures and is subject to regular surveillance audits.
TÜV AUSTRIA CERT GMBH Krugerstraße 16 A-1015 Wien www.tuv.at

OHSAS 18001:2007

CERTIFICATE

TÜV AUSTRIA

Management system as per
OHSAS 18001:2007

In accordance with TÜV AUSTRIA CERT procedures, it is hereby certified that

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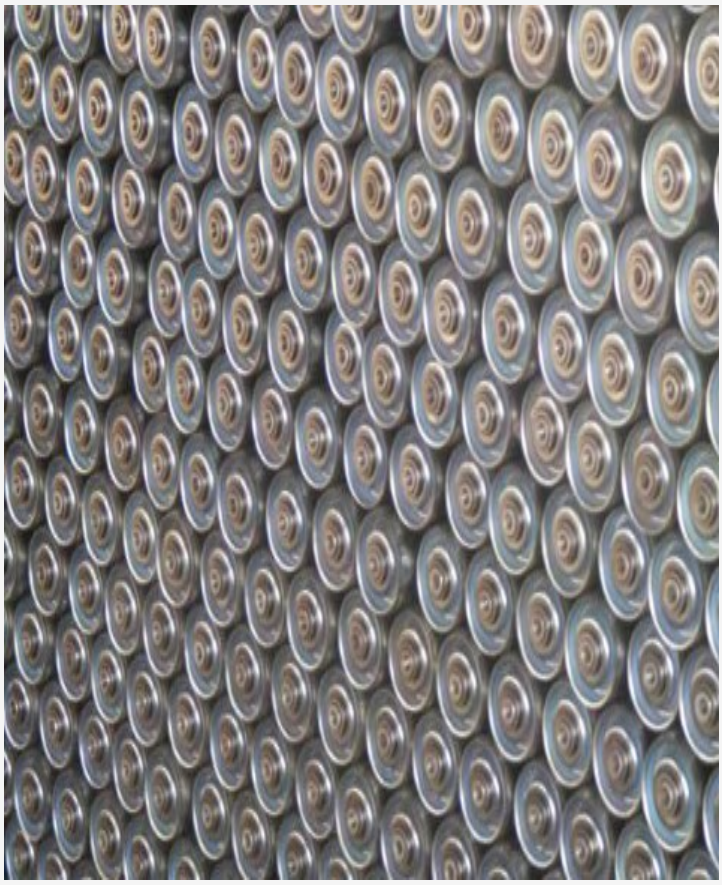
INTRODUCTION

COMPANY

OVESTEEL is a leading supplier of quality engineered conveyor idlers and accessories. The company's aim is to provide high quality engineered products to markets at internationally competitive prices. We have partnered world renowned manufactures to help deliver this philosophy. OVESTEEL engages to develop a quality roller that met the most used standarts ISO and DIN. With major capital investment the company produces a well regarded quality product for the global market and continues to invest in up to date machinery and improvements in manufacturing techniques to deliver cost effective quality products into the future.

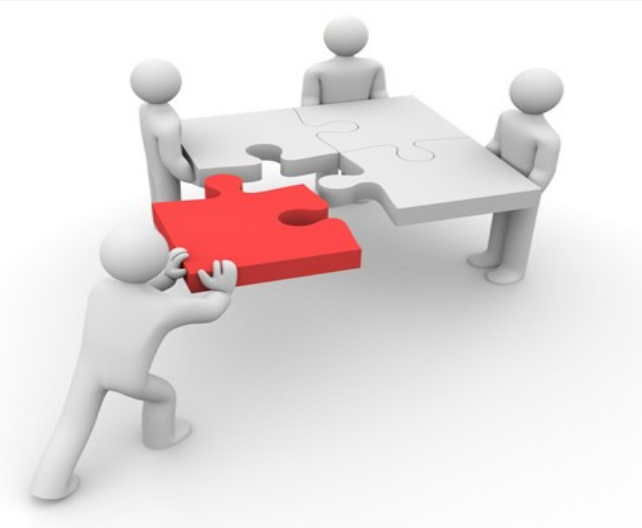


OUR CAPABILITY

With our modern manufacturing facilities, we have the capability to deliver:

- Concept engineering, budget preparation, risk assessments and project feasibility costings
- Functional specification and conveyor design
- Comprehensive range of conveyor equipment
- Access to all brand specified components
- Engineering and technical services support
- Testing and refurbishment facilities
- Pre-assembled product inspections prior to delivery
- Site services including installation, supervision, equipment commissioning and routine maintenance
- Integration of equipment with other original equipment manufactured sites
- Operator training and assessment

INTRODUCTION



FOREWARD

Products listed in this catalogue are intended for following purposes:

- spare parts for belt conveyors already in operation
- assembly components for manufacturers of complete belt conveyors

General instructions for using this catalogue when specifying your particular needs it is necessary to take especially following points into consideration:

- transport belt width
- width of the supporting structure, in case of garland stations also the type of suspension onto belt conveyor supporting structure
- working environment where the rollers are to be used

Surface finish and ordering examples are mentioned in every catalogue sheet. Beside length options offered in our catalogue we are also ready to manufacture other lengths according to your particular requirements and assignment.

GOALS AND OBJECTIVES

To deliver engineered products designed to meet the requirements at a competitive price. Maintain high levels of quality both in product and services. Attract new bussines by applying our technical and design skills, along with our international manufacturing network to deliver on major projects. Provide valued costumer service both technical and by providing cost effective replacement parts within a reasonable time frame. Develop strategic partnership to improve performance and reduce costs. OVESTEEL's global network give us access to the most up to date technologies, manufacturing processes and design capabilities available in the world today. This enables us to deliver the highest quality products and services to our customers.

Our commitment to our costumers is to work together to deliver a quality product with a positive cost effective outcome. OVESTEEL is proud of the innovative developments of the idler roller. OVESTEEL roller directly addresses the inherent problems associated with conventional idler rollers, and in doing so provides an environment, personnel, and equipment friendly roller with low noise emissions, ease of handling, and low vibration, coupled with an extremely long service life. OVESTEEL idler roller is designed for conveying applications where long life, low noise emission and low vibration are paramount.Rollers are continually developed to suit the exact requirements of each client to obtain the most effective roller possible.

OVESTEEL company brings together world class practices to deliver a high quality Hi speed balanced roller, suitable for today's heavy mining practices with large tonnage and high speed conveyors. We focus on the fundamental elements that provide suitable idler for each application.

PERFORMANCE

OVESTEEL rollers are also manufactured in an extra low weight version, which is predominantly used for long trough and return idler rollers. With this technology, single roll return rollers that normally weigh 50 kg can now be manufactured with a mass of no more than 21 kg. This is achieved by using our hollow shaft design. These are being mainly used on stacker / reclaimers and ship-loading facilities where accessibility is restricted and personnel need a light product to prevent injury.
OVESTEEL rollers have on average a 10 dBA lower noise emission than conventional conveyor rollers. They have been designed to operate with reduced noise and vibration emission, which makes them suitable for applications where proximity to populated buildings and areas is a concern.
The OVESTEELl roller can be considered a long life roller that outlasts conventional idler rollers in harsh conditions. OVESTEEL rollers are currently installed in ship-loader facilities and are performing well. Several of our clients use our rollers to transport corrosive material and enjoy lengthier change-out frequencies than they would otherwise experience. The OVESTEEL idler roller has been site tested without incident and during that time significant enhancements have been made to further improve sealing efficiencies and ultimate roller life. We believe our rollers are the right choice for operations interested in reducing the total cost of ownership through extended service life and reduced change-out schedules.

FEATURES

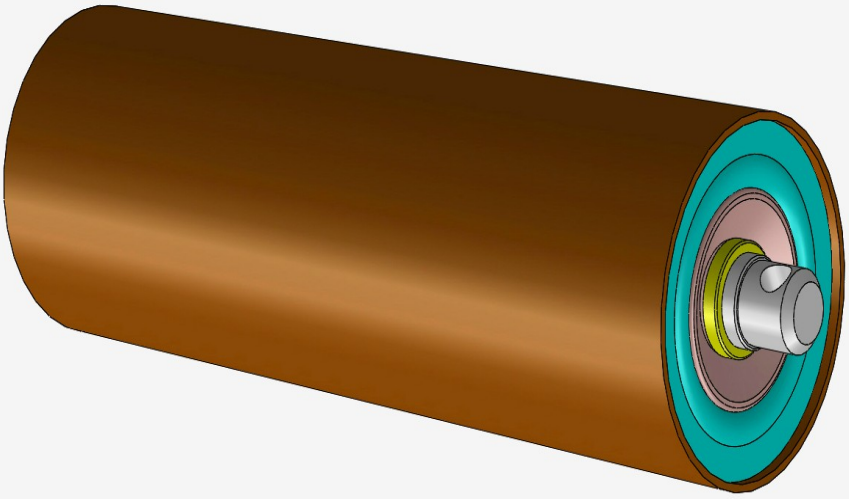
- Long bearing life using multiple integral sealing and synthetic lubricants.
- Polymeric end housings highly resistant to degradation from stress and weathering.
- Maintenance free operation.
- Low noise and vibration emissions.

INTRODUCTION

MANUFACTURING METHODOLOGY

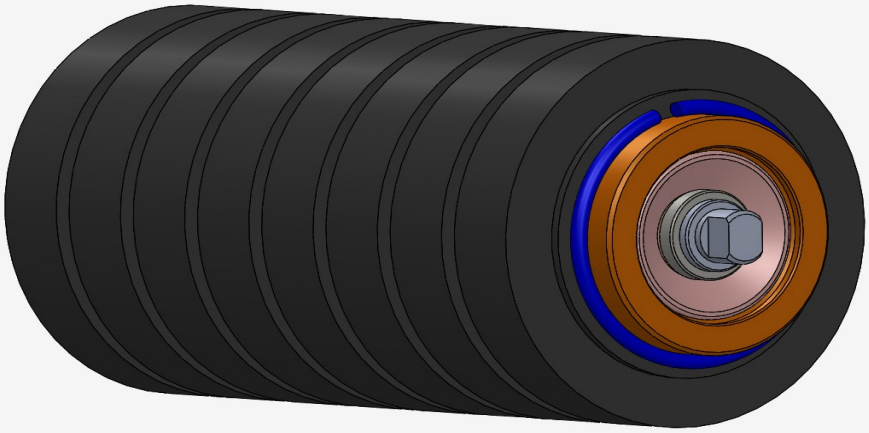
- Rollers are manufactured from dedicated production lines
- Rollers are manufactured from precision tube
- Tubes are machined on modern automated equipment
- Rollers include precision pressed bearing housings
- Shafts are manufactured from cold rawn shafting materials
- Roller series' incorporating larger diameter stepped shafts to eliminate deflection under load
- Rollers are automatically welded to ensure weld quality and balance on every roller
- Bearings and seals are machine fitted to ensure precision alignment
- Rollers are tested for run-out, rotational force and balance
- Rollers are fully painted externally to reduce corrosion and improve appearance
- Rollers are individually packed in plastic sleeves to eliminate damage during transport or storage

ROLLERS

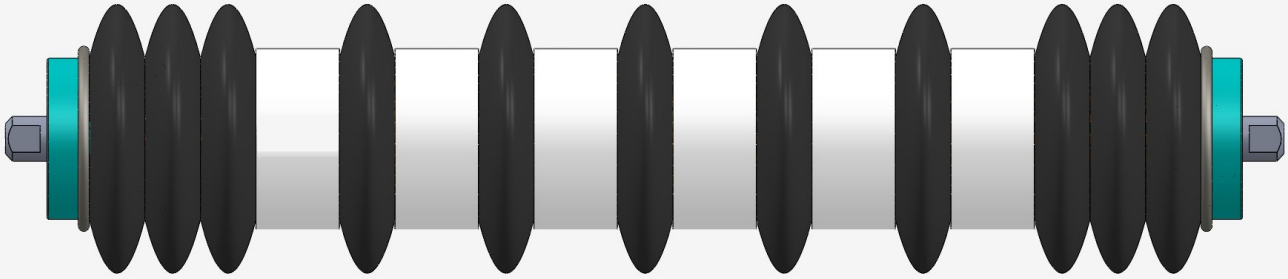


ROLLERS

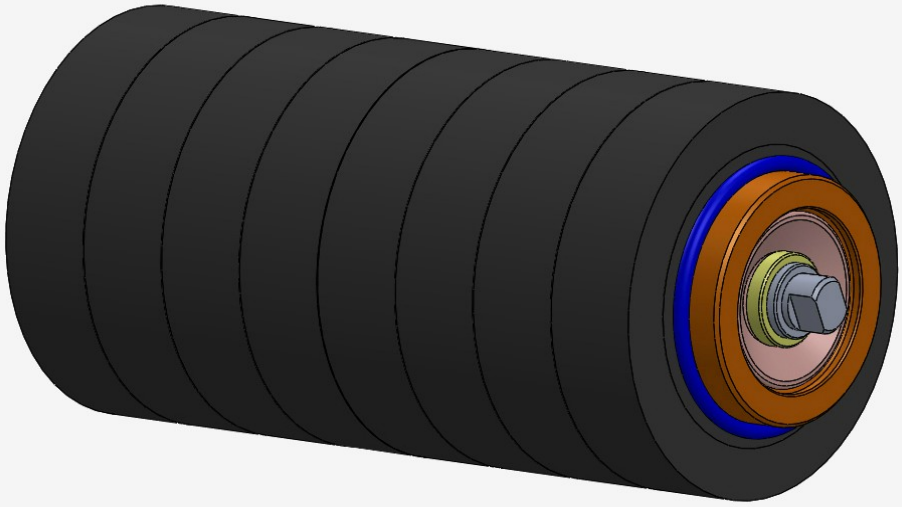
OVESTEEL rollers are robust assemblies of carefully fabricated shells and precision bearings fitted to high tolerance shafts. The OVESTEEL Standard roller range matches the shell, shaft and bearings into a sound unit for a variety of applications.
OVESTEEL carry a large range of rollers to suit most conveying applications. This enables the customer to receive the most cost-effective solution.



Installations include coal, gold, platinum, diamond and copper mines, shiploading terminals and long high capacity conveyors throughout the world. The centrifical self-cleaning action of the seals ensure that bearings are able to achieve the design life. The grease-free sealing system results in much lower friction values than conventional designs. Rollers are engineered to give a balance between effective sealing and low roll drag and breakaway mass and are manufactured with accurate bearing alignment. Rollers are available in a variety of lengths, standard diameters, shell thicknesses and a range of shaft diameters and end fitting arrangements.



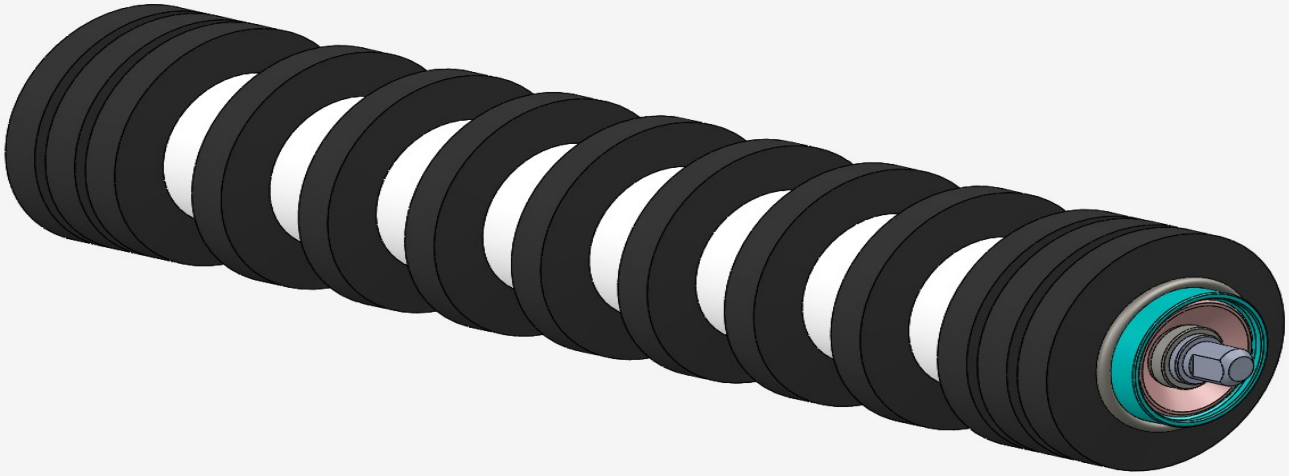
ROLLERS



Support the belt and are guaranteed to rotate freely and easily under load. They are the most important components of the conveyor and represent a considerable value of the whole cost. The correct sizing of the roller is fundamental to the guarantee of the plant efficiency and economy in use.

The rollers, manufactured to the standards of the trade, must offer the following prerequisites:

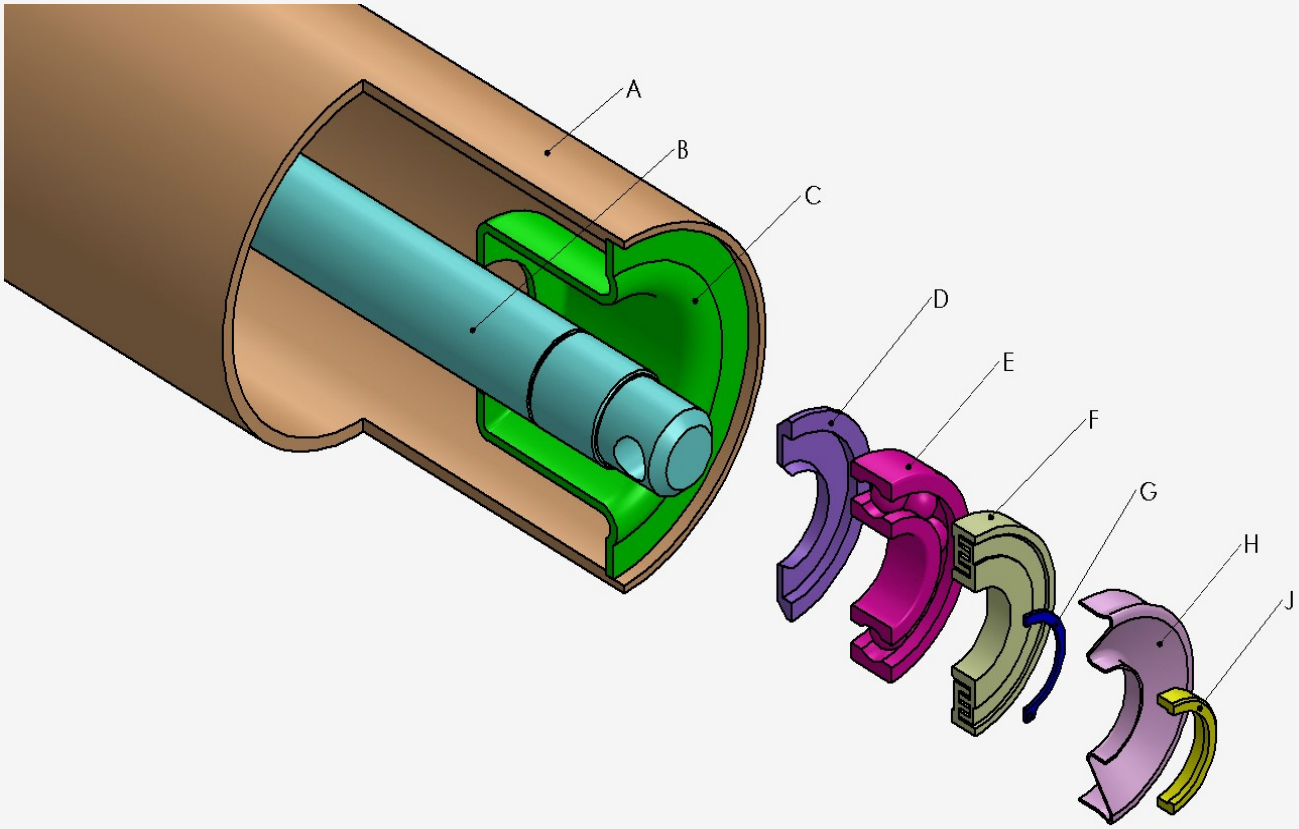
-be made in compliance with ISO STANDARDS;
-employ quality material and bearings;
-possess effective bearing protection against external agents.



OVESTEEL standard rolls are designed on sound engineering principles with particular attention to achieving:

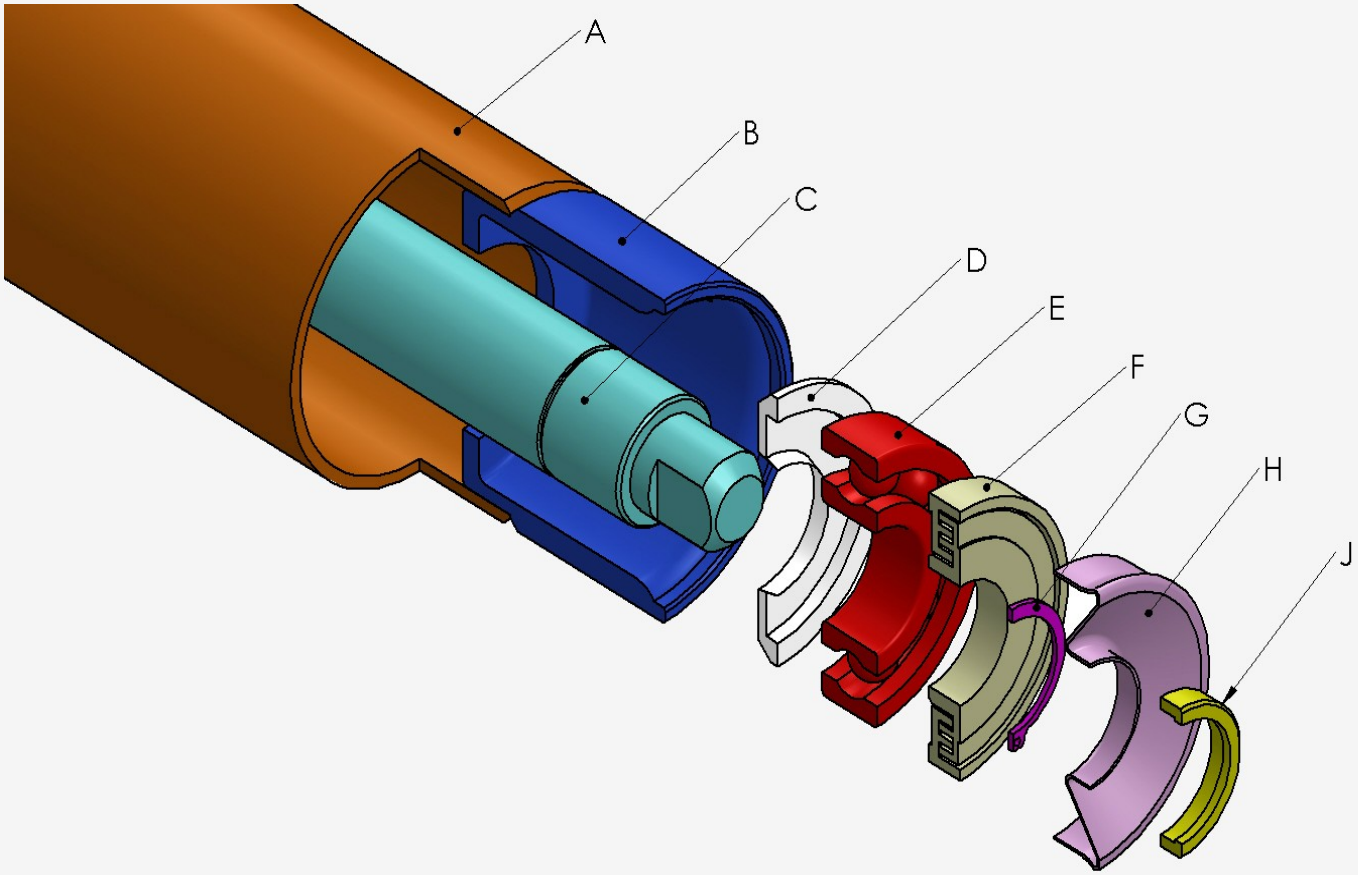
- better balance
- increased bearing life
- less shell wear
- reduced power consumption
- lower vibration levels
- and quieter running

ROLLER CONSTRUCTION WITH PRESSED BEARING HOUSING



A	**ROLLER TUBE**
B	ROLLER SHAFT
C	BEARING HOUSING
D	REAR SEAL
E	BEARING WITH C3 CLEARANCE
F	LABYRINTH SEAL - MALE AND FEMALE
G	CIRCLIP
H	COVER CUP
J	DUST SEAL OUTER PROTECTIVE SHIELD

ROLLER CONSTRUCTION WITH MASSIVE BEARING HOUSES



A	**ROLLER TUBE**
B	BEARING HOUSING
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F	LABYRINTH SEAL - MALE AND FEMALE
G	CIRCLIP
H	COVER CUP
J	DUST SEAL OUTER PROTECTIVE SHIELD

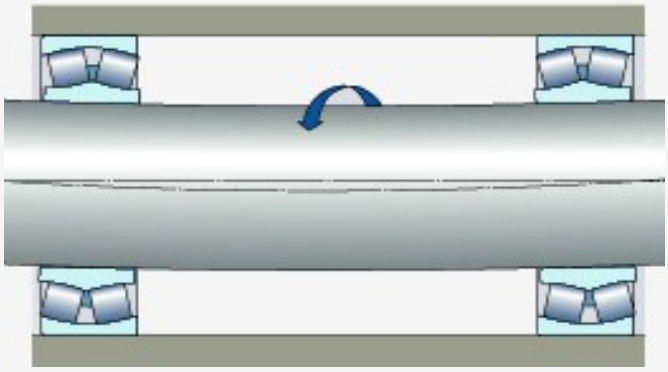
ROLLERS

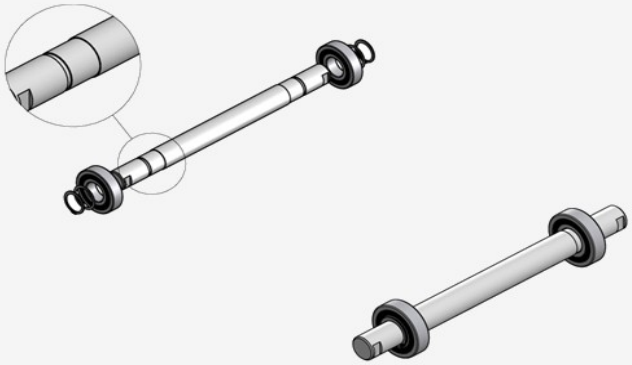
ROLLER TUBE

Consists of a steel tube of adequate thickness and diameter to match the required use. Steel material is quality as per EN 10219-1 by S235JRH or EN10216-1 by P235TR 1 and EN10216-2 1; DIN2448. Wall thickness corresponds to the loading and operating conditions the roller is subjected to and is optimised by FEM calculations and verified by long-term testing.

It is the external diameter of the roller that is in contact with the conveyor belt. It consists of a steel tube produced according to standards, with particular reference to tight tolerances and specific particulars. The tube is cut and machined using automatic numerically controlled machines, that guarantee and maintain the tolerances and the precision of the square cut.

All the tubes used by OVESTEEL have:
-reduced external diameter and thickness tolerances;
-good roundness;
-high degree of straightness.





SHAFTS

This is the component which sustains the roller when it is assembled into the troughing set supports. It has quality material C45 as per EN 10083-2. It is made from drawn steel, cut and machined by automatic numerically controlled machines. The spindle is centreless ground to a tolerance ISO h6 at the extremities, corresponding to where the bearings and seals are fitted, to guarantee a perfect match and optimum performance.

Particular attention is given to the bearing seat machining and seal location. The shaft end also has the manufacture date stamped on the end. Shaft retention is positive using circlips at both ends to prevent the shell from “walking off” the shaft. This allows the rollers to be installed in the wing location in any orientation without fear of movement. The clearance at the circlips permits the “shaft -sliding” during expansion and contraction.

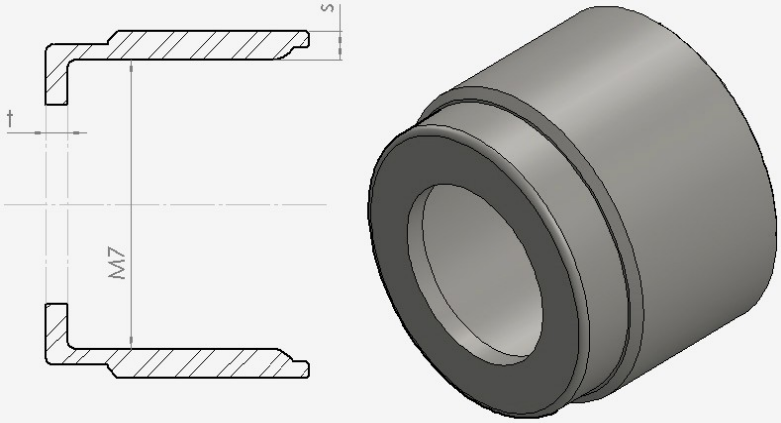
Shaft is the load carrying component of the roller and must be sized in relation to the load and the roller length. It is important not to overload the roller due to the resultant excessive deflection of the spindle which in turn places irregular pressure on the bearing, and reduces, as a consequence, the roller life. A common cause of bearing failure is excessive shaft deflection. OVESTEEL roller designs limit the extent of deflection to within the allowable limits of the bearing. Shaft diameters are selected for the idler assembly under full load operating conditions.

CIRCLIPS

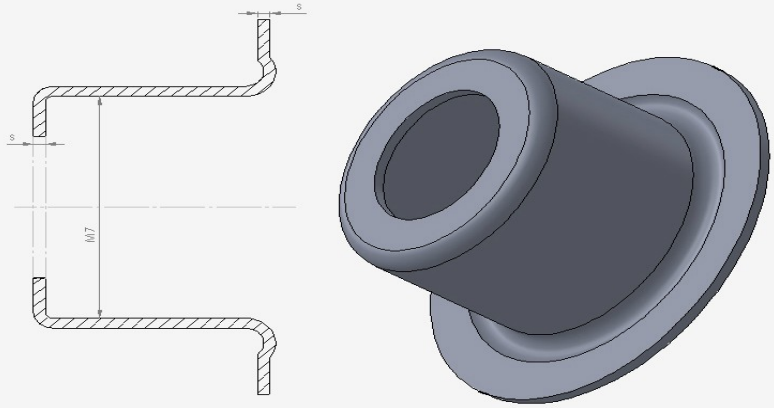
Manufactured from hardened spring steel, prevents axial movement of the shaft.

BEARING HOUSING

The fabrication of the bearing housing consists of a multi-stage precision automatic pressing operation, which provides such a high degree of accuracy for bearing and seal location that no further machining is necessary. The idler shells and end housings are fully fillet welded in a special double-ended automatic circumferential welding machine, which gives a minimum of 70% weld penetration and ensures that the shell tubing is concentric at the ends during the welding process, thereby ensuring minimum run-out for the roller. All welds are smooth and free from imperfections etc. It is a steel structure, deep drawn and sized to a fine tolerance ISO M7 at the bearing position, This tolerance is necessary to guarantee the optimum assembly of the bearing by ensuring that it is square to the spindle of the roller. The thickness of the housings is proportional to the spindle diameter and to the bearing type, to guarantee the maximum strength for each application, including the heaviest. Material that is used for bearing housing is D13 as per EN 10111. OVESTEEL produce and massive bearing houses. Massive bearing houses obtained by some machining process of steel thick tubes.

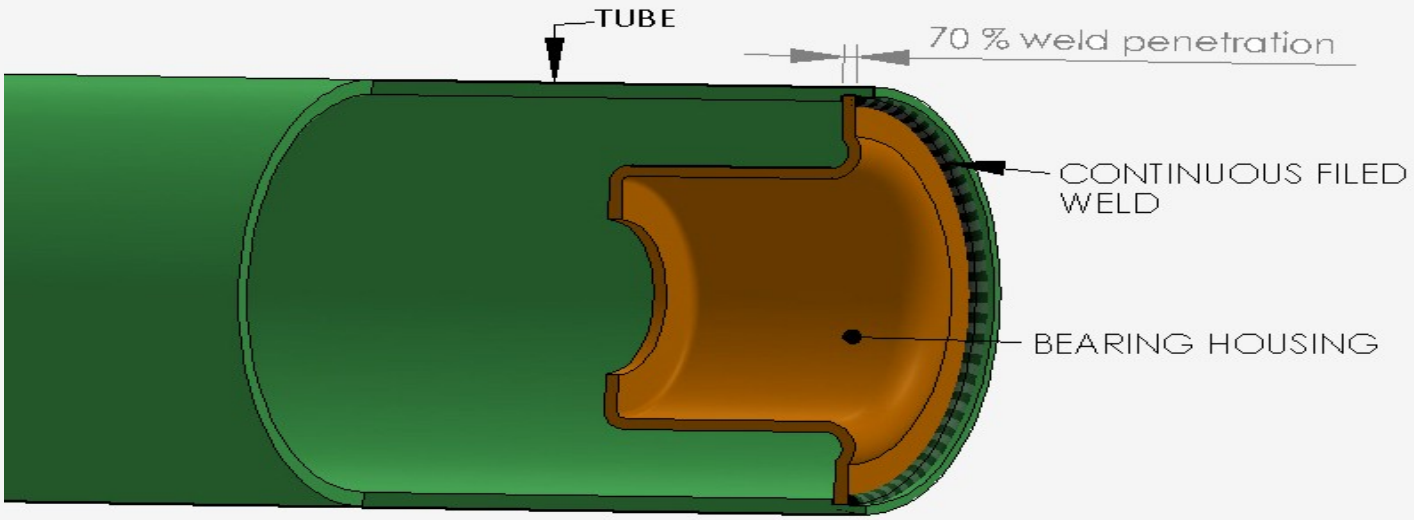


MASSIVE BEARING HOUSING
for roller with diamater 133 mm and smaller than 133 mm



PRESSED BEARING HOUSING
for roller with diamater bigger than 133 mm

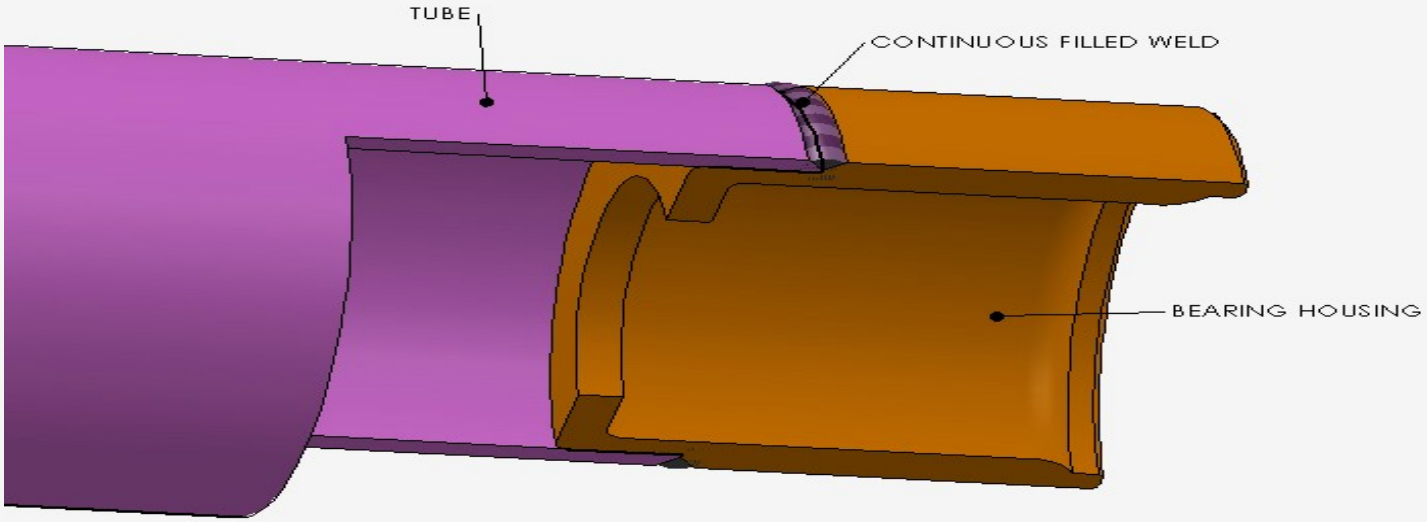
WITH PRESSED BEARING HOUSING



BEARING HOUSING TO TUBE WELD DETAILS

Precision drawn end caps are welded to the tube with purpose-built machines. The shell tube is clamped at the ends during welding to maintain concentricity and minimize distortion. The result is minimum run-out, high balance quality rolls are produced.

WITH MASSIVE BEARING HOUSING



BEARING

Rollers are fitted with name brand SKF, NSK, FAG, type ball bearings with a C3 internal clearance unless otherwise specified. The bearings are greased for life with suitable lithium based grease. This offers minimum roller drag and gives maximum resistance to water wash out. Expansion and contraction is made possible by 0.25mm maximum clearance at the circlips, allowing the shaft to slide in the bearing inner race without loading up the balls on the outer race. The outer race is an interference fit in the housing to prevent the bearing prematurely wearing the housing. These are the parts which give virtually frictionless rotation to the tube body with respect to the fixed spindle. Precision bearings only are used. They are the radial ball race type of the series : 6204, 6205, 6305, 6206, 6306, 6308, 6310, 6312 with internal play tolerance C3, ideal for applications of rollers used for belt conveyors. All conveyor idler rolls require the bearing and shaft assembly to operate under deflection conditions. The shaft is only supported at each end and therefore must accept the load from the shell to the bearings at each end. This results in shaft bending and angular deflection at the bearings.

GREATER BEARING LIFE

There are a number of principles that need to be followed to achieve increased bearing life. It is important that the shaft diameter be designed to incorporate the following load components:

Carried Material
Flooded belt loading
Belt Mass

As the shaft is only supported at each end it must also accept the load from the shell to the bearings at each end. It is critical to minimize the angular deflection at the bearings. Bearings used are heavy duty anti-friction single row deep groove precision ball bearing type with C3 internal clearances, bearings are sealed for life packed with lithiumbased grease.

SEALING

A quality roller is characterised by its effective sealing system. Scrupulous research tests and, above all, the practical plant experience in the most variable environmental situations, has made it possible to develop a particular sealing that guarantees optimum bearing performance. The bearing is protected, on the external and internal side of the roller, by seals which withhold the lubricant and at the same time prevent the entrance of contaminants. Made of reinforced and shock-modified polyamide resin. A proper reserve of lithium grease gives full-life lubrication to the bearings and labyrinth seals. All OVESTEEL rollers incorporate multi-labyrinth sealing to protect the bearings. The grease filled multi-labyrinth seal retards the ingress of contaminants to the bearing. The bearings on the OVESTEEL series are protected from foreign material ingress on the external and internal side of the roller by labyrinth seals, greased with a suitable Lithium-based grease. Starting from the external side, the various protective elements are:

- a protective anticorrosive shield located firmly on the shaft which acts as a barrier against the entry of foreign particles
- a very low friction rubber lip seal to prevent the entry of liquid
- a steel cover cap with a large chamber where any dust particle that might enter is trapped
- a labyrinth male preloaded with grease seal is installed
- a labyrinth female preloaded with grease seal covers the male labyrinth to form the last barrier of defence before the bearing
- a rear seal is fitted to protect the bearing from mill scaling and any internal contaminants.

LUBRIFICATION

All OVESTEEL rollers are self-lubricated for life. Adequate quantities of lithium grease per bearing, with its characteristics of high resistance to ageing, to corrosion and to water, are introduced into the spaces particularly designed into the sealing system. The grease used is a special lithium based grease with high resistance to ageing and humidity. The quantity introduced into the roller is sufficient to guarantee an optimum lubrication of the bearing for the working life of the roller. The grease used is specially formulated for its lubricating and sealing properties. A range of special greases are also available for extreme hot or cold climatic conditions. Operating temperatures -30° c to +130°c.

OPERATING CONDITIONS

- Transported material

Loose unsorted material with grain size and bulk density up to 2,1 t/m3. Informative grain size values (lump content up to 5 % max.)

- Working environment

Moderate climate WT in combination of chemical and mechanical pollution E41 (working temperatures -30°C to +50 °C)

B (mm)	400	500	650	800	1000	1200	1400	1600	1800	2000
Max grain size (mm)	100	150	250	300	400	500	600	675	750	800

- Storage

Rollers must be stored on pallets in an enclosed storehouse on hard surface. Storage temperatures are –30°C to +50 °C.

- Maintenance and assembly

Mounting of rollers into idlers structure may be performed only by persons appointed and instructed according to the conditions of the organisation performing the assembly or operation of the conveyor. Proper seating of rollers is to be checked by manual rotating before belt fitting in. Rollers are to be checked during operation. Rollers showing wheeze, poor rotation, and excessive heat must be immediately removed. Rollers showing increased radial and axial clearance, wear or deformed shell of rubber lagging must be replaced as well.

- Main dimensions

Specific data to sizes are provided in OVESTEEL catalogue sheets according to roller type.

- Radial run-out of roller surface

max. 0,007 D in flat rollers (max. 0,012 D in 5 % of the pieces)
max. 2 mm in disc, circular disc and rubber lagged rollers. The run-out increases with rubber wear. Possible requirements for rollers with lower run-out are to be specific in the order.

- Conveying Speed

Max. 4,5 m/s for belt width 400-1400 mm and rollers with bearing 6204
Max. 5,5 m/s for belt width 1200-1400 mm and rollers with bearing 6305
Max. 7,5 m/s for belt width 1200-2000 mm and rollers with bearings 6306, 6308, 6310 and 6312
On determining the max. speed for a specific application the roller diameter needs to be taken into consideration as this determines the number of revolutions at the given speed

- Rotational resistance (after 20 minutes run-in)

3 N for rollers 6204 series (for v = 4.5 m/s)
10 N for rollers of 63 series (for v = 5 m/s)

- Roller loading

Permissible roller loading follows from operating conditions mentioned above, that is belt width, bulk density, grain size of transported material and idler spacing. Middle roller loading in kg for belt conveyors during full belt load, bulk density of 2,1 t/m3 and stations spacing of 1 m:

B (mm)	400	500	650	800	1000	1200	1400	1600	1800	2000
Max grain size (mm)	17,5	28	50	91	134	200	274	368	470	589

- Roller service life

The average calculated service life of a roller (bearing stability) is 33 000 operating hours.
The service life applies provided that the operating conditions have been adhered to and that the roller was taken into operation within 1 year from the manufacturing date.

CHOICE OF DIAMETER IN RELATION TO SPEED

It has already been stated that one of the important factors to consider in the project design of a conveyor is the speed of the belt, in relation to the required conditions of transport. From the speed of the belt and the roller diameter one is able to establish the number of revolutions of the roller from the formula :

$$n = \frac{v \cdot 1000 \cdot 60}{D \cdot \pi}$$

where:
D = roller diameter [mm]
v = belt speed [m/s]
It is interesting, in the choice of the roller to note that a roller of large diameter will also imply a major start up inertia but may still be the choice, because there are many other advantages to satisfy other conditions. The correct choice of diameter must take into account the belt width.

MAXIMUM SPEED AND NUMBERS OF ROLLER REVOLUTIONS

ROLLER DIAMETER (mm)	BELT SPEED (m/s)	R.P.M n
63	2.0	606
76	2.5	628
89	3.0	644
108	4.0	707
133	5.0	718
159	6.0	720
194	7.0	689

ROLLER DIMATER ADVISED

BELT WIDTH (mm)	FOR SPEED ≤2 m/s Ø			FOR SPEED 2 – 4m/s Ø			FORM SPEED ≥ 4 m/s Ø		
500	89			89					
650	89			89	108				
800	89	108		89	108	133	133		
1000	108	133		108	133		133	159	
1200	108	133		108	133	159	133	159	
1400	133	159		133	159		133	159	
1600	133	159		133	159	194	133	159	194
1800	159	159		159	194				
2000	159	194	194	159	194		159	194	
2200	194			194			194		

CHOICE OF DIAMETER IN RELATION TO LOAD

The type and size of rollers to use in a belt conveyor depends essentially on the belt width, the pitch of troughing sets, and above all the maximum load on the roller under the greatest forces, notwithstanding other corrective factors. The calculation of this load is normally made by the plant project designer. Nevertheless, as a check or as in the case of straightforward conveyors, we would like to give you the following helpful fundamental concepts. The first value to define is the load on the troughing set transom. Following this, according to the type of troughing set their angle, the lump size of material and various other operating factors which are listed below ; one is able to determine the load that exists on the most stressed roller for each type of troughing set. Besides this, we may provide various corrective coefficients that take into account the number of daily working hours of the equipment (service factors), the environment conditions and the speed for different roller diameters. The load values obtained in this way may then be compared to the indicated roller load from the catalogue, valid for a project life of 33,000 hours.

SERVICE FACTORS	
WORKING LIFE	**F_S**
LESS THAN 6 HOURS PER DAY	0.8
FROM 6 TO 9 HOURS PER DAY	1.0
FROM 10 TO 16 HOURS PER DAY	1.1
OVER 16 HOURS PER DAY	1.2

ENVIRONMENTAL FACTORS	
WORKING LIFE	**F_m**
CLEAN AND WITH REGULAR MAINTENANCE	0.9
PRESENCE OF ABRASIVE OR CORROSIVE MATERIALS	1.0
PRESENCE OF VERY ABRASIVE OR VERY CORROSIVE MATERIALS	1.1

COEFFICIENT OF THEORETICAL BEARING LIFE						
PROJECT THEORETICAL WORKING LIFE OF BEARINGS	10 000	20 000	30 000	40 000	50 000	100 000
COEFFICIENT BASED ON 30 000 HOURS	1.440	1.145	1.000	0.909	0.843	0.670
COEFFICIENT BASED ON 10 000 HOURS	1	0.79	0.69	0.63	-	-

SHOCK FACTOR F_d							
LUMP SIZE	**BELT SPEED m/s**						
0 – 100 mm	1	1	1	1	1	1	1
100 – 150 mm	1.02	1.03	1.05	1.07	1.09	1.13	1.18
150 – 300 mm WITH LAYERS OF FINE MATERIAL	1.04	1.06	1.09	1.12	1.16	1.24	1.33
150 – 300 mm WITHOUT LAYERS OF FINE MATERIAL	1.06	1.09	1.12	1.16	1.21	1.35	1.5
300 – 450 mm	1.2	1.32	1.5	1.7	1.9	2.3	2.8

SPEED FACTORS F_V						
BELT SPEED	**ROLLER DIAMETER mm**					
m/s	**63**	**76**	**89**	**108**	**133**	**159**
0.5	0.81	0.80	0.80	0.80	0.80	0.80
1.0	0.92	0.87	0.85	0.82	0.80	0.80
1.5	0.99	0.99	0.92	0.88	0.85	0.82
2.0	1.05	1.00	0.96	0.94	0.90	0.86
2.5			1.01	0.97	0.93	0.91
3.0			1.05	1.01	0.96	0.92
3.5			1.09	1.04	1.00	0.96
4.0			1.14	1.07	1.03	0.99
4.5			1.18	1.14	1.05	1.02
5.0			1.23	1.17	1.08	1.04

RUNNING IN AND QUALITY CONTROL

When assembly has been completed the rollers are made to rotate to achieve uniform distribution of the grease in both bearings and labyrinth seals. Final testing includes dimension checks on the roller, as well as checks for smooth and silent running.

33,000 WORKING HOURS

The unique design of the totally hermetic seal consisting of inner seal, labyrinth, and centrifugal self cleaning chamber protects the bearing against possible entrance of contaminants, such as rain, dirt, dust, etc. with a minimum of friction drag. Life projection is 33,000 working hours or more depending on the load. The ideal static and dynamic balance of the OVESTEEL roller eliminates vibrations and bearing hammering and thus guarantees trouble- and noise free running even in high speed applications year after year.

LOW NOISE

Noise generation is becoming an increasingly important consideration as industry becomes more environmentally conscious. OVESTEEL have developed a range of alternative rolls to address this issue. Each application will be different and may require different roll solutions.

LOW STARTING AND ROLLING RESISTANCE

The OVESTEEL roller has low starting and rolling resistance for minimal power consumption and low cost operation. All rollers are tested to assure that, at a certain speed, the friction drag is not higher than the recommended value.
Low friction drag, reduces energy requirements, keeping production high and total operating costs low.

BALANCE

At high conveyor speed, the balance of the roller is of particular importance, especially when we consider the requirements of todays conveyor equipment. The out of balance force of a roller at low speed does not have a great effect, but when medium speeds are used, vibrations may be induced which may damage the bearings and which may some times make the roller jump out of its transom supports.

ROLLER SURFACE TREATMENT

End discs are solvent cleaned prior to the roller being rotated through our descaling and scuffing machine. The end discs are then sprayed with one coat of standard enamel paint and the tube is coated with anti corrosive enamel. Shells can be hot dip galvanised and ends treated with a corrosion protective system on request.

FINISH

OVESTEEL standard paint finishes include solvent washed and spray painted alkyd enamel on rolls.

COMMERCIAL SPECIFICATIONS

Order must include name, marking, number of pieces, possibly special

PACKAGING

Another type of packaging is to be discussed with the sales department and specified in the order. Every pallet is provided with a hangtag containing roller name and size, order number, marking and number of pieces. After quality assurance inspections have been completed, rollers are packed for transport and storage. Suitable protection shall be provided for parts subject to exposure to the elements during storage on site or against damage to surfaces during installation. Packaging Specification can be tailored to customer requirements.

GUARANTEE PERIOD

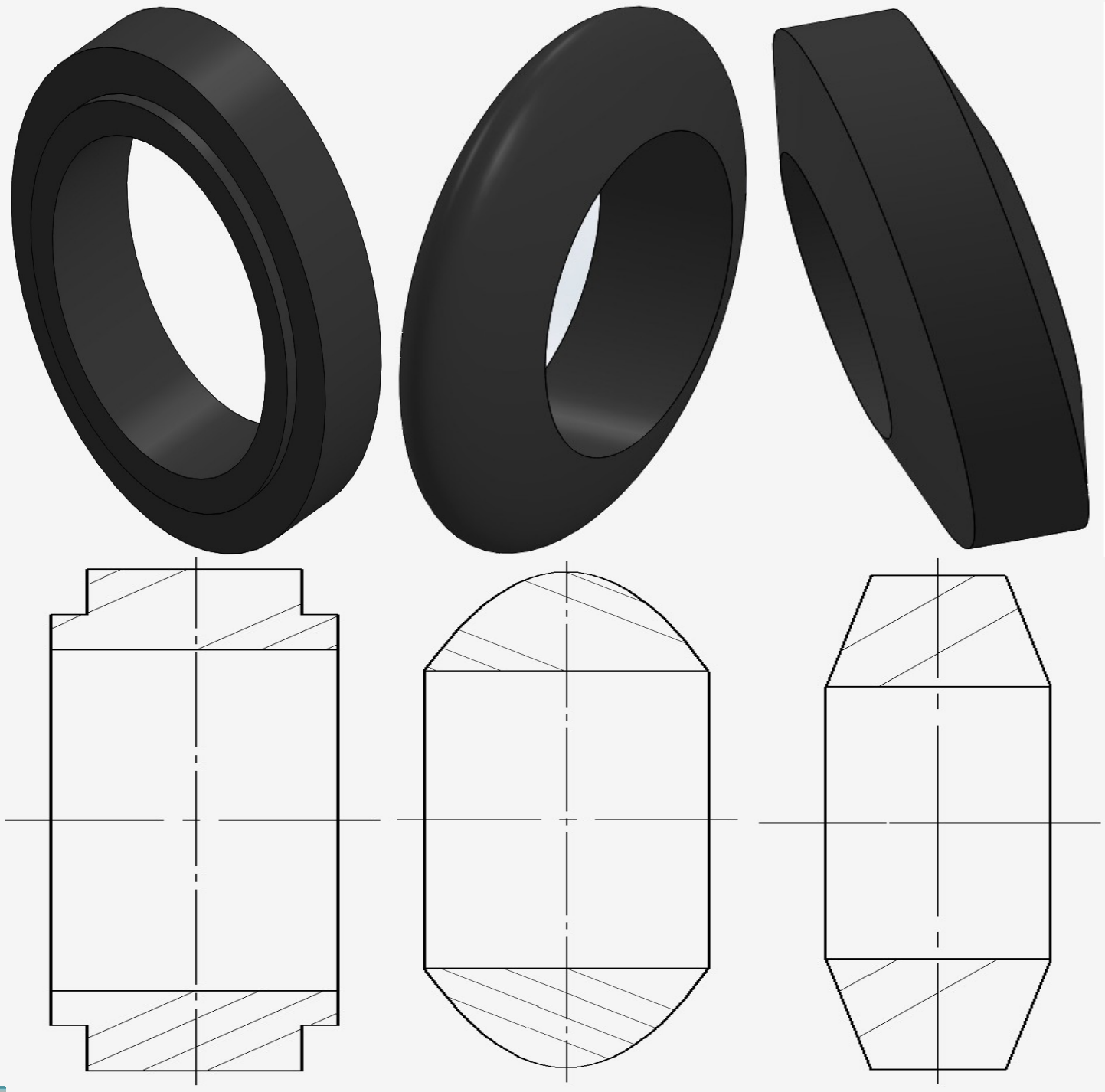
If complied with all provisions of these Technical Specifications the manufacturer provides guarantee for 24 months from the date of entry into operation.

FIELD OF APPLICATION

- Coal
- Steel
- Energy
- Chemical
- Fertiliser
- Glass
- Cement
- Mineral extraction

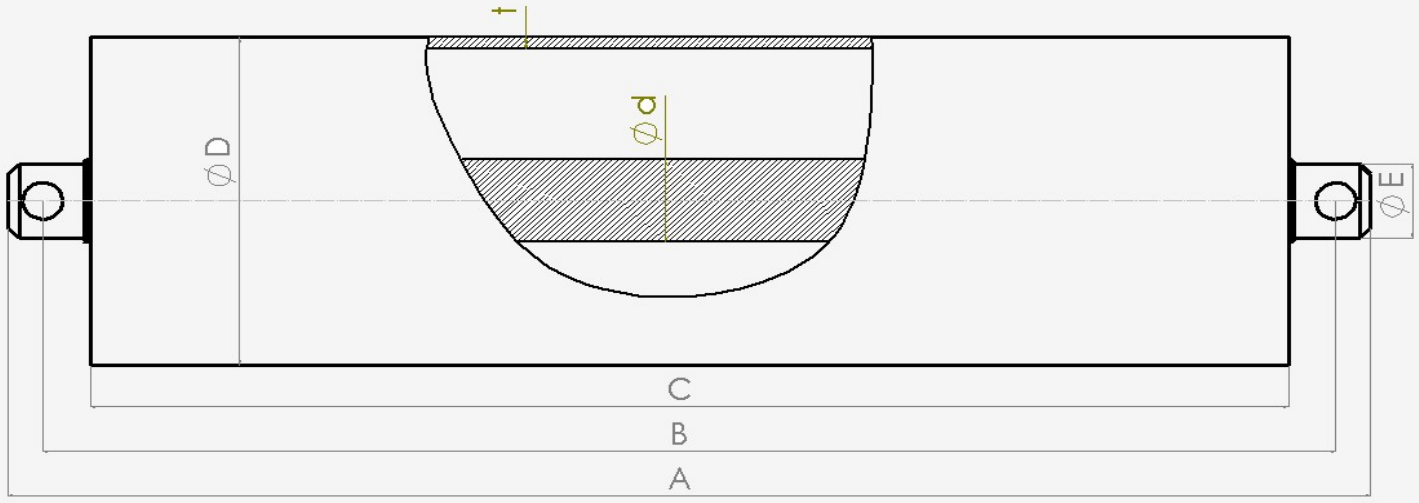
RUBBER RINGS

The profile geometry of the rings has been designed to provide maximum resistance and optimum elastic yield to knocks, with internal and external diameter sizes corresponding to the steel roller diameters. The set of rings is held in place on the roller shell by means of special stop rings.

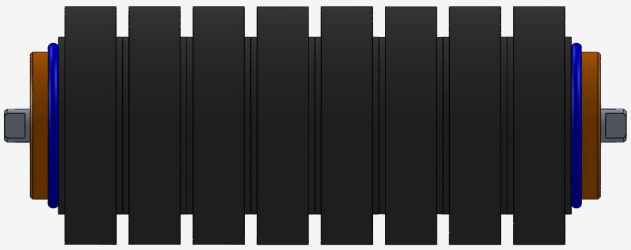
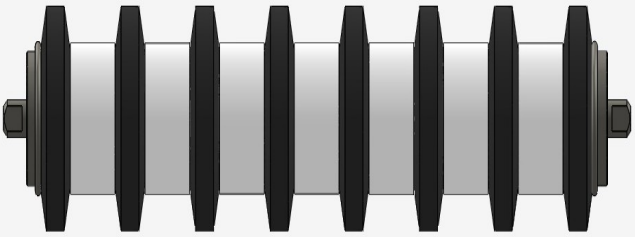


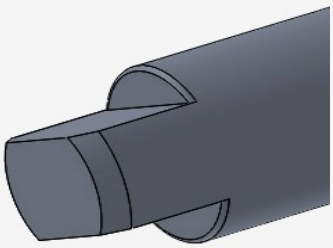
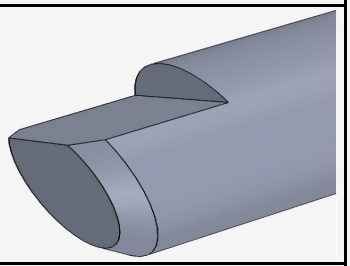
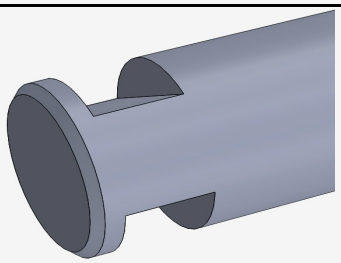
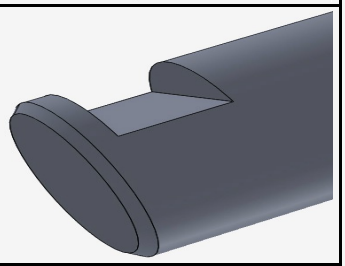
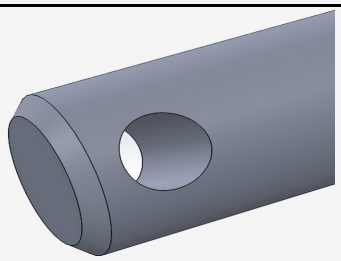
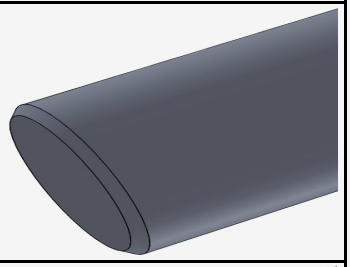
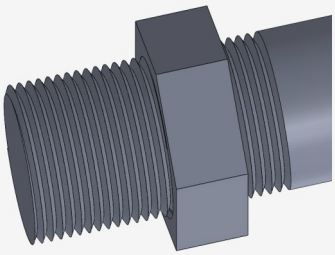
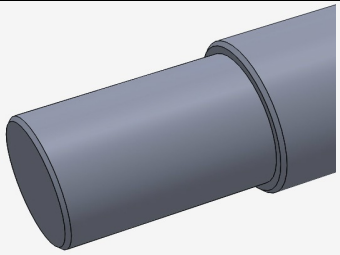
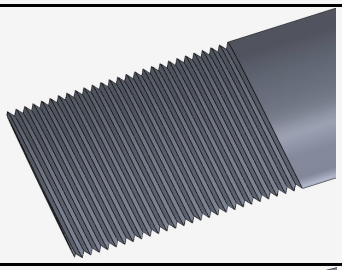
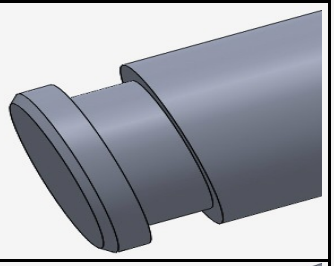
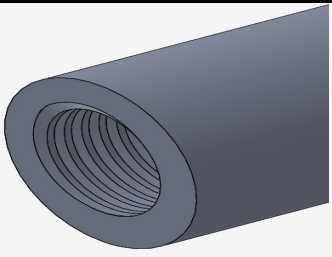
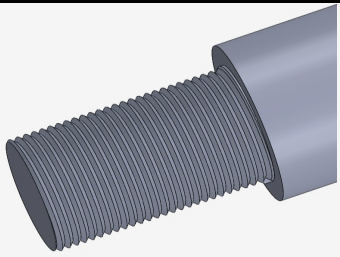
ORDERING CODES

The rollers are identified to indicate :
- the series and type
- the shaft : as standard design or according to the basic abbreviation which corresponds to the required design as indicated in the relative table
- roller diameter and the abbreviation according to the basic design or to supplementary abbreviations as shown in the relative tables.
- roller length



Z – DDD x LLLL / BBBB / S / YY.CCCC / RRR x N	
Z	TYPE CODE
DDD	DIAMETER OF TUBE IN mm
LLLL	LENGTH OF TUBE IN mm
BBBB	BEARING CODE
S	SHAFT END CODE
RRR	DIAMETER OF RUBBERS
N	NUMBER OF RUBBER RINGS

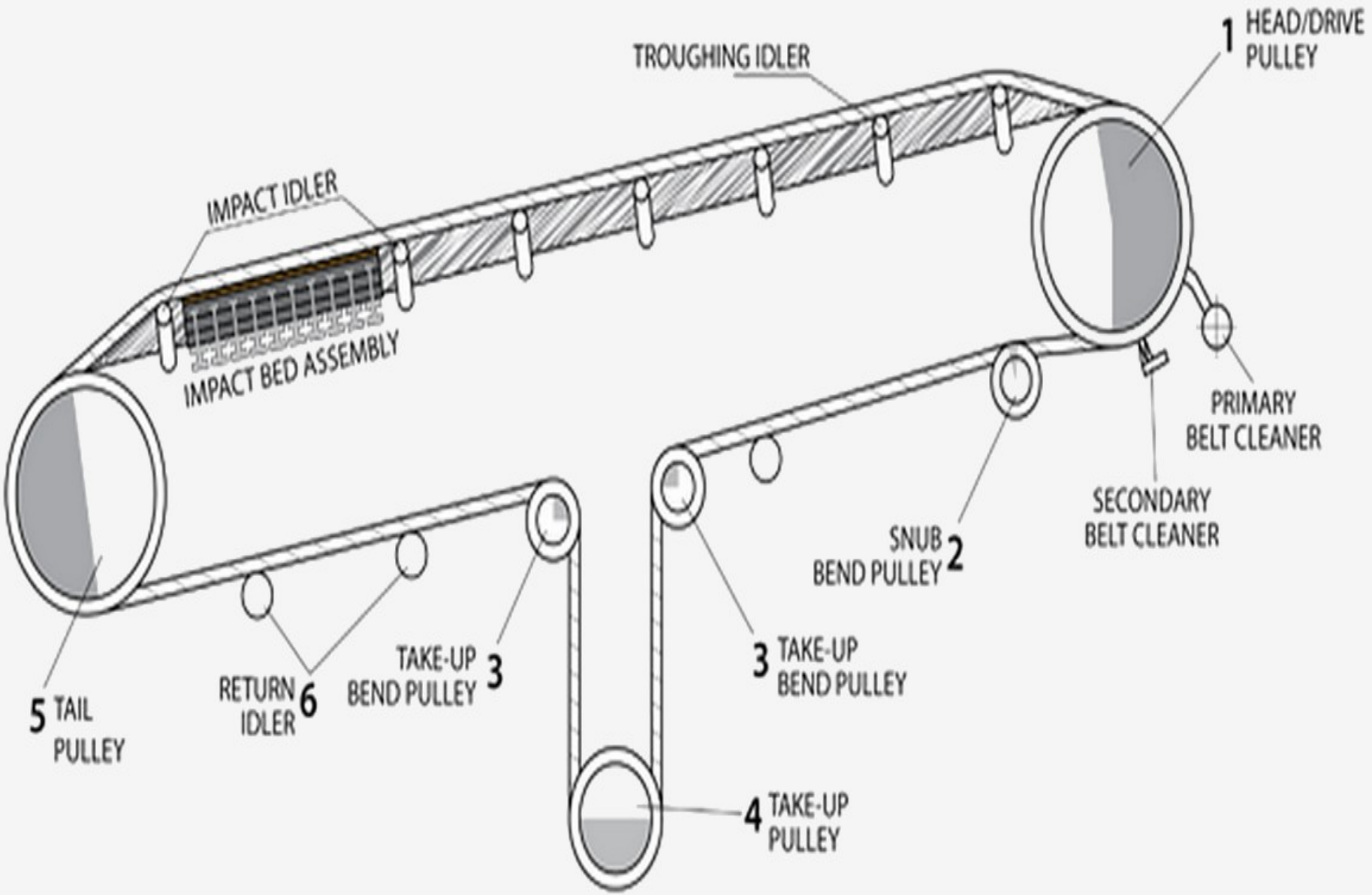
TYPE CODES		
CODE	**DESCRIPTION**	
C	CARRYING ROLLER	
I	IMPACT ROLLER	
R	RETURN ROLLER	

SHAFT END CODES					
CODE	**DESCRIPTION**		**CODE**	**DESCRIPTION**	
A	DOUBLE FLAT		H	SINGLE FLAT	
B	INTERNAL DOUBLE FLAT		I	INTERNAL SINGLE FLAT	
D	GARLAND		J	PLAIN	
E	EXTERNAL THREAD+NUT		K	PLAIN RE-DUCED	
F	EXTERNAL THREAD		L	EXTERNAL REDUCED PLAIN	
G	INTERNAL THREAD			EXTERNAL REDUCE THREAD	

NON-STANDART ROLLER FINISH

If you will not found the roller required for your special need in our catalogue, please refer to our sales department which will elaborate a proposition for a non-standard solution.
Please give the following data in your demand:

- roller type (flat, impact rubber lagged, impact disc, or possibly in garland finish) or garland station type providing the suspension type
- working environment where the rollers or garland stations are to be operated
- required roller material (steel, stainless steel) and surface finish
- required dimensions:
- roller diameter
- shell length
- shaft length
- shaft diameter, bearing size, or bearing cover
- mating dimensions (axis mounting, spacing, width and length of flattening, axis hole diameter and spacing between the holes in garland rollers)
- required number of pieces and delivery date


1 HEAD/DRIVE PULLEY
TROUGHING IDLER
IMPACT IDLER
IMPACT BED ASSEMBLY
PRIMARY BELT CLEANER
SECONDARY BELT CLEANER
SNUB BEND PULLEY 2
3 TAKE-UP BEND PULLEY
TAKE-UP BEND PULLEY 3
RETURN IDLER 6
5 TAIL PULLEY
4 TAKE-UP PULLEY

ROLLER TYPES

CARRYING ROLLERS

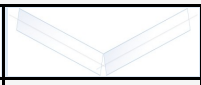
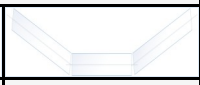
Used for carrying and return idlers, recommended up to belt widths of 2000mm

IMPACT ROLLERS

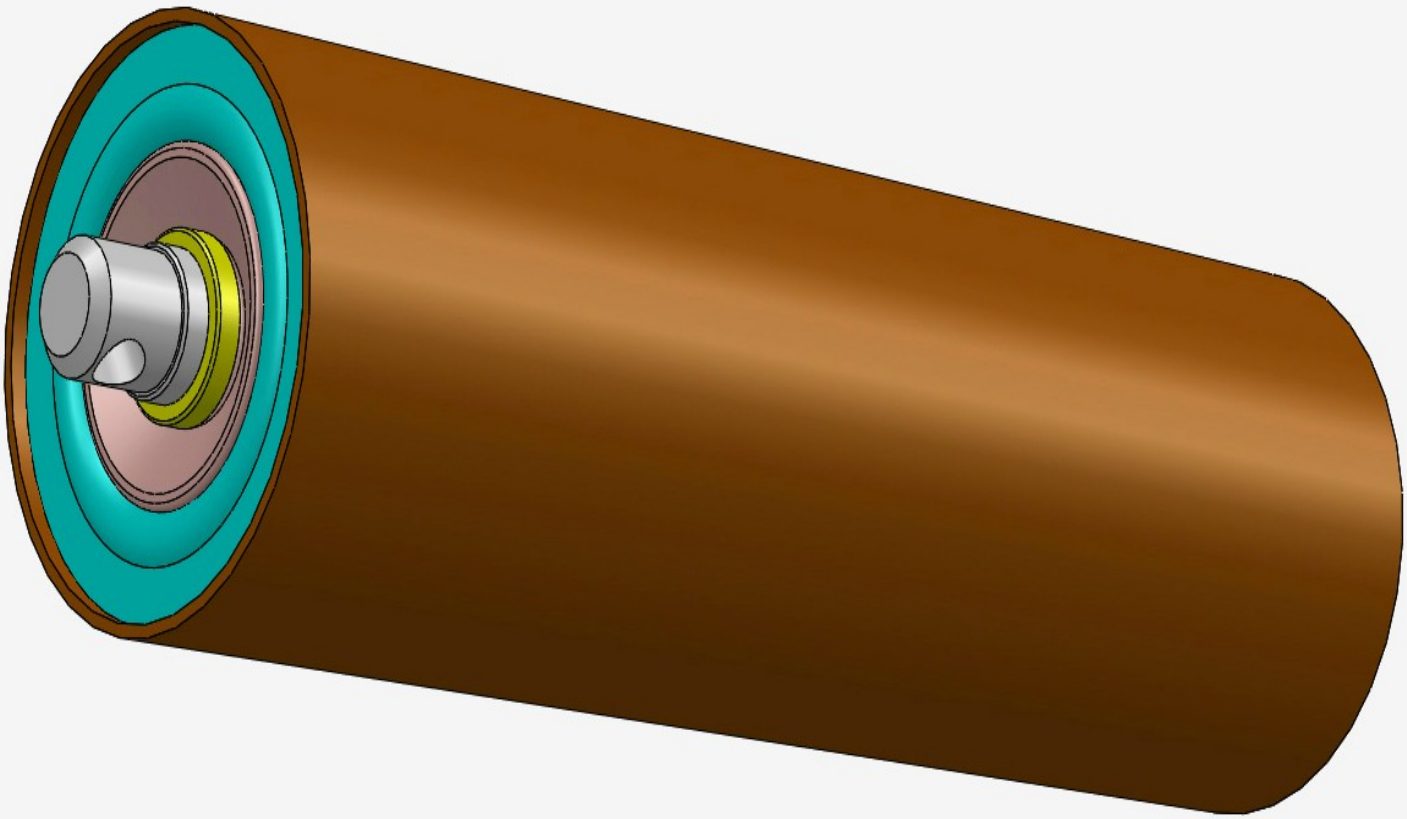
Used to reduce the dynamic effects of impact in the filling area or hopper

RETURN ROLLERS

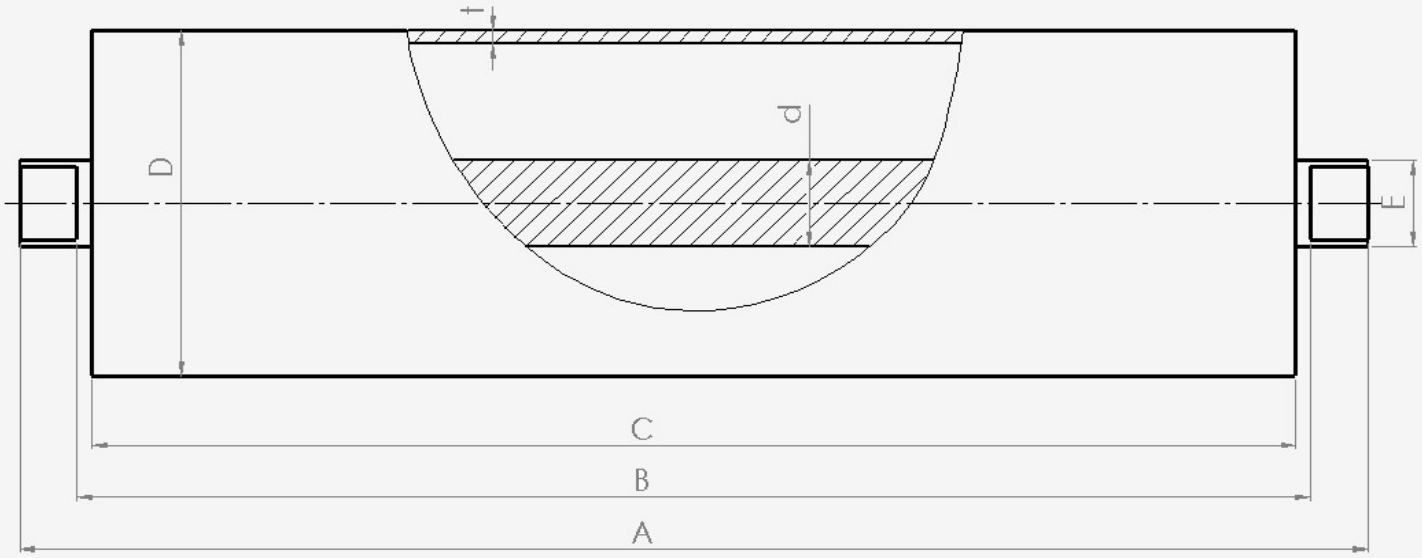
Used for cleaning belts from residual contamination

CARRYING ROLLER	IMPACT ROLLER	RETURN ROLLER	BEARING TYPE	ROLLER LENGTH (mm)			MAX. BELT SPEED m/s	BELT WIDTH B
								
63,76,89	108/63	108/63	6204	500	250	160	4.5	400
63,76,89	108/63	108/63	6204	600	315	200	4.5	500
63,76,89	108/63	108/63	6204	750	380	250	4.5	650
89,108	108/63	108/63	6204	950	465	315	4.5	800
108,133	133/89	133/89	6204	1150	600	380	4.5	1000
133	133/89	133/89	6204	1400	670	465	4.5	1200
133	159/89	159/89	6305	1400	670	465	5.5	
133	159/89	159/89	6306	1400	670	465	7.5	
133	133/89	133/89	6204	1600	750	530	4.5	1400
133	159/89	159/89	6305	1600	750	530	5.5	
133	159/89	159/89	6306	1600	750	530	7.5	
159	194/108	194/108	6308	-	900	600	7.5	1600
159	194/108	194/108	6308	-	1000	670	7.5	1800
194	245/133	245/133	6310	-	1150	750	7.5	2000

CARRYING ROLLERS



CARRYING ROLLER Ø63



TYPE—C

BEARING—6204 C3

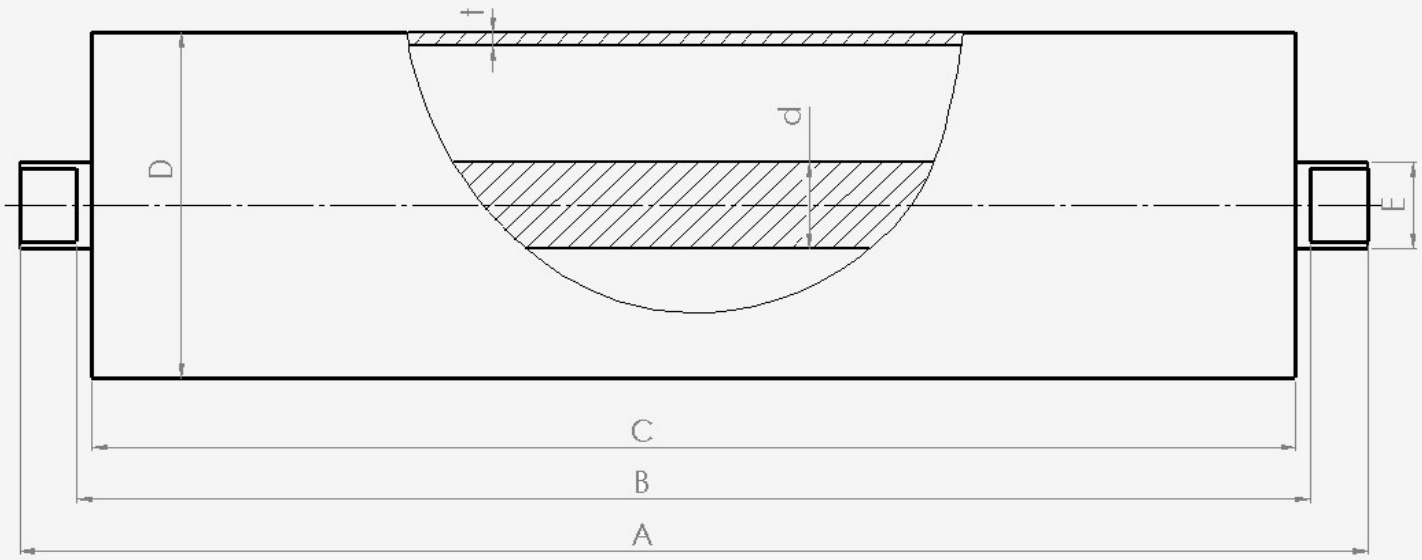
Ød = 20 mm

t = 3 mm

Other lengths, shafts and coatings are available on request.

ROLLER				BELT		
DIMENSIONS (mm)			WEIGHT (kg)	WIDTH (mm)		
C	B	A	TOTAL			
160	168	186	2.1			400
200	208	226	2.4		300	500
250	258	276	2.7		400	650
315	323	341	3.2		500	800
380	388	406	3.6	300	650	1000
465	473	491	4.2		800	1200
500	508	526	4.4	400		
600	608	626	5.1	500	1000	
700	708	726	5.8		1200	
750	758	776	6.2	650		
950	958	976	7.6	800		
1150	1158	1176	9.0	1000		
1400	1408	1426	10.7	1200		

CARRYING ROLLER Ø76



TYPE—C

BEARING—6204 C3

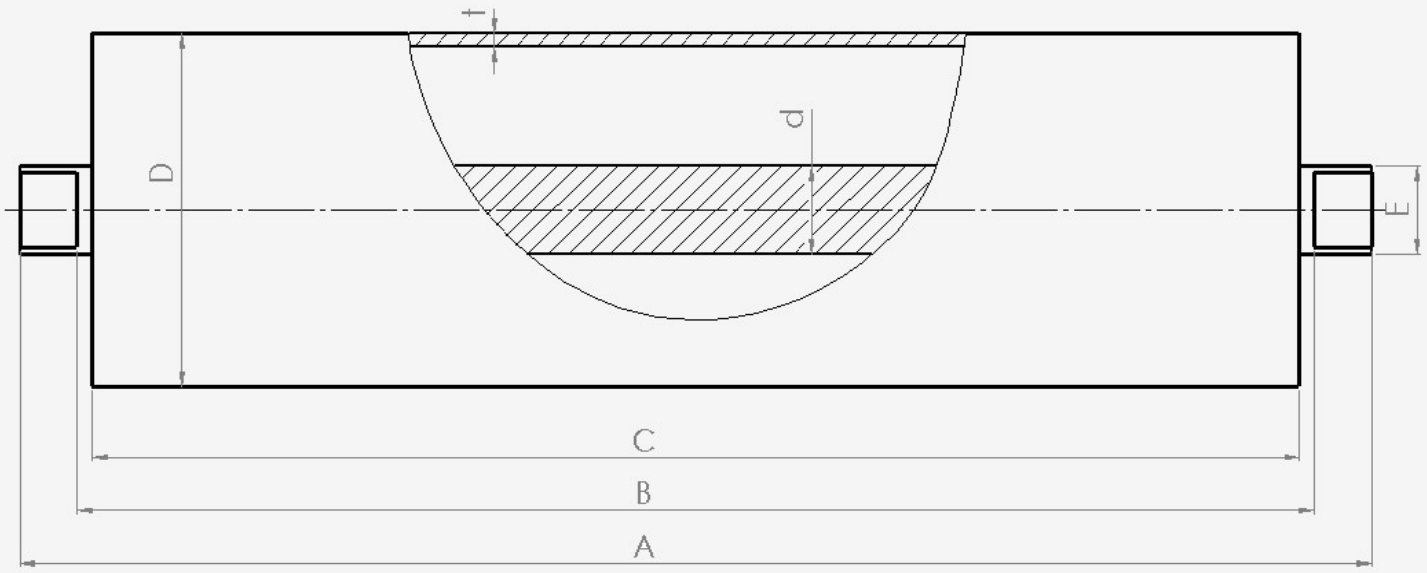
Ød = 20 mm

t = 3 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
160	168	186	1.8	160	140	129			400
200	208	226	2.1	160	140	129			500
250	258	276	2.4	160	140	129		400	650
315	323	341	2.9	160	140	129		500	800
380	388	406	3.4	160	140	129		650	1000
465	473	491	4.0	160	140	129		800	1200
500	508	546	4.3	160	140	129	400		
600	608	626	5.0	160	140	129	500	1000	
750	758	796	6.0	160	140	129	650		
950	958	996	7.5	160	140	129	800		
1150	1158	1196	8.0	150	135	129	1000		
1400	1408	1446	10.8	140	140	129	1200		

CARRYING ROLLER Ø89



TYPE—C

BEARING—6204 C3

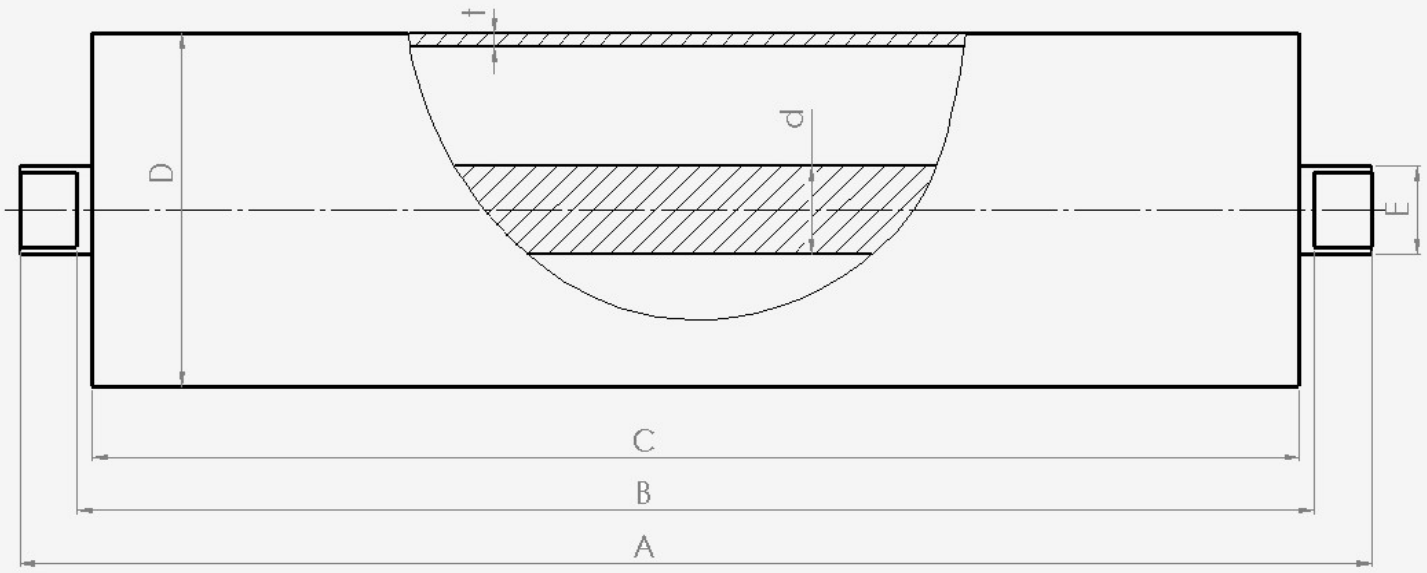
Ød = 20 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
160	168	186	2.5	180	145	127			400
200	208	226	2.8	180	145	127		300	500
250	258	276	3.3	180	145	127		400	650
315	323	341	3.9	180	145	127		500	800
380	388	406	4.4	180	145	127	300	650	1000
465	473	491	5.2	180	145	127		800	1200
500	508	526	5.5	180	145	127	400		
530	538	556	5.8	180	145	127			1400
600	608	626	6.4	180	145	127	500	1000	
700	708	726	7.3	175	145	127		1200	
750	758	776	7.7	164	145	127	650		
800	808	826	8.2	152	145	127		1400	
950	958	976	9.5	130	130	127	800		
1150	1158	1176	11.3	106	106	106	1000		
1400	1408	1426	13.5	85	85	85	1200		
1600	1608	1626	15.3	78	78	78	1400		

CARRYING ROLLER Ø89



TYPE—C

BEARING—6205 C3

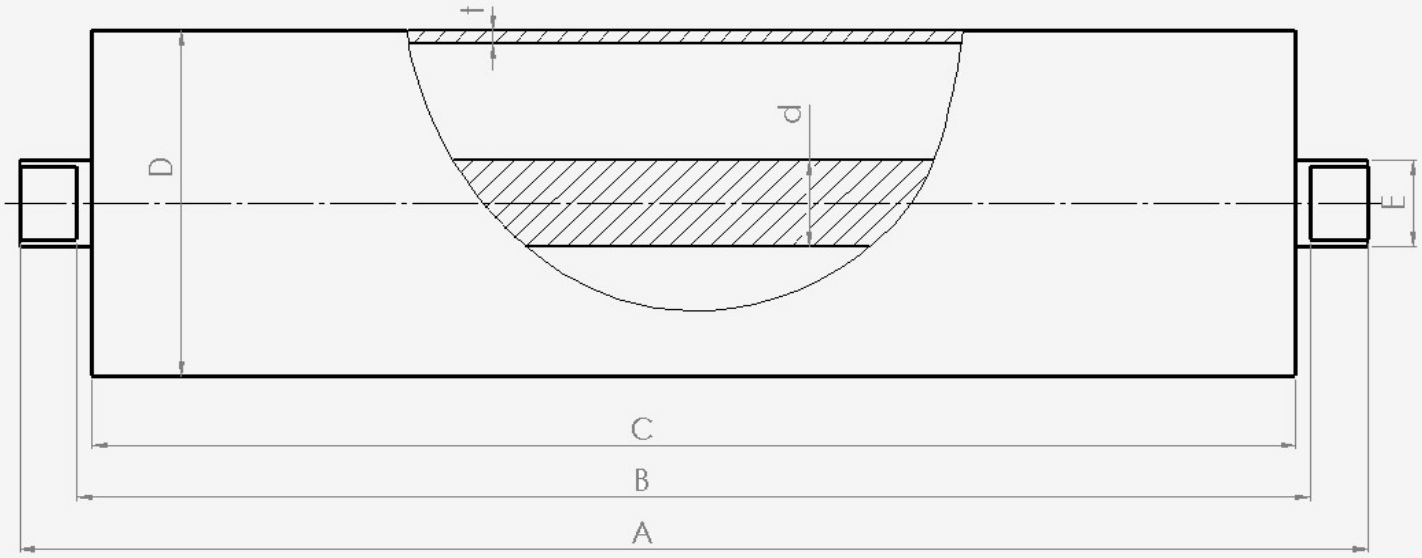
Ød = 25 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
200	208	232	3.2	180	145	127			400
250	258	282	3.6	180	145	127		300	500
315	323	347	4.4	180	145	127		400	650
380	388	412	5.2	180	145	127		500	800
465	473	497	6.1	180	145	127	300	650	1000
530	538	562	6.6	180	145	127		800	1200
600	608	632	7.4	180	145	127	400		
750	758	502	9.0	180	145	127			1400
950	958	1002	11.1	180	145	127	500	1000	
1150	1158	1202	13.1	175	145	127		1200	
1400	1408	1452	15.9	164	145	127	650		
1600	1608	1652	18.1	152	145	127		1400	

CARRYING ROLLER Ø89



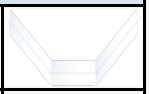
TYPE—C

BEARING—6305 C3

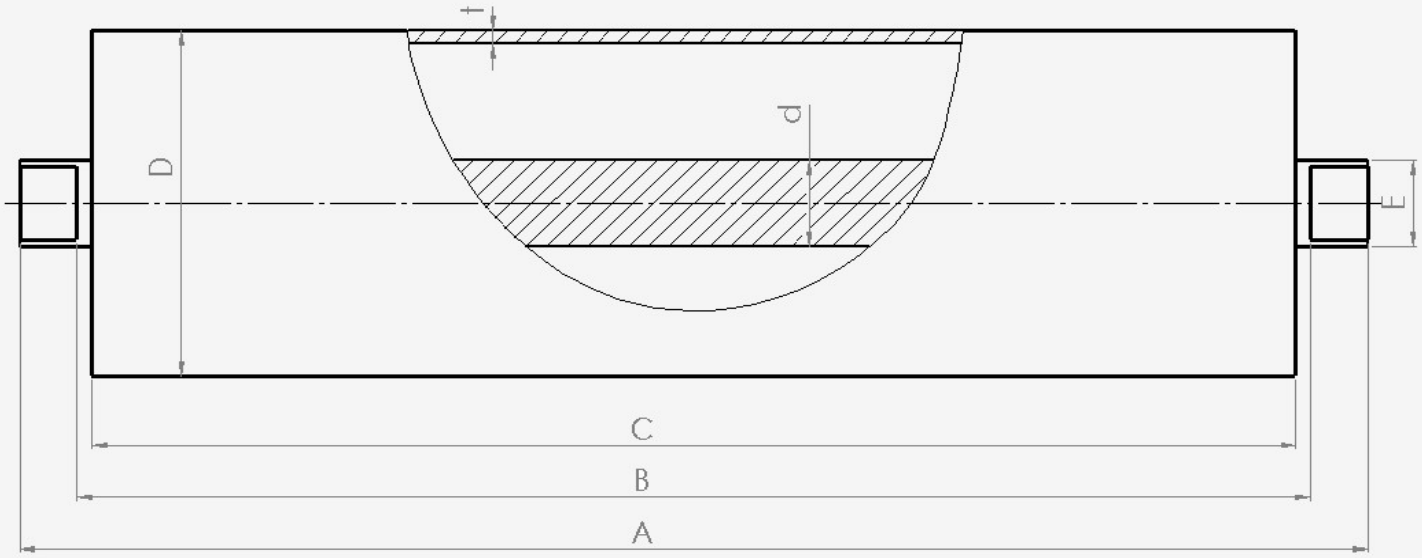
Ød = 25 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
250	258	282	4.2	405	325	280			650
315	323	347	4.8	405	325	280			800
380	388	412	5.5	405	325	280		650	1000
465	473	497	6.4	405	325	280		800	1200
530	538	562	7.0	405	325	280			1400
600	608	632	7.8	405	325	280		1000	1600
700	708	732	8.8	405	325	280		1200	
750	758	782	9.3	395	325	280	650		
800	808	832	9.8	370	325	280		1400	
900	908	932	10.8	330	325	280		1600	
950	958	982	11.4	315	315	280	800		
1150	1158	1182	13.4	300	300	300	1000		
1400	1408	1432	16.0	220	220	220	1200		
1600	1608	1632	18.0	195	195	195	1400		
1800	1808	1832	20.1	180	180	180	1600		

CARRYING ROLLER Ø89



TYPE—C

BEARING—6306 C3

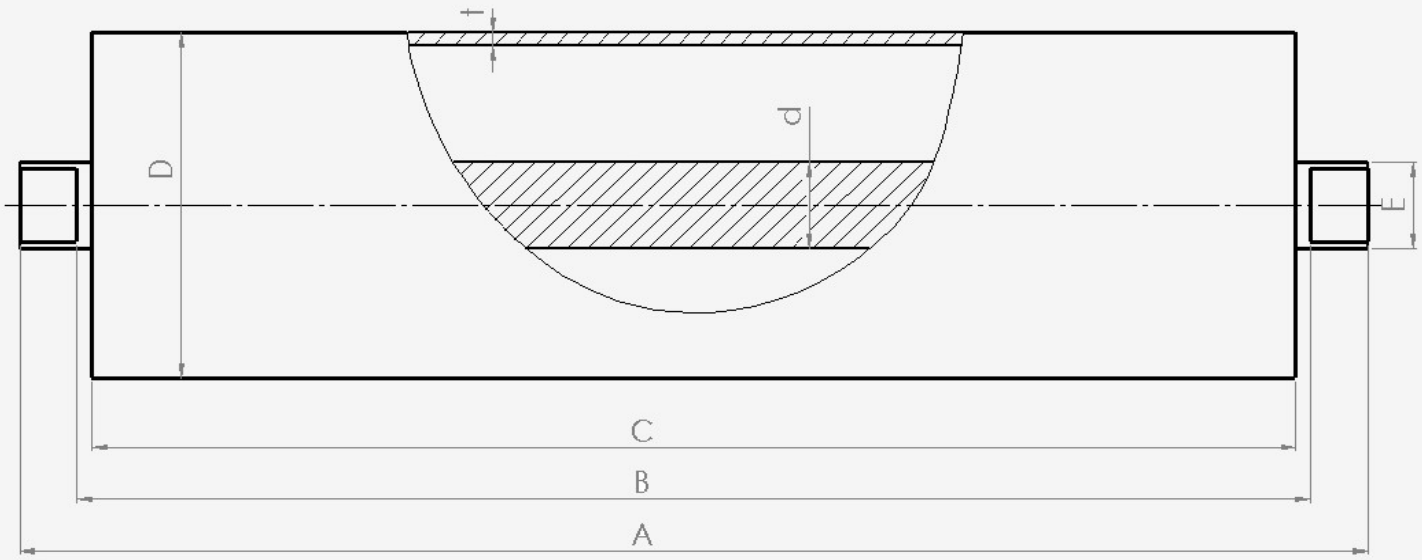
Ød = 30 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
		A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
315	323	347	8.7	550	435	380			800
380	388	412	9.9	550	435	380			1000
465	473	497	11.4	550	435	380		800	1200
530	538	562	12.6	550	435	380			1400
600	608	632	13.9	550	435	380		1000	1600
670	678	702	15.2	550	435	380			1800
700	708	732	15.8	550	435	380		1200	
750	758	782	16.6	550	435	380			2000
800	808	832	17.5	550	435	380		1400	
900	908	932	19.4	550	435	380		1600	
950	958	982	20.3	550	435	380	800		
1000	1008	1032	21.2	550	435	380		1800	
1100	1108	1132	23.0	550	435	380		2000	
1150	1158	1182	23.9	550	435	380	1000		
1400	1408	1432	28.5	515	435	380	1200		
1600	1608	1632	32.2	340	435	380	1400		
1800	1808	1832	35.8	235	235	235	1600		
2000	2008	2032	39.5	170	170		1800		

CARRYING ROLLER Ø108



TYPE—C

BEARING—6204 C3

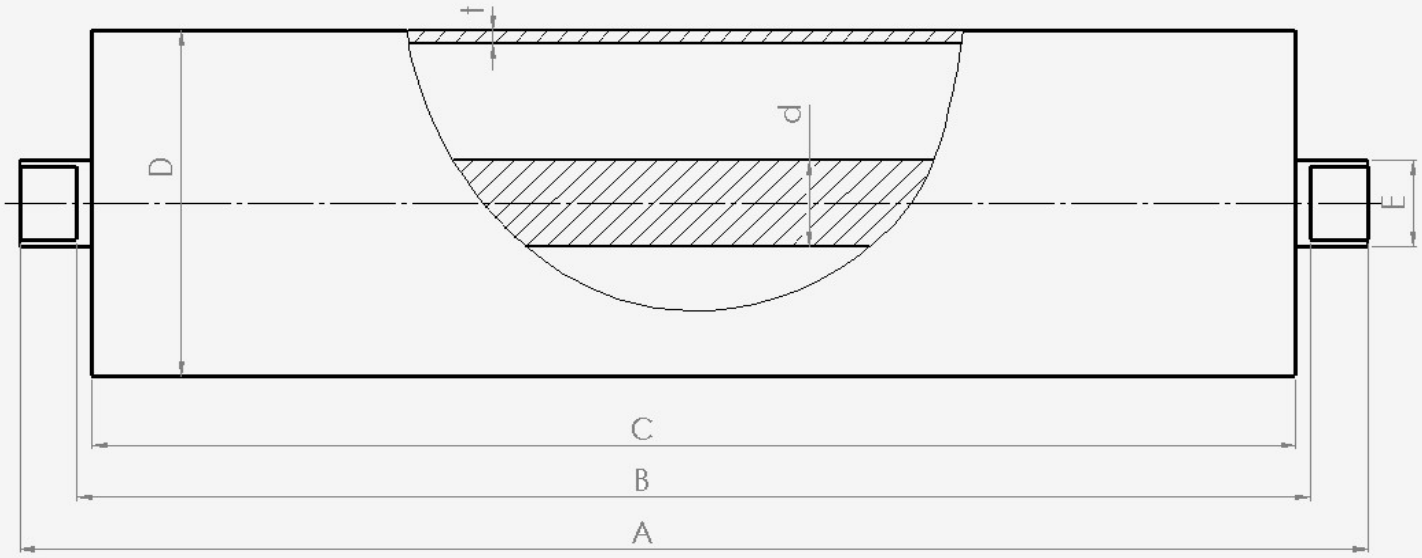
Ød = 20 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED m/s					
				1	1.5	2			
160	168	186	3.0	195	155	135			400
200	208	226	3.5	195	155	135		300	500
250	258	276	4.1	195	155	135		400	650
315	323	341	4.8	195	155	135		500	800
380	388	406	5.6	195	155	135	300	650	1000
465	473	491	6.5	195	155	135		800	1200
500	508	526	6.9	195	155	135	400		
530	538	556	7.3	195	155	135			1400
600	608	626	8.1	195	155	135	500	1000	
700	708	726	9.2	173	155	135		1200	
750	758	776	9.8	162	155	135	650		
800	808	826	10.4	150	150	135		1400	
950	958	976	12.1	125	125	125	800		
1150	1158	1176	14.4	105	105	105	1000		
1400	1408	1426	17.3	86	86	86	1200		
1600	1608	1626	19.6	75	75	75	1400		

CARRYING ROLLER Ø108



TYPE—C

BEARING—6305 C3

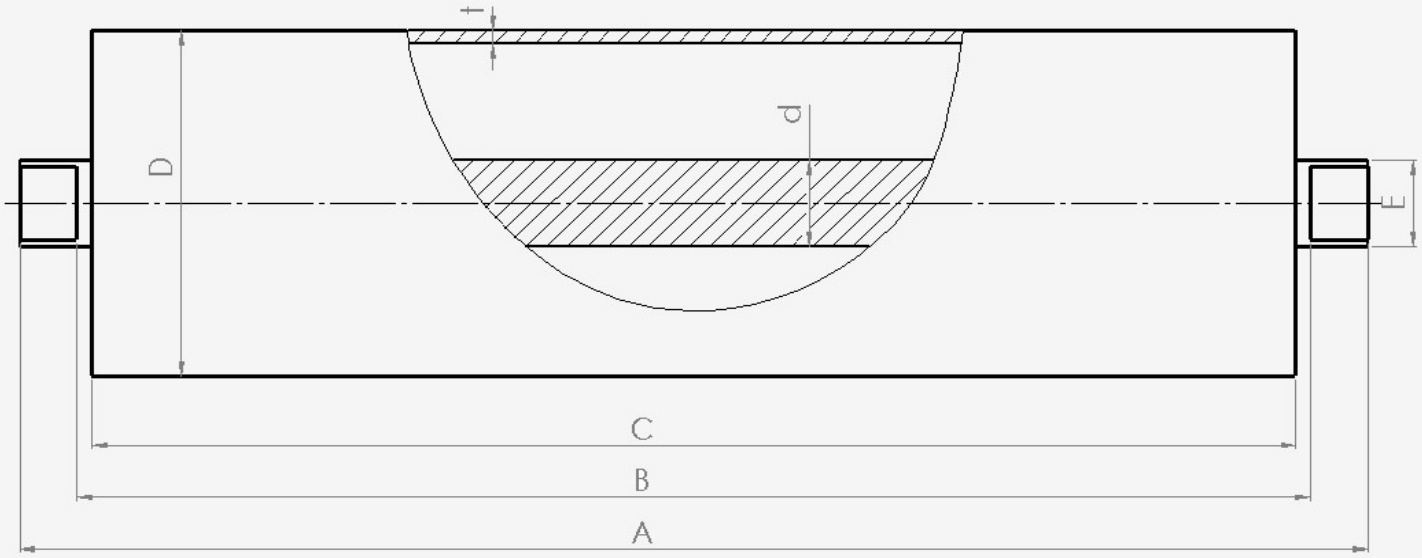
SHAFT Ød = 25 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (mm)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
250	258	282	5.0	434	345	300			650
315	323	347	5.8	434	345	300			800
380	388	412	6.7	434	345	300		650	1000
465	473	497	7.8	434	345	300		800	1200
530	538	562	8.6	434	345	300			1400
600	608	632	9.5	434	345	300		1000	1600
700	708	732	10.8	405	345	300		1200	
750	758	782	11.4	375	345	300	650		
800	808	832	12.1	355	345	300		1400	
900	908	932	13.3	310	310	300		1600	
950	958	982	14.0	295	295	295	800		
1150	1158	1182	16.6	245	245	245	1000		
1400	1408	1432	19.8	200	200	200	1200		
1600	1608	1632	22.4	175	175	175	1400		
1800	1808	1832	24.9	160	160	160	1600		

CARRYING ROLLER Ø108



TYPE—C

BEARING—6306 C3

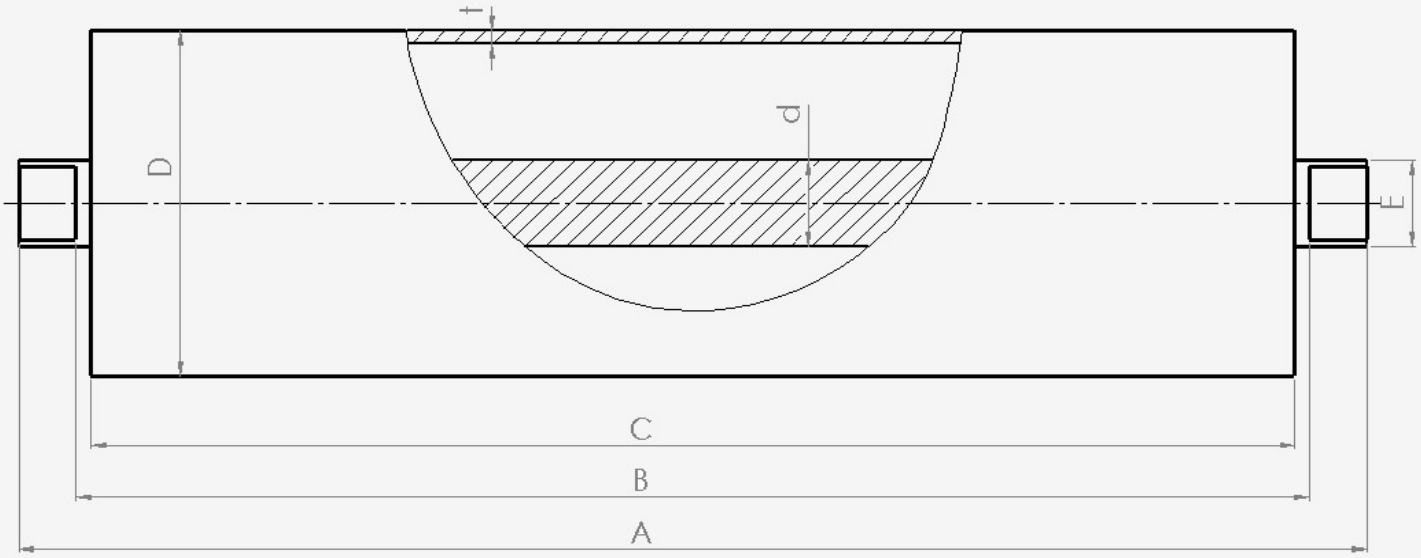
SHAFT Ød = 30 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
315	323	347	8.7	585	465	410			800
380	388	412	9.9	585	465	410			1000
465	473	497	11.4	585	465	410		800	1200
530	538	562	12.6	585	465	410			1400
600	608	6321	13.9	585	465	410		1000	1600
670	678	702	15.2	585	465	410			1800
700	708	732	15.8	585	465	410		1200	
750	758	782	16.6	585	465	410			2000
800	808	832	17.5	585	465	410		1400	
900	908	932	19.4	585	465	410		1600	
950	958	982	20.3	585	465	410	800		
1000	1008	1032	21.2	585	465	410		1800	
1100	1108	1132	23.0	555	465	410		2000	
1150	1158	1182	23.9	530	465	410	1000		
1400	1408	1432	28.5	445	445	410	1200		
1600	1608	1632	32.2	395	395	395	1400		
1800	1808	1832	35.8	360	360	360	1600		
2000	2008	2032	39.5	330	330	330	1800		
2200	2208	2232	43.1	295	295		2000		

CARRYING ROLLER Ø108



TYPE—C

BEARING—6308 C3

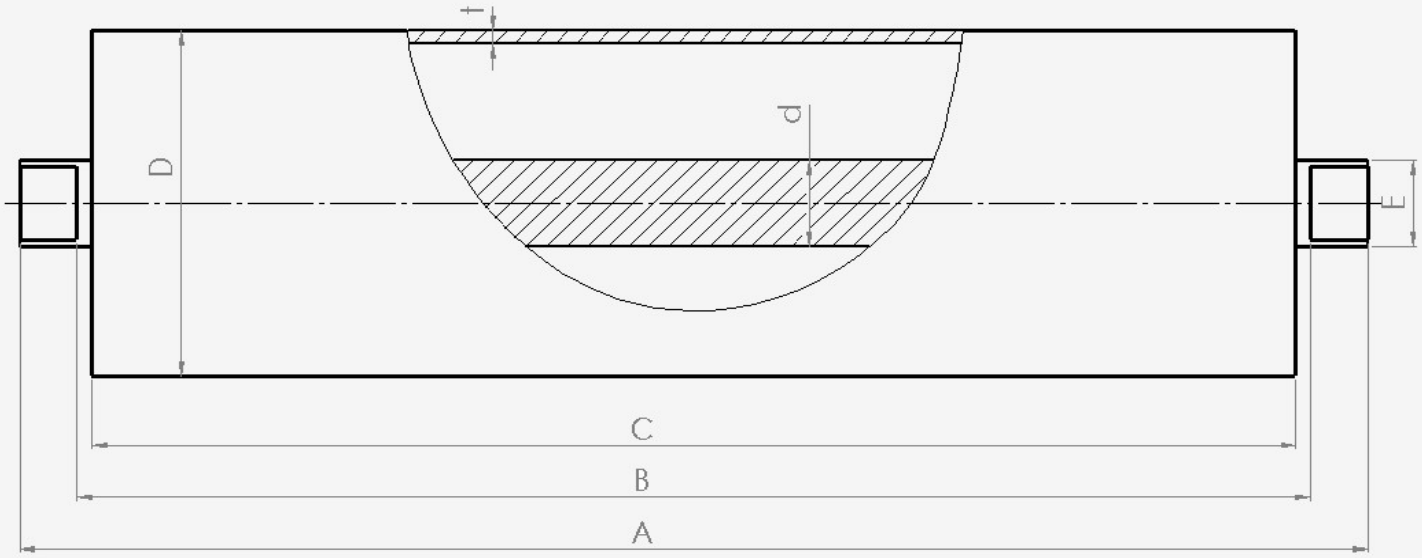
SHAFT Ød = 40 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
380	388	412	11.9	855	680	595			1000
465	473	497	13.5	855	680	595			1200
530	538	562	15.8	855	680	595			1400
600	608	632	16.1	855	680	595		1000	1600
670	678	702	17.4	855	680	595			1800
700	708	732	17.9	855	680	595		1200	
750	758	782	18.9	855	680	595			2000
800	808	832	19.8	855	680	595		1400	2200
900	908	932	21.7	855	680	595		1600	
1000	1008	1032	23.7	855	680	595		1800	
1100	1108	1132	25.4	855	680	595		2000	
1150	1158	1182	26.4	855	680	595	1000		
1250	1258	1282	28.3	855	680	595		2200	
1400	1408	1432	31.1	855	680	595	1200		
1600	1608	1632	34.8	730	680	595	1400		
1800	1808	1832	38.6	505	505	505	1600		
2000	2008	2032	42.3	360	360	360	1800		
2200	2208	2232	46.1	270	270	270	2000		
2500	2508	2532	51.7	180	180	180	2200		

CARRYING ROLLER Ø133



TYPE—C

BEARING—6204 C3

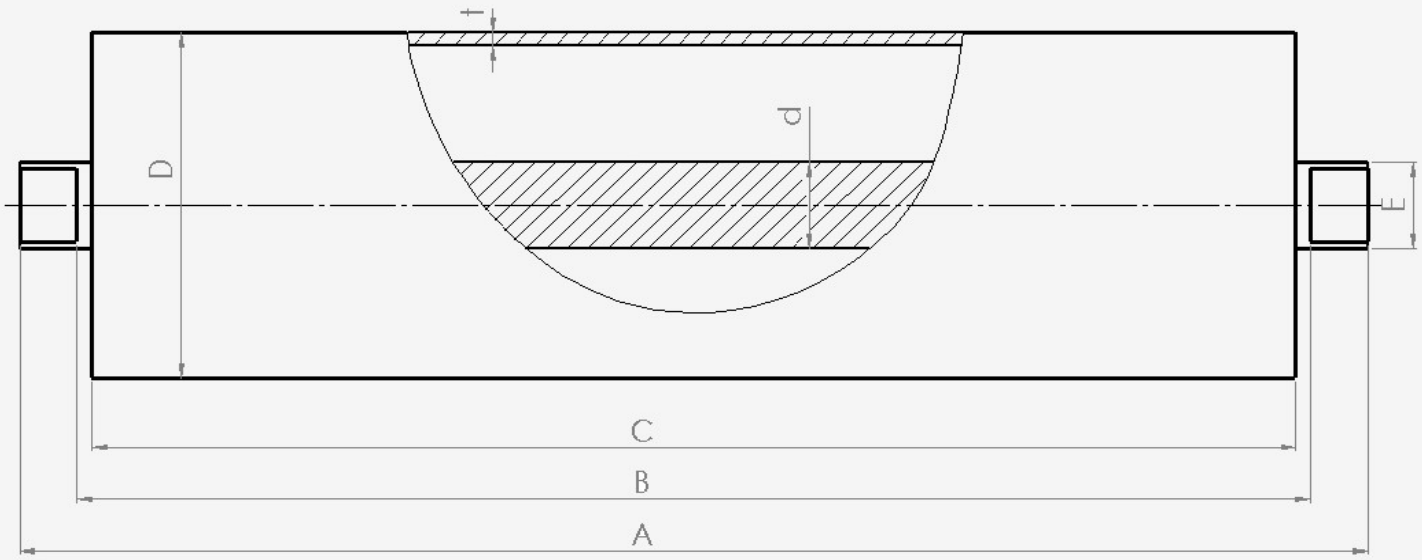
SHAFT Ød = 20 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
200	208	226	4.4	205	165	148			500
250	258	276	5.2	205	165	148			650
315	323	341	6.2	205	165	148		500	800
380	388	406	7.2	205	165	148		650	1000
465	473	491	8.4	205	165	148		800	1200
530	538	556	9.4	205	165	148			1400
600	608	626	10.5	200	165	148	500	1000	1600
700	708	726	12.0	171	165	148		1200	
750	758	776	12.8	160	160	148	650		
800	808	826	13.5	150	150	148		1400	
900	908	926	15.1	130	130	130		1600	
950	958	976	15.8	125	125	125	800		
1150	1158	1176	18.9	102	102	102	1000		
1400	1408	1426	22.7	85	85	85	1200		
1600	1608	1626	25.7	75	75	75	1400		
1800	1808	1826	28.7	65	65	65	1600		

CARRYING ROLLER Ø133



TYPE—C

BEARING—6305 C3

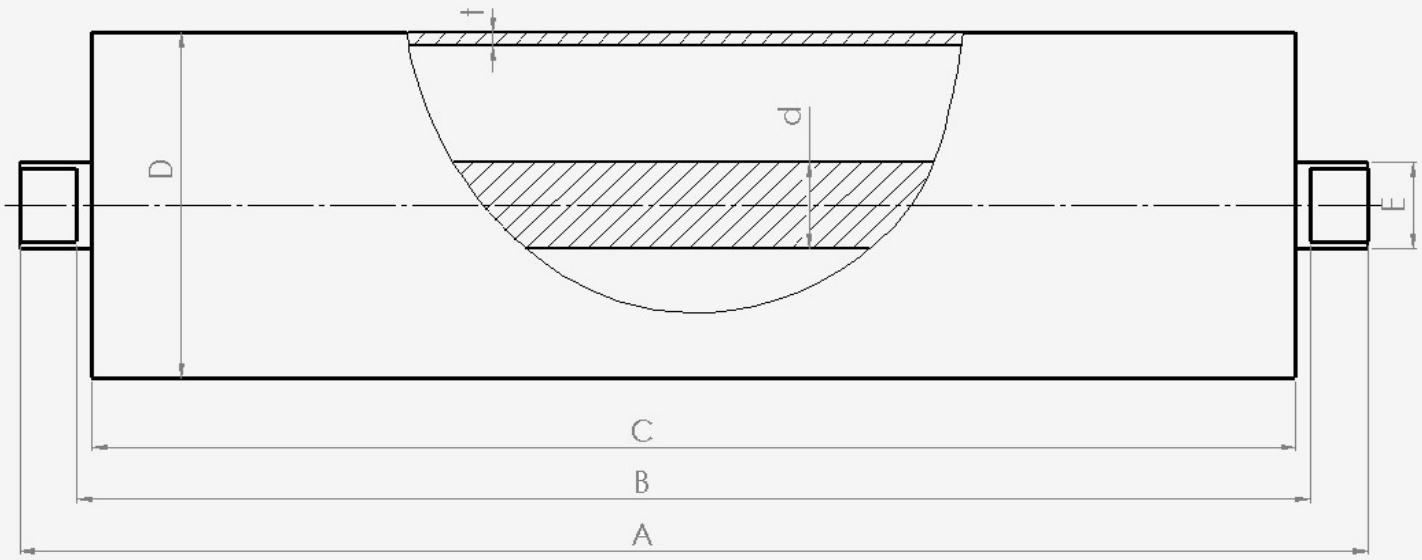
SHAFT Ød = 25 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
315	323	347	7.3	465	368	320			800
380	388	412	8.4	465	368	320			1000
465	473	497	9.8	465	368	320		800	1200
530	538	562	10.9	465	368	320			1400
600	608	632	12.0	465	368	320		1000	1600
670	678	702	13.2	420	368	320			1800
700	708	732	13.7	400	368	320		1200	
750	758	782	14.5	370	368	320			2000
800	808	832	15.4	345	345	320		1400	
900	908	932	17.0	305	305	305		1600	
950	958	982	17.8	290	290	290	800		
1000	1008	1032	18.7	275	275	275		1800	
1100	1108	1132	20.3	245	245	245		2000	
1150	1158	1182	21.2	235	235	235	1000		
1400	1408	1432	25.3	195	195	195	1200		
1600	1608	1632	28.6	170	170	170	1400		
1800	1808	1832	31.9	150	150	150	1600		
2000	2008	2032	35.3	135	135	135	1800		

CARRYING ROLLER Ø133



TYPE—C

BEARING—6306 C3

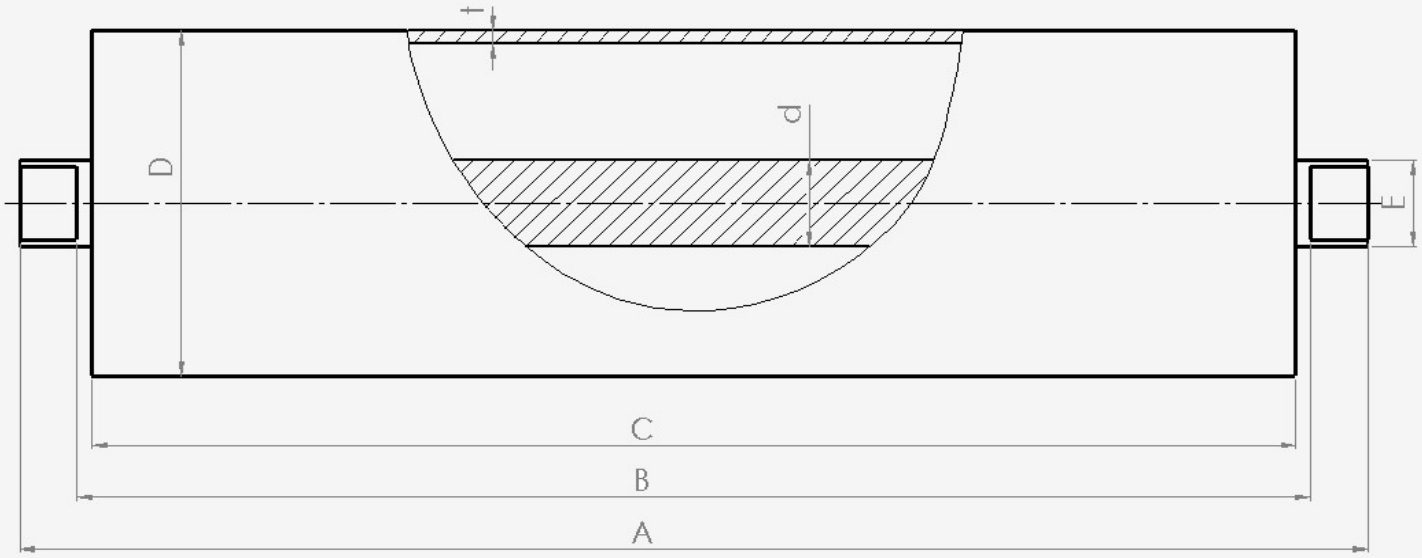
SHAFT Ød = 30 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
315	323	347	8.7	630	500	435			800
380	388	412	9.9	630	500	435			1000
465	473	497	11.4	630	500	435		800	1200
530	538	562	12.6	630	500	435			1400
600	608	632	13.9	630	500	435		1000	1600
670	678	702	15.2	630	500	435			1800
700	708	732	15.8	630	500	435		1200	
750	758	782	16.6	630	500	435			2000
800	808	832	17.5	630	500	435		1400	
900	908	932	19.4	630	500	435		1600	
950	958	982	20.3	610	500	435	800		
1000	1008	1032	21.2	580	500	435		1800	
1100	1108	1132	23.0	525	500	435		2000	
1150	1158	1182	23.9	505	500	435	1000		
1400	1408	1432	28.5	415	415	415	1200		
1600	1608	1632	32.2	365	365	365	1400		
1800	1808	1832	35.8	325	325	325	1600		
2000	2008	2032	39.5	295	295	295	1800		
2200	2208	2232	43.1	270	270	270	2000		

CARRYING ROLLER Ø133



TYPE—C

BEARING—6308 C3

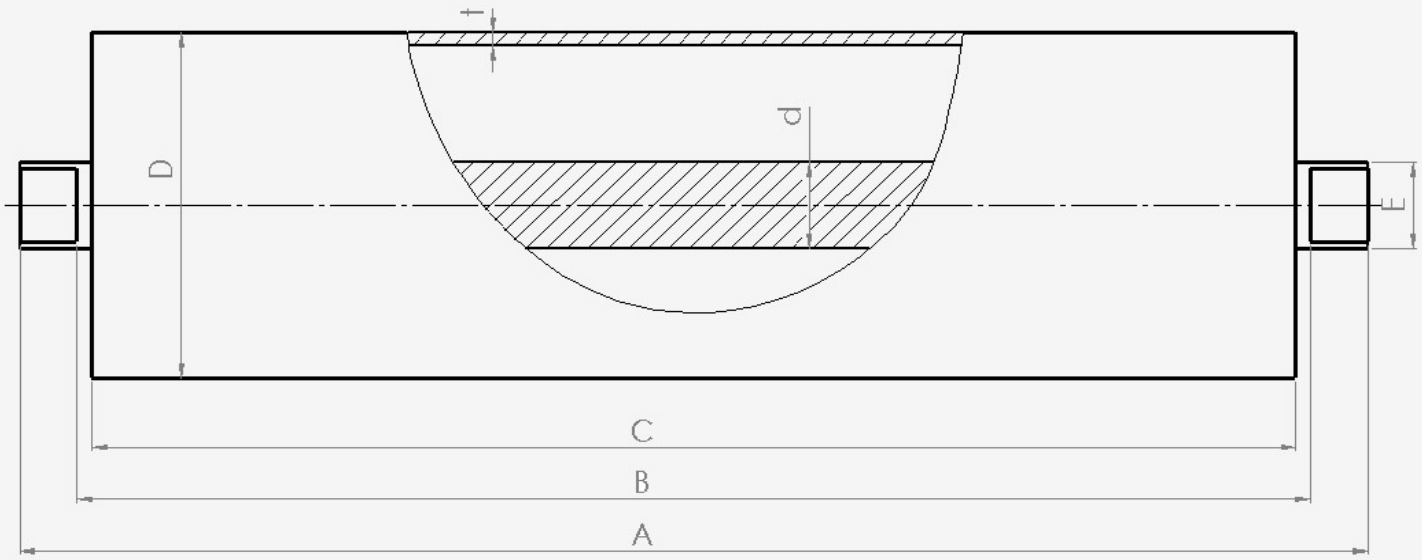
SHAFT Ød = 40 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
380	388	412	13.6	915	730	635			1000
465	473	497	15.5	915	730	635			1200
530	538	562	17.0	915	730	635			1400
600	608	632	18.6	915	730	635		1000	1600
670	678	702	20.2	915	730	635			1800
700	708	732	20.8	915	730	635		1200	
750	758	782	22.0	915	730	635			2000
800	808	832	23.1	915	730	635		1400	2200
900	908	932	25.4	915	730	635		1600	
1000	1008	1032	27.6	915	730	635		1800	
1100	1108	1132	29.9	915	730	635		2000	
1150	1158	1182	31.0	915	730	635	1000		
1250	1258	1282	33.3	915	730	635		2200	
1400	1408	1432	36.6	915	730	635	1200		
1600	1608	1632	41.2	915	730	635	1400		
1800	1808	1832	45.7	915	730	635	1600		
2000	2008	2032	50.2	775	730	635	1800		
2200	2208	2232	54.7	575	575	575	2000		
2500	2508	2532	61.5	390	390	390	2200		

CARRYING ROLLER Ø159



TYPE—C

BEARING—6305 C3

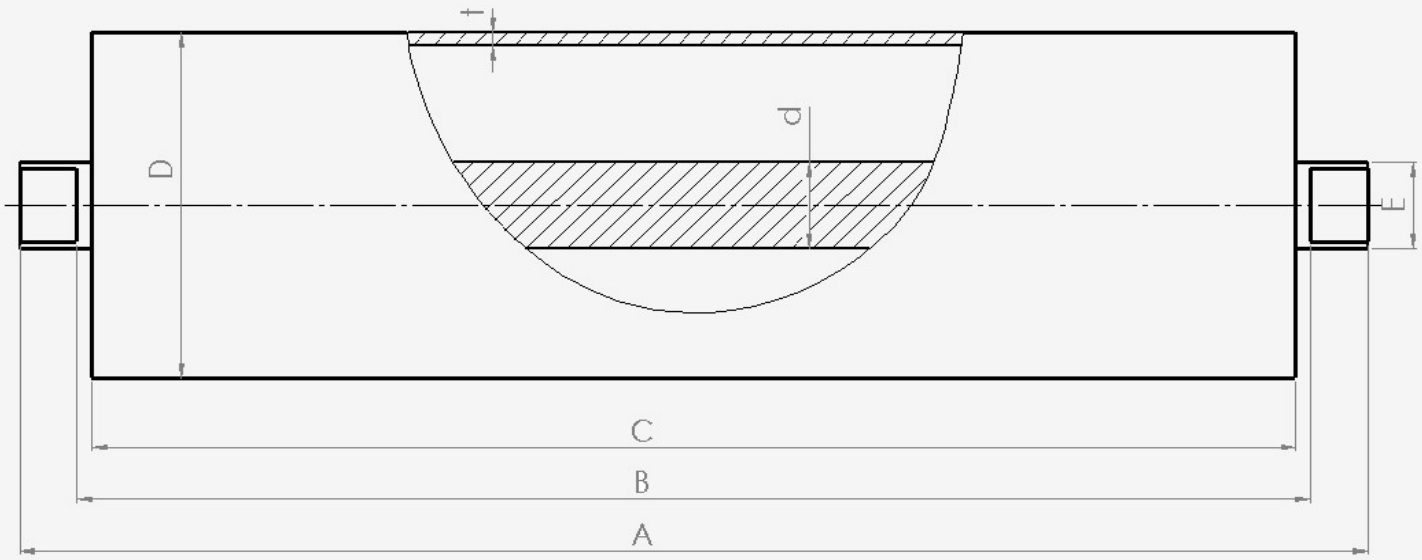
SHAFT Ød = 25 mm

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
380	388	412	9.7	490	390	340			1000
465	473	497	11.3	490	390	340			1200
530	538	562	12.6	490	390	340			1400
600	608	632	13.9	470	390	340		1000	1600
670	678	702	15.3	415	390	340			1800
700	708	732	15.8	395	390	340		1200	
750	758	782	16.8	365	365	340			2000
800	808	832	17.7	340	340	340		1400	
900	908	932	19.7	300	300	300		1600	
1000	1008	1032	21.6	270	270	270		1800	
1100	1108	1132	23.5	245	245	245		2000	
1150	1158	1182	24.4	235	235	235	1000		
1400	1408	1432	29.2	190	190	190	1200		
1600	1608	1632	33.1	165	165	165	1400		
1800	1808	1832	36.9	150	150	150	1600		
2000	2008	2032	40.7	135	135	135	1800		
2200	2208	2232	44.6	120	120	12	2000		

CARRYING ROLLER Ø159



TYPE—**C**

BEARING—**6306 C3**

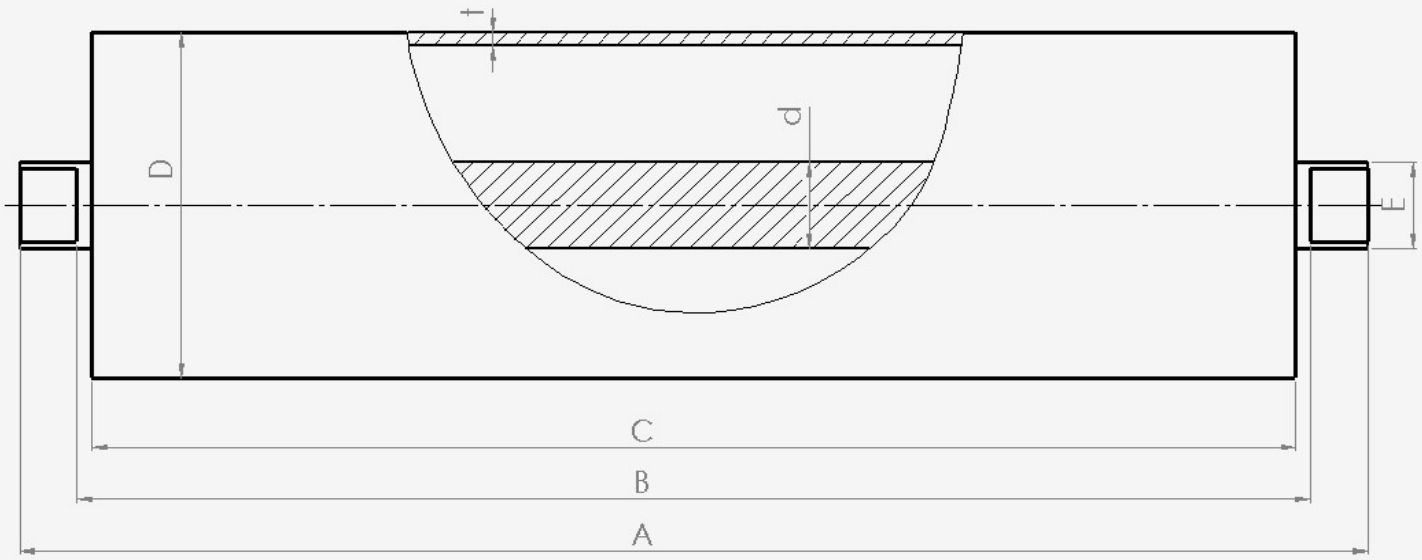
SHAFT Ød = **30 mm**

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
380	388	412	11.2	670	465	390			1000
465	473	497	12.9	670	465	390			1200
530	538	562	14.3	670	465	390			1400
600	608	632	15.7	670	465	390		1000	1600
670	678	702	17.2	670	465	390			1800
700	708	732	17.8	670	465	390		1200	
750	758	782	18.9	670	465	390			2000
800	808	832	19.9	670	465	390		1400	2200
900	908	932	22.0	630	465	390		1600	
1000	1008	1032	24.1	565	465	390		1800	
1100	1108	1132	26.2	515	465	390		2000	
1150	1158	1182	27.2	490	465	390	1000		
1250	1258	1282	29.3	450	450	390		2200	
1400	1408	1432	32.4	400	400	390	1200		
1600	1608	1632	36.6	350	350	350	1400		
1800	1808	1832	40.8	315	315	315	1600		
2000	2008	2032	44.9	285	285	285	1800		
2200	2208	2232	49.1	260	260		2000		
2500	2508	2532	55.4	230	230		2200		

CARRYING ROLLER Ø159



TYPE—**C**

BEARING—**6308 C3**

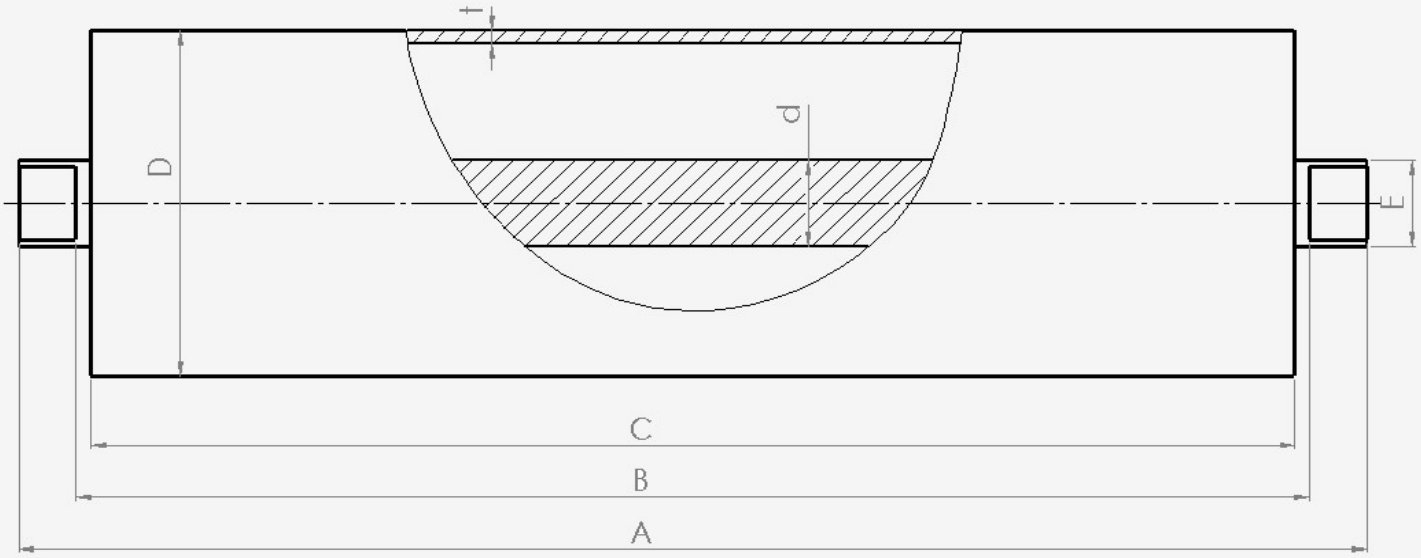
SHAFT Ød = **40 mm**

t = 5 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
380	388	412	15.0	775	675	570			1000
45	473	497	17.1	775	675	570			1200
530	538	562	18.7	775	675	570			1400
600	608	632	20.5	775	675	570		1000	1600
670	678	702	22.3	775	675	570			1800
700	708	732	23.0	775	675	570		1200	
750	758	782	24.3	775	675	570			2000
800	808	832	25.5	775	675	570		1400	2200
900	908	932	28.0	775	675	570		1600	
1000	1008	1032	30.6	775	675	570		1800	
1100	1108	1132	33.1	775	675	570		2000	
1150	1158	1182	34.3	775	675	570	1000		
1250	1258	1282	36.9	775	675	570		2200	
1400	1408	1432	40.6	775	675	570	1200		
1600	1608	1632	45.7	775	675	570	1400		
1800	1808	1832	50.7	775	675	570	1600		
2000	2008	2032	55.7	775	675	570	1800		
2200	2208	2232	60.8	775	675		2000		
2500	2508	2532	68.3	670	670		2200		

CARRYING ROLLER Ø159



TYPE—**C**

BEARING—**6310 C3**

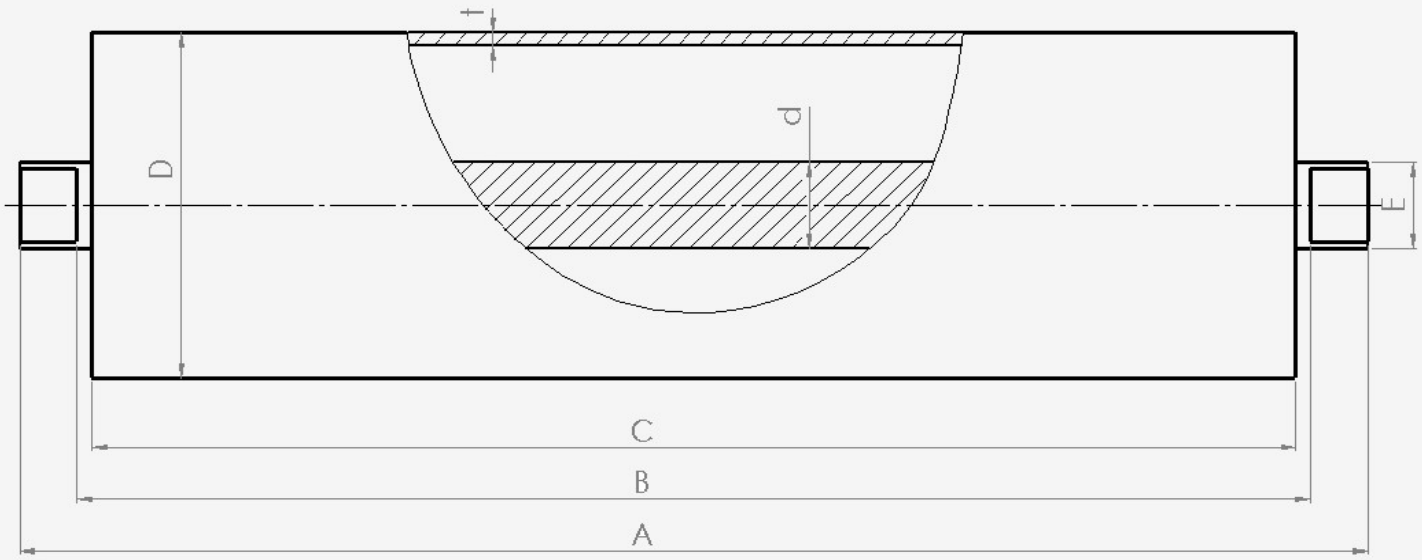
SHAFT Ød = **50 mm**

t = 6.3 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
388	412	16.5	942	856	795			1000	380
465	473	497	18.6	942	856	795			1200
530	538	562	20.1	942	856	795			1400
600	608	632	22.2	942	856	795		1000	1600
670	678	702	24.6	942	856	795			1800
700	708	732	25.8	942	856	795		1200	
750	758	782	26.4	942	856	795			2000
800	808	832	28.4	942	856	795		1400	2200
900	908	932	30.3	942	856	795		1600	
1000	1008	1032	34.2	942	856	795		1800	
1100	1108	1132	36.6	942	856	795		2000	
1150	1158	1182	38.2	942	856	795	1000		
1250	1258	1282	40.3	942	856	795		2200	
1400	1408	1432	44.8	942	856	795	1200		
1600	1608	1632	50.1	942	856	795	1400		
1800	1808	1832	56.3	942	856	795	1600		
2000	2008	2032	60.5	942	856	795	1800		
2200	2208	2232	66.4	942	856	795	2000		
2500	2508	2532	79.2	938	856	780	2200		
2800	2808	2832	92.0	930	842	775	2400		
3000	3008	3032	97.8	820	820	770	2600		
3200	3208	3232	104.9	808	808	765	2800		

CARRYING ROLLER Ø194



TYPE—**C**

BEARING—**6308 C3**

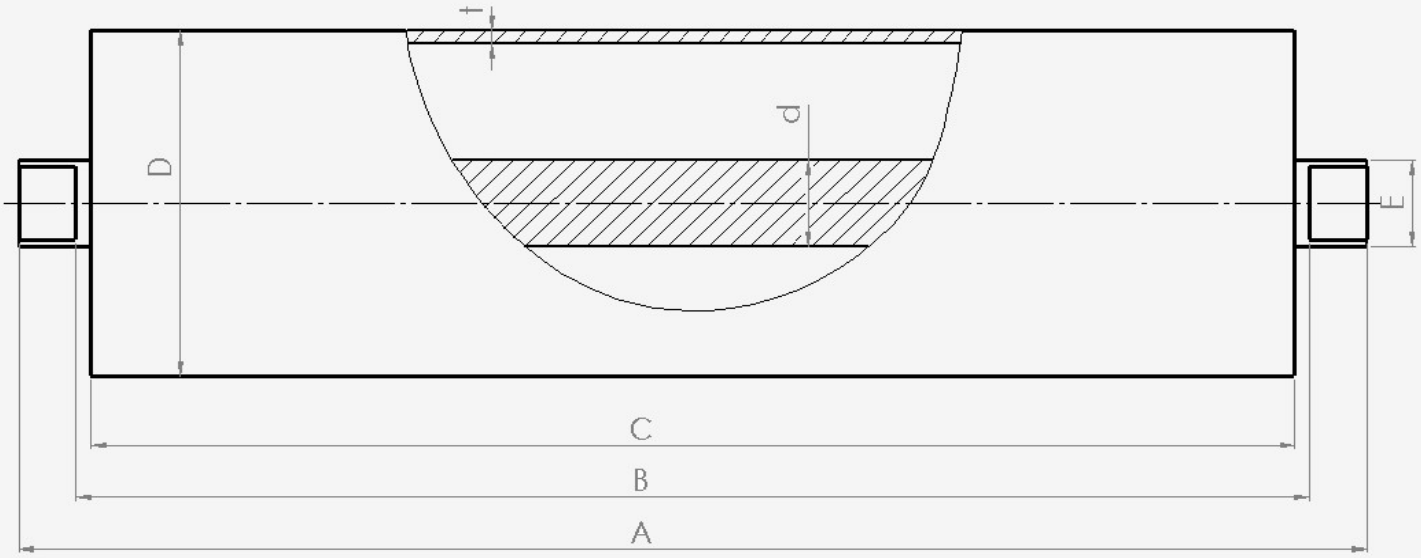
SHAFT Ød = **40 mm**

t = 6.3 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
600	608	632	29.7	720	655	610			1600
670	678	702	32.4	720	655	610			1800
750	758	782	35.5	720	655	610			2000
800	808	832	37.5	720	654	610			2200
900	9088	932	41.4	720	55	610		1600	2400
950	958	982	43.3	720	655	610			2600
1000	1008	1032	45.3	720	655	610		1800	
1050	1058	1082	47.2	720	655	610			2800
1100	1108	1132	49.2	720	655	610		2000	
1120	1128	1152	49.9	720	655	610			3000
1250	1258	1282	55.0	720	655	610		2200	
1400	1408	1432	60.9	720	655	610		2400	
1600	1608	1632	68.6	720	655	610		2800	
1700	1708	1732	72.5	720	655	610		3000	
1800	1808	1832	76.4	720	655	610	1600		
2000	2008	2032	84.2	720	655	610	1800		
2200	2208	2232	92.0	675	655	610	2000		
2500	2508	2532	103.7	595	595	595	2200		
2800	2808	2832	115.4	535	535	535	2400		
3000	3008	3032	123.2	500	500	500	2600		

CARRYING ROLLER Ø194



TYPE—**C**

BEARING—**6310 C3**

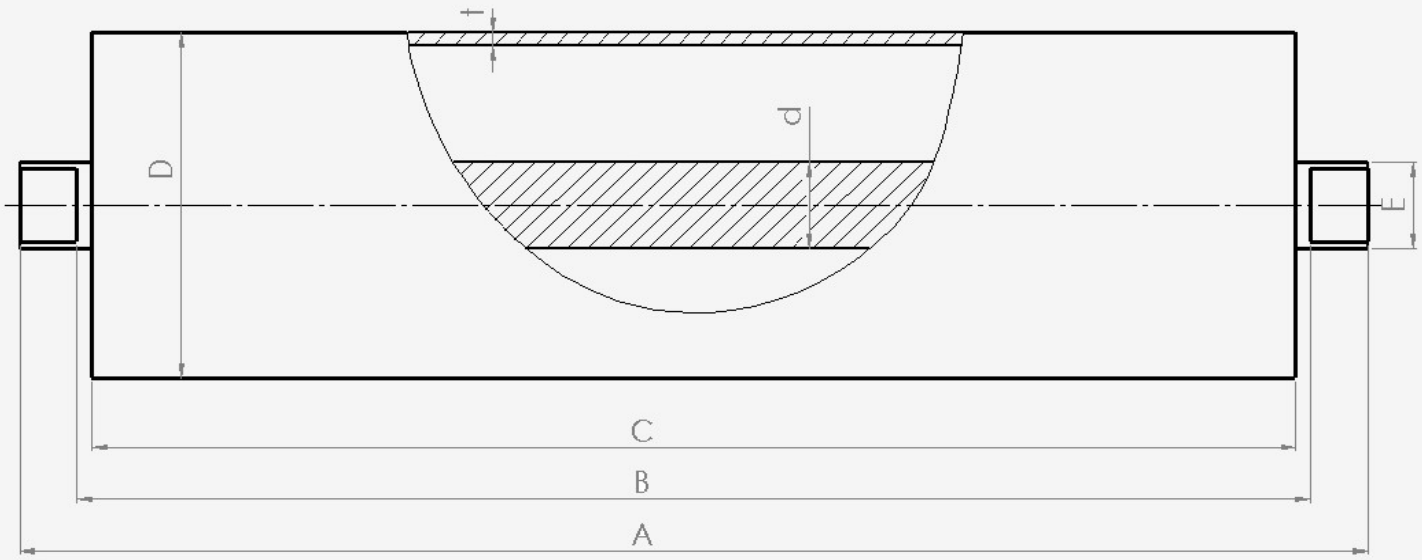
SHAFT Ød = **50 mm**

t = 8 mm

Other lengths, shafts and coatings are available on request.

ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
600	608	632	33.0	1008	917	854			1600
670	678	702	36.1	1008	917	854			1800
750	758	782	38.2	1008	917	854			2000
800	808	832	42.0	1008	917	854			2200
900	908	932	44.5	1008	917	854		1600	2400
950	958	982	46.8	1008	917	854			2600
1000	1008	1032	49.0	1008	917	854		1800	
1050	1058	1082	50.6	1008	917	854			2800
1100	1108	1132	52.6	1008	917	854		2000	
1120	1128	1152	56.0	1008	917	854			3000
1250	1258	1282	60.2	1008	917	854		2200	
1400	1408	1432	68.6	1008	917	854		2400	
1600	1608	1632	74.0	1008	917	854		2800	
1700	1708	1732	76.5	1008	917	854		3000	
1800	1808	1832	82.5	1008	917	854	1600		
2000	2008	2032	92.0	1008	917	854	1800		
2200	2208	2232	104.0	945	917	854	2000		
2500	2508	2532	119.5	833	833	833	2200		
2800	2808	2832	124.0	749	749	749	2400		
3000	3008	3032	135.3	700	700	700	2600		
3200	3208	3232	142.2	658	658	658	2800		

CARRYING ROLLER Ø194



TYPE—**C**

BEARING—**6312 C3**

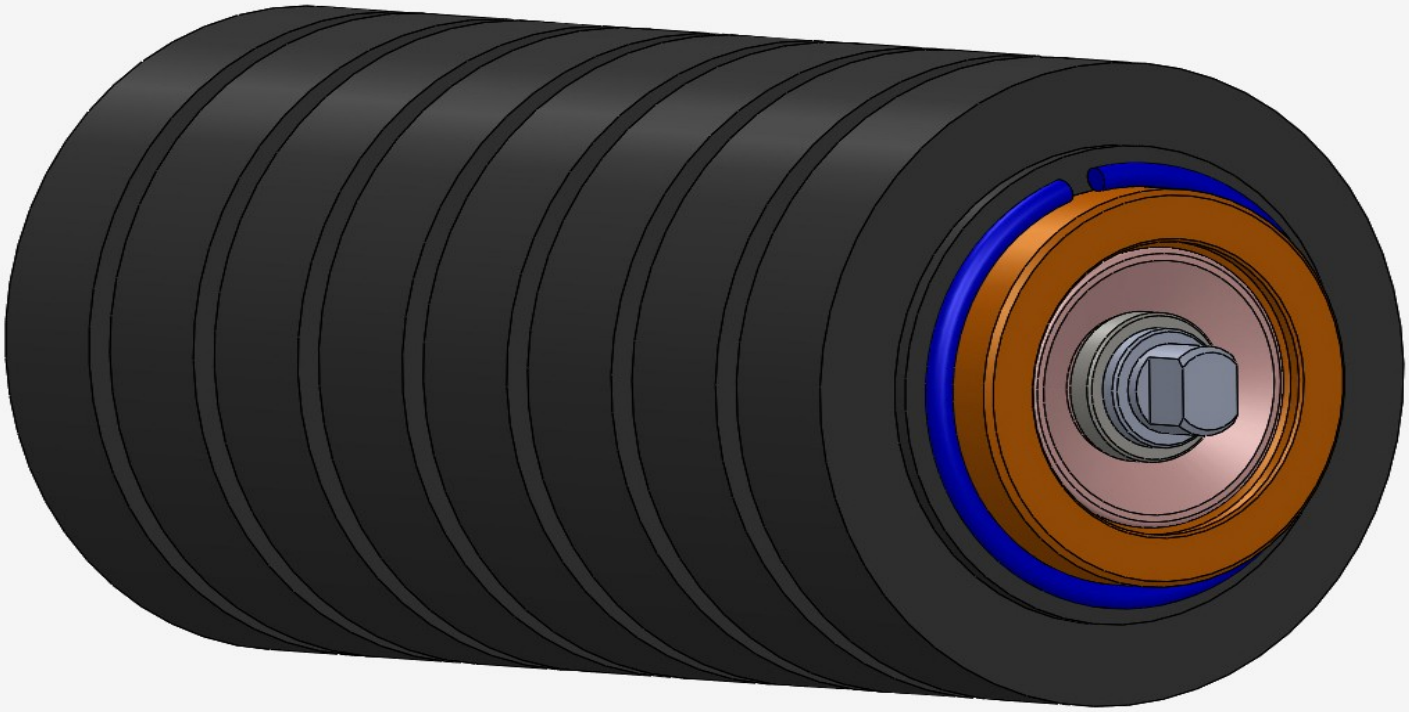
SHAFT Ød = **60 mm**

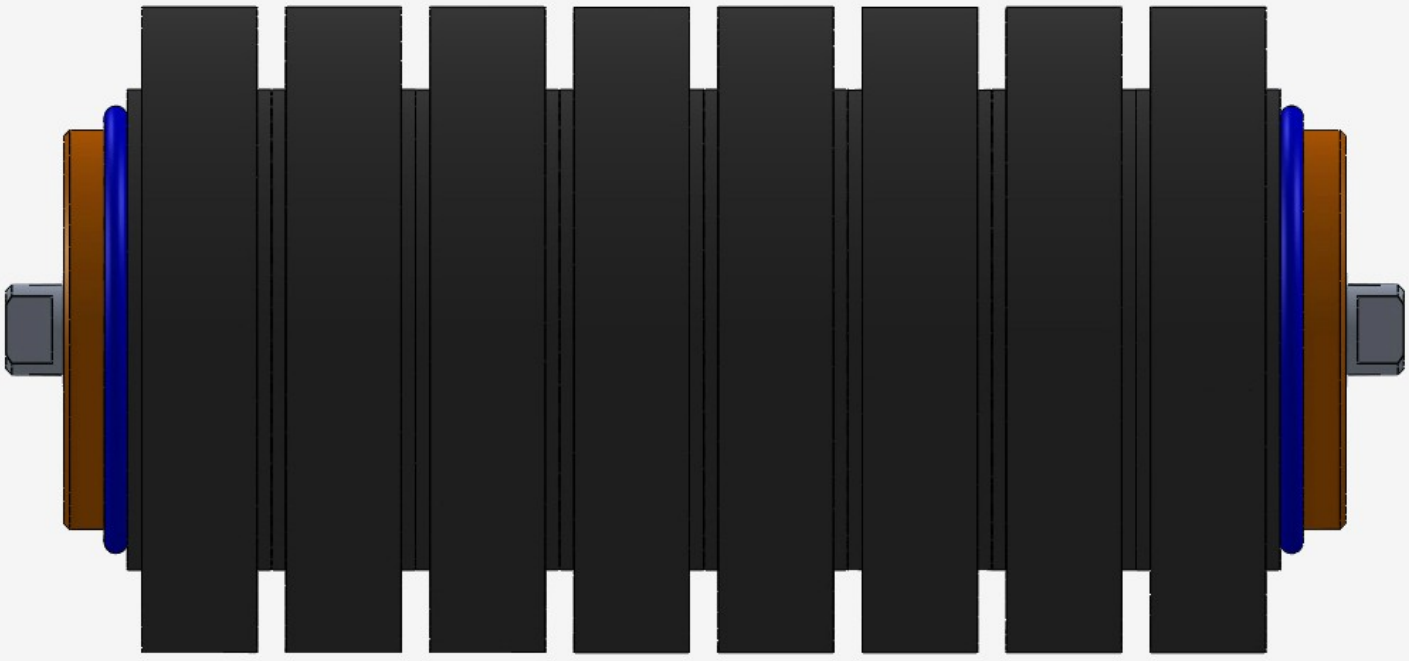
t = 8 mm

Other lengths, shafts and coatings are available on request.

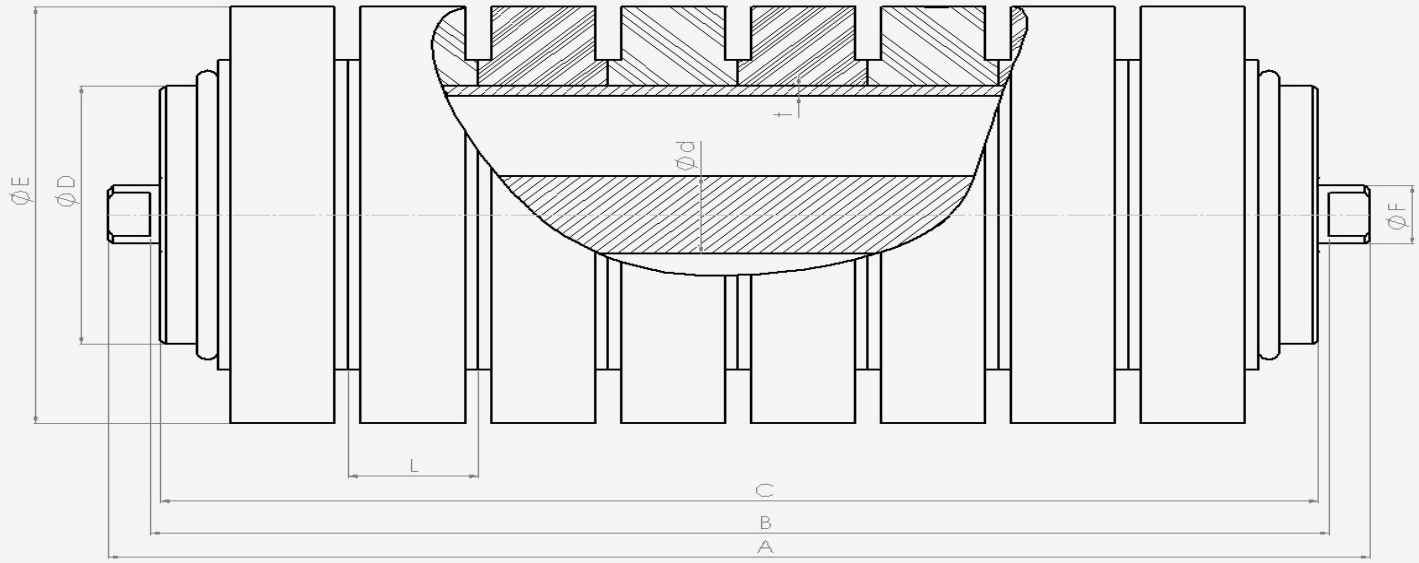
ROLLER							BELT		
DIMENSIONS (mm)			WEIGHT (kg)	CARRIAGE WEIGHT (daN)			WIDTH (mm)		
C	B	A	TOTAL	BELT SPEED (m/s)					
				1	1.5	2			
600	608	632	33.0	1008	917	854			1600
670	678	702	36.1	1008	917	854			1800
750	758	782	38.2	1008	917	854			2000
800	808	832	42.0	1008	917	854			2200
900	908	932	44.5	1008	917	854		1600	2400
950	958	982	46.8	1008	917	854			2600
1000	1008	1032	49.0	1008	917	854		1800	
1050	1058	1082	50.6	1008	917	854			2800
1100	1108	1132	52.6	1008	917	854		2000	
1120	1128	1152	56.0	1008	917	854			3000
1250	1258	1282	60.2	1008	917	854		2200	
1400	1408	1432	68.6	1008	917	854		2400	
1600	1608	1632	74.0	1008	917	854		2800	
1700	1708	1732	76.5	1008	917	854		3000	
1800	1808	1832	82.5	1008	917	854	1600		
2000	2008	2032	92.0	1008	917	854	1800		
2200	2208	2232	104.0	945	917	854	2000		
2500	2508	2532	119.5	833	833	833	2200		
2800	2808	2832	124.0	749	749	749	2400		
3000	3008	3032	135.3	700	700	700	2600		
3200	3208	3232	142.2	658	658	658	2800		

IMPACT ROLLERS





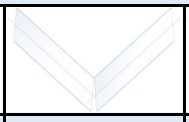
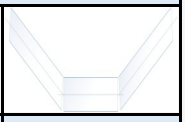
IMPACT ROLLER Ø63/89



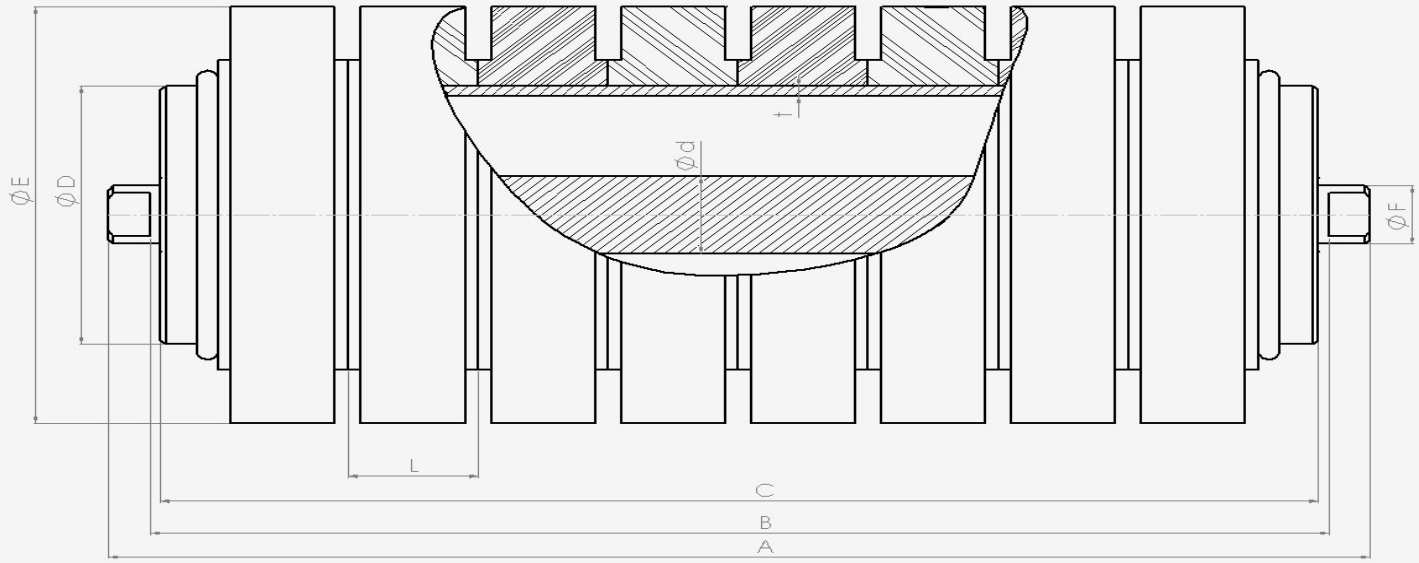
TYPE—**I** t = 3 mm L = 30 mm D = 63.5 E = 89 mm

BEARING—**6204 C3** Other lengths, shafts and coatings are available on request.

SHAFT Ød = **20 mm**

ROLLER				RUBBER RINGS WIDTH (mm)	BELT		
DIMENSIONS (mm)			WEIGHT (mm)		WIDTH (mm)		
C	B	A	TOTAL	Qnty OF RUBBER RINGS			
160	168	186	2.1	5			400
200	208	226	2.4	6		300	500
250	258	276	2.7	8		400	650
315	323	341	3.2	10		500	800
380	388	406	3.6	12	300	650	1000
465	473	491	4.2	15		800	1200
500	508	526	4.4	16	400		
530	538	556	4.7	17			1400
600	608	626	5.1	19	500	1000	
700	708	726	5.8	23		1200	
750	758	776	6.2	24	650		
800	808	826	6.6	26		1400	
950	958	976	7.6	31	800		
1150	1158	1176	9.0	38	1000		
1400	1408	1426	10.7	46	1200		
1600	1608	1626	12.7	53	1400		

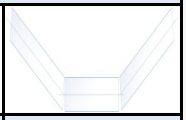
IMPACT ROLLER Ø63/108



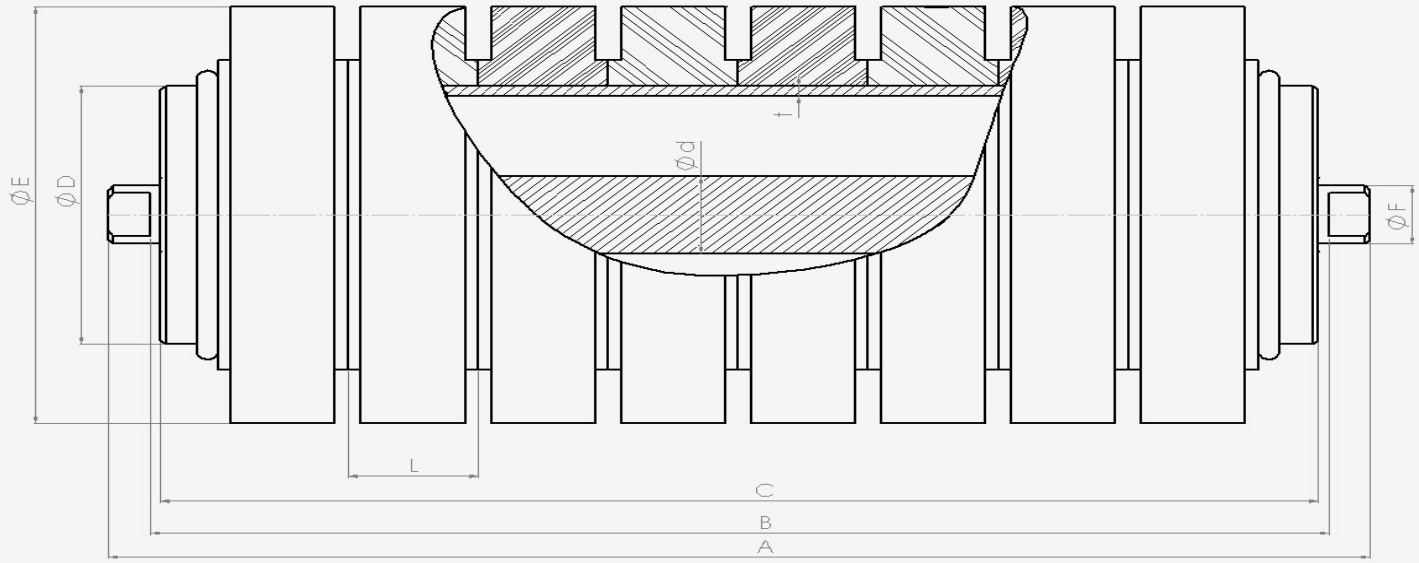
TYPE—**I** t = 3 mm L = 35 mm D = 63.5 E = 108 mm

BEARING—**6204 C3** Other lengths, shafts and coatings are available on request.

SHAFT Ød = **20 mm**

ROLLER				RUBBER RINGS WIDTH (mm)	BELT		
DIMENSIONS (mm)			WEIGHT (mm)		WIDTH (mm)		
			TOTAL	Qnty OF RUBBER RINGS			
160	168	186	2.1	4			400
200	208	226	2.4	5		300	500
250	258	276	2.7	6		400	650
315	323	341	3.2	8		500	800
380	388	406	3.6	10	300	650	1000
465	473	491	4.2	13		800	1200
500	508	526	4.4	14	400		
530	538	556	4.7	14			1400
600	608	626	5.1	16	500	1000	
700	708	726	5.8	19		1200	
750	758	776	6.2	21	650		
800	808	826	6.6	22		1400	
950	958	976	7.6	26	800		
1150	1158	1176	9.0	32	1000		
1400	1408	1426	10.7	39	1200		
1600	1608	1626	12.7	45	1400		

IMPACT ROLLER Ø89/133



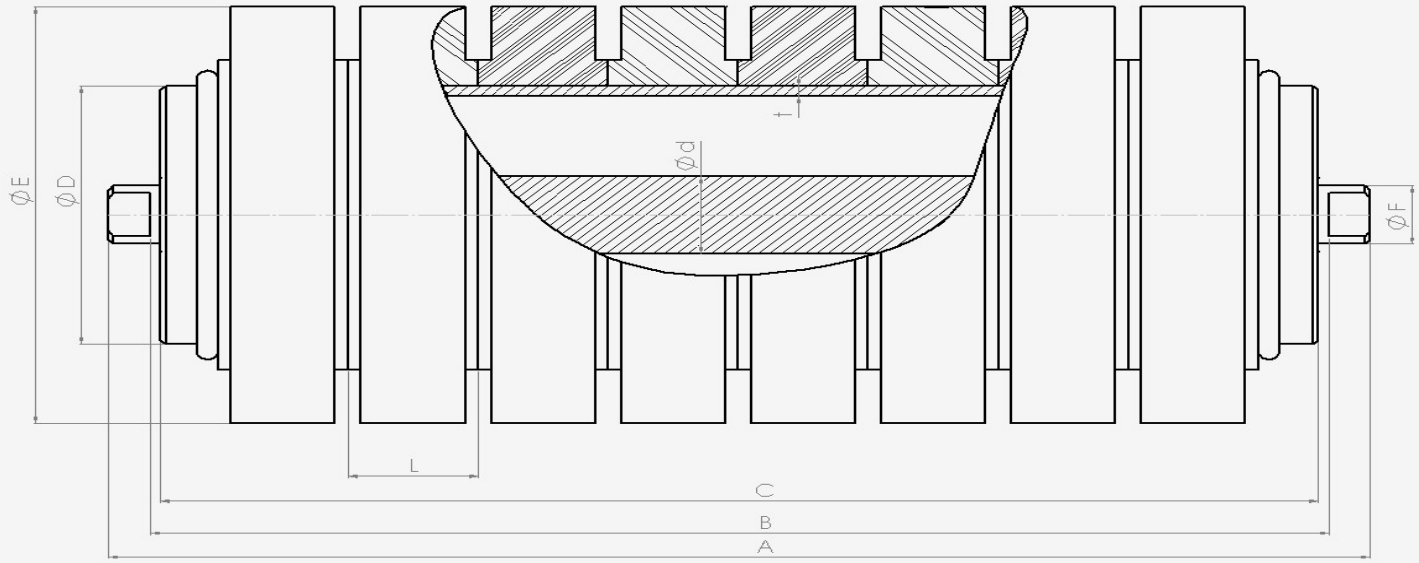
TYPE—**I** t = 5 mm L = 30 mm D = 89 E = 133 mm

BEARING—**6204 C3-A1, 6305 C3-A2, 6306 C3-A3**

SHAFT Ød = **20-25-30 mm** Other lengths, shafts and coatings are available on request.

ROLLER DIMENSIONS (mm)					RUBBER RINGS	BELT WIDTH (mm)		
C	B	A_1	A_2	A_3	Qnty OF RUBBER RINGS			
200	208	226	232	232	6			500
250	258	276	282	282	8			650
315	323	341	347	347	10		500	800
380	388	406	412	412	12		650	1000
465	473	491	497	497	15		800	1200
530	538	556	562	562	17			1400
600	608	626	632	632	20	500	1000	1600
670	678	686	702	702	22			1800
700	708	726	732	732	23		1200	
750	758	776	782	782	24	650		200
800	808	826	832	832	26		1400	
900	908	926	932	932	29		1600	
950	958	976	982	982	31	800		
1000	1008	1026	1032	1032	33		1800	
1100	1108	1126	1132	1132	36		2000	
1150	1158	1176	1182	1182	38	1000		
1400	1408	1426	1432	1432	46	1200		
1600	1608	1626	1632	1632	53	1400		
1800	1808		1832	1832	59	1600		
2000	2008			2032	66	1800		

IMPACT ROLLER Ø89/159



TYPE—**I** t = 5 mm L = 30 mm D = 89 E = 159 mm

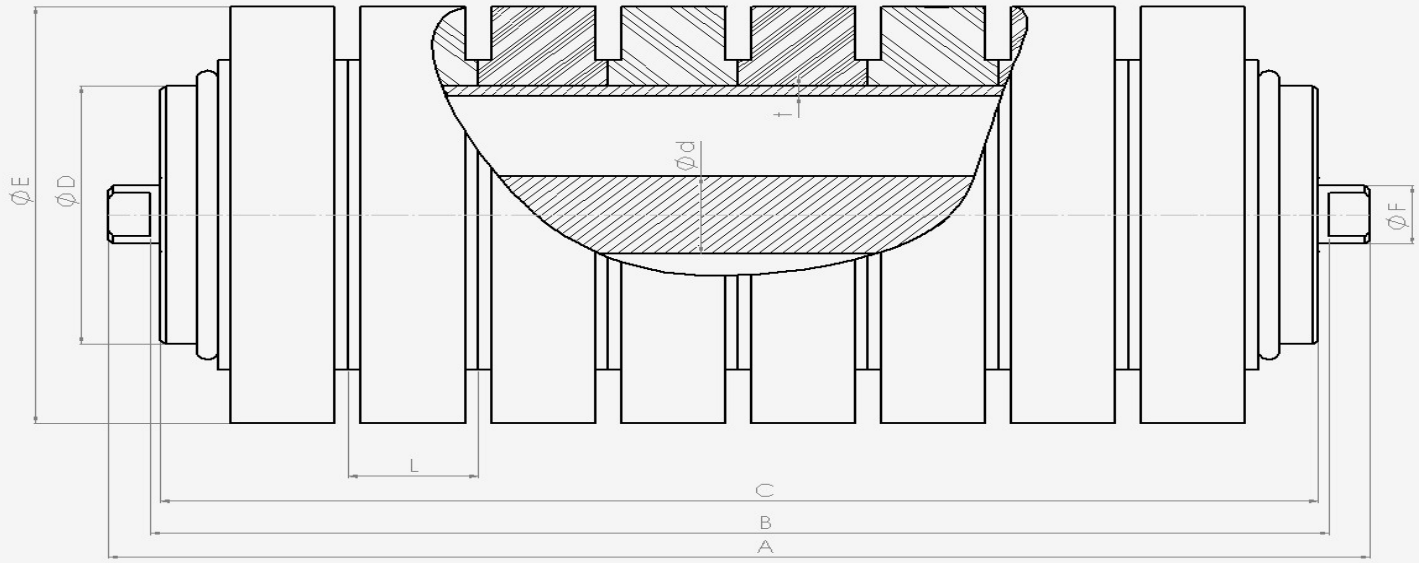
BEARING—**6204 C3-A1, 6305 C3-A2, 6306 C3-A3**

SHAFT Ød = **20-25-30 mm** Other lengths, shafts and coatings are available on request.

ROLLER DIMENSIONS (mm)					RUBBER RINGS	BELT WIDTH (mm)		
C	B	A_2	A_2	A_3	Qnty OF RUBBER RINGS			
315	323	341	347	347	10			800
380	388	406	412	412	12			1000
465	473	491	497	497	15		800	1200
530	538	556	562	562	17			1400
600	608	626	632	632	19		1000	1600
670	678	696	702	702	22			1800
700	708	726	732	732	23		1200	
750	758	776	782	782	24			2000
800	808	826	832	832	26		1400	
900	908	926	932	932	29		1600	
950	958	976	982	982	31	800		
1000	1008	1026	1032	1032	33		1800	
1100	1108	1126	1132	1132	36		2000	
1150	1158	1176	1182	1182	38	1000		
1400	1408	1426	1432	1432	46	1200		
1600	1608	1626	1632	1632	53	1400		
1800	1808		1832	1832	59	1600		
2000	2008			2032	66	1800		

IMPACT ROLLERS

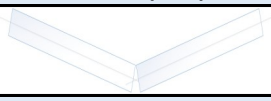
IMPACT ROLLER Ø108/180



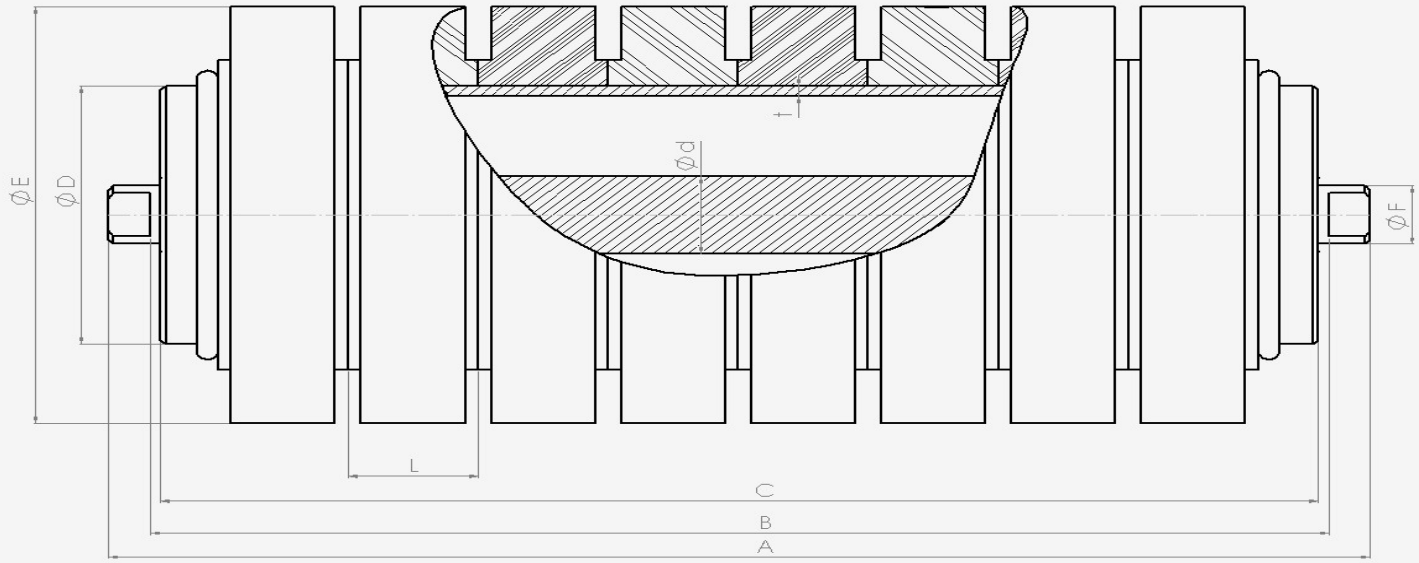
TYPE—**I** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6305 C3-A1, 6306 C3-A2, 6308 C3-A3**

SHAFT Ød = **25—30—40 mm** Other lengths, shafts and coatings are available on request.

ROLLER			RUBBER RINGS	BELT		
DIMENSIONS (mm)			Qnty OF RUBBER RINGS	WIDTH (mm)		
C	B	A				
600	608	632	14			1600
670	678	702	16			1800
750	758	782	18			2000
800	808	832	19			2200
900	908	932	22		1600	2400
950	958	982	23			2600
1000	1008	1032	24		1800	
1050	1058	1082	26			2800
1100	1108	1132	27		2000	
1120	1128	1152	27			3000
1250	1258	1282	31		2200	
1400	1408	1432	34		2400	
1500	1508	1532	37		2600	
1600	1608	1632	39		2800	
1800	1808	1832	44	1600		
2000	2008	2032	49	1800		
2200	2208	2232	54	2000		
2500	2508	2532	62	2200		
2800	2808	2832	69	2400		

IMPACT ROLLER Ø133/194



TYPE—**I** t = 5—7.1 mm L = 40 mm D = 133 E = 194 mm

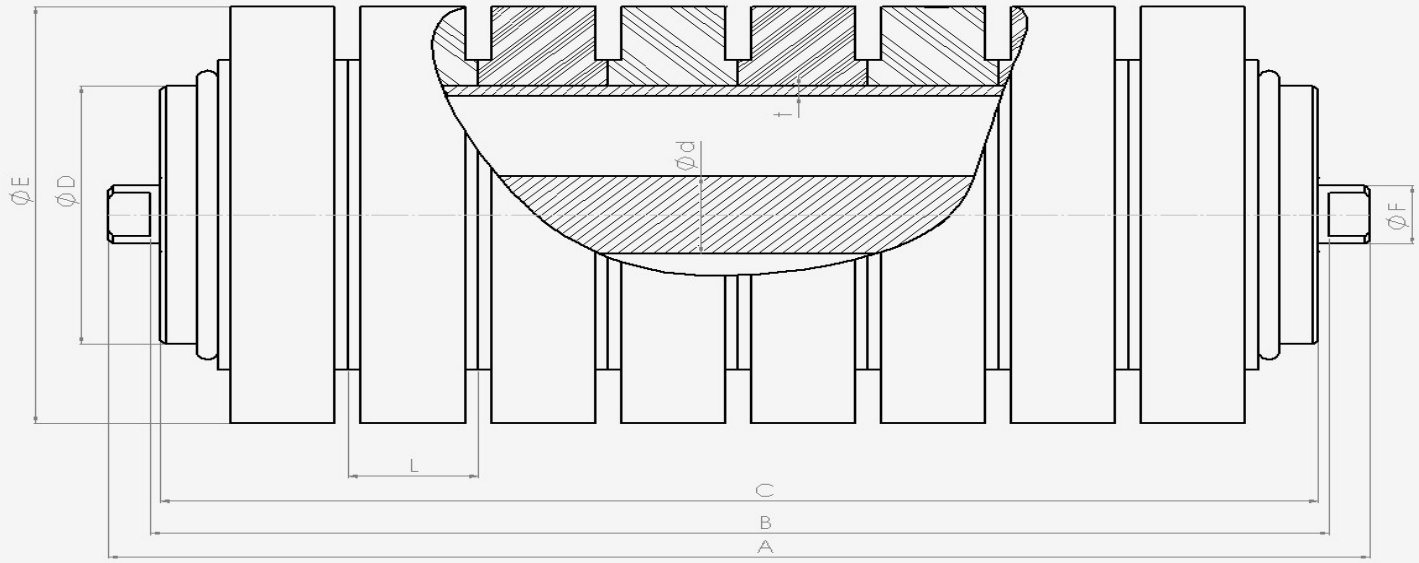
BEARING—**6305 C3, 6306 C3, 6308 C3**

SHAFT Ød = **25—30—40 mm** Other lengths, shafts and coatings are available on request.

ROLLER			RUBBER RINGS	BELT		
DIMENSIONS (mm)			Qnty OF RUBBER RINGS	WIDTH (mm)		
C	B	A				
600	608	632	14			1600
670	678	702	16			1800
750	758	782	18			2000
800	808	832	19			2200
900	908	932	22		1600	2400
950	958	982	23			2600
1000	1008	1032	24		1800	
1050	1058	1082	26			2800
1100	1108	1132	27		2000	
1120	1128	1152	27			3000
1250	1258	1282	31		2200	
1400	1408	1432	34		2400	
1500	1508	1532	37		2600	
1600	1608	1632	39		2800	
1800	1808	1832	44	1600		
2000	2008	2032	49	1800		
2200	2208	2232	54	2000		
2500	2508	2532	62	2200		
2800	2808	2832	69	2400		

IMPACT ROLLERS

IMPACT ROLLER Ø133/215



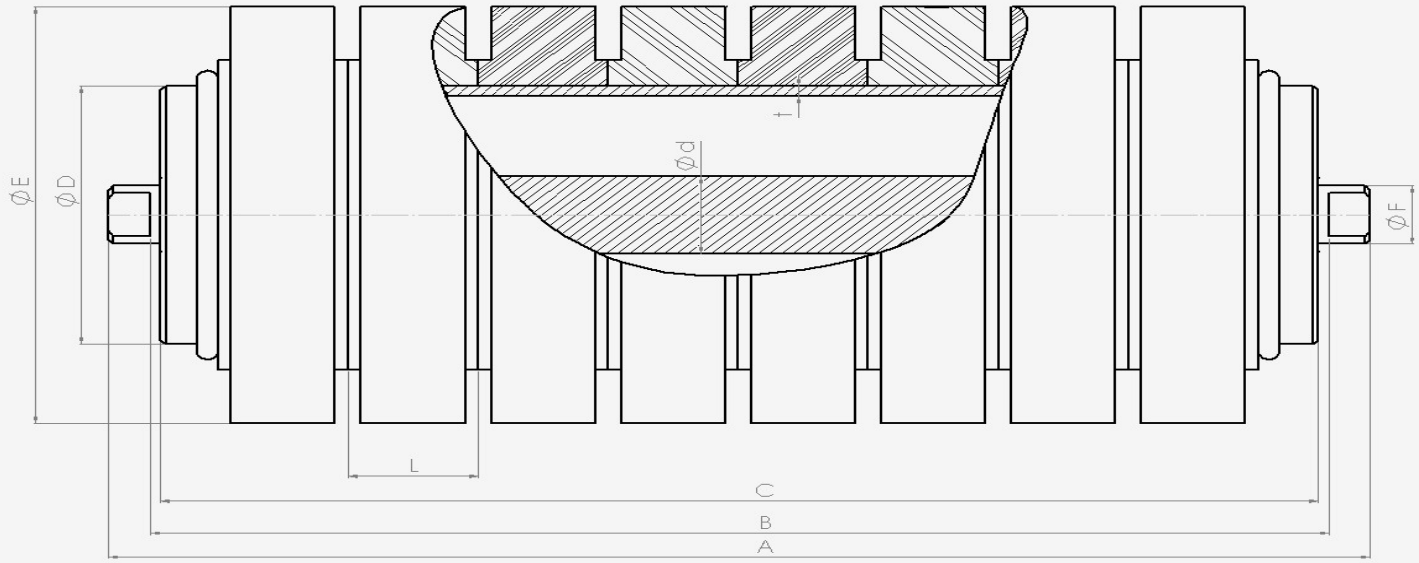
TYPE—**I** t = 5—7.1 mm L = 50 mm D = 133 E = 215 mm

BEARING—**6305 C3, 6306 C3, 6308 C3**

SHAFT Ød = **25—30—40 mm** Other lengths, shafts and coatings are available on request.

ROLLER			RUBBER RINGS	BELT		
DIMENSIONS (mm)			Qnty OF RUBBER RINGS	WIDTH (mm)		
C	B	A				
670	678	702	13			1800
750	758	782	14			2000
800	808	832	15			2200
900	908	932	17			2400
950	958	982	18			2600
1000	1008	1032	19		1800	
1050	1058	1082	20			2800
1100	1108	1132	21		2000	
1120	1128	1152	22			3000
1250	1258	1282	24		2200	
1400	1408	1432	27		2400	
1500	1508	1532	29		2600	
1600	1608	1632	31		2800	
2000	2008	2032	39	1800		
2200	2208	2232	43	2000		
2500	2508	2532	49	2200		
2800	2808	2832	55	2400		

IMPACT ROLLER Ø159/233



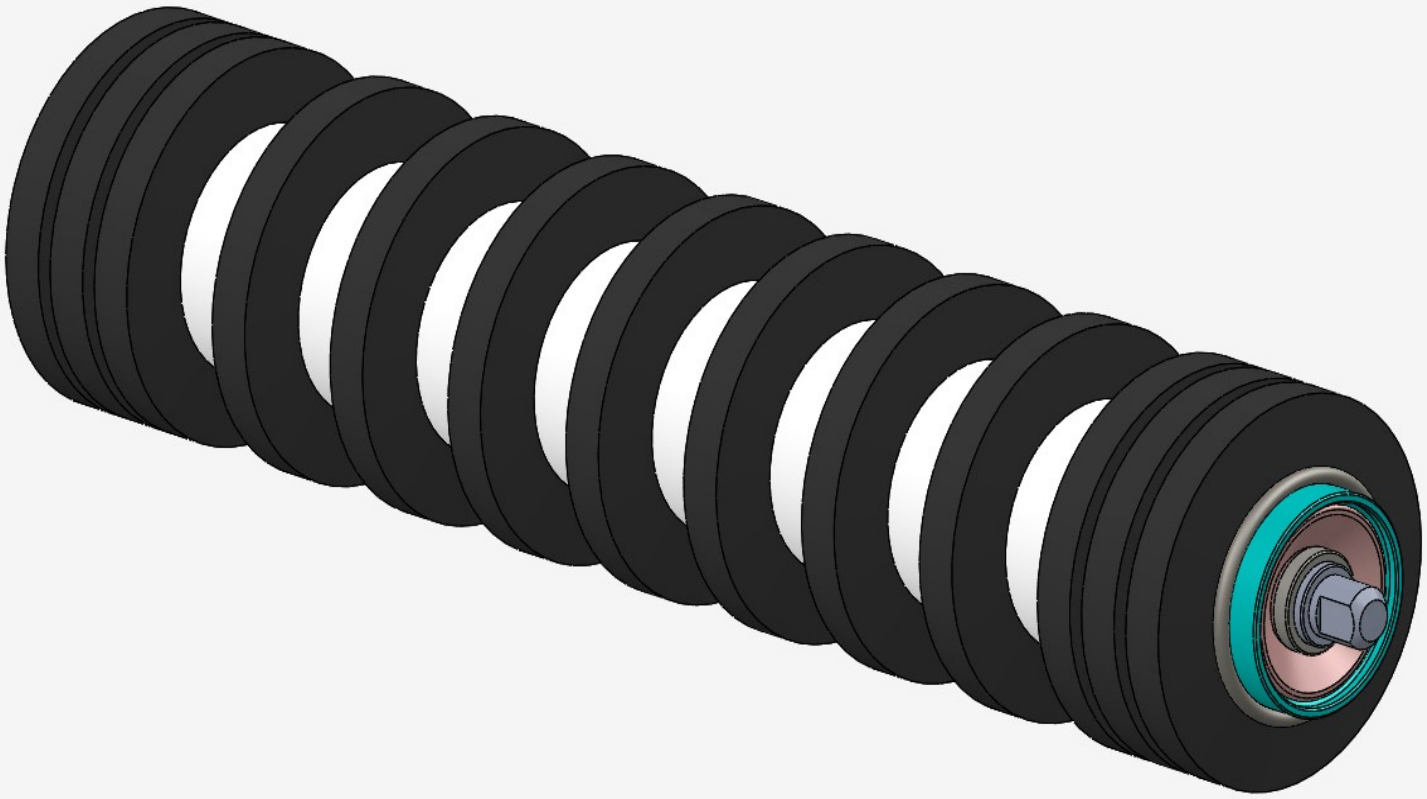
TYPE—**I** t = 6.3—8 mm L = 50 mm D = 159 E = 233.5 mm

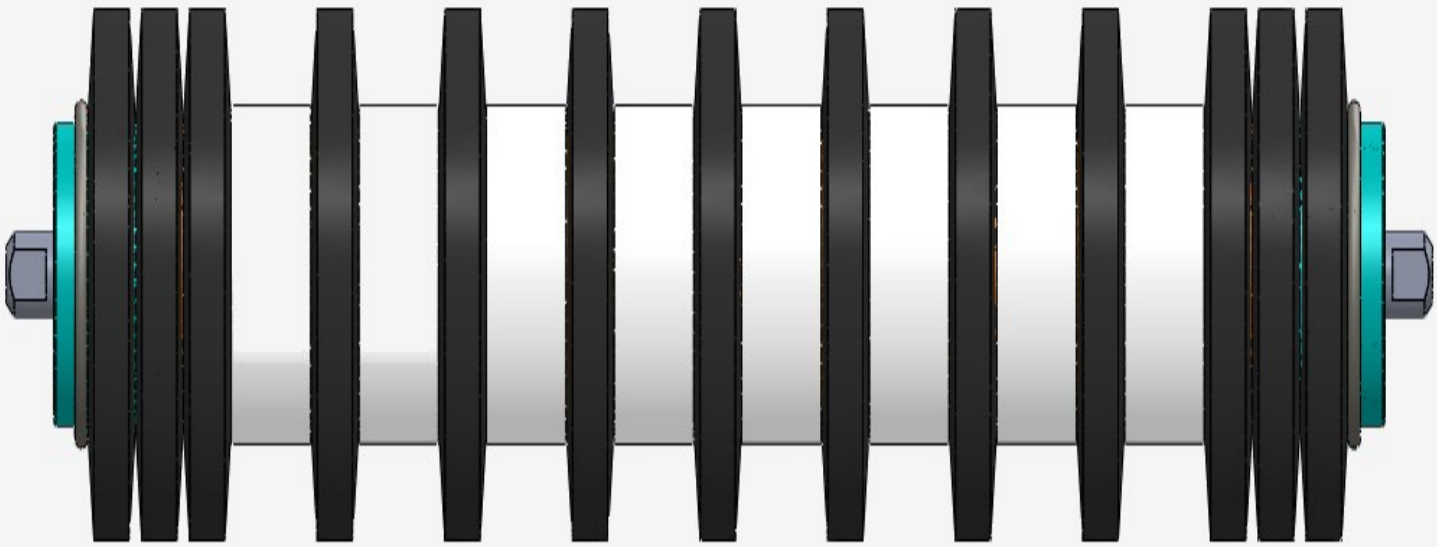
BEARING—**6306 C3, 6308 C3, 6310 C3**

SHAFT Ød = **30—40—50 mm** Other lengths, shafts and coatings are available on request.

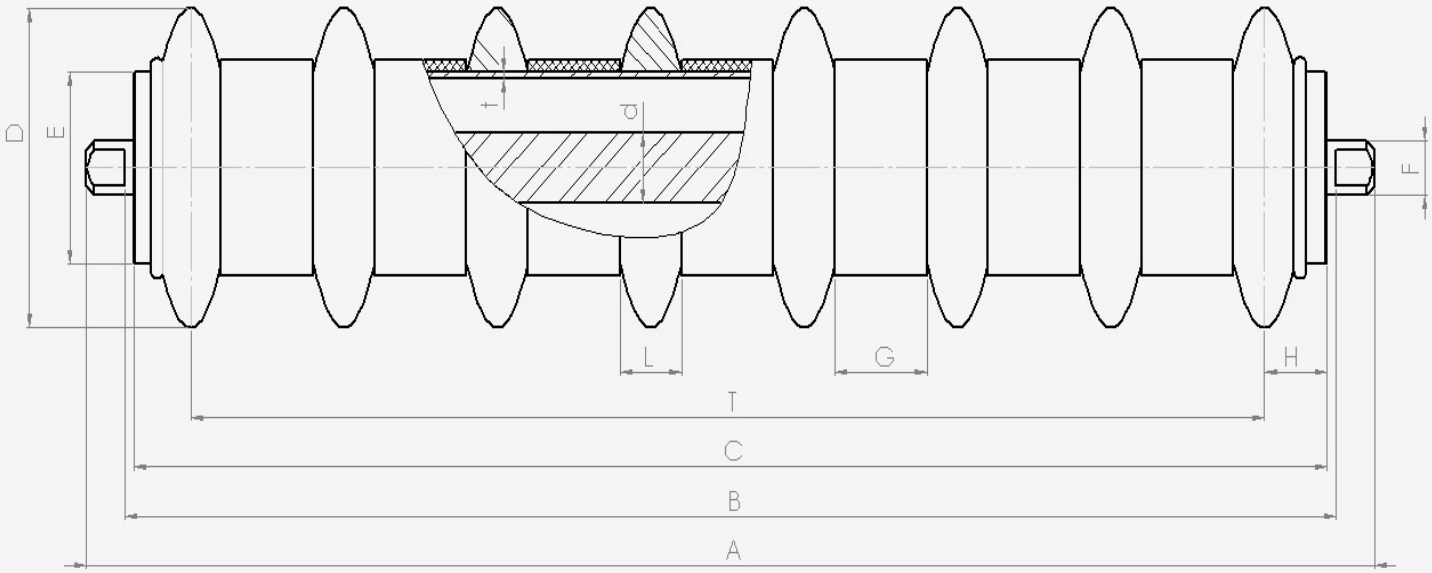
ROLLER			RUBBER RINGS	BELT		
DIMENSIONS (mm)			Qnty OF RUBBER RINGS	WIDTH (mm)		
C	B	A				
670	678	702	13			1800
750	758	782	14			2000
800	808	832	15			2200
900	908	932	17			2400
950	958	982	18			2600
1000	1008	1032	19		1800	
1050	1058	1082	20			2800
1100	1108	1132	21		2000	
1120	1128	1152	22			3000
1250	1258	1282	24		2200	
1400	1408	1432	27		2400	
1500	1508	1532	29		2600	
1600	1608	1632	31		2800	
2000	2008	2032	39	1800		
2200	2208	2232	43	2000		
2500	2508	2532	49	2200		
2800	2808	2832	55	2400		

RETURN ROLLERS





RETURN ROLLER Ø63/108



TYPE—**R** t = 3 mm L = 25 mm D = 63.5 E = 108 mm

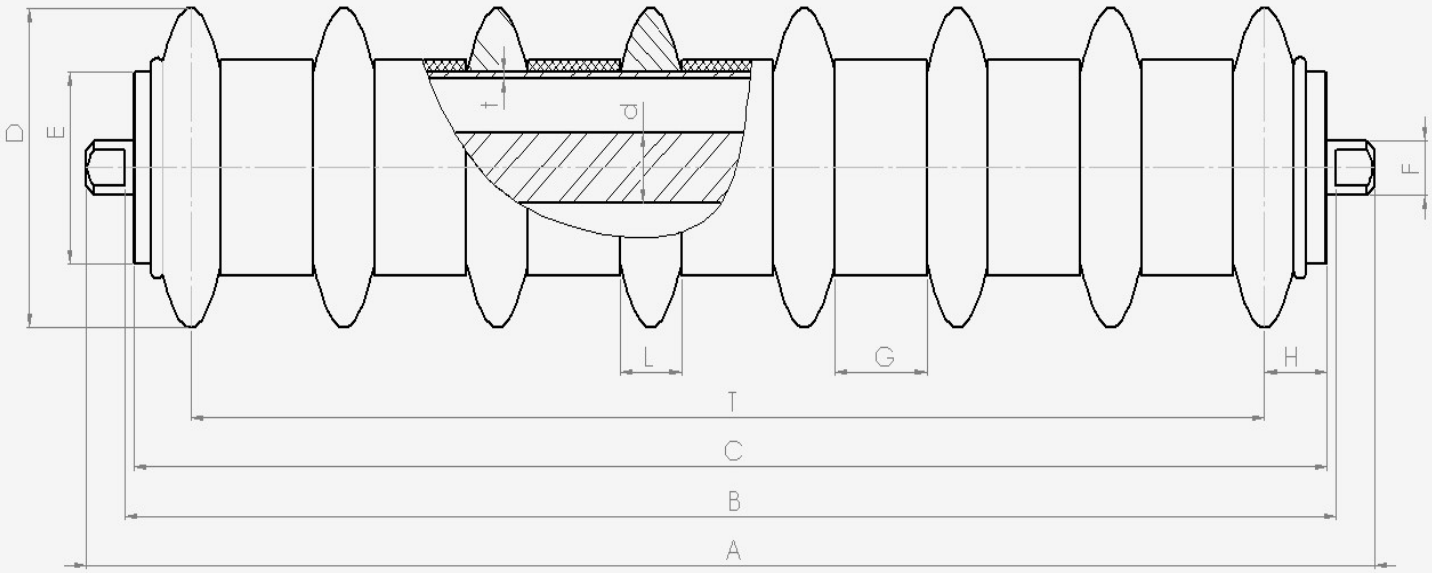
BEARING—**6204 C3**

SHAFT Ød = **20** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
380	388	406	3.6	4	330	25	300
500	508	526	4.4	5	450	25	400
600	608	526	5.1	6	550	25	500
750	758	776	6.2	7	700	25	650
950	958	976	7.6	8	870	40	800
1150	1158	1176	9.0	9	1070	40	1000
1400	1408	1426	10.7	10	1320	40	1200

RETURN ROLLERS

RETURN ROLLER Ø89/133



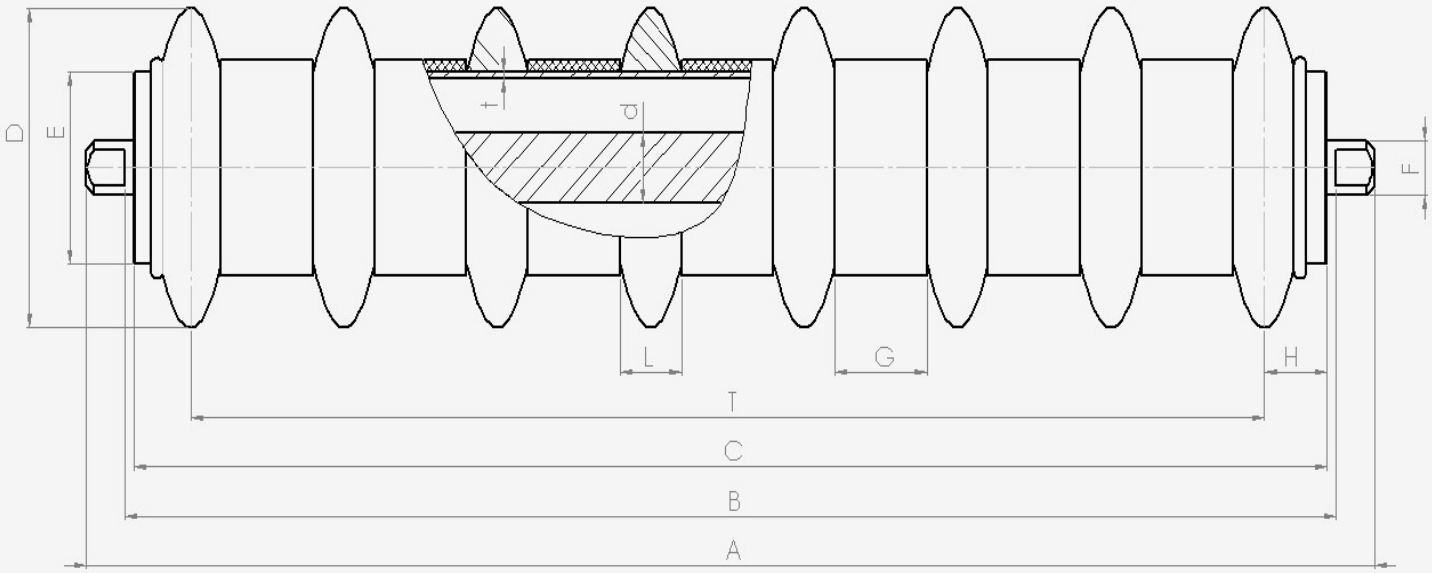
TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

BEARING—**6204 C3**

SHAFT Ød = **20** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
380	388	406	4.4	4	330	25	300
500	508	526	5.5	5	450	25	400
600	608	626	6.4	6	550	25	500
750	758	776	7.7	7	700	25	650
950	958	976	9.5	8	870	40	800
1150	1158	1176	11.3	9	1070	40	1000
1400	1408	1426	13.5	10	1320	40	1200
1600	1608	1626	15.3	11	1520	40	1400

RETURN ROLLER Ø89/133



TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

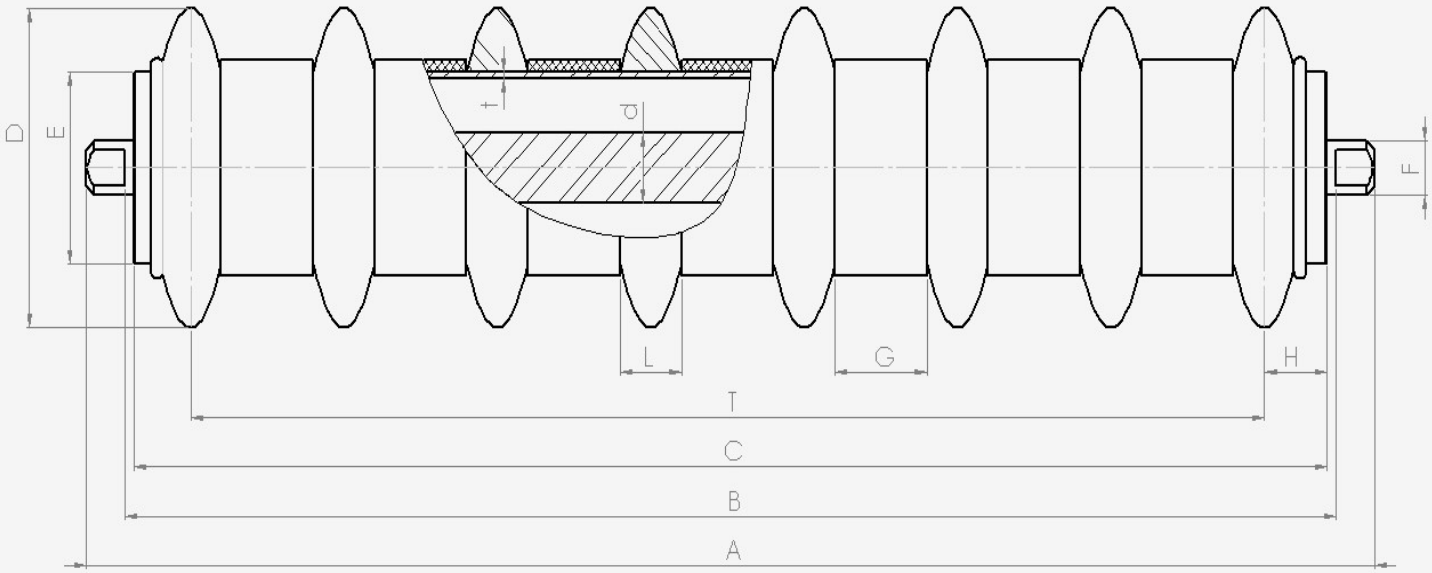
BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
600	608	626	7.8	6	550	25	500
750	758	776	9.3	7	700	25	650
950	958	976	11.4	8	870	40	800
1150	1158	1176	13.4	9	1070	40	1000
1400	1408	1426	16.0	10	1320	40	1200
1600	1608	1626	18.0	11	1520	40	1400

RETURN ROLLERS

RETURN ROLLER Ø89/133



TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

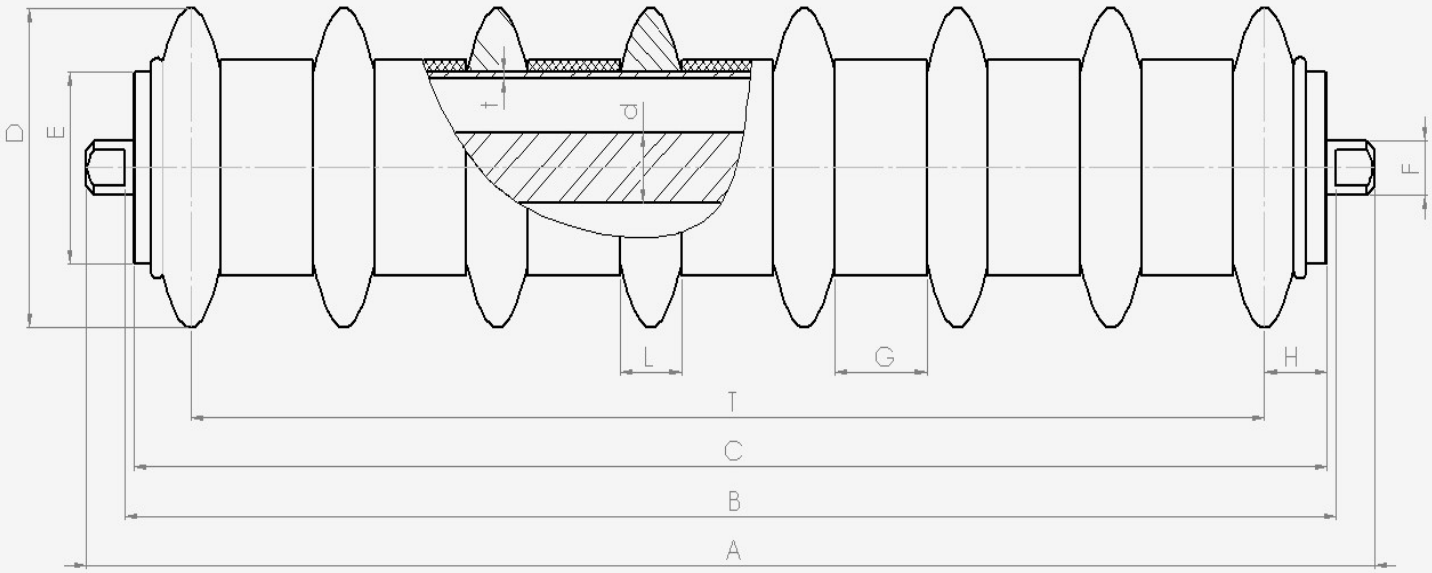
BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
600	608	632	13.9	6	550	25	500
750	758	782	16.6	7	700	25	650
950	958	982	20.3	8	870	40	800
1150	1158	1182	23.9	9	1070	40	1000
1400	1408	1432	28.5	10	1320	40	1200
1600	1608	1632	32.2	11	1520	40	1400
1800	1808	1832	35.8	12	1720	40	1600
2000	2008	2032	39.5	13	1920	40	1800
2200	2208	2232	43.1	14	2120	40	2000

RETURN ROLLERS

RETURN ROLLER Ø89/180



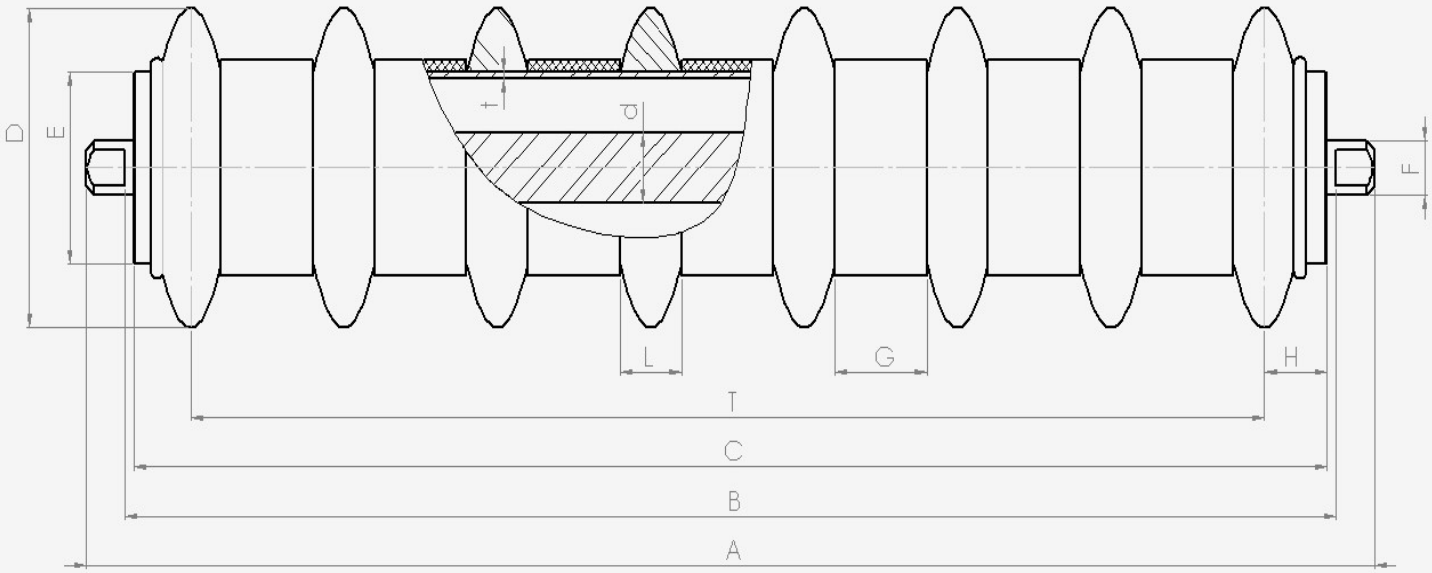
TYPE—**R** t = 5 mm L = 40 mm D = 89 E = 180 mm

BEARING—**6204 C3**

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
600	608	626	6.4	6	550	25	500
750	758	776	7.7	7	700	25	650
950	958	976	9.5	8	870	40	800
1150	1158	1176	11.3	9	1070	40	1000
1400	1408	1426	13.5	10	1320	40	1200
1600	1608	1626	15.3	11	1520	40	1400

RETURN ROLLER Ø89/180



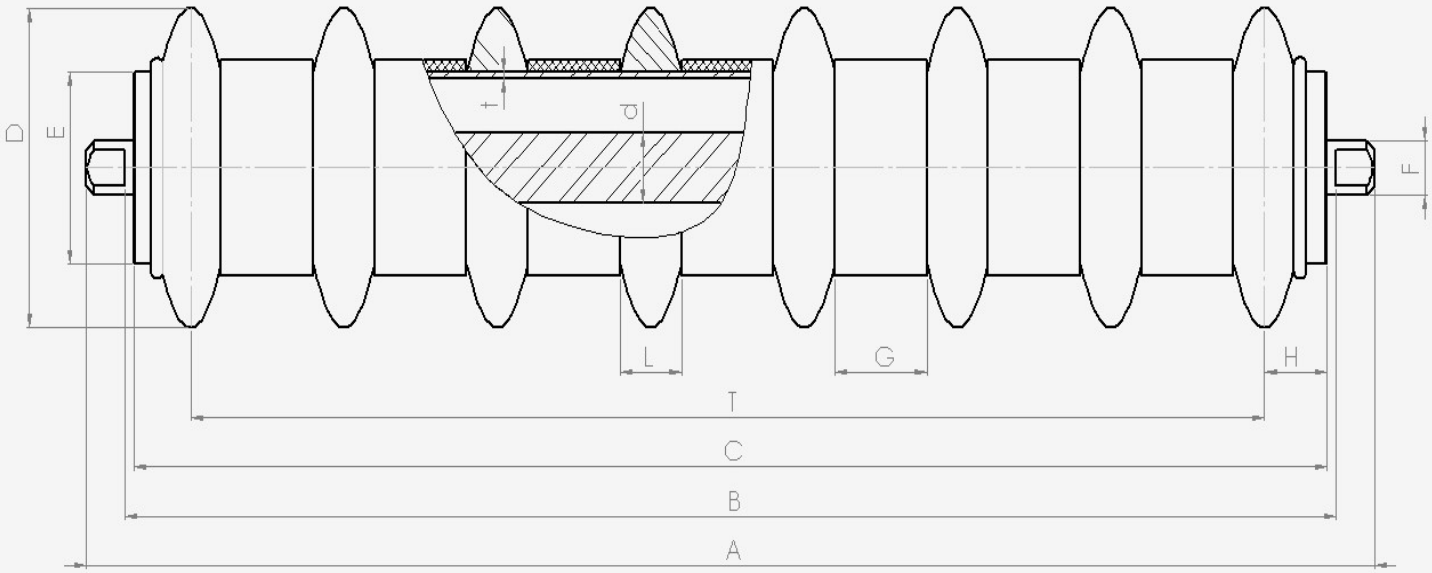
TYPE—**R** t = 5 mm L = 40 mm D = 89 E = 180 mm

BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
750	758	782	9.3	7	700	25	650
950	958	982	11.4	8	870	40	800
1150	1158	1182	13.4	9	1070	40	1000
1400	1408	1432	16.0	10	1320	40	1200
1600	1608	1632	18.0	11	1520	40	1400
1800	1808	1832	20.1	12	1720	40	1600

RETURN ROLLER Ø89/180



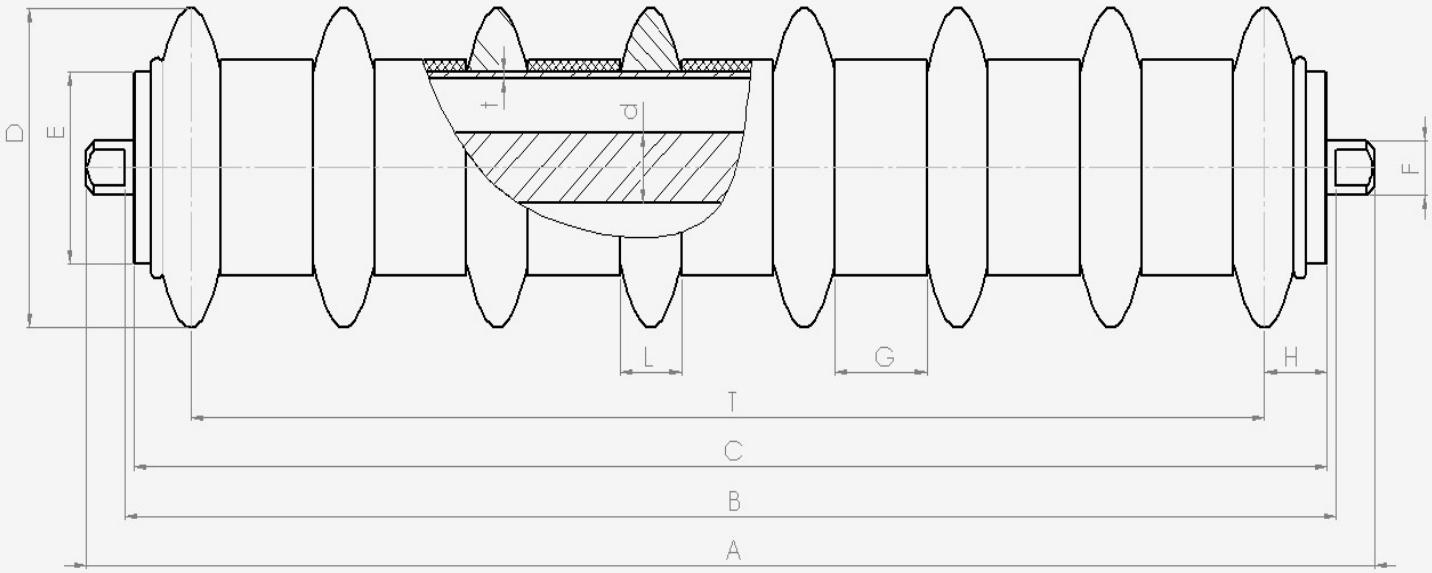
TYPE—**R** t = 5 mm L = 40 mm D = 89 E = 180 mm

BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
950	958	982	20.3	8	870	40	800
1150	1158	1182	23.9	9	1070	40	1000
1400	1408	1432	28.5	10	1320	40	1200
1600	1608	1632	32.2	11	1520	40	1400
1800	1808	1832	35.8	12	1720	40	1600
2000	2008	2032	39.5	13	1920	40	1800
2200	2208	2232	43.1	14	2120	40	2000

RETURN ROLLER Ø108/159



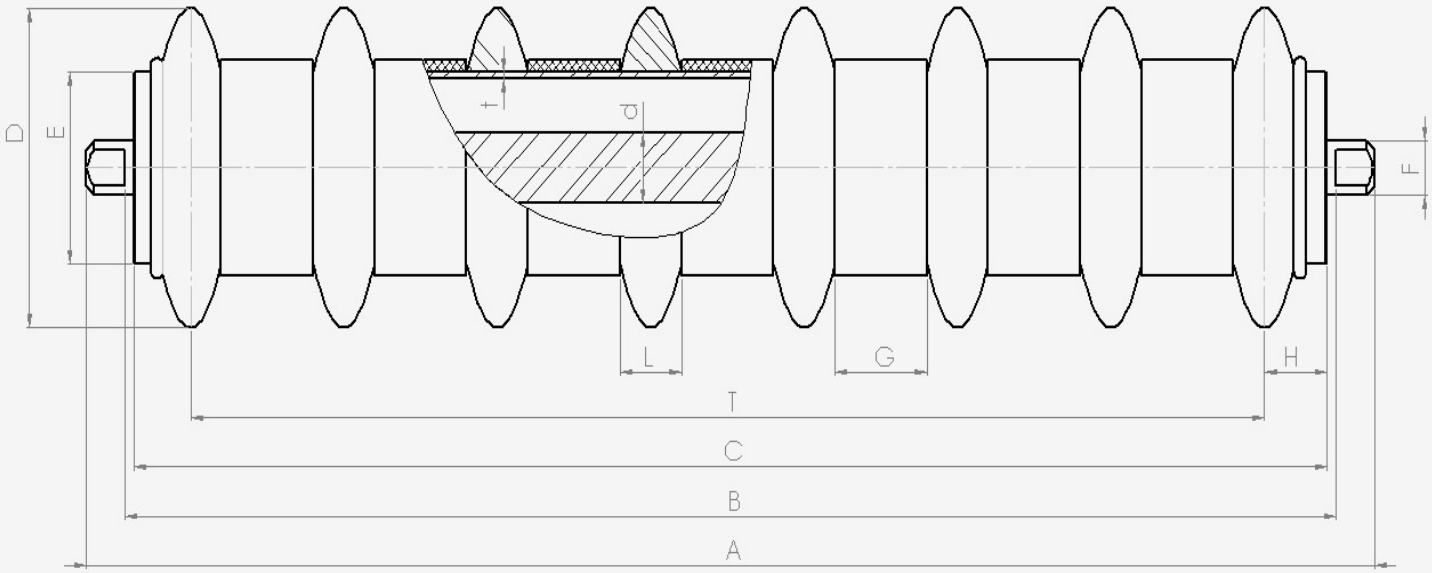
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
600	608	632	9.5	6	550	25	500
750	758	782	11.4	7	700	25	650
950	958	982	14.0	8	870	40	800
1150	1158	1182	16.6	9	1070	40	1000
1400	1408	1432	19.8	10	1320	40	1200
1600	1608	1632	22.4	11	1520	40	1400
1800	1808	1832	24.9	12	1720	40	1600

RETURN ROLLER Ø108/159



TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

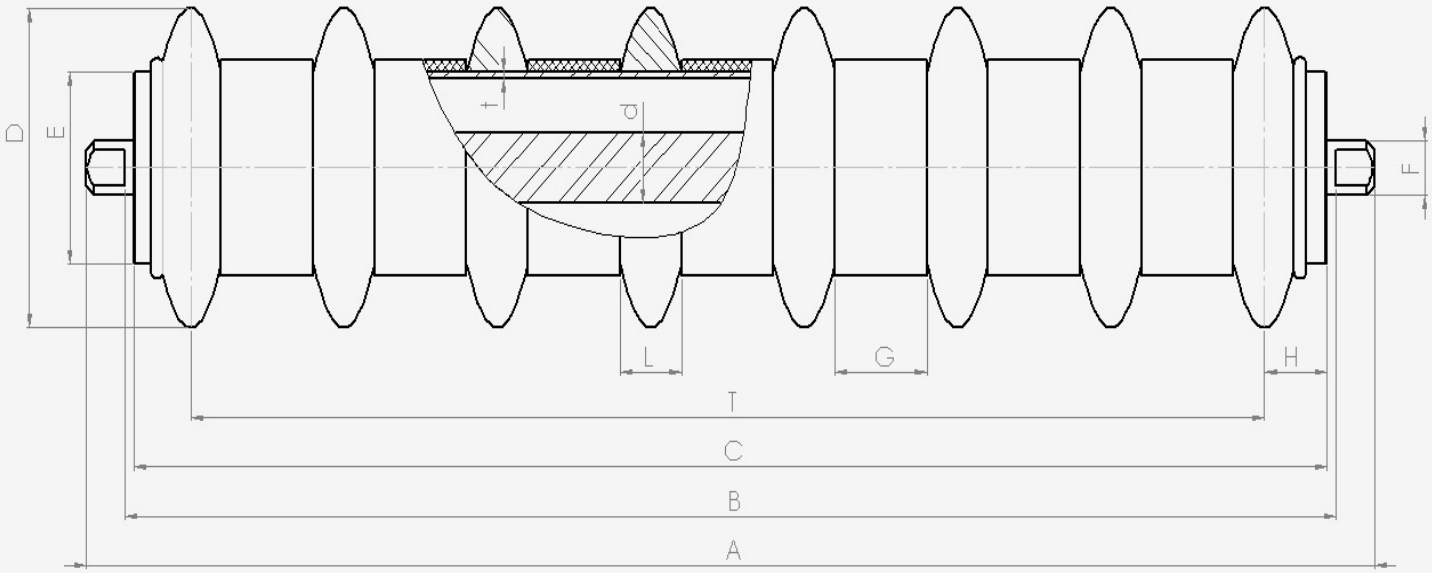
BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
950	958	982	20.3	8	870	40	800
1150	1158	1182	23.9	9	1070	40	1000
1400	1408	1432	28.5	10	1320	40	1200
1600	1608	1632	32.2	11	1520	40	1400
1800	1808	1832	35.8	12	1720	40	1600
2000	2008	2032	39.5	13	1920	40	1800
2200	2208	2232	43.1	14	2120	40	2000

RETURN ROLLERS

RETURN ROLLER Ø108/180



TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

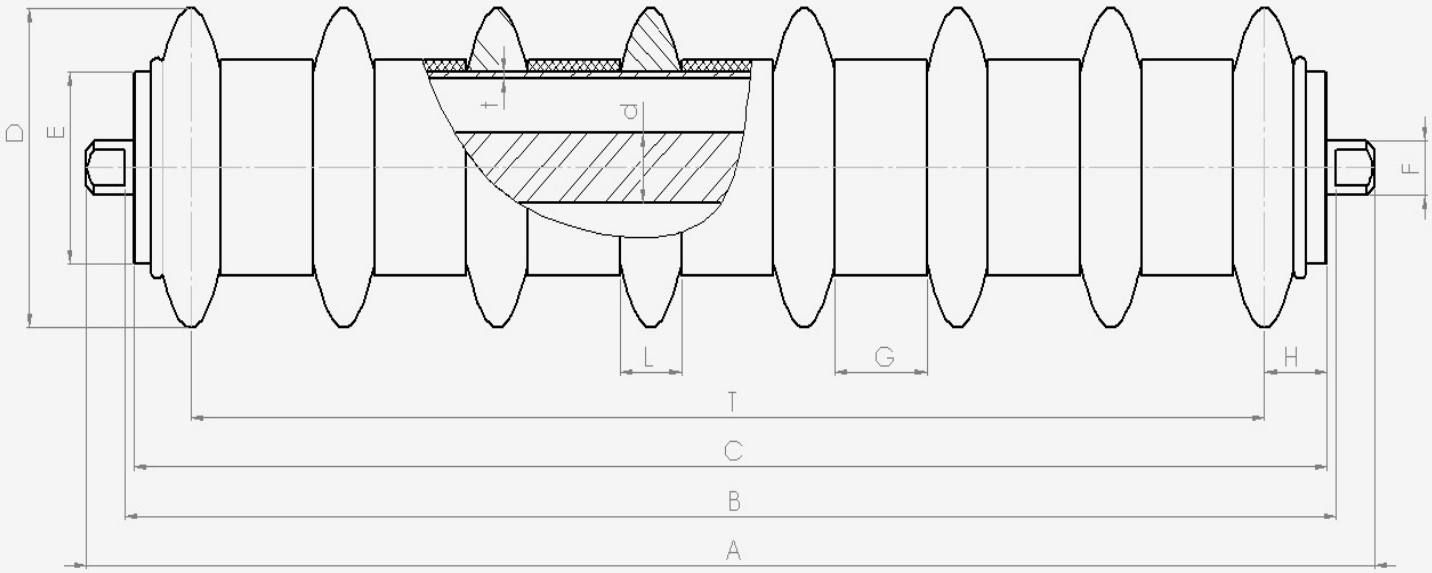
BEARING—**6204 C3**

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
750	758	776	9.8	7	700	25	650
950	958	976	12.1	8	870	40	800
1150	1158	1176	14.4	9	1070	40	1000
1400	1408	1426	17.3	10	1320	40	1200
1600	1608	1626	19.6	11	1520	40	1400

RETURN ROLLERS

RETURN ROLLER Ø108/180



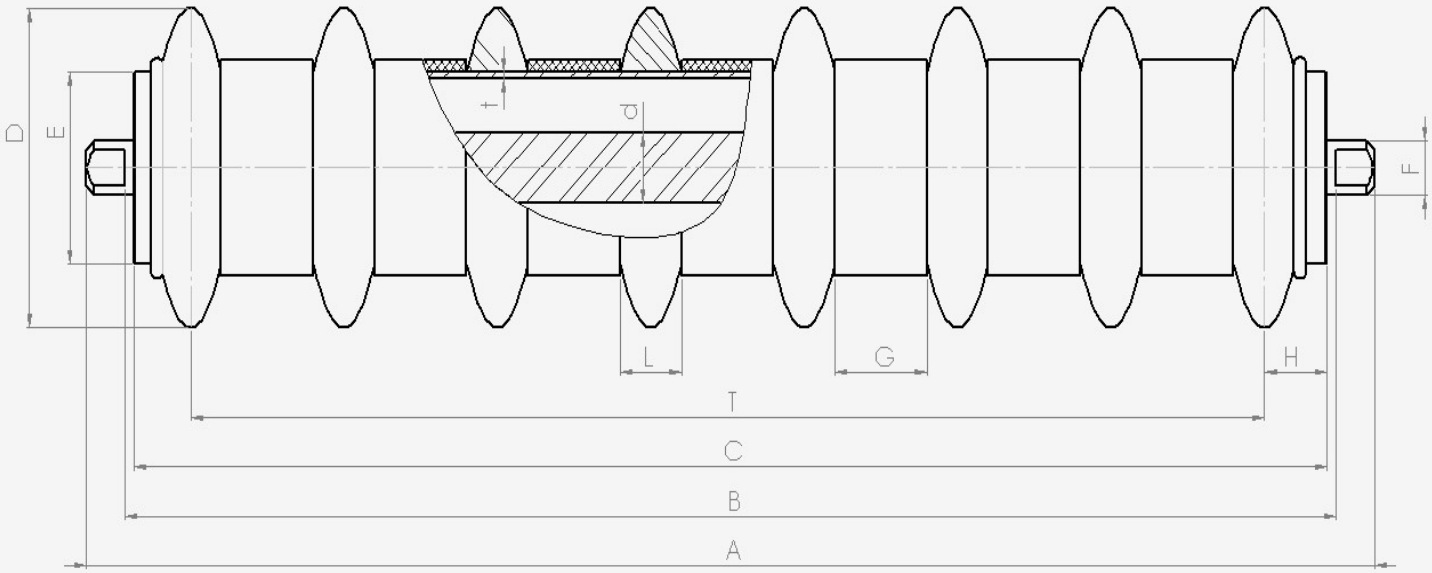
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
950	958	982	14.0	8	870	40	800
1150	1158	1182	16.6	9	1070	40	1000
1400	1408	1432	19.8	10	1320	40	1200
1600	1608	1632	22.4	11	1520	40	1400
1800	1808	1832	24.9	12	1720	40	1600

RETURN ROLLER Ø108/180



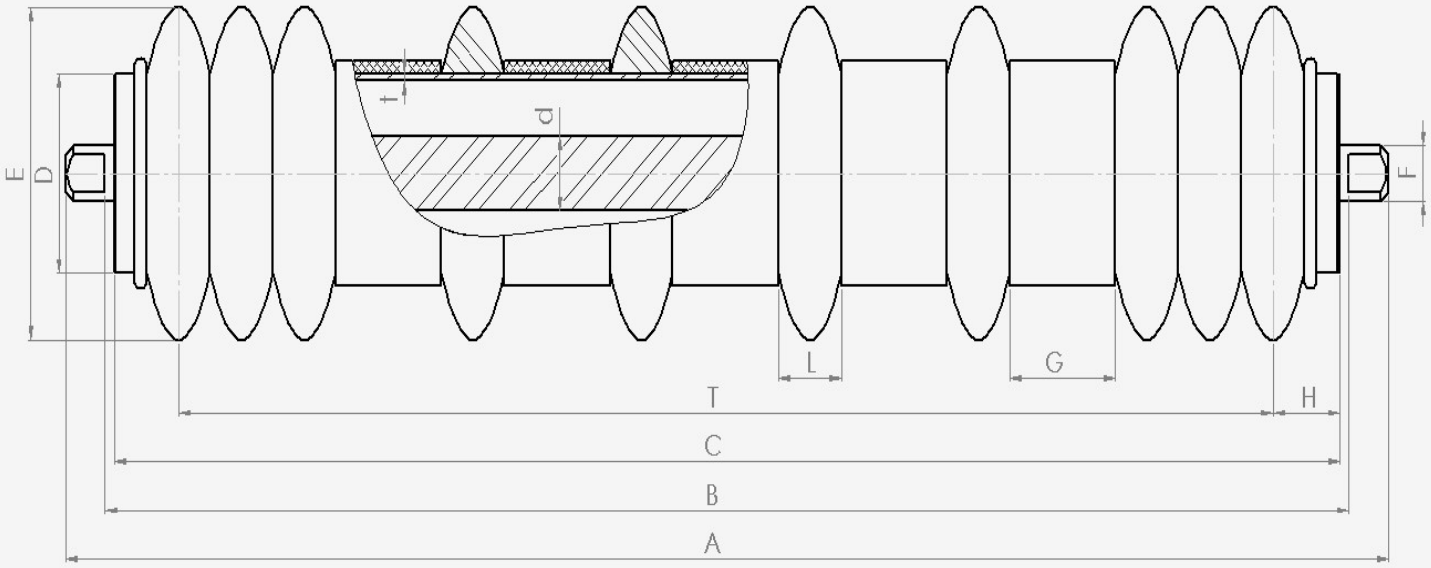
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm	
1150	1158	1182	21.2	9	1070	40	1000
1400	1408	1432	28.5	10	1320	40	1200
1600	1608	1632	32.2	11	1520	40	1400
1800	1808	1832	35.8	12	1720	40	1600
2000	2008	2032	39.5	13	1920	40	1800
2200	2208	2232	43.1	14	2120	40	2000

RETURN ROLLER Ø63/108



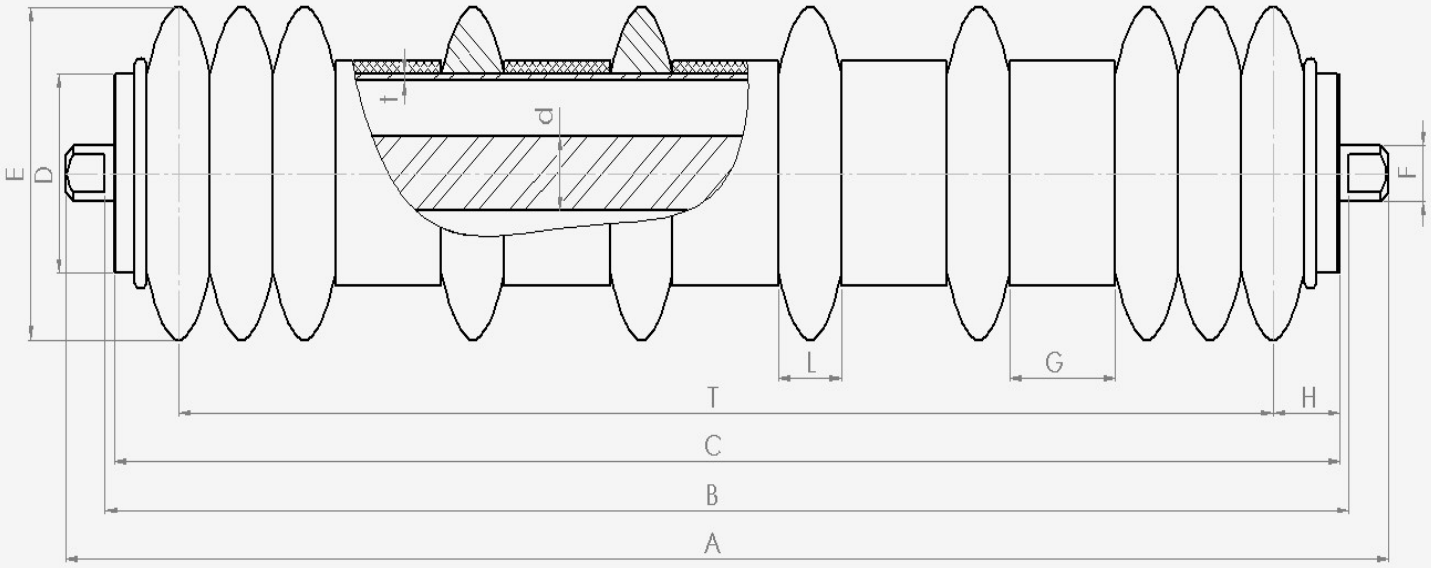
TYPE—**R** t = 5 mm L = 25 mm D = 63.5 E = 108 mm

BEARING—**6204 C3**

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
380	388	406	3.6	4	330	25	2	1	2	300
500	508	526	4.4	5	450	25	2	1	2	400
600	608	526	5.1	6	550	25	2	2	2	500
750	758	776	6.2	7	700	25	3	3	3	650
950	958	976	7.6	8	870	40	3	4	3	800
1150	1158	1176	9.0	9	1070	40	3	5	3	1000
1400	1408	1426	10.7	10	1320	40	3	6	3	1200

RETURN ROLLER Ø89/133



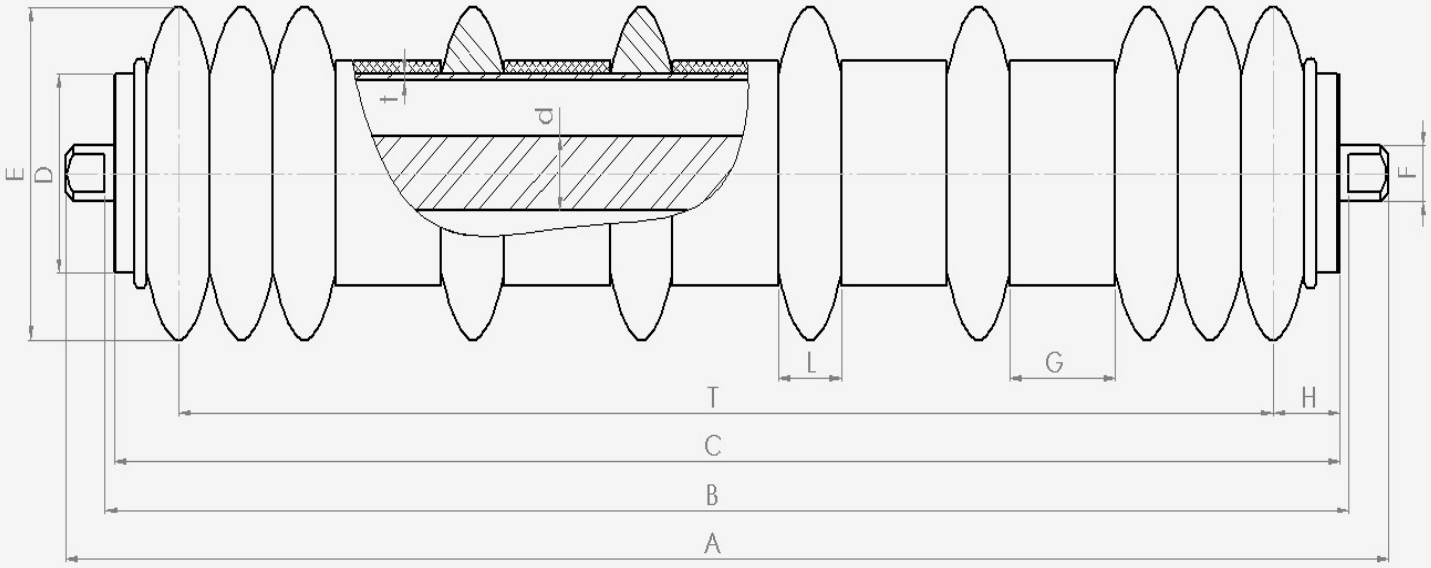
TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

BEARING—**6204 C3**

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
380	388	406	4.4	5	330	25	2	1	2	300
500	508	526	5.5	5	450	25	2	1	2	400
600	608	626	6.4	6	550	25	2	2	2	500
750	758	776	7.7	9	700	25	3	3	3	650
950	958	976	9.5	10	870	40	3	4	3	800
1150	1158	1176	11.3	11	1070	40	3	5	3	1000
1400	1408	1426	13.5	12	1320	40	3	6	3	1200
1600	1608	1626	15.3	13	1520	40	4	5	4	1400

RETURN ROLLER Ø89/133



TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

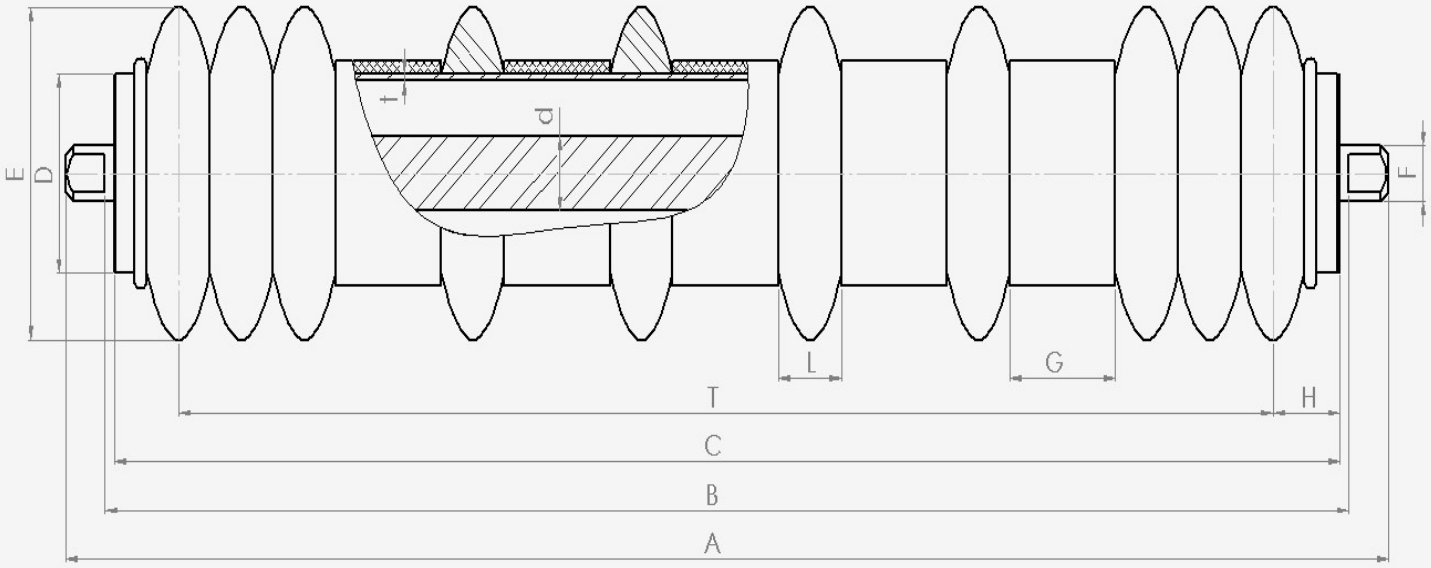
BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
600	608	632	7.8	6	550	25	2	2	2	500
750	758	782	9.3	9	700	25	3	3	3	650
950	958	982	11.4	10	870	40	3	4	3	800
1150	1158	1182	13.4	11	1070	40	3	5	3	1000
1400	1408	1432	16.0	12	1320	40	3	6	3	1200
1600	1608	1632	18.0	13	1520	40	4	5	4	1400
1800	1808	1832	20.1	14	1720	40	4	6	4	1600

RETURN ROLLERS

RETURN ROLLER Ø89/133



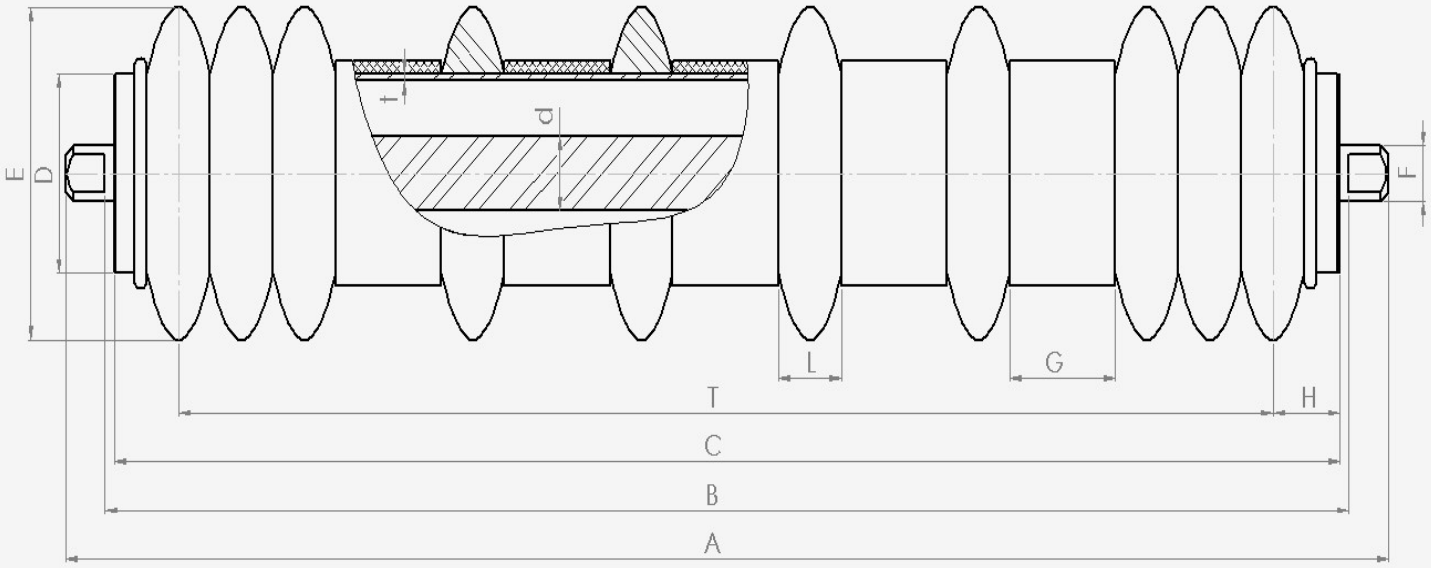
TYPE—**R** t = 5 mm L = 33 mm D = 89 E = 133 mm

BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
600	608	632	13.9	6	550	25	2	2	2	500
750	758	782	16.6	9	700	25	3	3	3	650
950	958	982	20.3	10	870	40	3	4	3	800
1150	1158	1182	23.9	11	1070	40	3	5	3	1000
1400	1408	1432	28.5	12	1320	40	3	6	3	1200
1600	1608	1632	32.2	13	1520	40	4	5	4	1400
1800	1808	1832	35.8	14	1720	40	4	6	4	1600
2000	2008	2032	39.5	15	1920	40	4	7	4	1800
2200	2208	2232	43.1	16	2120	40	4	8	4	2000

RETURN ROLLER Ø108/159



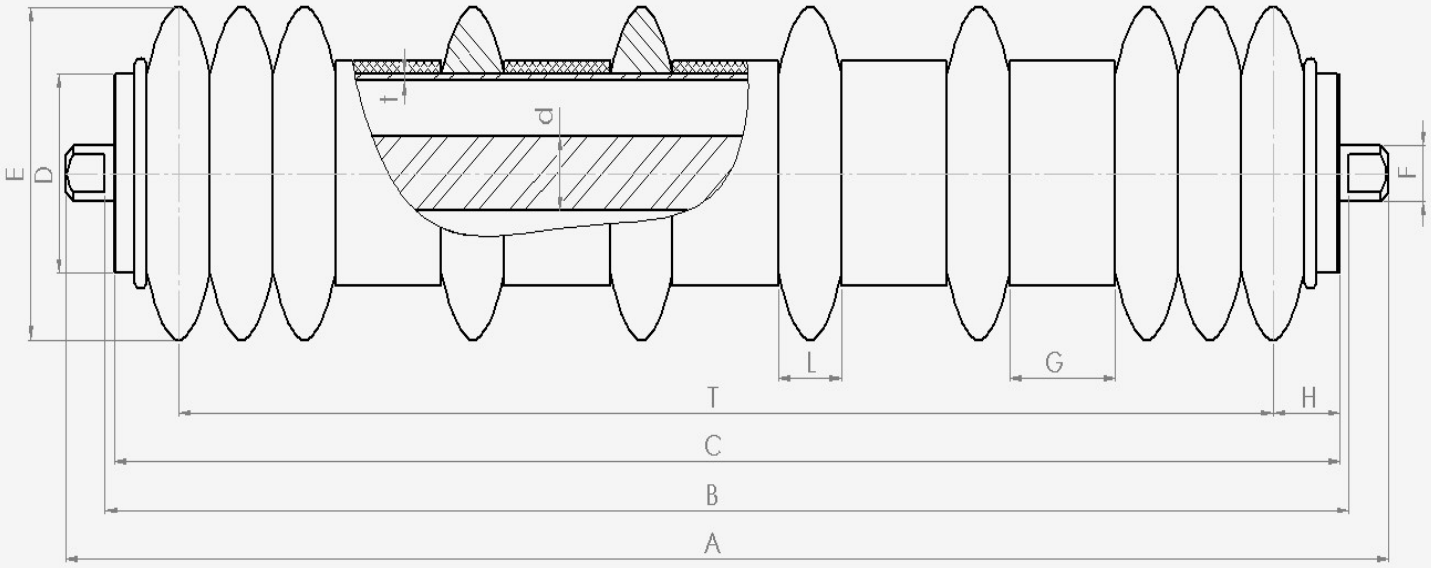
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6204 C3**

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
600	608	626	8.1	6	550	25	2	2	2	500
750	758	776	9.8	9	700	25	3	3	3	650
950	958	976	12.1	10	870	40	3	4	3	800
1150	1158	1176	14.4	11	1070	40	3	5	3	1000
1400	1408	1426	17.3	12	1320	40	3	6	3	1200
1600	1608	1626	19.6	13	1520	40	4	5	4	1400
1400	1408	1426	10.7	10	1320	40	3	6	3	1200

RETURN ROLLER Ø108/159



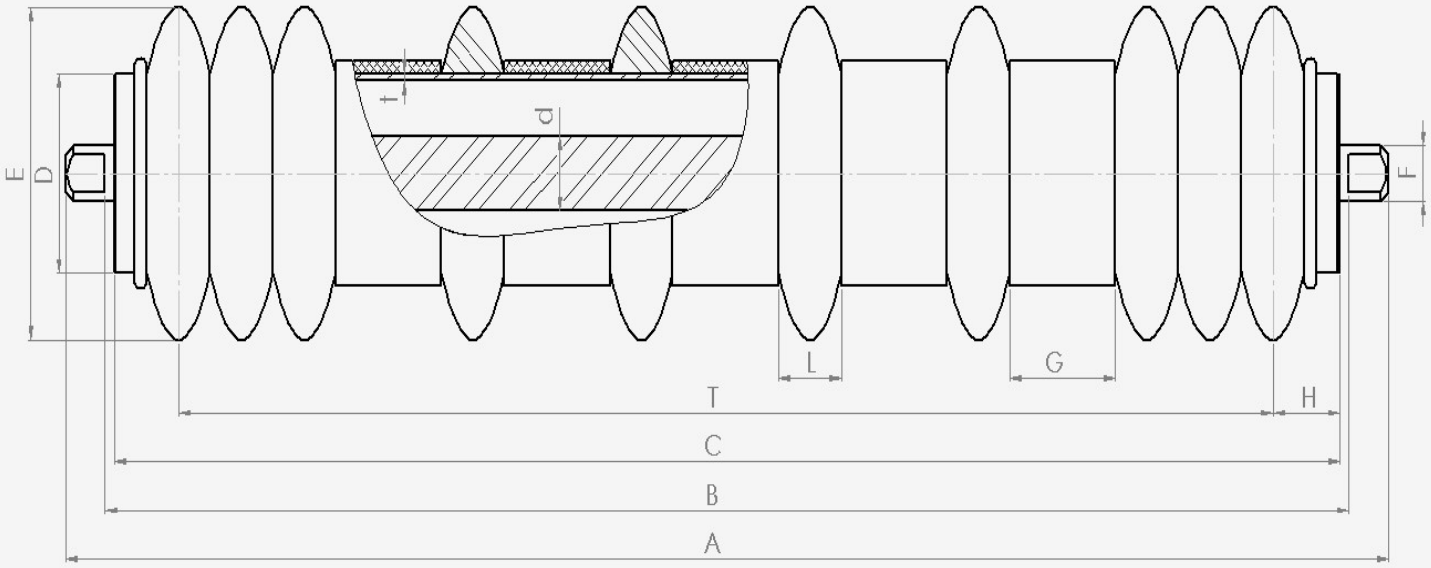
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6305 C3**

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
600	608	632	9.5	6	550	25	2	2	2	500
750	758	782	11.4	9	700	25	3	3	3	650
950	958	982	14.0	10	870	40	3	4	3	800
1150	1158	1182	16.6	11	1070	40	3	5	3	1000
1400	1408	1432	19.8	12	1320	40	3	6	3	1200
1600	1608	1632	22.4	13	1520	40	4	5	4	1400
1800	1808	1832	24.9	14	1720	40	4	6	4	1600

RETURN ROLLER Ø108/159



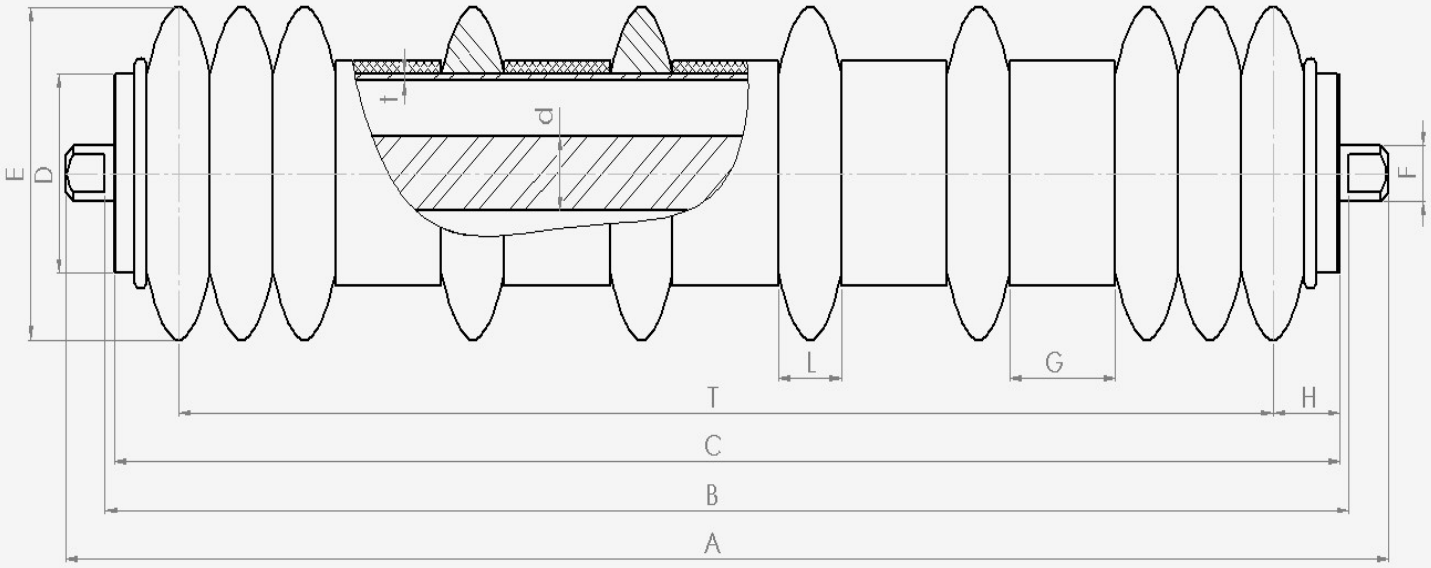
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
750	758	782	16.6	9	700	25	3	3	3	650
950	958	982	20.3	10	870	40	3	4	3	800
1150	1158	1182	23.9	11	1070	40	3	5	3	1000
1400	1408	1432	28.5	12	1320	40	3	6	3	1200
1600	1608	1632	32.2	13	1520	40	4	5	4	1400
1800	1808	1832	35.8	14	1720	40	4	6	4	1600
2000	2008	2032	39.5	15	1920	40	4	7	4	1800
2200	2208	2232	43.1	16	2120	40	4	8	4	2000

RETURN ROLLER Ø108/180



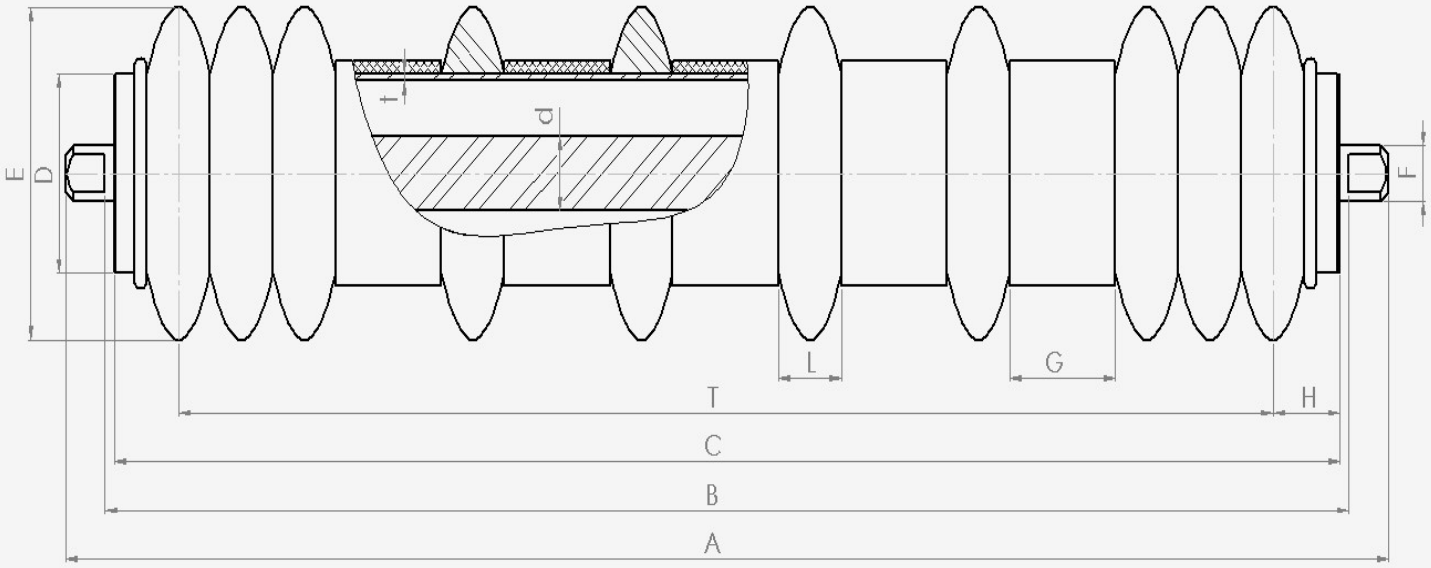
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6306 C3**

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
950	958	982	20.3	10	870	40	3	4	3	800
1150	1158	1182	23.9	11	1070	40	3	5	3	1000
1400	1408	1432	28.5	12	1320	40	3	6	3	1200
1600	1608	1632	32.2	13	1520	40	4	5	4	1400
1800	1808	1832	35.8	14	1720	40	4	6	4	1600
2000	2008	2032	39.5	15	1920	40	4	7	4	1800
2200	2208	2232	43.1	16	2120	40	4	8	4	2000

RETURN ROLLER Ø108/180



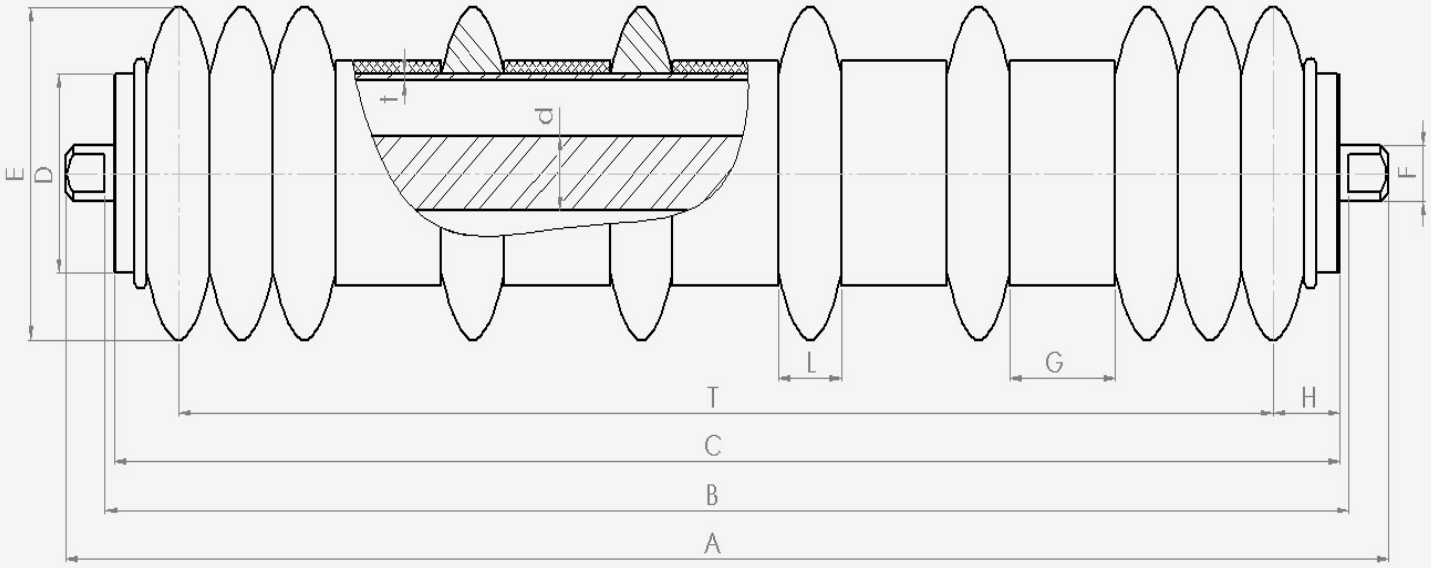
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6308 C3**

SHAFT Ød = **40 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
950	958	982	22.7	10	870	40	3	4	3	800
1150	1158	1182	26.4	11	1070	40	3	5	3	1000
1400	1408	1432	31.1	12	1320	40	3	6	3	1200
1600	1608	1632	34.8	13	1520	40	4	5	4	1400
1800	1808	1832	38.6	14	1720	40	4	6	4	1600
2000	2008	2032	42.3	15	1920	40	4	7	4	1800
2200	2208	2232	43.1	16	2120	40	4	8	4	2000

RETURN ROLLER Ø159/233



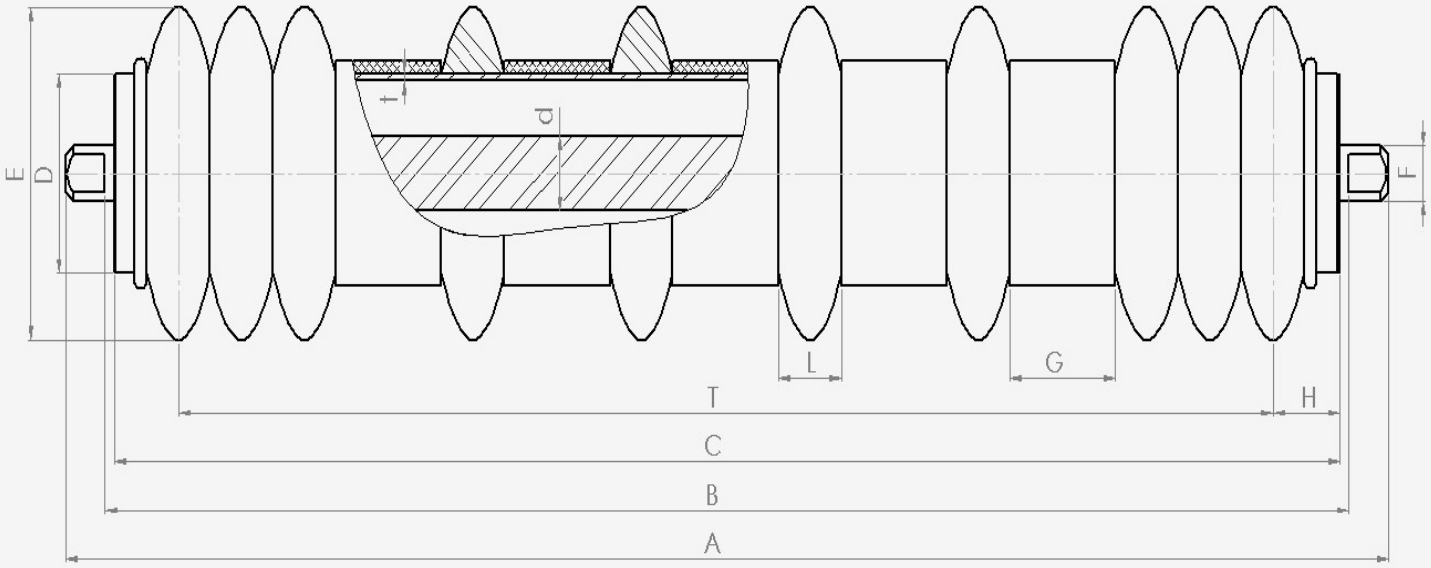
TYPE—**R** t = 5 mm L = 44.5 mm D = 159 E = 233.5 mm

BEARING—**6308 C3**

SHAFT Ød = **40 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
1400	1408	1432	40.6	12	1320	40	3	6	3	1200
1600	1608	1632	45.7	13	1520	40	4	5	4	1400
1800	1808	1832	50.7	14	1720	40	4	6	4	1600
2000	2008	2032	55.7	15	1920	40	4	7	4	1800
2200	2208	2232	60.8	16	2120	40	4	8	4	2000
2500	2508	2532	68.3	17	2450	40	4	9	4	2200

RETURN ROLLER Ø159/233



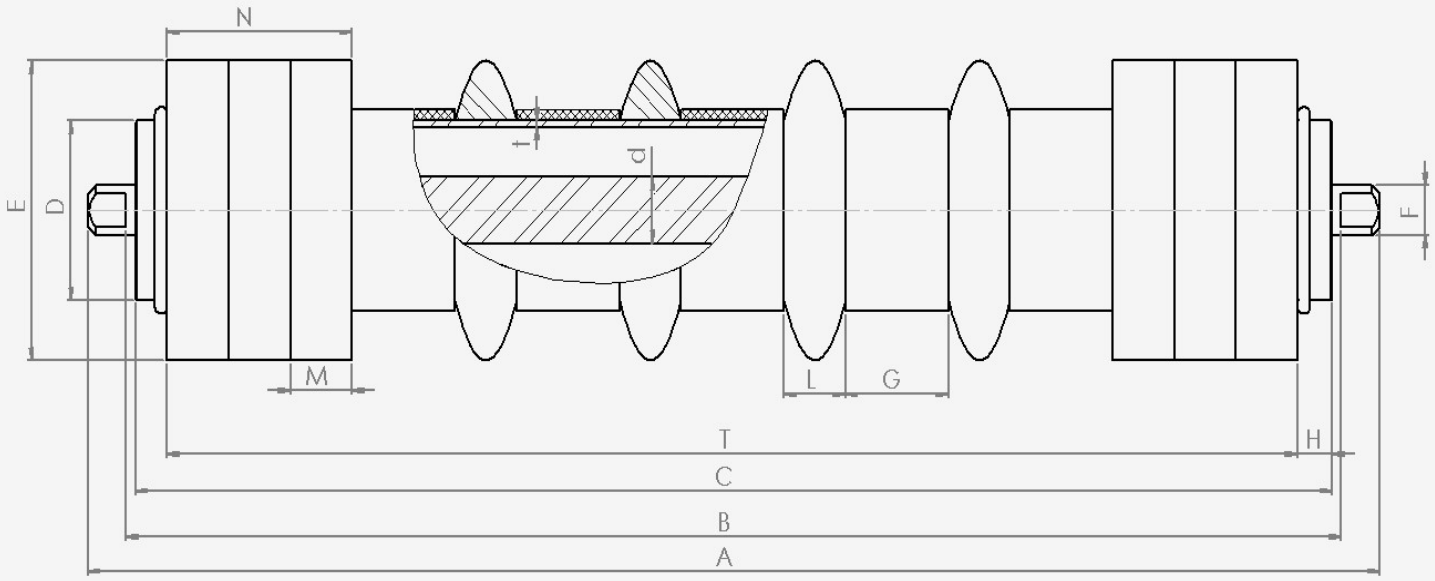
TYPE—**R** t = 6.3 mm L = 44.5 mm D = 159 E = 233.5 mm

BEARING—**6310 C3**

SHAFT Ød = **50 mm** Other lengths, shafts and coatings are available on request.

ROLLER							ORDER POSITION OF RUBBER RINGS			BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCE T	DISTANCE H	LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	mm	mm				
1400	1408	1432	40.6	12	1320	40	3	6	3	1200
1600	1608	1632	45.7	13	1520	40	4	5	4	1400
1800	1808	1832	50.7	14	1720	40	4	6	4	1600
2000	2008	2032	55.7	15	1920	40	4	7	4	1800
2200	2208	2232	60.8	16	2120	40	4	8	4	2000
2500	2508	2532	68.3	17	2450	40	4	9	4	2200
2800	2808	2832	77.2	18	2750	40	4	10	4	2400

RETURN ROLLER Ø63/108



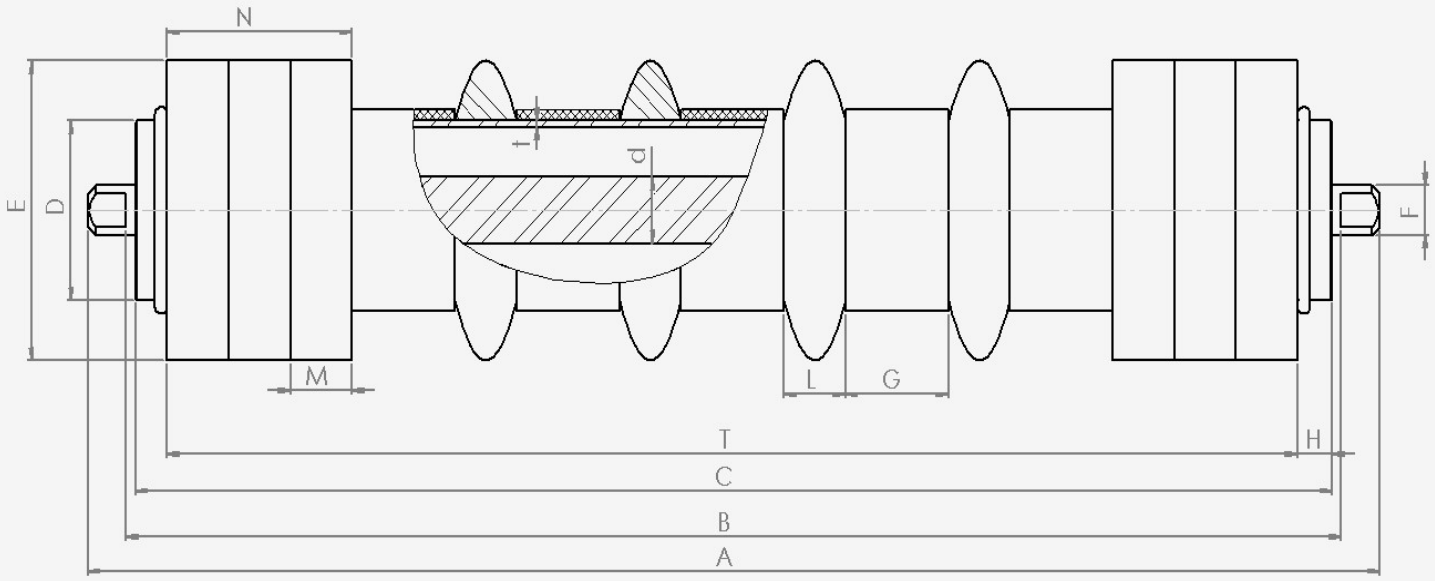
TYPE—**R** t = 3 mm L = 25 mm D = 63.5 E = 108 mm

BEARING—**6204 C3** M = 35

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCES		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
600	608	626	5.1	9	570	15	3	3	3	500
750	758	776	6.2	10	720	15	3	4	3	650
950	958	976	7.6	11	870	40	3	5	3	800
1150	1158	1176	9.0	12	1070	40	3	6	3	1000
1400	1408	1426	10.7	13	1270	65	3	7	3	1200

RETURN ROLLER Ø89/133



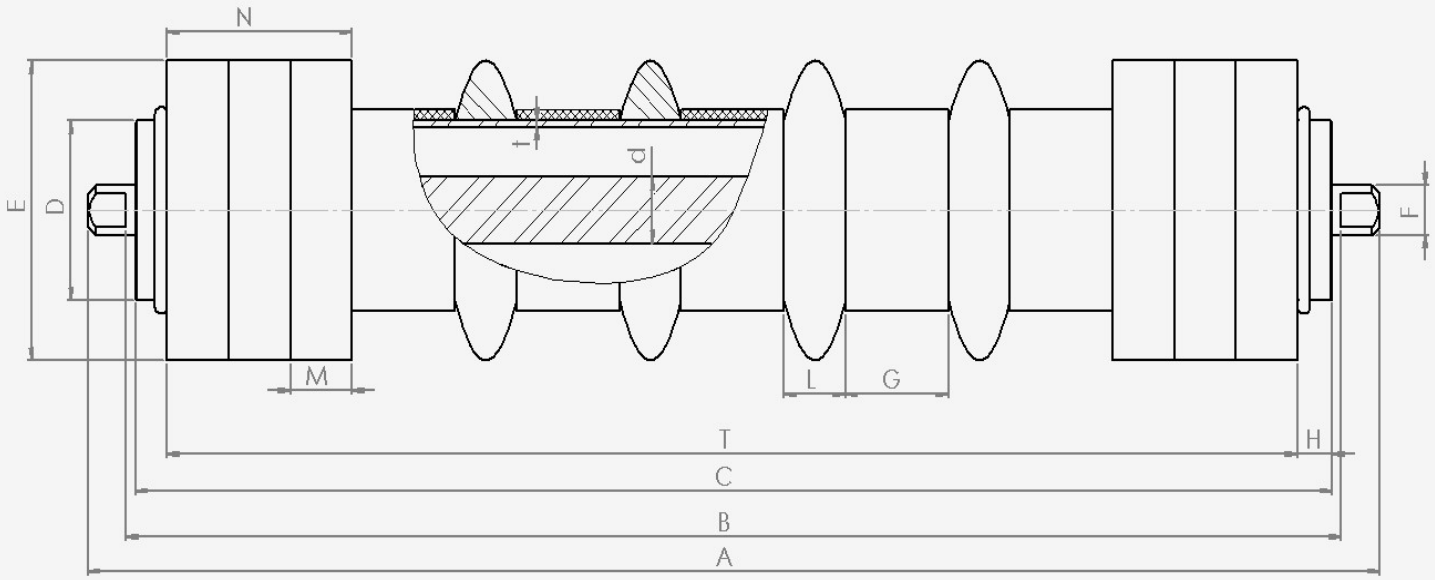
TYPE—**R** t = 5 mm L = 25 mm D = 89 E = 133 mm

BEARING—**6204 C3** M = 35

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DISTANCES		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
600	608	626	6.4	9	570	15	3	3	3	500
750	758	776	7.7	10	720	15	3	4	3	650
950	958	976	9.5	11	870	40	3	5	3	800
1150	1158	1176	11.3	12	1070	40	3	6	3	1000
1400	1408	1426	13.5	13	1270	65	3	7	3	1200
1600	1608	1626	15.3	14	1470	65	3	8	3	1400

RETURN ROLLER Ø89/133



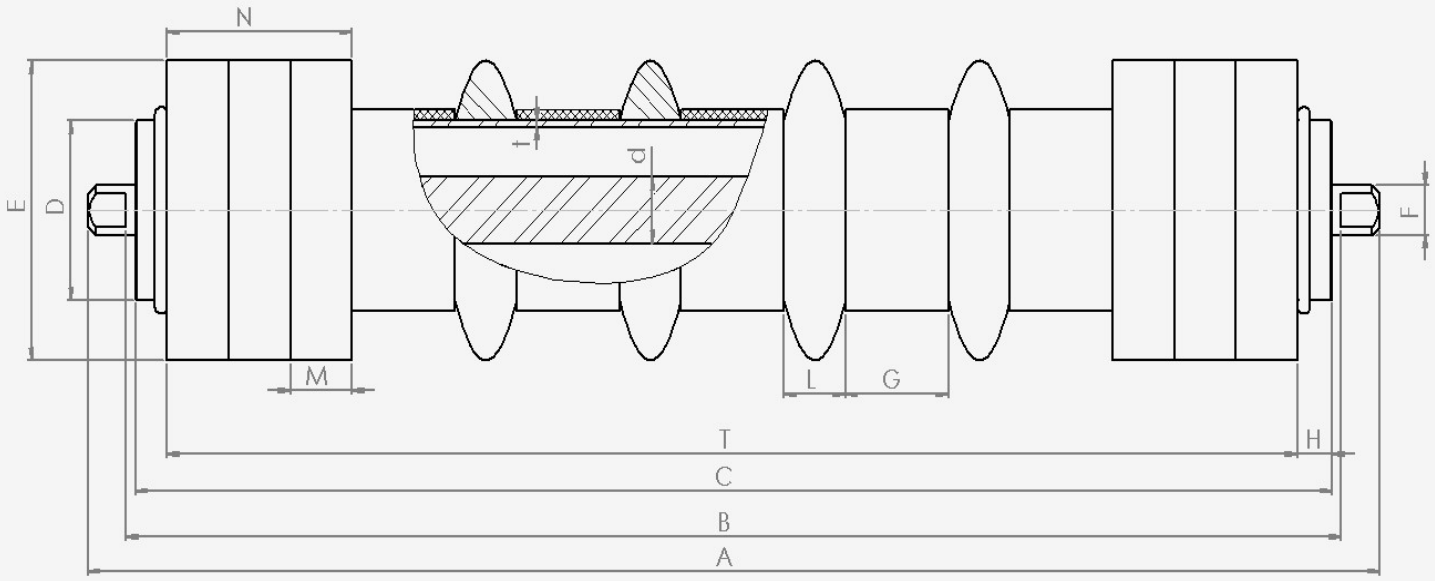
TYPE—**R** t = 5 mm L = 25 mm D = 89 E = 133 mm

BEARING—**6305 C3** M = 35

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
600	608	626	7.8	9	570	15	3	3	3	500
750	758	776	9.3	10	720	15	3	4	3	650
950	958	976	11.4	11	870	40	3	5	3	800
1150	1158	1176	13.4	12	1070	40	3	6	3	1000
1400	1408	1426	16.0	13	1270	65	3	7	3	1200
1600	1608	1626	18.0	14	1470	65	3	8	3	1400

RETURN ROLLER Ø108/159



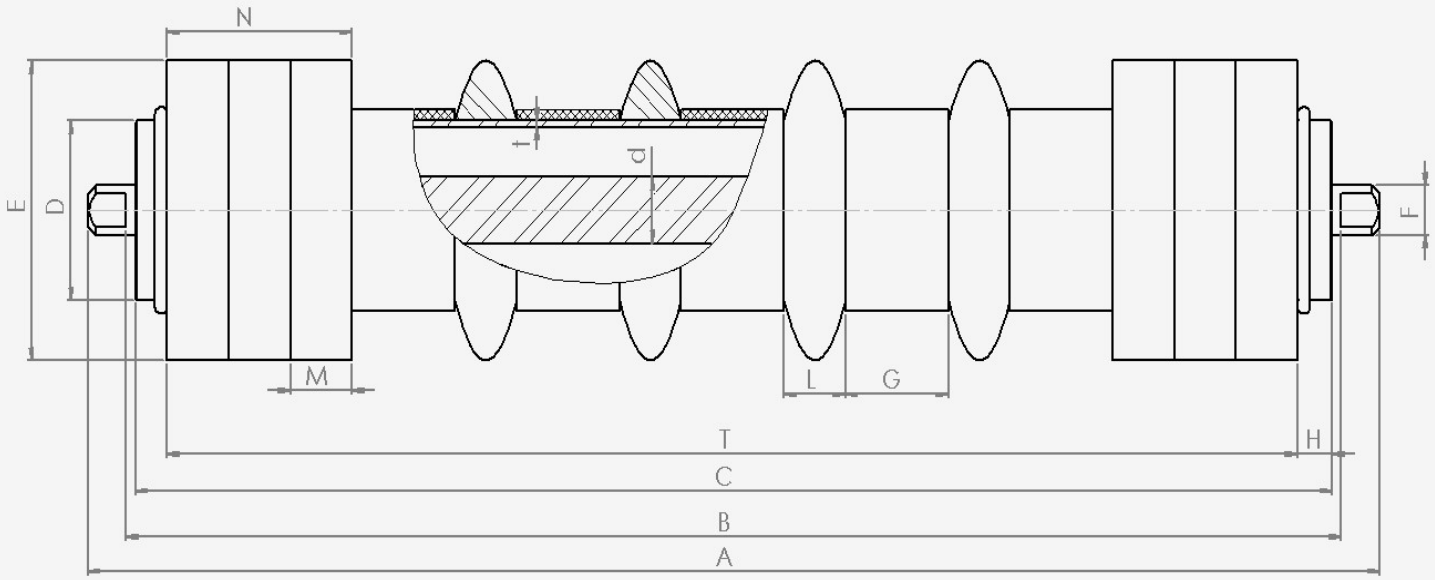
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6204 C3** M = 40

SHAFT Ød = **20 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
750	758	776	9.8	10	730	10	3	4	3	650
950	958	976	12.1	11	880	35	3	5	3	800
1150	1158	1176	14.4	12	1080	35	3	6	3	1000
1400	1408	1426	17.3	13	1280	60	3	7	3	1200
1600	1608	1626	19.6	14	1480	60	3	8	3	1400

RETURN ROLLER Ø108/159



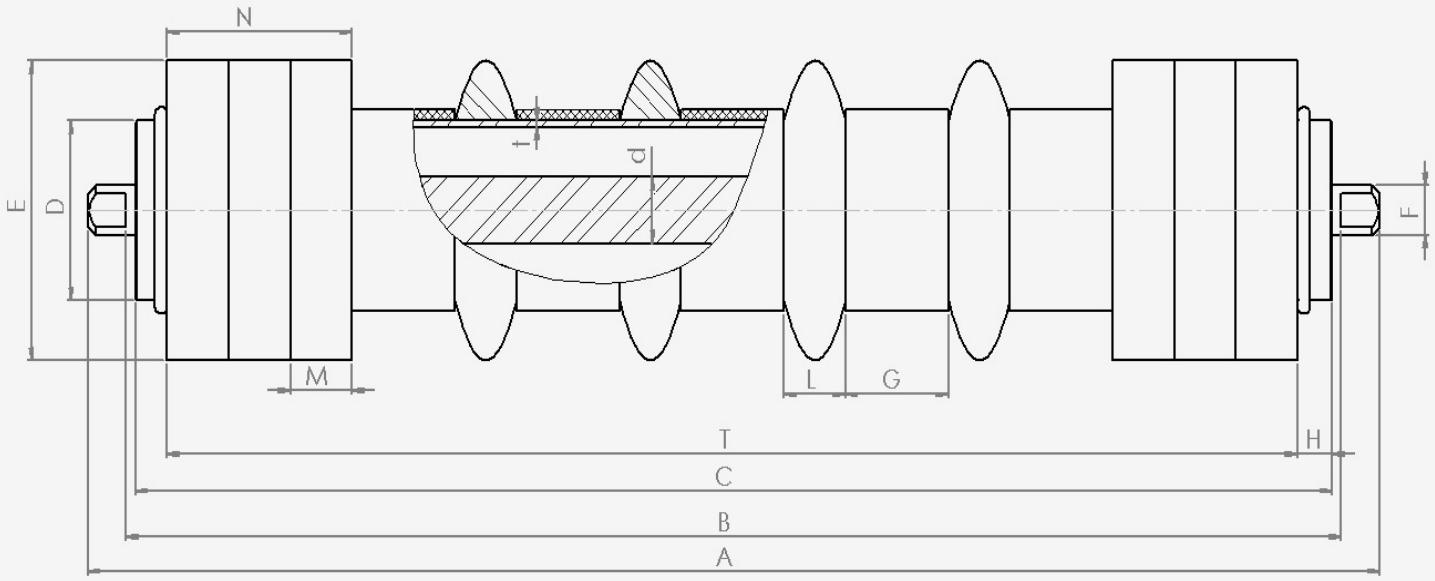
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6305 C3** M = 40

SHAFT Ød = **25 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
950	958	982	11.4	11	880	35	3	5	3	800
1150	1158	1182	13.4	12	1080	35	3	6	3	1000
1400	1408	1432	16.0	13	1280	60	3	7	3	1200
1600	1608	1632	18.0	14	1480	60	3	8	3	1400
1800	1808	1832	20.1	15	1680	60	3	9	3	1600

RETURN ROLLER Ø108/159



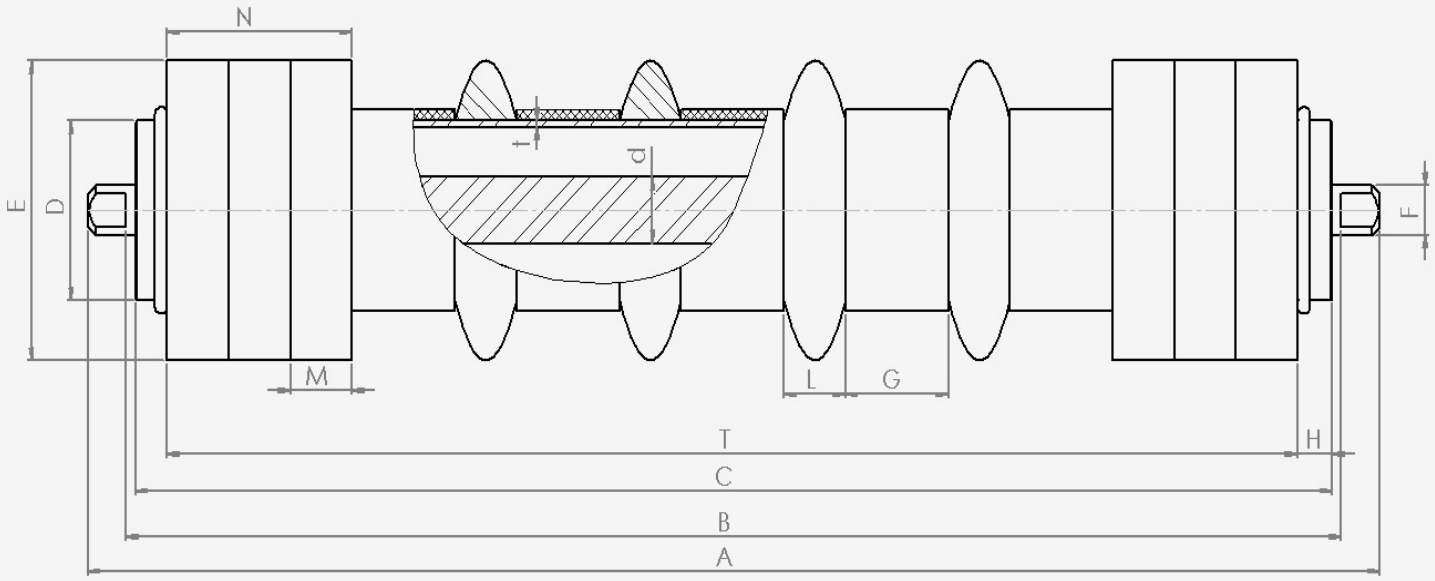
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6306 C3** M = 40

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
1150	1158	1182	23.9	12	1080	35	3	6	3	1000
1400	1408	1432	28.5	13	1280	60	3	7	3	1200
1600	1608	1632	32.2	14	1480	60	3	8	3	1400
1800	1808	1832	35.8	15	1680	60	3	9	3	1600
2000	2008	2032	39.5	16	1880	60	3	10	3	1800
1150	1158	1182	23.9	12	1080	35	3	6	3	1000
1400	1408	1432	28.5	13	1280	60	3	7	3	1200
1600	1608	1632	32.2	14	1480	60	3	8	3	1400
1800	1808	1832	35.8	15	1680	60	3	9	3	1600
2000	2008	2032	39.5	16	1880	60	3	10	3	1800

RETURN ROLLER Ø108/159



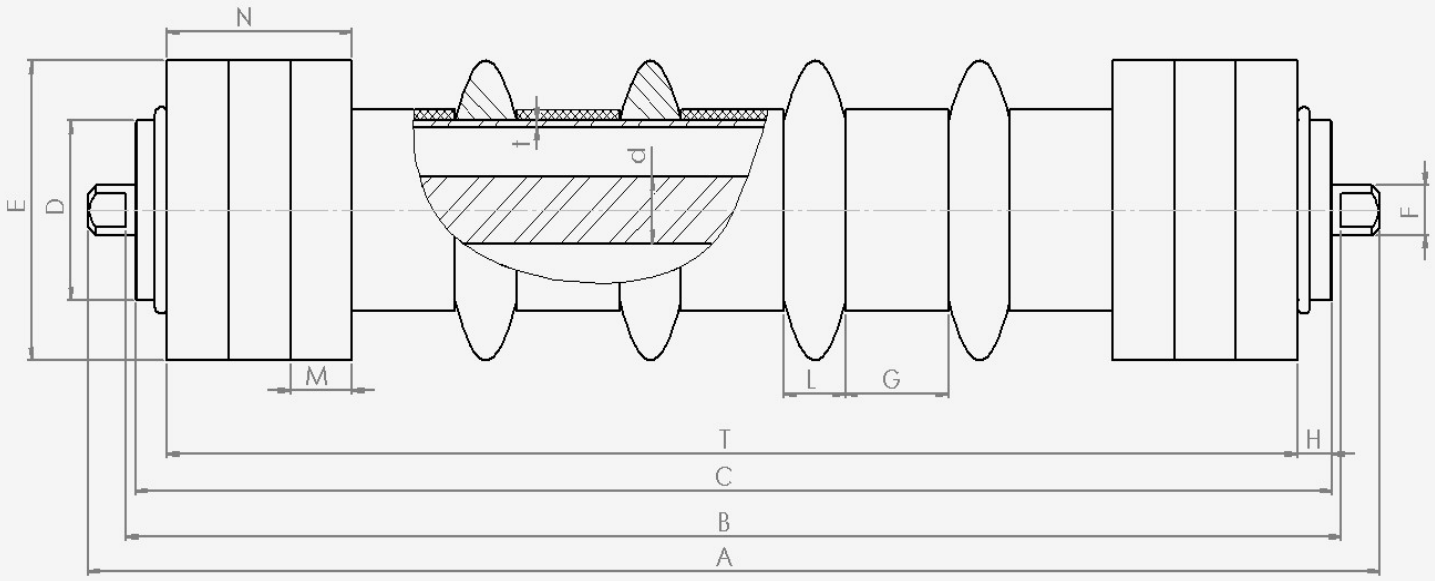
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 159 mm

BEARING—**6308 C3** M = 40

SHAFT Ød = **40 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
1400	1408	1432	31.1	13	1280	60	3	7	3	1200
1600	1608	1632	34.8	14	1480	60	3	8	3	1400
1800	1808	1832	38.6	15	1680	60	3	9	3	1600
2000	2008	2032	42.3	16	1880	60	3	10	3	1800
2200	2208	2232	46.1	17	2080	60	3	11	3	2000
2400	2408	2432	51.7	18	2280	60	3	12	3	2200

RETURN ROLLER Ø108/180



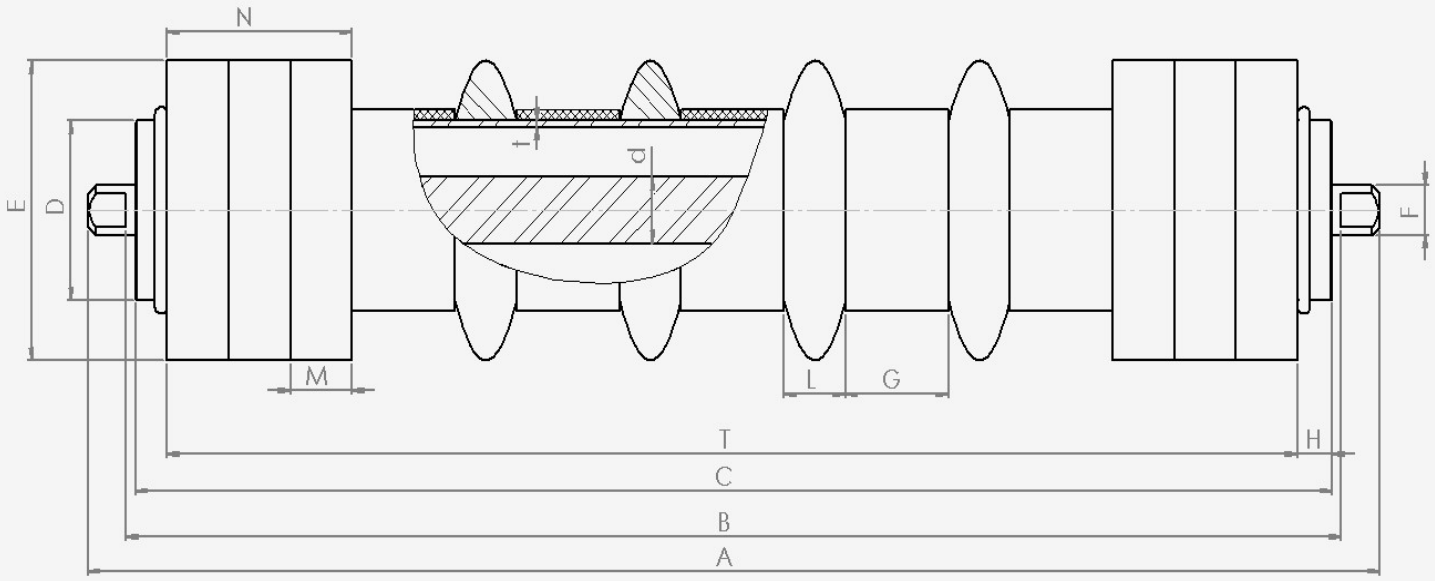
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6306 C3** M = 74

SHAFT Ød = **30 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
1400	1408	1432	28.5	13	1350	25	2	9	2	1200
1600	1608	1632	32.2	14	1550	25	2	10	2	1400
1800	1808	1832	35.8	15	1750	25	2	11	2	1600
2000	2008	2032	39.5	16	1950	25	2	12	2	1800
2200	2208	2232	43.1	17	2150	25	2	13	2	2000

RETURN ROLLER Ø108/180



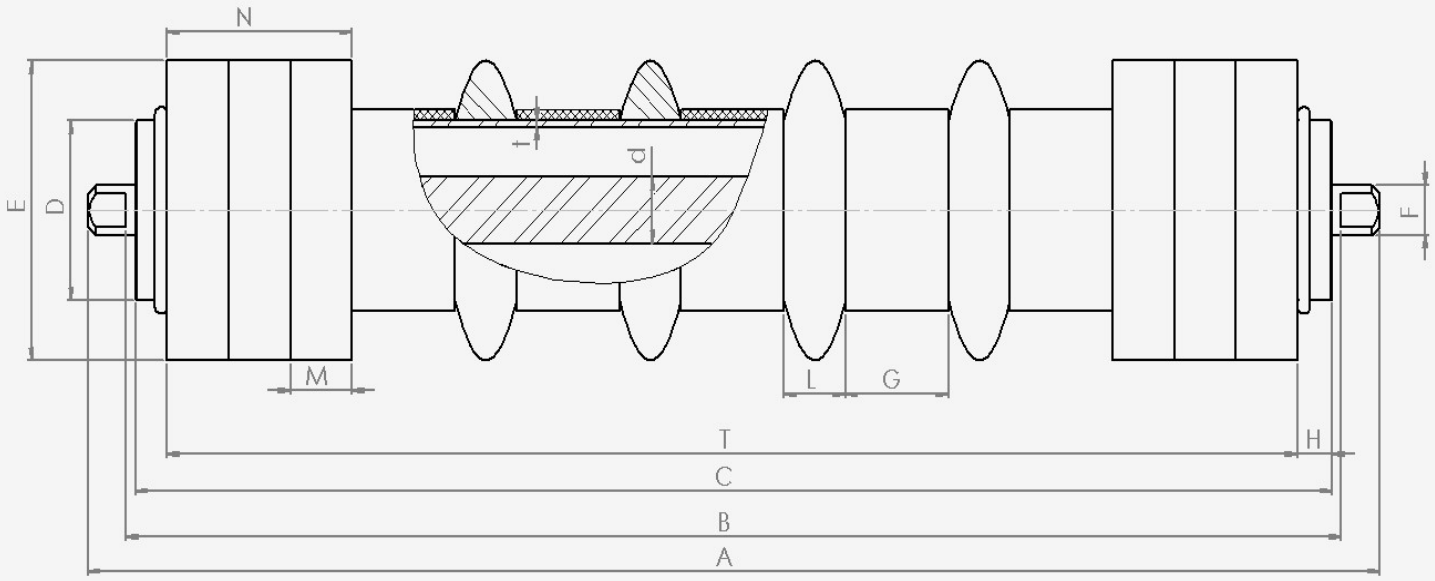
TYPE—**R** t = 5 mm L = 40 mm D = 108 E = 180 mm

BEARING—**6308 C3** M = 74

SHAFT Ød = **40 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
1400	1408	1432	31.1	13	1350	25	2	9	2	1200
1600	1608	1632	34.8	14	1550	25	2	10	2	1400
1800	1808	1832	38.6	15	1750	25	2	11	2	1600
2000	2008	2032	42.3	16	1950	25	2	12	2	1800
2200	2208	2232	46.1	17	2150	25	2	13	2	2000
2400	2408	2432	51.7	18	2350	25	2	14	2	2200

RETURN ROLLER Ø133/215



TYPE—**R** t = 5—6.3—7.1 mm L = 50 mm D = 133 E = 215 mm

BEARING—**6308 C3** M = 50

SHAFT Ød = **40 mm** Other lengths, shafts and coatings are available on request.

ROLLER					ORDER POSITION OF RUBBER RINGS					BELT
DIMENSIONS (mm)			WEIGHT (kg) (net)	QNTY OF RUBBER RINGS	DIMENSIONS		LEFT	CENTER	RIGHT	WIDTH (mm)
C	B	A	mm	PIECES	T	H				
1400	1408	1432	36.6	13	1300	50	3	7	3	1200
1600	1608	1632	41.2	14	1500	50	3	8	3	1400
1800	1808	1832	45.7	15	1700	50	3	9	3	1600
2000	2008	2032	50.2	16	1900	50	3	10	3	1800
2200	2208	2232	54.7	17	2100	50	3	11	3	2000
2500	2508	2532	61.5	18	2300	100	3	12	3	2200