

## Screws, screw conveyors



We produce screws and ribbon flights for screw conveyors for transport of bulk grain, powder or dense materials used, e.g. in:

- agriculture and food processing industry
- boiler industry
- waste management
- building industry
- engineering industry
- biomass processing
- chemical industry
- plastic industry

Fully automated production of ribbon flights on rolling automatic machines by cold forming guarantees precise observance of the required screw dimensions and high quality of the final products. Smooth sheet metal panels without welds ensure trouble-free flow of the transported materials. We produce conveyor screws with diameters from 80 mm to 400 mm in our standard range on the basis of our business experience. Screws with these dimensions are usually ready for immediate shipment from our stock.

We are also able to respond to special requirements of our customers in our production preparation department and to design a complete customized conveyor screw including shafts, pins and other components. Our flexibility is based on long-term experience in the field of fine steel sheet processing. All products dispatched from our production plant are manufactured in accordance with strict quality standards and regulations and are subjected to a thorough final inspection.

## Rolled products

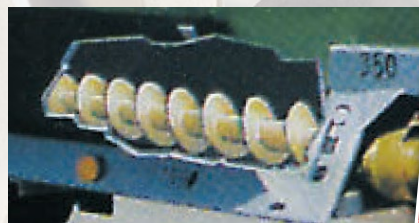
A special method of rolling represents a guarantee of high performance. Our automatic machines for cold rolling used for production of ribbon flights made of structural, stainless and acid resistant materials belongs to the most advanced machines in its class. The fully automated working procedure will guarantee compliance with the required dimensions and their tolerances. Our ribbon flights are ready for installation immediately after leaving the machine.

## Wound design

This technology is utilized for production of the ribbon flights with smaller diameters and virbulators.

## Many technical benefits:

- Guaranteed dimensional precision
- High resistance to abrasion
- Long service life and high stability
- Smooth surface of components without welds
- No loss of transport power caused by friction
- Easy ribbon flight installation on a shaft of tube
- Optimum performance with minimum costs
- Low energy demand
- Exceptionally economical operation



## Services

Besides production of ribbon flights and conveyors, our company offers the opportunity to utilize our surface grinding technologies on vertical grinders, horizontal grinders and CNC machining centres with 3 up to 5 axes

Technical consultancy and support – we are ready to provide our assistance for preparation of technical documentation according to your wishes; consultancy in the field of materials as to properties and applications

 [www.preciz.org](http://www.preciz.org)



# PRECIZ, s.r.o.

A company of the PRÄZI GROUP



PRECIZ® – ground steel



Production of components



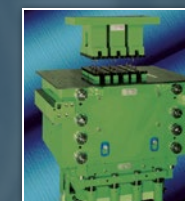
Plates for moulds



Conveyor screws /ribbon flights



Dosing systems – biogas



KS moulds, moulds for silicates



It will be our pleasure to prepare offers tailored to your needs...



**PRECIZ®, s.r.o.**

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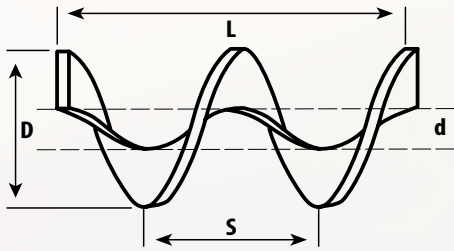
# PRECIZ Catalogue dimensions

## Range of standard ribbon flights made of ST steel

standard lengths 3,000 mm, both left-hand and right-hand types

St steel, cold rolled,  
Lead tolerance: ± 5%

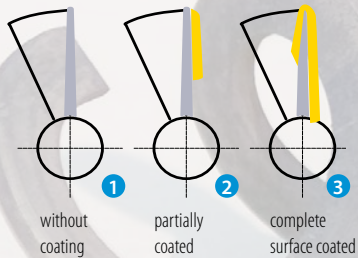
We offer also rolled ribbon flights  
made of 1.4301 stainless steel in these dimensions



Outer Ø D [mm]	Inner Ø d [mm]	Lead S [mm]	Sheet thickness		Weight kg / 3,000 mm
			Outside [mm]	Inside [mm]	
80	17.2	80	2.5	1.2	2.9
90	25.0	90	2.5	1.3	3.2
100	33.7	100	2.5	1.5	3.5
120	33.7	120	2.5	1.3	4.3
125	33.7	125	2.5	1.3	4.5
140	42.4	140	2.5	1.3	5.0
150	48.3	150	3.0	1.6	6.4
160	48.3	160	3.0	1.6	6.8
180	48.3	180	3.0	1.5	7.7
200	48.3	200	3.5	1.7	10.0
200	48.3	200	6.0	2.8	17.6
200	60.3	200	6.0	2.8	17.5
250	60.3	250	4.0	2.0	14.3
250	60.3	250	6.0	3.0	22.0
300	76.1	300	5.0	2.5	21.5
315	76.1	315	5.0	2.4	22.6
350	88.9	350	5.0	2.5	25.0
400	101.6	400	8.0	4.0	47.0

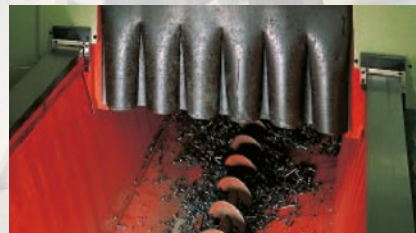
## Other options for the production of screws highly resistant to wear

The wide range of applications of conveyor screws place specific demands on resistance to wear. In order to comply with such demands, we supply screws with a powder paint surface finish.



### Properties of the powder painted screws

Abrasion resistance:	Excellent
Corrosion resistance:	Excellent
Impact strength:	Good
Sliding properties:	Very good
Thermal resistance:	Excellent
Sparking:	No sparks
Composition:	Carbon, tungsten carbide, chromium, boron silicon, iron, nickel

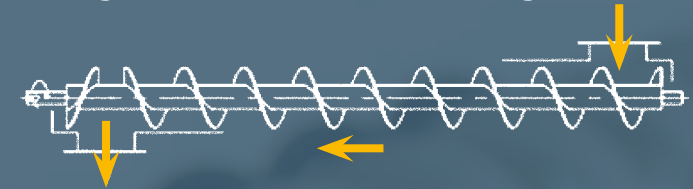


We produce products with atypical dimensions on the basis of specific demands. Transport screws with outer diameter smaller than 80 mm are always custom made.

**It will be our pleasure to prepare a price quote for you on the basis of your technical requirements.**



## Right-hand/left-hand design



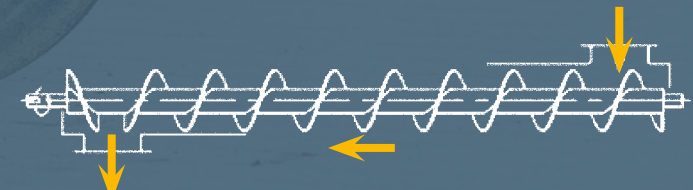
1 Right-hand ribbon flight, electric motor clockwise rotation, for material flow direction, please see the diagram



2 Right-hand ribbon flight, electric motor counterclockwise rotation, for material flow direction, please see the diagram



3 Left-hand ribbon flight, electric motor clockwise rotation, for material flow direction, please see the diagram



4 Left-hand ribbon flight, electric motor counterclockwise rotation, for material flow direction, please see the diagram