

# Peripheral Equipment



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## Press and Tools Products

## Ball Bearing Inserts and Rails

If you need fast and reliable tool changing, you will find that equipping or updating your press with ball bearing inserts and rails is the ideal solution.

With ball bearing inserts and rails you can move or change tools fast, and above all accurately - even if they weigh several tons. In the past this has often been an awkward, inconvenient and sometimes even critical process.

Equipping and retrofitting press tables with ball bearing rails is extremely straightforward as virtually every press table has fixing slots. The ball bearing rails are simply inserted and fixed in these slots.

Ball bearing inserts can be used for press tables which do not have fixing slots. These are fitted in the locating sockets.

The ball bearings of the inserts and rails will move in any direction and project only slightly above the surface of the press table. The result is that only slight force is required for movement on the table. When the tool is clamped in place it sits on the table and the clamping pressure causes the ball bearings to retract into their sockets.

## **Cantilevered Brackets**

Cantilevered brackets give you the room you need for fast and reliable tool changing.

Ball bearing cantilevered bracket slides provide linear movement.

You can move even the heaviest of tools with relatively little force.

Swing brackets are used for fixed mounting on the press table. FIBRO also supply cantilevered brackets for quick mounting on the press table. The brackets are then hooked on to previously installed seatings.

Cantilevered brackets should always be used in pairs.

## Peripheral Equipment

## **Conveyor Belts**

Our conveyor belts are designed for use in a wide variety of production applications.

There is a belt width and length to suit almost every application.

The conveyor belts are powered by an electric motor, which is electronically regulated to provide belt speeds from 0.02 to 30 metres per minute.

The motor can be mounted horizontally or vertically, on either side of the belt for either direction of movement. Conveyor belts are available with or without profiles across the belt. Conveyor edge rails are also available in a range of designs.

## Pneumatic Conveyor Belts

FIBRO pneumatic conveyor belts are ideal for conveying both large and small products and are used in many industries and sectors.

The conveyor is robust in design and the standard versions employ an aluminium profile.

There are no awkward contours on the top and bottom, so the conveyor is especially useful in applications where space is tight.

The belt runs within the profile on the underside, so the conveyor can be mounted directly on a flat surface.

A simple installation process allows the conveyor to be driven directly by the machine's compressed air supply and work automatically in time with it.

A control system is available to enable the conveyor to run at a different rate (see Control).

Our conveyors work with belts to a wide range of specifications, to suit the specific application.

## Pneumatic conveyors

This pneumatic conveyor is unique and is patented. It was

designed to provide an effective and affordable solution to the problems of conveying parts and disposing of waste.

This beltless system conveys stampings and waste from the tool area by vibration alone.

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2198.40.	
Load capacity	Load capacity
a m[daN] L Kug.f b c h	a m[daN] L Kug.f b c h
18 60 80 3 2 30 12 30	22 120 120 3 3 37 16 38
80 100 4	160 150 4
100 120 5	200 180 5
120 140 6	240 210 6
160 180 8	320 270 8
200 220 10	400 330 10
Load capacity	Load capacity
a m[daN] L Kug.f b c h	a m[daN] L Kug.f b c h
28 180 150 3 3 46 20 48	36 300 150 3 3 56 25 61
240 195 4	400 195 4
300 240 5	500 240 5
360 285 6	600 285 6
480 375 8	800 375 8
600 465 10	1000 465 10



#### Note:

The ball bearing rails are pushed into the DIN 650 T-shaped grooves in the press table and are fixed in place by the clamping piece. The size and number of the ball bearing rails is determined by the size of the T-shaped groove and the load-bearing capacity required. Once the tool is clamped in place, it lies on the press table and the clamping pressure presses the ball bearings into the holes.

Ball Bearing Rail	=	2198.40.
for DIN 650 T-shaped groove	=	18.
L = 80 mm	=	080
Order No	=	2198.40.18.080

## Cantilevered Brackets for Presses





#### Note:

Projecting tool guides as an aid for tool changing in presses.

FIBRO's Cantilevered Brackets are always used in pairs. For reasons of guide precision the load must not be extended by increasing the number of cantilevered brackets. While attaching the cantilevered brackets to the front of the bedplate slab ensure sufficient mounting height.

The tool guides are fitted with rollers to make tool insertion into the plunger area easy.

The cantilevered brackets are fitted with rigid or retractable stops at each end to avoid the tool being pushed over the ends of the cantilevered arms and dropping to the floor.

It is only for immediate use that FIBRO's Cantilevered Brackets are hooked on to installed slotted seats or pocket seats. This mounting technique enables the cantilevered brackets to be used on different presses.

Cantilevered brackets supplied without slotted or pocket seat sets, without screws.

Slotted and pocket seat sets supplied including pins and screws for 2 cantilevered brackets.

The technical performance data assume use of 2198.20.4/ 2198.21.4 seats.

## 2198.10./.2198.11. Cantilevered Brackets

	Load (pairs)		
Order No	in daN	1	a
21980500.0500	500	500	120
0800		800	120
1000		1000	150
21981000.0500	1000	500	150
0800		800	180
1000		1000	250
21982000.0500	2000	500	175
0800		800	250
1000		1000	300
21983000.0500	3000	500	250
0800		800	375
1000		1000	450

## Ordering Code (example):

0 1	,		
Cantilevered Bracket (one piece)	= 2198.	Cantilevered Bracket (one piece)	= 2198.
with fixed stop	= 10.	with tilting stop	= 11.
load = 3000 daN (pairs)	= 3000.	load = 1000 daN (pairs)	= 1000.
l = 800 mm	= 0800	l = 800 mm	= 0800
Order No	= 2198.10.3000.0800	Order No	= 2198.11.1000.0800

# 2198.10. Cantilevered Brackets with fixed stop 2198.11. with tilting stop





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2198.42.	
Load capacity	Load capacity
a m[daN]L Ball f b*c*h x y	a m[daN]L Ball f b*c*h x y
18 75 105 3 1,5 30 12 30 35 14,5	28 190 135 3 1,5 46 20 48 45 19
100 140 4	250 180 4
125 175 5	320 225 5
150 210 6	380 270 6
200 280 8	500 360 8
250 350 10	630 450 10
Load capacity	Load capacity
a m[daŇ]Ĺ Ball f b*c*h x y	a m[daŇ]Ľ Ball f b*c*h x y
22 120 120 3 1,5 37 16 38 40 14,5	36 300 150 3 1,5 56 25 61 50 24,5
160 160 4	400 200 4
200 200 5	500 250 5
240 240 6	600 300 6
320 320 8	800 400 8
400 400 10	1000 500 10



## Note:

The ball bearing rails are pushed into the DIN 650 T-shaped grooves in the press table and are fixed in place by the clamping piece. The size and number of the ball bearing rails is determined by the size of the T-shaped groove and the load-bearing capacity required. Once the tool is clamped in place, it lies on the press table and the clamping pressure presses the ball bearings into the holes.

Ball Bearing Rail	= 2198.42	
for DIN 650 T-shaped groove	=	18.
L = 105 mm	=	105
Order No	= 2198.42	.18.105

## Roller inserts Roller rails







2198.34./.35.

#### Note:

Roller inserts provide double the capacity of ball bearing inserts.

Torsion protection is provided by the customer.

2198.34.				
b	Load capacity m [daN]	е	t	
20	50	10	30	
24	80	14	38	
30	125	20	44	
40	200	30	53	

Ordering Code (example):

=

Roller inserts without collar = 2198.34.

## 2198.35.

d	Load capacity m [daN]	е	t	I
20	50	25	3,5	31
24	80	30	4	39
30	125	35	5	45
40	200	50	6	54

## Ordering Code (example):

	Roller inserts with collar	= 2198.35.	
	d = 24 mm	= 0	2
)	Order No	= 2198.35.0	2
_			_



#### 2198.44. Roller rails

d = 20 mm

Order No



020

= 2198.34.020

#### Note:

Roller rails provide double the capacity of ball bearing rails. They ensure precise linear movement of the tool.

Unlike ball bearing rails, roller rails can be used in tool base plates, i.e. installed upside down.

## Ordering Code (example):

Roller rails	= 2198	3.44.
for T-Nut 18 mm DIN	650 =	18.
L = 105 mm	=	105
Order No	= 2198	8.44.18.105



-		•••																	
	Load capac	city									Load capa	city							
а	m [daN]	Ĺ	Rollers	f	b*	$\mathbf{C}^{\star}$	h	х	у	а	m [daN]	Ĺ	Rollers	f	b*	$\mathbf{c}^{\star}$	h	х	у
18	150	105	3	1,5	30	12	30	35	14,5	28	380	135	3	1,	5 46	20	48	45	19
	200	140	4								500	180	4						
	250	175	5								630	225	5						
	300	210	6								750	270	6						
_	400	280	8								1000	360	8						
	500	350	10								1250	450	10						
	Load capac	city									Load capa	city							
а	m [daN]	Ĺ	Rollers	f	b*	$\mathbf{c}^{\star}$	h	х	у	а	m [daN]	Ĺ	Rollers	f	b*	$c^{\star}$	h	х	у
22	240	120	3	1,5	37	16	38	40	14,5	36	600	150	3	1,	5 56	25	61	50	24,5
	320	160	4								800	200	4						
	400	200	5								1000	250	5						
	480	240	6								1200	300	6						
	640	320	8								1600	400	8						
	800	400	10								2000	500	10						

subject to alterations

4



# Electrically controlled Conveyor Belts





## **Conveyor Belts**



1.1.

2

3

4.

5

6

#### Belt speed:

The standard speed is 5,5 m/min. Speeds of 2,7–7,5–11–20 m/min are available on request.

5,5	m/min.	Code	1; ; ;	
2,7	m/min.	Code	2	
7,5	m/min.	Code	3	
11	m/min.	Code	4	
20	m/min.	Code	5	
An el	ectrical controller enables the belt speed to be set to betwee	ən		
0,02	2 – 10 m/min.	Code	6 3	6 4
10	–20 m/min.	Code	7 3	7 4
20	– 30 m/min.	Code	8 3	8 4
0,02	2 – 30 m/min.	Code	9 3	9 4
with	limited control precision.		230 V AC	400 V AC
			1-ph.	3-ph.

## Motors: (supply voltage)

Single-phase-motor 230 V-50 HZ Code 1 Code 2 Three-phase-motor 230 V-50 HZ (star delta control) Code 3 Three-phase-motor 400 V-50 HZ

#### Motor position with gearbox:

Code
Code

Controller:		
Excluding electrical installation	Code	0
With manual ON/OFF switch and motor circuit-breaker	Code	1
With manual ON/OFF switch and motor circuit-breaker, additional emergency stop switch and 3 m cable with IEC 309 plug connector.	Code	2
Fittings as for 2 + Motor frequency controller to regulate the belt speed 230 V AC, single phased, with IEC 309 plug connector.	d, Code	3
Fittings as for 2 + Motor frequency controller to regulate the belt speed 400 V AC, three phased, with IEC 309 plug connector.	d, Code	4

#### Description:

The conveyor belts are used to move parts and waste out of the press. They are suitable for any other application involving the movement of parts or waste.

The belt consists of a woven glass fibre fabric with a polyurethane coating.

The drives are designed for both continuous and intermittent operation.

#### Accessories:

D

only in conjunction with a conveyor belt order.

Delimiting Guides	Page J 14
Loss prevention	Page J 15
Stands	Page J 17

## **Conveyor Belts**

2195.301.





## 2195.301.

a	b	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
030		•	•	•	•	•	•	•	•	•						
050		•	•	•	•	•	•	•	•	•						
075		•	•	•	•	•	•	•								
100		•	•	•	•	•	•	•								
125		•	•	•	•	•										
150		•	•	•	•	•										
175		•	•	•	•											
200		•	•	•	•											
225		•	•	•												
250		•	•	•												
275		•	•													
300		•	•													

## Belt load:

Belt width a	kg per meter conveyed
30- 50- 75	4
100-125-150	7
175-200-225	10
250-275-300	15

For details of ordering instructions see page J 9.

## Ordering Code (example):

Conveyor Belt	=	2195.		
Type 301	=	301.		
Belt width a	a = 100 mm =	: 1	00.	
Nominal belt length b	o = 1750 mm =		1750.	
Belt speed	=	:	1	
Motor voltage 400 V	=	:	3	
Motor position	=	:	1	
Motor controller	=		1	
Order No	=	2195.301.1	00.1750.1311	

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## 2195.302.

## **Conveyor Belts**



## 2195.302.

	h	500	750	1000	1050	1500	1750	2000	2250	2500	0750	2000	2250	2500	2750	4000
a	b	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3/50	4000
030											-	-	-	-	-	<u> </u>
050											•	•	•	•	•	•
075									•	•	•	•	•	•	•	•
100									•	•	•	•	•	•	•	•
125							•	•	•	•	•	•	•	•	•	
150							•	•	•	•	•	•	•	•	•	
175						•	•	•	•	•	•	•				
200						•	•	•	•	•	•	•				
225					•	•	•	•	•	•	•					
250					•	•	•	•	•	•	•					
275				•	•	•	•	•	•	•						
300				•	•	•	•	•	•	•						

## Belt load:

Belt width a	kg per meter conveyed
100-125-150	7
250-275-300	15

For details of ordering instructions see page J 9.

Conveyor Belt		= 219	5.		
Type 302		=	302.		
Belt width	a = 100 mm	=	100.		
Nominal belt length	b = 25000 mm	=	2500.		
Belt speed		=	1		
Motor 400 V		=	3		
Motor position		=	1		
Motor controller		=	1		
Order No		= 219	5.302.100.1750.1311		

## Conveyor Belts

2195.401.





#### 2195.401. 500 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750 4000 b 750 a 030 050 075 100 125 150 175 • ۲ • . . • • • • . . . . . • • . . • • . . . . • . . . . • • . . . • 200 225 250 275 300 ě . • • . . • • Õ • õ õ ŏ ŏ • . ٠

## Belt load:

Belt width a	kg per meter conveyed					
30- 50- 75	5					
100-125-150	10					
175-200-225	14					
250-275-300	17					
For datails of ordering instructions and page 10						

For details of ordering instructions see page J 9.

## Ordering Code (example):

Conveyor Belt	= 219	5.	
Type 401	=	401.	
Belt width a =	= 100 mm =	100.	
Nominal belt length b =	- 1750 mm =	1750.	
Belt speed	=	1	
Motor voltage 400 V	=	3	
Motor position	=	1	
Motor controller	=	1	
Order No	= 219	5.401.100.1750.1311	

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2195.402.

## **Conveyor Belts**



## 2195.402.

а	b	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000
030											•	•	•	•	•	•
050											•	•	•	•	•	•
075									•	•	•	•	•	•	•	
100									•	•	•	•	•	•	•	
125								•	•	•	•	•	•	•		
150								•	•	•	•	•	•	•		
175							•	•	•	•	•	•				
200							•	•	•	•	•	•				
225						•	•	•	•	•	•	•				
250						•	•	•	•	•	•	•				
275					•	•	•	•	•	•	•					
300					•	•	•	•	•	•	•					
350		•	•	•	•	•	•	•	•	•						
400		•	•	•	•	•	•	•	•	•						
450		•	•	•	•	•	•	•	•							
500		•	•	•	•	•	•	•	•							

## Belt load:

Belt width a	xg per meter conveyed
30-50-75	5
100-125-150	10
175-200-225	14
250-275-300	17
350-400-450	20
500	24
500	24

For details of ordering instructions see page  $_{\rm J}$  9.

Conveyor Belt			= 219	5.	
Type 402			=	402.	
Belt width	a =	100 mm	=	100.	
Nominal belt length	b = 2	2500 mm	=	2500.	
Belt speed			=	1	
Motor 400 V			=	3	
Motor position			=	1	
Motor controller			=	1	
Order No			= 219	5.402.100.2500.1311	

## **Delimiting Guides** for Conveyor Belts

#### 2195.115. 2195.114. 2195.116. 2195.117.



## 2195.114.

#### Description:



\_\_\_\_

## 2195.115.

#### Description:

Delimiting guides made of stainless steel  $h_{\text{min.}}$  = 25 mm

#### Note:

Only in conjunction with a conveyor belt order.

#### Ordering Code (example):

Conveyor Belt	= 2195	j.	
Delimiting guide type	=	115.	
h <sub>min</sub> = 25 mm	=	025.	
Belt width a = 150 mm	=	150.	
Frame length b = 1500 mm	=	1500	
Order No	= 2195	5.115.025.150.1500	



#### Description:

Conveyor edge rails of steel, brazed  $h_{\text{min.}}$  = 10 mm

#### Note:

Only in conjunction with a conveyor belt order.

#### Ordering Code (example):

<b>U</b> (		,	
Conveyor Belt	= 2195.		
Delimiting guide type	=	116.	
h <sub>min</sub> = 10 mm	=	010.	
Belt width a = 100 mm	=	100.	
Frame length b = 1500 mm	=		1500
Order No	= 2195.	116.010.100.1	1500



## 2195.117.

#### Description:

Trough conveyor edge rails of stainless steel, with brazed on steel reinforcement walls hmin. = 15 mm

#### Note:

Only in conjunction with a conveyor belt order.

0 (		'		
Conveyor Belt	= 2195			
Delimiting guide type	=	117.		
h <sub>min</sub> = 15 mm	=	01	5.	
Belt width a = 100 mm	=		100.	
Frame length b = 1500 mm	=		1500	
Order No	= 2195	.117.01	5.100.1500	





## Delimiting Guids for Conveyor Belts with loss prevention

## 2195.218.



c

## 2195.219.

#### Installation Example:

with profile on conveyor edge rail 2195.115. with loss prevention.

## Ordering Code (example):

	-		
Conveyor Belt	= 2195	5.	
Delimiting guide type 115			
with loss prevention type 219	=	219.	
h <sub>min</sub> = 23 mm	=	023.	
Belt width a = 150 mm	=	150.	
Frame length b = 1500 mm	=	1500	
Order No	= 2195	5.219.023.150.1500	

## 2195.220.

#### Installation Example:

with profile on conveyor edge rail 2195.114. and longitudinal profile on edge of belt, with loss prevention.

## Ordering Code (example):

Conveyor Belt	= 2195.			
Delimiting guide type 114				
with loss prevention and longitudi	nal			
profile 2195.00.01.08.005	=	220.		
h <sub>min</sub> = 33 mm	=	033.		
Belt width a = 150 mm	=	150.		
Frame length b = 1500 mm	=	1500		
Order No	= 21	195.220.033.150.1500		
			_	



Stainless steel profile

PVC loss prevention

## 2195.221.

#### Installation Example:

with profile on conveyor edge rail 2195.115. and longitudinal profile on edge of belt, with loss prevention.

Conveyor Belt	= 2	195.	
Delimiting guide type 115			
with loss prevention and longitudina	al		
profile 2195.00.01.08.005	=	221.	
h <sub>min</sub> = 33 mm	=	033.	
Belt width a = 150 mm	=	150.	
Frame length b = 1500 mm	=	1500	
Order No	= 2	195.221.033.150.1500	
2 <sup>-</sup>			_







## 2195.120./121. 2195.130./131. 2195.140./141. 2195.150./151.















# Pneumatic Conveyor Belts





#### Description:

FIBRO pneumatic conveyor belts are ideal for conveying both large and small products and are used in many industries and sectors. The conveyor is robust in design and the standard versions employ an aluminium profile.

There are no awkward contours on the top and bottom, so the conveyor is especially useful in applications where space is tight. The belt runs within the profile on the underside, so the conveyor can be mounted directly on a flat surface.

A simple installation process allows the conveyor to be driven directly by the machine's compressed air supply and work automatically in time with it.

A control system is available to enable the conveyor to run at a different rate (see Control).

Our conveyors work with belts to a wide range of specifications, to suit the specific application.

#### Drive unit:

The conveyor belt is powered by a double action cylinder to ISO 6432 ( $\varnothing$ 16/25 mm) and features end of travel damping. The customer can select the cylinder stroke length to suit the various models, taking into account the minimum length of the conveyor belt. The piston operates an eccentric clamping shaft, which grabs the belt when the piston travels. When it returns, the belt does not move. The distance that the belt and its load travel is a few mm shorter than the travel of the piston. This system of belt drive is non-slip in both dry and oily environments, so it ensures safety and reliability.

#### Technical data:

Operating pressure:	6 bar			
Temperature range – mechanical parts:	Ambient temperature: max. +60°C			
Temperature range - belt:	see pages J 25 and J 29			
Air consumption:	During movement backwards and for wards, 6 bar and 20°C			
2295.3.	app. 0,03 l/cm stroke			
2295.4.	app. 0,06 l/cm stroke			
The cost of operation and maintenance is minimal because of the few mechanically stressed parts.				

#### Location of the conveyor belt:

It is important that the conveyor belt is mounted on a firm and even surface. The guide unit must not be subjected to side loads. For this reason we recommend the use of the M6 threaded holes on the U section profile which are also used for fixing the end parts.

If you are not considering using these threaded holes we recommend that wedges be used.

There are two versions of fixing clamp for each version height, for conveyors with and without edge rails.





# Order number system for pneumatic conveyor belts





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#### **Dimensions:**

Belt length\* Belt width\*\* 500-1500 mm (50 mm increments) 80, 100-250 mm (25 mm increments)

\* tolerance ±1 mm

\*\* tolerance ±0,5 mm Belt width = conveyor width -31 mm Other lengths & widths upon request.

#### Note:

If you work with parts smaller than 10 mm diameter, or smaller then  $80\ mm^2$ , please contact us for advice.

## Available stroke lengths and minimum conveyor belt length:

Stroke length	Conveyor belt length	
A = 25 mm	500 mm	
B = 40 mm	500 mm	
C = 50 mm	500 mm	
D = 80 mm	550 mm	
E = 100 mm	600 mm	
F = 125 mm	650 mm	
G = 160 mm*	700 mm	
H - 200 mm	800 mm	

#### Number of cylinders:

Width of belt	Number	
≤125 mm	1	
>150 mm	2	

\* standard stroke





2295.3.

500 Special

s

Ν

None

Х

#### Construction:

#### Belt versions (transverse profiles available from widths of 100 mm upwards):

250 300

J

320

L

К

400

М

20 Polyurethane belt, PU03, smooth, blue/green, t = 1.7 mm

21 Polyurethane belt, PU03, with polyurethane transverse profiles, transp. S = 2 mm, h = 5 mm

22 Polyurethane belt, PU03, with polyurethane transverse profile, transp. S = 2 mm, h = 10 mm

23 Polyurethane belt, PU03, with polyurethane transverse profile, transp. S = 2 mm, h = 15 mm

50 Polyurethane belt, PUM2, smooth, light blue, t = 1.6 mm

Temperature range: Polyurethane belt =  $60^{\circ}$ C. Polyester fabric (PET). The number of profile sections or dimensions I<sub>1</sub> should be stated when ordering.

Width across profiles I₁ (mm) 40 50 80 100 125 160 200 B C D E F G H

80 NBR belt, HAT 8P. Rubberised high friction surface, green, s = 2 mm. Temperature range: ≤100°C. Heavy duty, extremely abrasion resistant. Polyamid fabric Oil resistant.

Belt specifications for a range of applications:

2295.3. can be fitted with various belts.

The compact design of the conveyor belt assumes that the belt will work with 22 mm diameter rollers.

Technical specifications	PU03	PUM2	NBR		
Dil resistance	•	•	•		
Abrasion resistance	•	•	•		
Friction	Medium	Low	High		
Anti-static	Low	High	Medium		
Application					
Sheet metal working	•	•	•		
Punch	•	•	•		
Hydraulic press	•	•	•		
Wood and paper industries	•	•	•		
Plastics industry	•	•	•		
Machining centres (coolant)	•	•	•		
Assembly line, conveying dry produc	ts				
within the industry	•	•	•		
·					
Comment: All details and information	ation are recommer	ndations only.			
Whilst they are given	in good faith we ca	innot give any a	ssurances or qua	rantee	
that they are accurate	or applicable in pa	articular applica	tions.		
We also offer conveyor belts for use	in the foodstuffs ar	nd pharmaceuti	cals industries		
For such applications we can supply	stalalaan staal aas				

#### Ordering Code (example):

see fold-out page J 23.

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2295.3.



#### Control:

5 Standard 2 air ports, control by customer for forward and reverse movement or in conjunction with an external control system.

External control units (accessories):

#### 2295.00.11

Electro-pneumatic: 24 V DC, sensors/actuators in separate casings (IP65).1)

#### 2295.00.12

Electro-pneumatic: 230 V AC, sensors/actuators in separate casings (IP65).<sup>1)</sup>
[2295.00.13]

Fully pneumatic: Logic elements in separate casing (IP65). (IP65).<sup>2) 3)</sup>



1) The frequency (work/pause time) is set with a timing relay.

2) The stroke speed is set with 2 one-way restrictors.

3) Minimum operating pressure: 6 bar.

#### Position of compressed air ports: W Front right (standard) X Front left ø19 Y Back right 68 20 Х Z Back left Ζ ĺŪ. Ē Direction of travel of belt 2 ᡃ᠋᠋ᡏ᠊᠋ᡏ᠊ᢆ Ψw ΤÌΤ

## Edge rails:

The edge rails are manufactured from 1.5 mm stainless steel sheet.





#### Accessories:

Fixing clamp\* Fixing clamp

2295.00.3 2295.00.3.1 without edge rail with edge rail

\* The number of fixing clamps is to be determined, to match the application and conveyor belt dimensions.

2295.3.

#### Available to order:

- Stripping unit
- funnel
- · Belt speed monitor



#### Dimensions:

Length of belt*	500-5000 mm (500-1500 mm=50 mm increment) (>1500 mm =100 mm increment)
Belt width**	80, 100-250 mm (25 mm increment) 300-600 mm (50 mm increment)

- tolerance ±1 mm
- \*\* tolerance ±0,5 mm

Belt width = conveyor width -31 mm Other lengths & widths to order

#### Note:

If you work with parts smaller than 10 mm diameter, or smaller then 80 mm<sup>2</sup>, please contact us for advice.

#### Available travel and minimum conveyor belt length:

Stroke length	Conveyor belt length	Stroke length	Conveyor belt length
A = 25 mm	500 mm	H = 200 mm*	850 mm
B = 40 mm	500 mm	J = 250 mm	950 mm
C = 50 mm	550 mm	K = 300 mm	1050 mm
D = 80 mm	600 mm	L = 320 mm	1100 mm
E = 100 mm	650 mm	M = 400 mm	1250 mm
F = 125 mm	700 mm	N = 500 mm	1450 mm
G = 160 mm	800 mm		

#### Number of cylinders:

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Width of belt	Number	
≤200 mm	1	
>225 mm	2	

standard stroke



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• • 2295.4





2295.4.

## Compact pneumatic conveyor belts

Be	It versions (t	ransver	rse profi	iles av	ailable f	rom wid	ths of 1	00 mm ւ	upwards)	):
10	Standard: G18 nee	dled felt bel	lt, smooth, b	lack, t=2.	.5 mm, tempe	rature range:	≤ 80 °C			
20	Polyurethane belt.	PU03. smoo	oth. blue/are	en. t = 1.	7 mm					
21	Polyurethane belt	PLI03 with	nolvurethan	e transve	rse profile tra	nsn S-2m	m h – 5 mr	n		
22	Polyurothano bolt	DI 102 with	polyurothan		reo profilo, tra	nop $S = 2 m$	m h = 10 m	m		
22	Polyurethane belt,	PU00, with			ise prome, ira	nsp. 3 = 2 m	m, n = 10 m			
23	Polyurethane belt,	PUU3, with	polyurethan	e transve	rse profile, tra	nsp. S = 2 m	m, n = 15 m	im		
31	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, tr	ansp. $S = 3 r$	nm, h = 5 m	Im		
32	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, tr	ansp. S = 3 r	nm, h = 10 i	mm		
33	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, tr	ansp. S = 3 r	nm, h = 15 i	mm		
44	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, b	lue/green S =	= 3 mm, h =	20 mm		
45	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, b	lue/green S =	= 3 mm, h =	25 mm		
46	Polyurethane belt,	PU03, with	polyurethan	e transve	rse profiles, b	lue/green S =	= 3 mm, h =	30 mm		
49	Polyurethane belt,	PU03, spec	ial							
50	Polyurethane belt,	PUM2, light	blue, t = 1.6	6 mm, ant	i-static					
58	Polvurethane belt. PU	IM2. light blue	. t = 1.6 mm. w	ith polvure	thane profiles. \	/60 liaht blue.	s = 3 mm. h =	50 mm (V60 = ir	clined forwards	at 60°) l₁ = ≥55 mm
59	Polyurethane belt	PLIM2 sner	rial				,			
70	Polyurethane belt,	PI I07 coars		white (re	duces the cor	tact area of	the of the m	achine nart o	n the helt)	
76	Polyurothano belt,	DI 107 with	noluurothan	o transver		raight S - 2	mm h = 20	mm	n nie beitj.	
76	Polyurethane belt,	PUU7, With	polyurethan	e transve	rse promes, s	traignt 5 = 3 l	mm, n = 30	mm		
79 Tom	Polyurethane belt,	PU07, spec	ial	lucetor for	orio (DET) Tho	number of pro	filo contione	or dimonsions	L should be st	atod whon ordering
Wid	th across profiles I	(mm)	en ≤00 0. FU	nyester iat		number of pro	Jille Sections		I <sub>1</sub> SHOULD BE SL	ated when ordening.
40	50 80	100 125	5 160	200	250 300	320 40	0 500	Special	None	
B	C D	E F	G	н	JK	LN	И N	S	Х	
80 Tem	NBR belt, HAT 8P. Iperature range: ≤1	Rubberised 00°C. Heav	high friction y duty, extre	surface, mely abra	green, t = 2 m asion-resistar	m. t. Polyamid f	fabric. Oil re	esistant.		
				,						
90	PVC belt, SAQ8E,	with mesh s	tructure for h	niah frictia	1 0	4				
Tom	nerature range: </td <td></td> <td>eter fabric (</td> <td></td> <td>on, grey, <math>t = 2</math></td> <td>ications uno</td> <td>n request</td> <td></td> <td></td> <td></td>		eter fabric (		on, grey, $t = 2$	ications uno	n request			
Tem	iperature range: ≤6	60°C. Polyes	ster fabric (I	PET). Oth	er belt specif	ications upor	n request.			
Tem	perature range: ⊴e	ons for a	ster fabric (I	of apr	er belt specif	ications upor	n request.			
Tem Belt	t specificatic 4. can be fitted with	ons for a	a range	of app	on, grey, t = 2. er belt specif	ications upor	n request.			
Tem Bell 2295. The c	t specificatic 4. can be fitted with ompact design of th	50°C. Polyes	a range Its.	of app	blications	ications upor	ameter rolle	ers.		
Tem Bell 2295. The c Techr	t specificatic 4. can be fitted with ompact design of th ical specifications sistance	60°C. Polyes ons for a n various bel ne conveyor s	a range Its. assumes th	of app nat the be	Dir, grey, t = 2. er belt specif	ications upor	n request. ameter rolle PU07	ers. NBR	PVC	
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Tem 2295. The c Techr Oil res Abras Frictic	t specification 4. can be fitted with ompact design of th nical specifications sistance ion resistance	50°C. Polyes	a range Its. assumes th G Mec	of app of app nat the be 18	bli, grey, t = 2. er belt specif blications blicati	S: Humminications upon Humminications upon Hummi	ameter rolle PU07 Medium	ers. NBR ● High Modium	PVC High	
Tem 2295. The c <u>Techr</u> <u>Oil res</u> Abras Frictic Anti-s	t specification t specification ompact design of th nical specifications sistance ion resistance on tatic	50°C. Polyes	a range lts. • assumes th G Mee Hc	of app of app nat the be 18 dium boch	It will work w PU03 Medium Low	th mm. ications upor th 33 mm dia PUM2 • Low High	ameter rolle PU07 Medium Low	ors. NBR ● High Medium	PVC • High Medium	
Term 2295. The c <u>Techr</u> Oil res Abras Frictic Anti-s	t specificatic t specificatic 4. can be fitted with nical specifications sistance nicon resistance n tatic cation	50°C. Polyes	a range lts. assumes th G Mec Hc	of app nat the be 18 Jium boch	It will work w PU03 Medium Low	th mm. ications upol th 33 mm dia PUM2 Low High	ameter rolle PU07 Medium Low	ers. NBR High Medium	PVC • High Medium	
Tem Beli 2295. The c Techr Oil res Abras Frictic Anti-s Sheet Punct	t specificatic t specificatic t specification ompact design of th ical specifications sistance ion resistance on static cation metal work	50°C. Polyes	a range Its. • assumes th G Mec Hc	of app at the be 18 Jum boch	It will work w PU03 Medium Low	th 33 mm dia PUM2 Low High	n request.	NBR NBR High Medium	PVC • High Medium	
Tem Beli 2295. The c Techr Oil res Abras Frictic Anti-s Sheet Hydra	t specificatic t. can be fitted with format design of th ical specifications sistance ion resistance ion resistance cation metal work n ulic press	50°C. Polyes	a range Its. • assumes th G Mec Hc	of app of app at the be 18	on, grey, t = 2. er belt specif Dlications it will work w PU03 Medium Low	th 33 mm dia PUM2 Low High	n request.	Prs. NBR High Medium	PVC • High Medium	
Tem Beli 2295. The c <u>Techr</u> Oil res Abras Frictic Anti-s Sheet Hydra Wood Plasti	perature range: ≤6 t Specificatio t. can be fitted with ompact design of th ical specifications sistance on tatic cation cation cation metal work n ulic press and paper industri	60°C. Polyes ons for a n various belen ne conveyor s es	a range Its. assumes th G Mec Hc	of app at the be 18	on, grey, t = 2. er belt specif Dlications blicatio	s: Hh 33 mm dia PUM2 0 Low High	n request.	Prs. NBR ● I High Medium ● ●	PVC • High Medium	
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Term  Term  Term  Partial  Term  Term  Partial  Term  Term  Partial  Term  Term Term	perature range: ≤6 t Specificatio 4. can be fitted with ompact design of th fical specifications sistance ion resistance ion resistance cation cati	es and informate given tee that they	A range a range Its. assumes th G C Met He C C C C C C C C C C C C C	of app of app nat the be 18 Jum Jum Jum Jum Jum Jum Jum Jum Jum Jum	oh, grey, t = 2. er belt specif Dlications it will work w PU03 Medium Low Additional Additiona	S: th 33 mm di PUM2 Low High Ssurances icular applic	n request.	ers. NBR High Medium • • • • • • • •	PVC High Medium	
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Term  Term  Tech  Sheet  Abrass  Frictica  Abrass  Frictica  Abrass  Frictica  Comr  Wood  Comr  We als  For su	perature range: ≤6 t specificatio 4. can be fitted with ompact design of th incal specifications sistance ion resistance on tatic cation metal work meta	es and informa y are given tee that they ets for use can supply	a range a range Its. a ssumes th G G C Mec He C C C C C C C C C C C C C	of app of app at the be 18 	bil grey, t = 2. er belt specif blications lit will work w PU03 Medium Low Additions ations only. tot give any a licable in part pharmaceutic cid resistant of	trim.     ications upon     ications upon     ications upon     ications upon     ications upon     ications upon     ications	n request.	erS. NBR High Medium O O O O O O O O O O O O O	PVC High Medium	
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see fold-out page J 23.

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2295.4.



#### Control:





#### Edge rails:

The edge rails are manufactured from 1.5 mm stainless steel sheet.





#### Accessories:

Fixing clamp\* Fixing clamp 2295.00.4 without edge rail 2295.00.4.1 with edge rail

\* The number of fixing clamps is to be determined, to match the application and conveyor belt dimensions.

#### Available to order:

- Stripping unit
- Funnel
- Angle belt, 40 mm high (30°/45°)
  Belt speed monitor



## Typical Applications





-18582-2003-1

















## Questionnaire Pneumatic Conveyor Belts



			q		
max. weight per ru	nning metre of belt:		kg/m		
Part dimensions	Length		mm		
	Width		mm		
	Height		mm		
Material:					
Is the surface of the	e part delicate?	Yes: 🗆	No 🗆		
If "Yes" please spe	cify:				
The part is:		rectangi	ular 🗆		
		round			
		has sha	rp edges 🛛		
Other factors					
	wive on the helt?				
How do the parts a					
	, please specify.				
Function (control):			-		
Should the belt wo	rk at the same rate as the machin	ne?		Yes:	No 🗆
Should the belt wo Is the belt only in o	rk at the same rate as the machin peration at the same time as the	ne? machine?		Yes: □ Yes: □	No 🗆 No 🗆
Should the belt wo Is the belt only in o Will the belt be at a	rk at the same rate as the machin peration at the same time as the In angle?	ne? machine?		Yes: □ Yes: □ Yes: □	No 🗆 No 🗆 No 🗆
Should the belt wo Is the belt only in o Will the belt be at a If "Yes" please spe	rk at the same rate as the machin peration at the same time as the In angle? cify:	ne? machine?		Yes: □ Yes: □ Yes: □	No 🗆 No 🗆 No 🗆
Should the belt wo Is the belt only in o Will the belt be at a If "Yes" please spe	rk at the same rate as the machin peration at the same time as the In angle? cify:	ne? machine?	mm (standa	Yes: Yes: Yes: ard: 160/2	No 🗆 No 🗆 No 🗆
Should the belt wo Is the belt only in o Will the belt be at a If "Yes" please spe Stroke length: Number of strokes	rk at the same rate as the machin peration at the same time as the in angle? cify: per minute:	approx	mm (standa 1/min	Yes: Yes: Yes: Ard: 160/2	No No No 200 mm)
Should the belt wo Is the belt only in o Will the belt be at a If "Yes" please spe Stroke length: Number of strokes Speed:	rk at the same rate as the machin peration at the same time as the in angle? cify: per minute:	approx	mm (standa 1/min m/min.	Yes: Yes: Yes: Yes: Arrd: 160/2	No No No 200 mm)
Should the belt wo Is the belt only in o Will the belt be at a If "Yes" please spe Stroke length: Number of strokes Speed: Should the belt be	rk at the same rate as the machin peration at the same time as the in angle? cify: per minute: oil resistant?	approx approx approx Yes:	mm (standa 1/min m/min. No	Yes:  Yes:	No 🗆 No 🗆 200 mm)
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# Pneumatic Conveyors



## Pneumatic conveyors



#### Description

This pneumatic conveyor is unique and is patented. It was designed to provide an effective and affordable solution to the problems of conveying parts and disposing of waste. This beltless system conveys stampings and waste from the tool area by vibration alone.

A specially designed guide channel which is screwed to the body of the conveyor vibrates rhythmically slowly forwards and fast backwards The mass inertia of the parts is used to move them forwards. In this way the parts in the guide channel progress gently towards the storage containers. The conveyor is maintenance-free and has a very low air consumption so is extremely economical in operation. The pneumatic conveyor is quiet running and very user friendly.

The conveyor was originally designed for press room use but can be used as a conveyor with any tool. Blockages are a thing of the past whether the conveyor is feeding parts for assembly or removing and disposing of stampings and waste parts.



1. Recommended rate of vibration: 120 per minute · 2. Speed of travel: 8-10 m / min. · 3. Operating pressure: 4-5.5 bar

Slope of guide channel: max. 8<sup>o</sup>



## 2199.03/2199.10 2199.40/2199.70









## Pneumatic conveyors









subject to alterations

## Pneumatic conveyors

## 2199.03/2199.10 2199.40/2199.70



