Manufacturer:

OKARTEK

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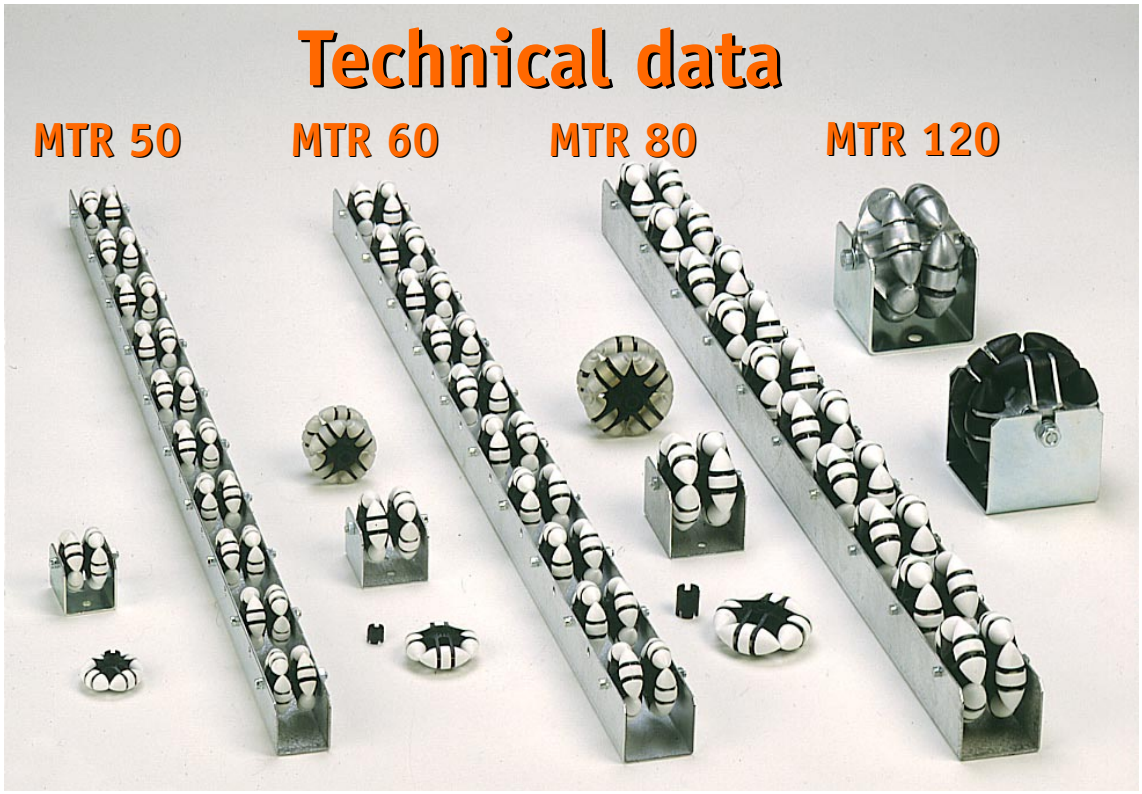
Technical data



The unique Roll-Flex roller design is based on the use of four free turning barrel shaped rollers mounted in a 90° staggered pattern around the perimeter of a main core wheel, thus allowing for a multidirectional roller function. The Roll-Flex is model protected in a number of industrial countries.

– The core part of the ø 50 mm (1.97"), ø 60 mm (2.36") and the ø 80 mm (3.15") rollers are made of corrosion resistant polyacetal and each individual roller element of either polyacetal (POM) or of softer polyurethane (PUR – only in a ø 60 mm roller).

– The ø 120 mm (4.72") roller has a core made out of zinc, while each roller element is made of either zinc or polyacetal. The core part is equipped with a ball bearing.

– The small axles are made of stainless steel.

The open construction gives the Roll-Flex rollers a long service life without requirements for maintenance or lubrication, while relieving the user of problems caused by ingress of dirt, water etc.

The multidirectional roller function is optimized in a paired duplex configuration!

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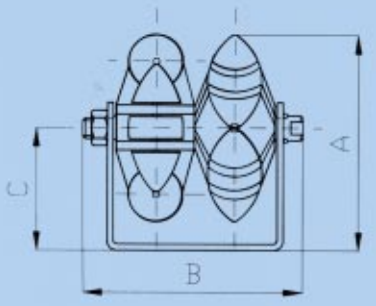
DUPLEX ROLLER IN PROFILE

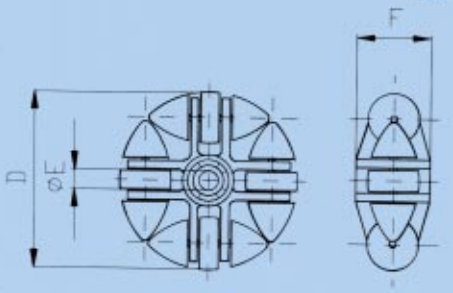


	Ø50	Ø60	Ø80	Ø120
A	60.0	70.0	90.0	133.0
B	56.0	68.8	78.0	123.0
C	35.0	40.0	50.0	73.0

Recommended maximal weight of transported goods*

per roller kg	10	20	40	250
kg/m²	200	400	800	2000

SIMPLEX ROLLER

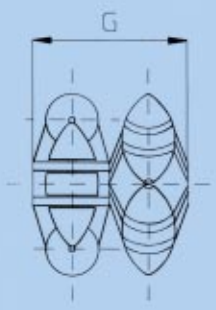


	Ø50	Ø60	Ø80	Ø120
D	50.0	60.0	80.0	120.0
E	8.3	8.3	8.3	12.0
F	19.5	25.0	30.0	60.0

Recommended maximal weight of transported goods*

per roller kg	5	10	20	125

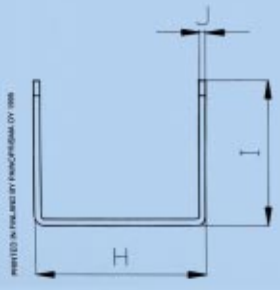
Technical data



DUPLEX ROLLER

	Ø50	Ø60	Ø80	Ø120
G	39.0	51.0	60.0	95.0

PROFILES



Profile for		Ø50	Ø60	Ø80	Ø120
	H	43.0	56.0	65.0	104.0
	I	42.0	47.0	58.0	90.0
	J	2.0	2.0	2.0	3.0
Profile for duplex roller, length*		52.0	62.0	82.0	100.0
Long profile		1000	1000	1000	

* Depends on roller distance and quality of transported goods.

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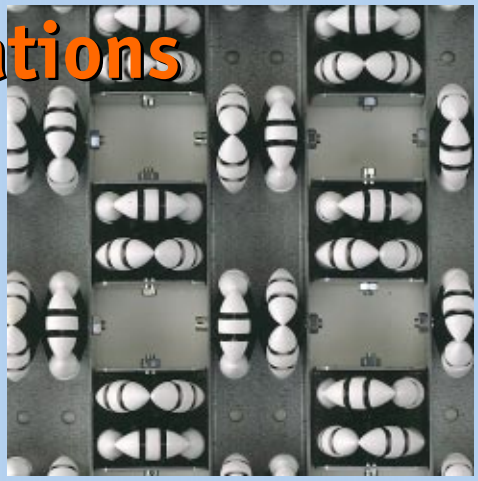
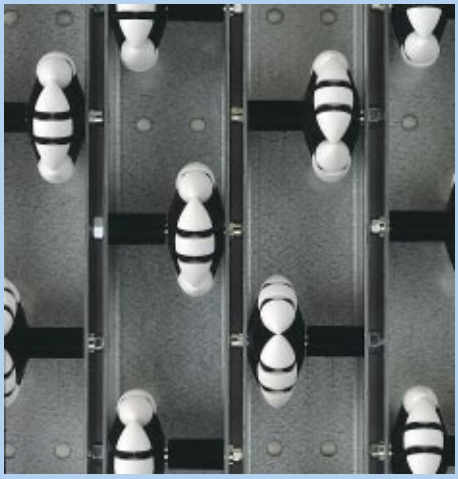
Technical data

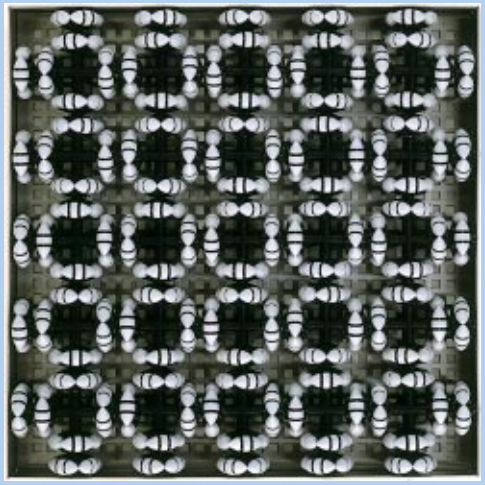
Standard export cartons:

	1 carton contains	g / pc	kg / carton
∅ 50 Simplex	360 pcs	26,8	10,2
Duplex	180 pcs	53,8	10,2
∅ 60 Simplex	180 pcs	51,0	9,8
Duplex	100 pcs	102,4	10,6
∅ 80 Simplex	160 pcs	111,4	18,6
Duplex	80 pcs	226,2	18,6
∅ 120 Simplex Zn	acc. to orders	1700	
Duplex Zn	acc. to orders	2900	
∅ 120 Simplex POM	acc. to orders	700	
Duplex POM	acc. to orders	1100	

Applications







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A Roll-Flex turntable can among other things be used to facilitate weighing.

MTR 120 mm

The Roll-Flex ø 120 mm (4.72”) is designed for the handling of heavy loads, such as stone, steel plates etc.

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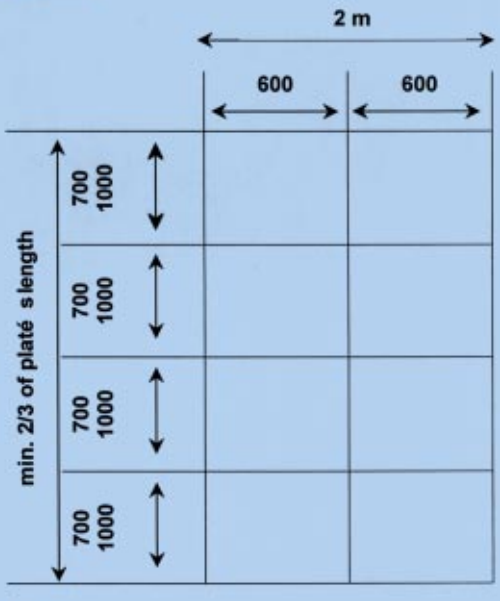
MTR ø120 mm dimension instructions

NORMAL WIDTH OF THE PLATE CUTTING MACHINE
2 m, 3 m, 6 m



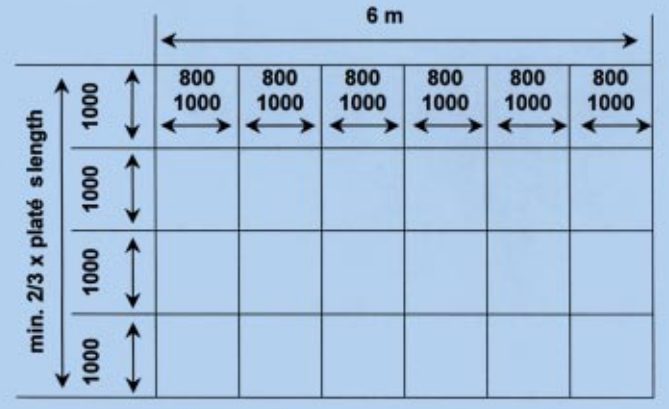
RECOMMENDATIONS

Plate´s dimensions
20 x 2000 x 6000 = 1920 kg

Number of rollers in width
3 rollers simultaneously under plate

Number of rollers in length
2/3 x plate´s length

for example 3 m in width x 5 m in length
= 15 pcs rollers = 128 kg/pc.



PLEASE AVOID OVERLOADING THE LAST ROLLERLINE!

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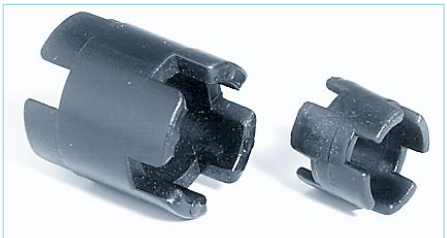
OKAR-ROLL
Conveyor components

1. MTR-MULTIDIRECTIONAL ROLLERS AND OTHER ROLLER PARTS

Multidirectional roller allows material or packages to be smoothly and easily transferred, sorted or turned in any direction. Diameters: 50, 60, 80 and 120 mm.
Material: 50, 60 and 80 mm POM (core hub part black, individual roller elements grey or white, small axles stainless steel) 120 mm POM or Zn (core part zinc, individual roller elements zinc or POM, small axles stainless steel and middle axle zinc coated steel with ball bearing 60012RS).
In addition to U-channel structures, ready made MTR-packing tables and crossing transfer units are also available.

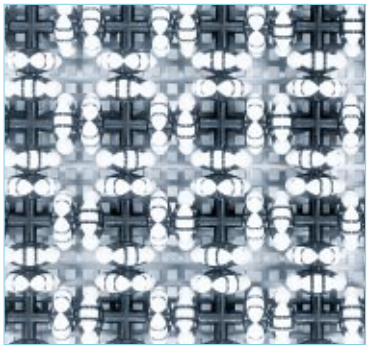
Detailed information, with technical data together with pictures of various applications, are available in our MTR-brochures.



1.1. MTR - CONNECTION PIECE 50/60 (x10-025) and 80 (x30-004)

By applying these connection pieces between a pair of simplex rollers a duplex roller is created.
Material: POM (black)

Picture No 4-401



1.2. MTR - CROSSING PIECE (x10-023)

Ditferent MTR-assemblies can be created by applying the crossing piece when installing rollers in different directions, as seen in the picture.
Material: POM (black) *Picture No 4-405*

1.3. MTR - DRIVE WHEEL (x20-013)

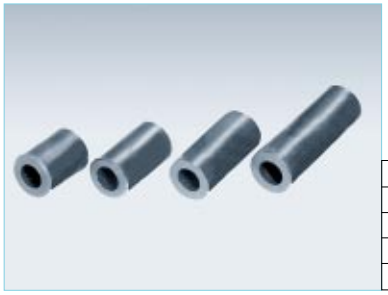
Driven systems can be made by using a drive wheel in the 50 and 60 mm rollers. Example 90° drive corner tables or crossing units.
Drive is transmitted from a drive belt, which is installed in the drive wheel's channel, to an accumulation roller on the power axle.
Material: POM (black) *Picture No 4-408*

1.4. BEARING CUP (0727)

In driven MTR-solutions, the bearing cup holds the bearing in place and protects the axle head.
Material: PA (natural color)

Picture No 4-409

1. MTR-MULTIDIRECTIONAL ROLLERS AND OTHER ROLLER PARTS



L	Ø D	Ø d	Weight/g
20	14	8.3	3.0
26	14	8.3	3.6
30	14	8.3	4.2
43	14	8.3	6.0

1.5. SPACERS

Lengths: 20, 25, 30 and 43 mm
Inner diameter: 8,3 mm, outer diameter: 14 mm
When installing rollers in a zig-zag pattern into U-channels, spacers are used as fillers on the axles. Furthermore, a 20 mm's spacer ensures that the bearing is held in place when used with the bearing heads.
Material: POM (black)

Picture No 4-404

SIZE	G / mm	L / mm
Axle 50	42.0	56.0
Axle 60	53.2	68.8
Axle 80	63.0	78.0

1.6. MTR -AXLES

1.6.1. MTR 50 MIDDLE AXLE (x10-006)
– also used with KMR ø 50 disc rollers.
1.6.2. MTR 60 MIDDLE AXLE (x20-006)
1.6.3. MTR 80 MIDDLE AXLE (x30-006)
1.6.4. M6 NUT (x10-008)
Material: zinc coated steel, also available in stainless steel on request.

Picture No 4-403

2. KMR-DISK ROLLERS

Disc rollers are used in roller rails and tables when transferring goods lengthwise.
Common applications for disc rollers are also found in roller rails, side bars and curves.
Channel frames for o 50 mm's disc rollers are also available.
Diameters: 35 and 50 mm
Material: from stock; PA (black), also available FUR (natural color), PP (blue) on request.
Ø 35 mm disc roller's material POM (black).

	ØD	Ø d	Ø dl	S	s	Weight	Color	Product. No
PUR	50	8.3	16	19	18	17.8 g	Natural	0046
PA	50	8.3	16	19	18	17.7 g	Black	0044
PP.	50	8.3	16	19	18	13.5 g	Blue	0045
POM	35	6.3	13	16.3	16	14.5 g	Black	0048

Picture No 7-701

3. FLANGED CONVEYOR WHEELS AND OTHER CONVEYOR WHEELS

3.1. FLANGED CONVEYOR WHEEL 70/50 x 45,5 mm (0735)
Picture No 8-802

3.2. CONVEYOR WHEEL WITHOUT FLANGES 50 x 45,5 mm (0734)
Picture No 8-801

Well suited for use on shelves where goods are being transferred to different rationalization work points.
The inner diameter for these wheels is ø 16,3 mm. 16 mm bearing bushings and M12 hexagon screws are used as axles.
Channel frames available in two different widths (assembled with one conveyor wheel or with two conveyor wheels side-by-side). The wider model can also be used to manually transfer light load pallets. In this case, three channel rails are assembled side-by-side; two channel rails with conveyor wheels without flanges and with flanged conveyor wheels to both sides of the pallet and one channel rail with conveyor wheels without flanges (two wheels side-by-side) in the middle.
Material: POM (black)

3.3. BEARING BUSHING JM 16x47,5 mm (0713)
3.4. BEARING BUSHING JM 16x93 mm (0718)
Tubes cut to certain lengths are used as bearing bushings on the axle of the flanged conveyor wheels and the conveyor wheels without flanges.
Material: PVC (natural color)

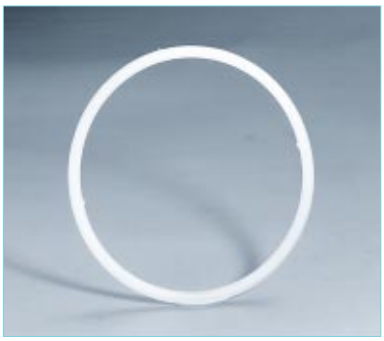
3.5. HEXAGON SCREW M12x65 DIN 931 (0710)
When assembling flanged conveyor wheels and conveyor wheels without flanges to a U-channel frame (U-2x52x52 mm), hexagon screws M12x65 are used as axles.

3.6. HEXAGON SCREW M12x110 DIN 931 (071 11)
When assembling flanged conveyor wheels and conveyor wheels without flanges to a U-channel frame (U-2x97x52 mm), hexagon screws M12x110 are used as axles.

3.7. M12 DIN 985 NUT (0712)
Used to fasten the above mentioned hexagon screws.
Material in items 3.5, 3.6 and 3.7 are zn/znc 8.8

4. CONVEYOR COMPONENTS

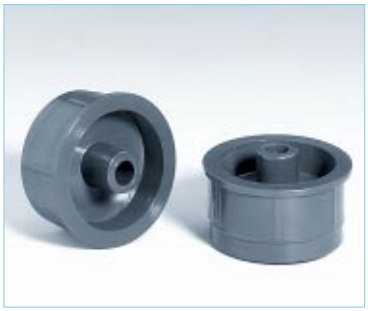
4.1. DRIVE BELT Ø 5/107 mm (0722)
Inner diameter: 107 mm
Material: PUR (natural color)
Picture No 9-901

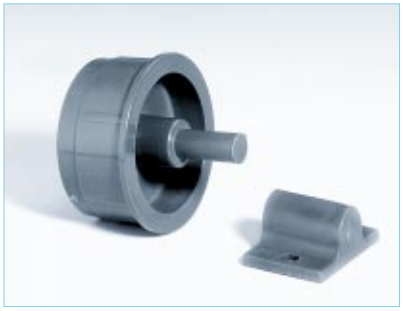


4.2. ACCUMULATION ROLLER (0721)
Suitable for a ø 25 mm's power axle.
Material: POM (natural color)
Picture No 9-903

5. TUBE ROLLERS

5.1. HEAD PIECE WITH HOLES (0070)
Suitable for a ø 50x2,0 mm's tube and ø 8 mm's axle.
Material: PA (dark grey)
Picture No 9-904





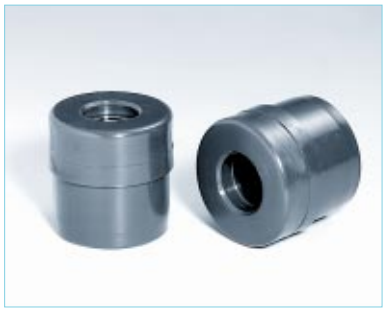
5.2. AXLE HEAD (0069)
Suitable for a ø 50x2,0 mm's tube.
Material: PA (dark grey)
Picture No 9-905

5.3. AXLE HOLDER (0065)
to be used with item 5.2
Material: PA (dark grey)
Picture No 9-906

5. TUBE ROLLERS

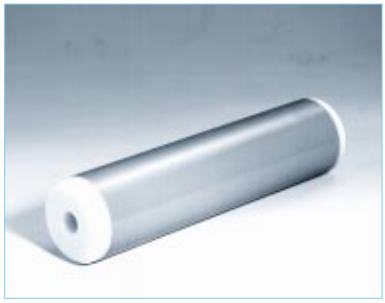
5.4. BEARING HEAD (0719)

Suitable for a ø 50x2,0 mm's tube and ø 8 mm's axle.
(Does not contain a ball bearing
–- Bearing to fit this head is item no 608zz). Material: PA (dark grey)
Picture No 9-907



5.5. DRIVEN BEARING HEAD (0720)

Suitable for a ø 50x2,0 mm's tube and ø 8 mm's axle.
Equipped with one drive belt channel.
(Does not contain a ball bearing – Bearing to fit this head is item no
608zz). Material: PA (dark grey)
Picture No 9-908



5.6. TUBE ROLLER FOR USE UNDER WET CONDITIONS (0072)

Material: PVC-tube ø 50x3.2 mm (light grey), head pieces PA (natural color)
Picture No 9-909

5.6.1. HEAD PIECE FOR A TUBE ROLLER FOR USE UNDER WET CONDITIONS (0071)

Material: PA (natural color)
Picture No 9-910

5.6.2. BEARING PIN M8 (0328)

Used as an axle with the above mentioned tube roller (5.6) for use under wet conditions. Material: POM (natural color)
Picture No 9-911

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Technical drawings

PART 1 - MTR 50 mm Product

Product	Picture No
MTR 50 simplex roller	1-101
MTR 50 duplex roller	1-102
MTR 50 channel frame L=52 mm	1-103
MTR 50 channel rail L=1000 mm	1-104
MTR 50 duplex roller + channel rail L=52 mm	1-105
MTR 50 channel rail with duplex rollers L=1000 mm	1-106
MTR 50 channel rail with rollers in alternating turn, spacing 100 mm L=1000 mm	1-107
MTR 50 channel rail with rollers in alternating turn, spacing 50 mm L=1000 mm	1-108
MTR 50 duplex roller with drive	1-109

PART 2 - MTR 60 mm

Product	Picture No
MTR 60 simplex roller	2-201
MTR 60 duplex roller	2-202
MTR 60 channel frame L=62 mm	2-203
MTR 60 channel rail L=1000 mm	2-204
MTR 60 duplex roller + channel frame L=62 mm	2-205
MTR 60 channel rail with duplex rollers L=1000 mm	2-206
MTR 60 channel rail with rollers in alternating turn, spacing 100 mm L=1000 mm	2-207
MTR 60 channel rail with rollers in alternating turn, spacing 50 mm L=1000 mm	2-208
MTR 60 duplex roller with drive	2-209

PART 3 - MTR 80 mm Product

Product	Picture No
MTR 80 simplex roller	3-301
MTR 80 duplex roller	3-302
MTR 80 channel frame L=82 mm	3-303
MTR 80 channel rail L=1000 mm	3-304
MTR 80 duplex roller + channel frame L=82 mm	3-305
MTR 80 channel rail with duplex rollers	3-306
MTR 80 channel rail with rollers in alternating turn, spacing 100 mm L=1000 mm	3-307
MTR 80 channel rail with rollers in alternating turn, spacing 50 mm L=1000 mm	3-308

Technical drawings

PART 4 - MTR OTHER PARTS

PART 5 - MTR - TABLE

PART 6 - MTR 120 mm

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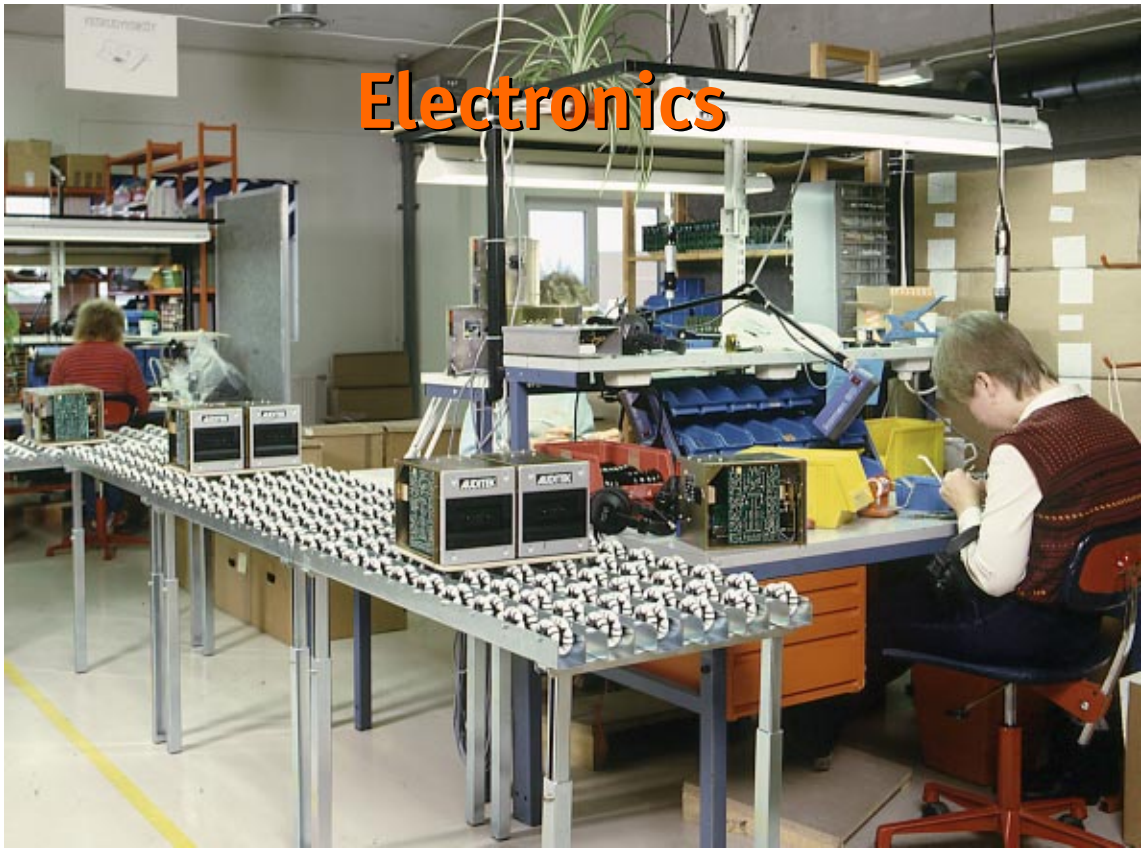

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Packaging industry

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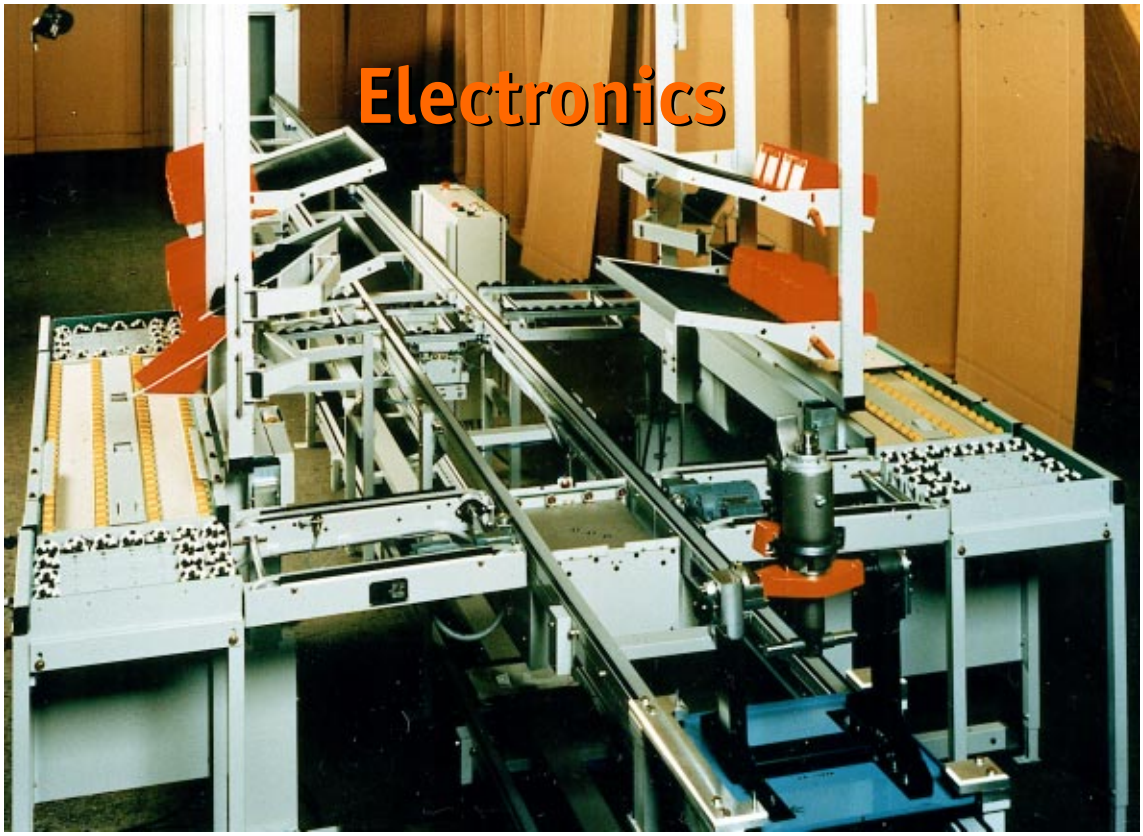

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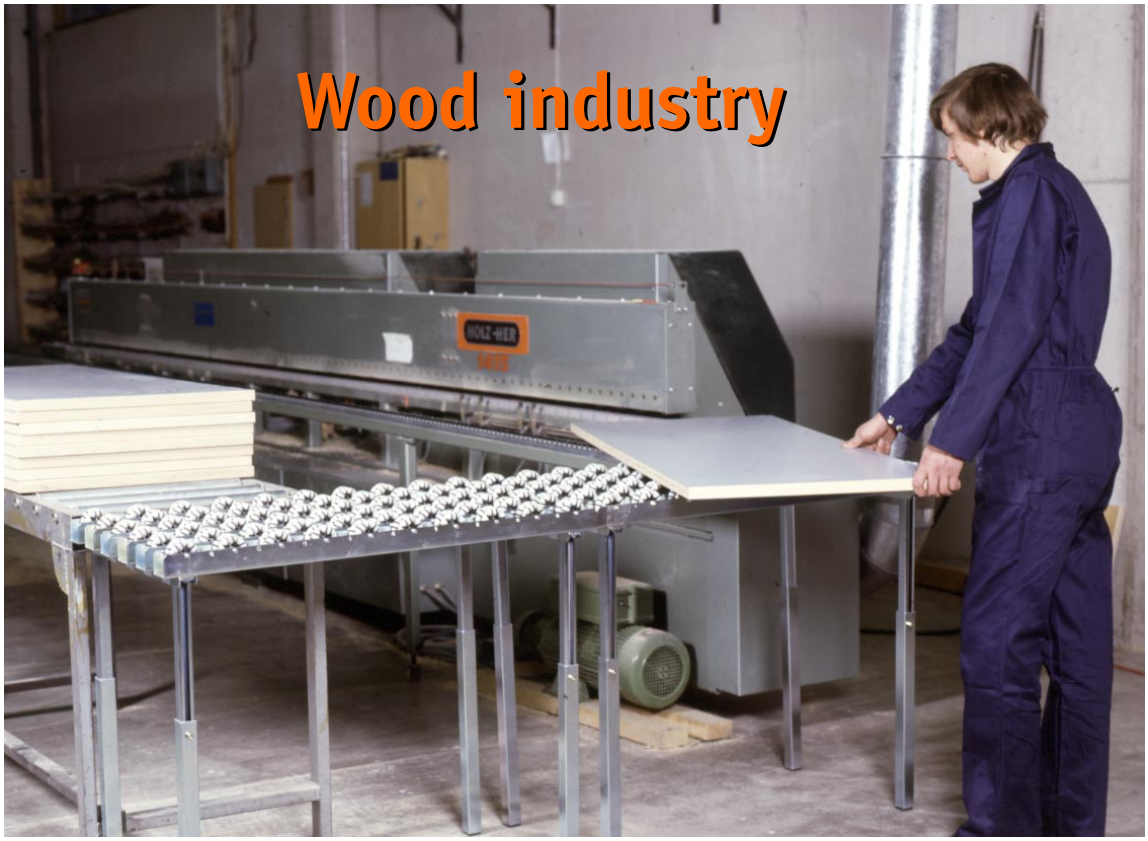

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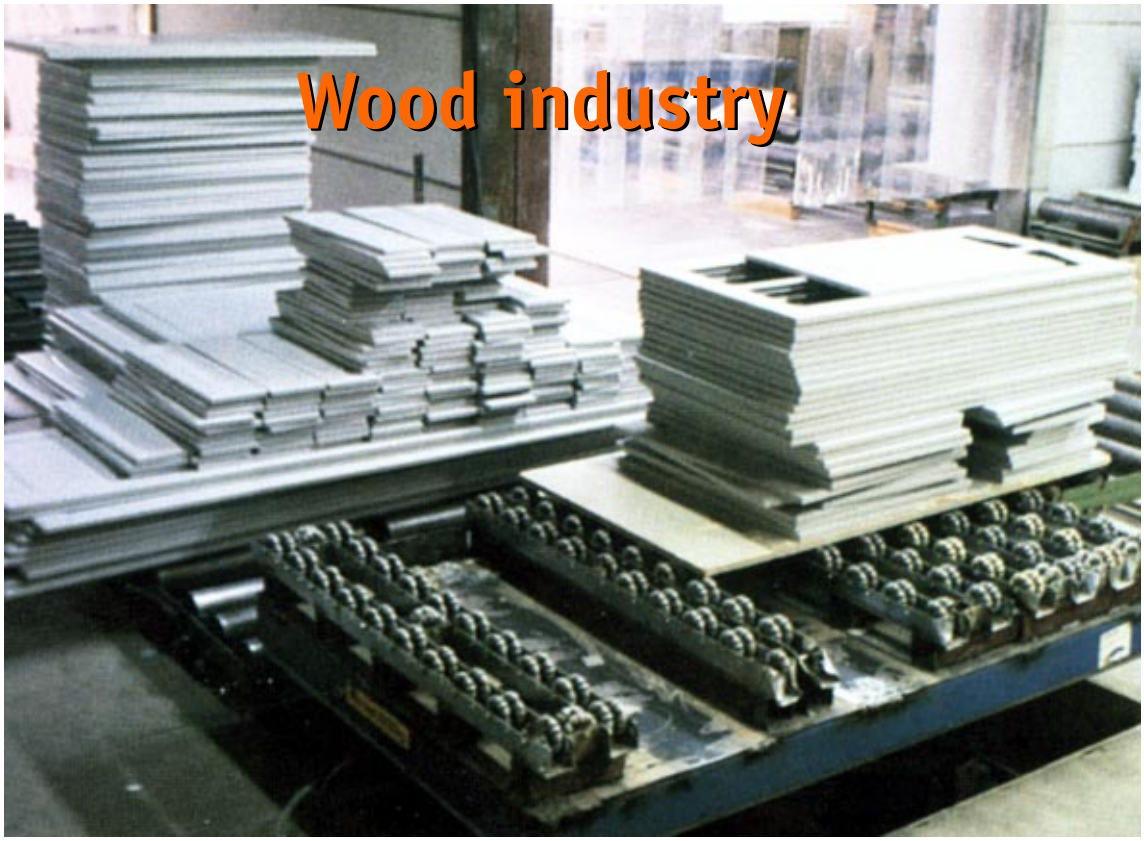

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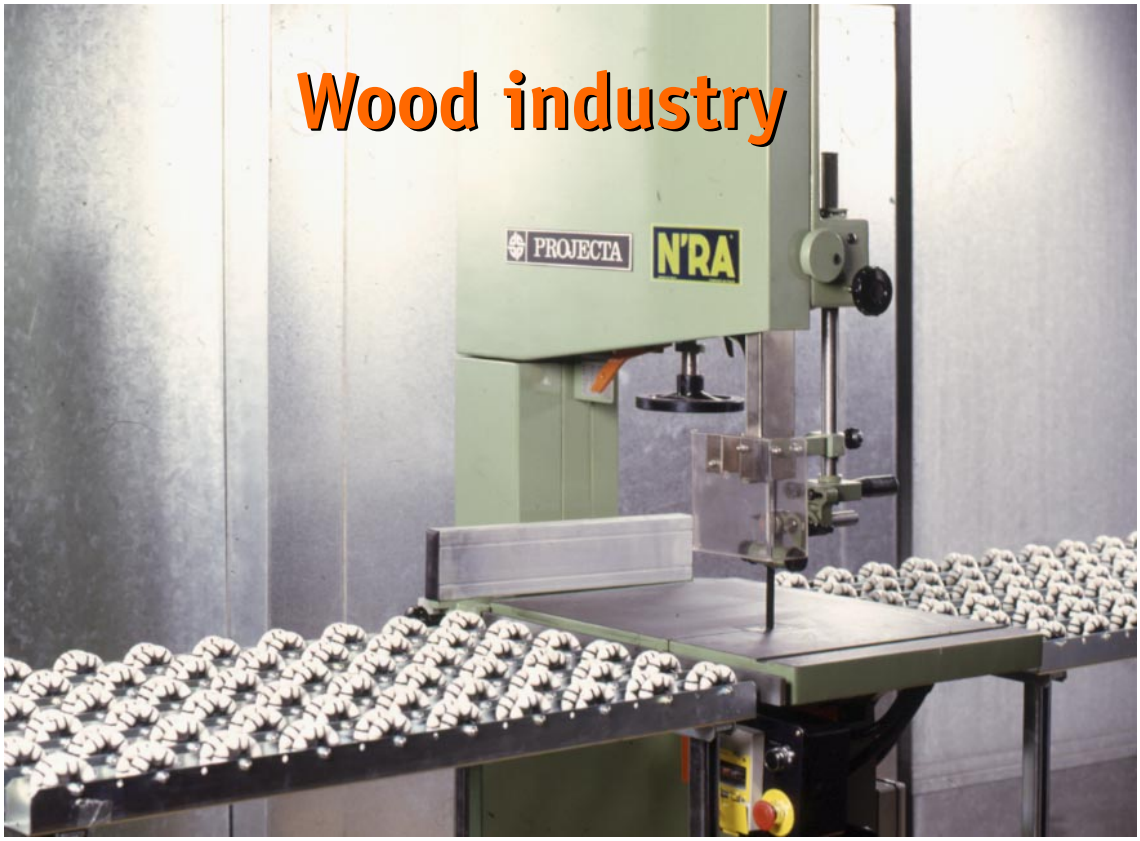

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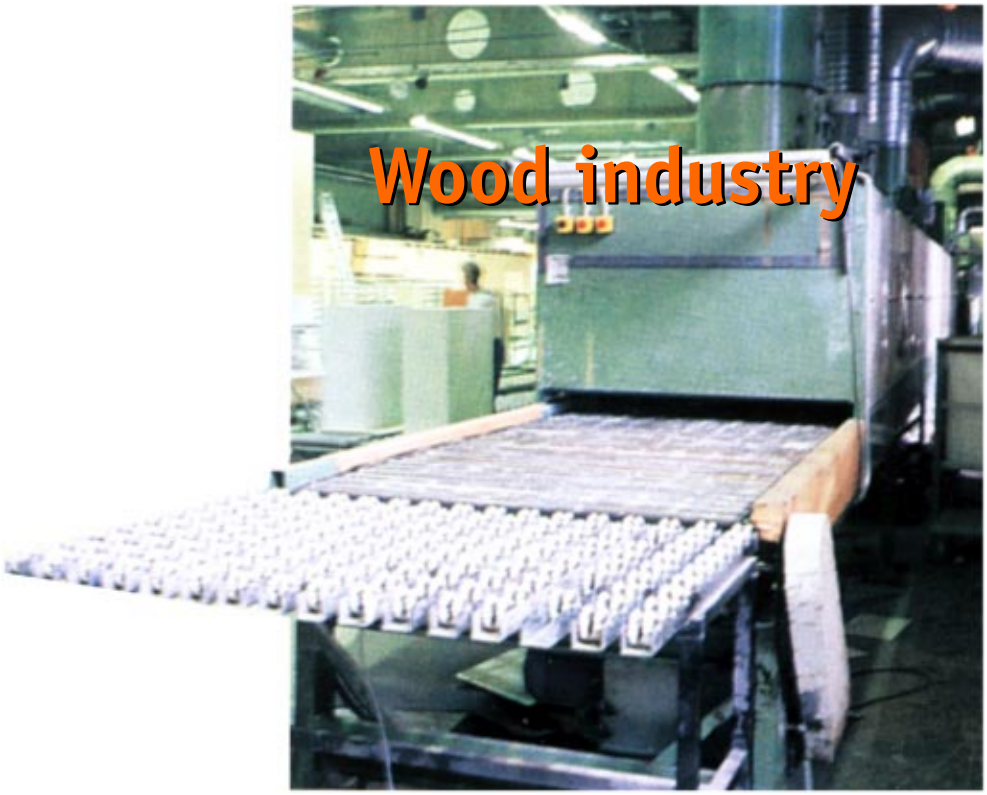

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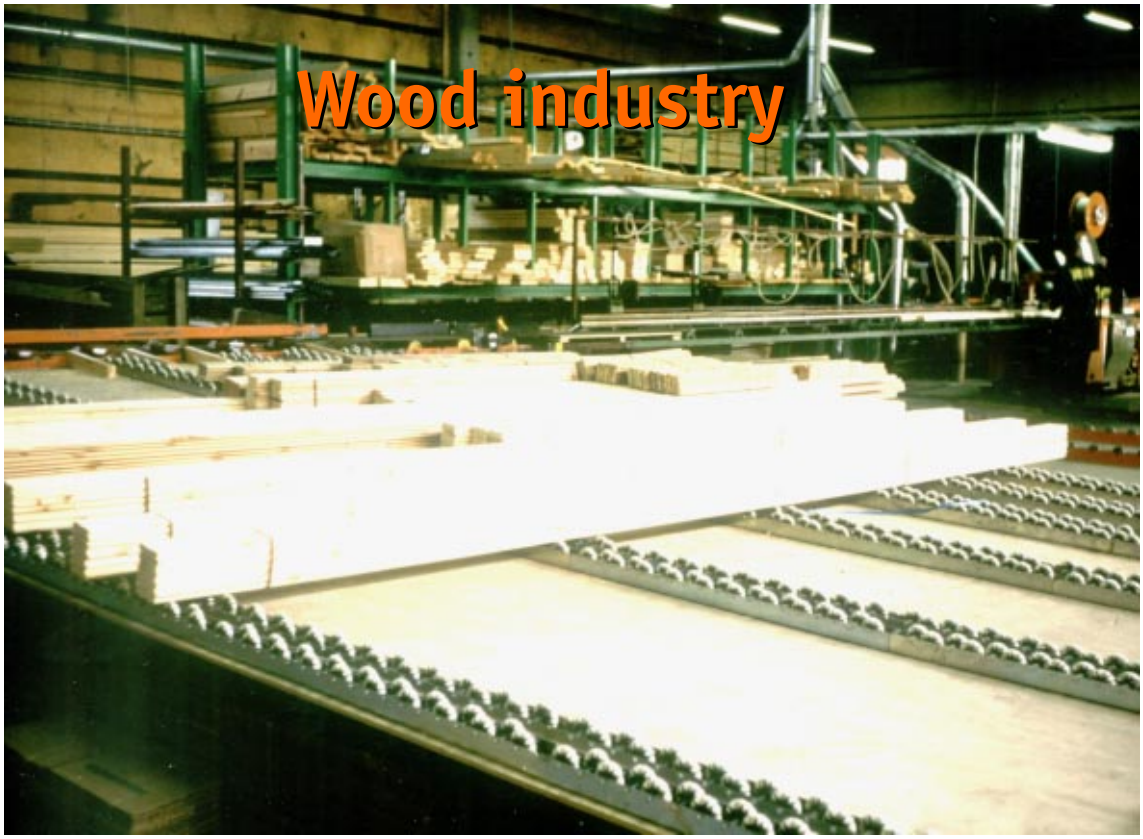
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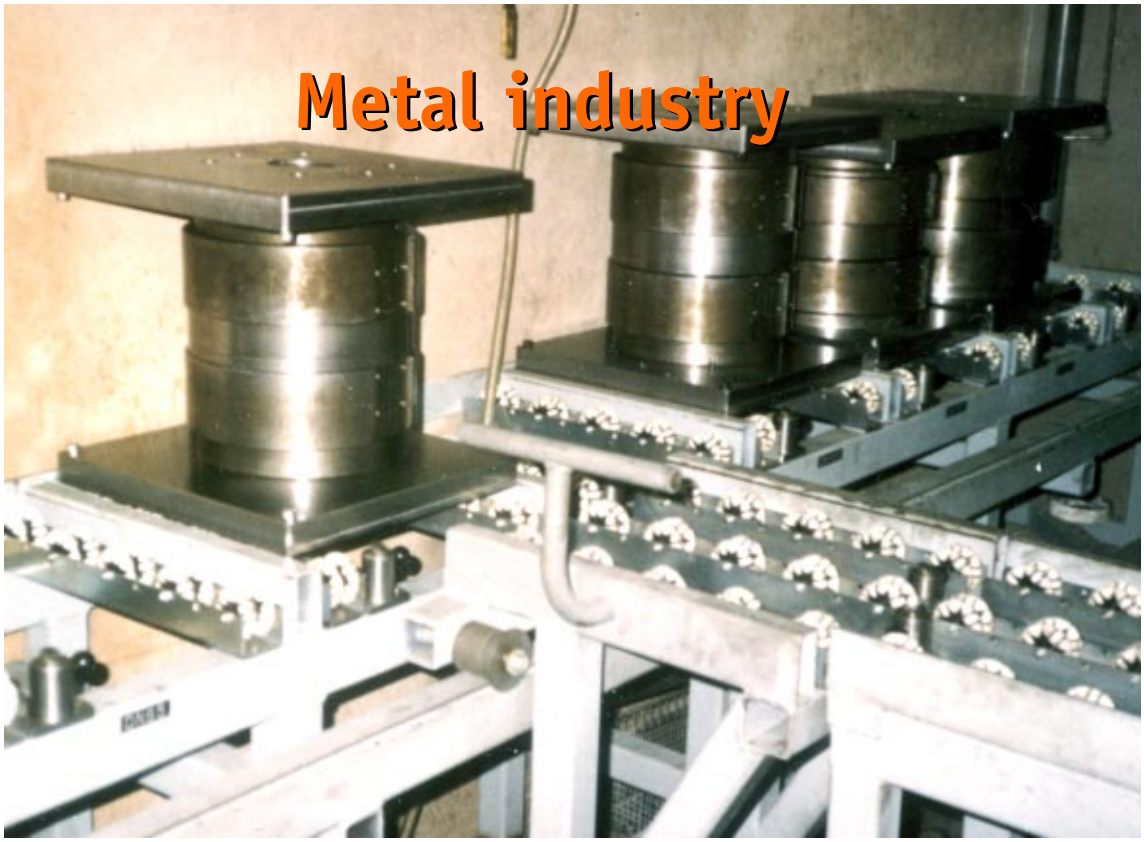

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