



## RUBBER BELT CURVES

Rubber belt corners are used to convey both packed and unpacked products along curved paths. Flexibility, robust construction and low maintenance are at the basis of LM belt bends success and wide utilisation in many industries and applications.



### General features of LM belt curves:

- very compact dimensions in relation with the width of the belt (the radius of the curve does not depend on the width)
- high linear speed
- position and orientation of products conveyed are perfectly controlled and are not altered, because there is no relative movement between belt and product (up to the point that in most of the applications product side guides are not necessary).

Depending on the application and on the characteristics of the product to be handled, LM can offer 2 different types of rubber belt curves: belt curves with cylindrical end rollers and belt curves with conical end rollers

## CYLINDRICAL END ROLLERS CURVES

### Applications:

Cylindrical end rollers curves are used along packaging end process lines in the following industries:

- food
- beverage
- chemical industry
- pharmaceutical industry
- health care industry

### Products typically conveyed:

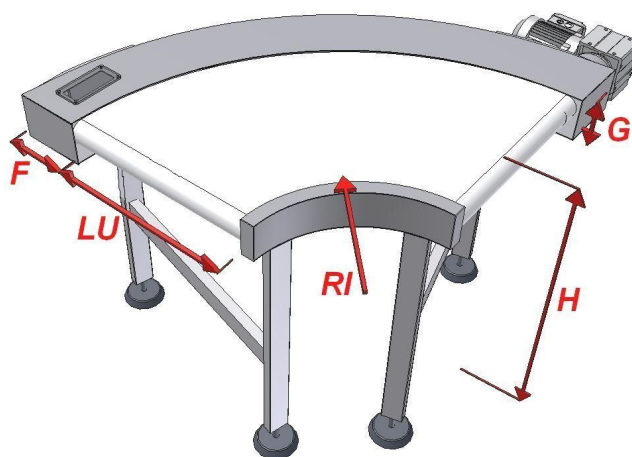
- unpacked products (snack food, chocolate products, backer products, frozen food)
- thermoformed trays
- open trays (carton, plastic, polyester)
- flexible packages by horizontal and vertical packaging machines
- shrink packs
- any kind of small and unstable product



# CYLINDRICAL END ROLLERS CURVES

Product maximum weight (kg/m)	60
Maximum speed (m/min):	120
Noise level at 80 m/min (dB):	80
Curve angles:	15° to 200°
Edge rollers diameter (mm):	60, 16, 14, 9
Useful width Lu (mm):	200 to 2000 *
Internal radius Ri (mm):	200 to 2000 *
Height H (mm):	300 to 1500
Side casing height F (mm):	170
Side casing width G (mm):	200

\* 100mm increments for both Ri and Lu  
 \* Ri + Lu must be no t lower than 600mm



## Construction:

- Standard: mild painted carbon steel
- Stainless steel: stainless steel body
- Wash-down: 95% of the machine in stainless steel, remaining parts with niploy process treatment, clean design

## Typical features:

- The belt is pulled by means of a flexible chain with narrow pitch bearings running all around the external radius and special holders which distribute the load all around the belt, this allows:
  - Very smooth and precise movement also when belt is very wide, speed or accelerations are high, product is heavy
  - Low noise operation
  - Long maintenance intervals and easy maintenance
- Indirect drive (chain or tooth belt) by AC gear motor or servo motor positioned under the curve



## Special versions:

- Motor positioned on the side or over the conveyor
- Helix construction with difference in level between in-feed and out-feed
- Automatic chain tensioner for bidirectional operation
- Cantilevered frame execution for fast belt replacement (only for widths lower than 600mm)
- Predisposition for hanging from ceiling

**L.M. S.p.A.**  
 V.le delle Nazioni, 95  
 41100 Modena - ITALY  
 Tel. +39 059 3164411  
 Fax +39 059 3164404  
 E-Mail: info@lmgroup.it  
 www.lmgroup.it