

CONVEYOR ROLLER IDENTIFICATION GUIDE

Series identification (1100-3900), duty class classification, and shaft type reference for conveyor rollers.

1. Roller Series Overview

SERIES	DUTY CLASS	TUBE DIA. RANGE	TYPICAL APPLICATION
1100	Light	20 – 30mm	Small packages, food, light goods
1200	Light	20 – 40mm	Standard light conveyor
1300	Light-Medium	30 – 50mm	Small to medium packages
1400	Medium	30 – 60mm	General conveyor, distribution
1450	Heavy	50 – 80mm	Heavy packages, pallets
1500	Medium	40 – 60mm	Standard gravity conveyor
1600	Medium-Heavy	50 – 80mm	Medium pallet, bulk handling
1700	Heavy	60 – 90mm	Heavy pallet, manufacturing
1800	Heavy	60 – 100mm	Heavy-duty conveyor
1900	Medium	40 – 60mm	Food, sanitary, washdown
1940	Heavy	60 – 90mm	Heavy food/sanitary
1960	Heavy	80 – 120mm	Extreme heavy duty
3900	Heavy	89mm standard	Heavy pallet, accumulation

2. Duty Classification

Light Duty	Series 1100, 1200, 1300 – loads up to 20kg per roller
Medium Duty	Series 1400, 1500, 1600, 1900 – loads up to 80kg per roller
Heavy Duty	Series 1450, 1700, 1800, 1940, 1960, 3900 – loads 80kg+ per roller

3. Shaft Type Identification

SHAFT TYPE	CODE	DESCRIPTION	IDENTIFICATION
Spring	SP	Spring-loaded shaft, push-in install	Compresses for installation into frame
Hex	HX	Hexagonal shaft, fixed position	6-sided shaft, drops into hex frame holes
Threaded	TD	Threaded ends with nuts	External threads on both shaft ends
Female threaded	FT	Internal threads for mounting	Threaded bore in shaft end
Flat	FL	Flat machined surface	One or two flats on shaft for set screw

4. Key Measurement Parameters

Roller Length (RL)	Tube length only (excluding shaft extensions)
Between Frame (BF)	Inside distance between conveyor frame rails
Overall Width (B)	Total width including shaft extensions
Tube Diameter (D)	Outer diameter of the roller tube
Shaft Diameter	Diameter of the shaft (may differ from tube)
Actual Gauge Length (AGL)	BF + protrusion offset (varies by shaft type)

5. Measurement Procedure

1. Measure tube diameter (D) with calipers
2. Measure roller tube length (RL) — tube only, not including shafts
3. Measure between frame (BF) — inside distance between rails
4. Measure overall width (B) — from shaft tip to shaft tip
5. Identify shaft type (spring, hex, threaded, female threaded, flat)
6. Measure shaft diameter
7. Check for features: flanges, lagging, sprocket, polyurethane sleeve
8. Document all measurements and take photos

6. Special Features Identification

FEATURE	IDENTIFICATION	APPLICATION
Flanges	Raised edge on tube ends	Prevents product drift off roller
Lagging	Rubber/polymer coating on tube	Increases friction, grip product
PU Sleeve	Removable polyurethane sleeve	Product protection, noise reduction
Antistatic	Conductive strip or coating	Dissipates static charge
Sprocket	Toothed sprocket mounted on tube	Chain-driven roller conveyor
Grooved	Ring groove on tube	For O-ring drive belts
Soft tube	Compressible tube material	Noise reduction, fragile products

PART NUMBER DECODING

Roller part numbers typically encode: Series + Tube Dia + RL + Shaft Type + BF + Special Features.
Example: 1700-50-500-SP-420-FL = Series 1700, 50mm tube, 500mm roller length, spring shaft, 420mm BF, flanged.



NEED ROLLER IDENTIFICATION?

Provide measurements and a photo — Uniking Canada will match your roller specification.

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