REFERENCE CARD

KBR Roller Codes

Issue 1 – November 2026

Every KBR roller can be described with one code: range, tube, length and shaft end. The same codes are used on our website, order forms, shop SKUs and works sheets, so customers, the office and the works all read the roller the same way.

HOW A ROLLER CODE IS BUILT				
KBR	**Range**	**Tube Ø + material**	**Length (OB, mm)**	**Shaft end + size**
KBR	MD	50Z	600	SL8
	Medium Duty	50mm zinc plated	600mm over bearing	Spring loaded 8mm

Example: KBR-MD-50Z-600-SL8. Lengths are over bearing (OB) unless marked BF (between frames) or OAL (overall length).

SHAFT END CODES				
Code	**Fitment**	**How it fixes**	**Size format**	**Example**
SL	Spring loaded – round shaft	Shaft pushes in to drop the roller into round holes in the frame	Shaft Ø	SL8
SH	Spring loaded – hex shaft	Hex shaft pushes in to drop into hex holes, so it cannot turn	Hex A/F	SH11
FT	Female drilled and tapped	Fixed shaft, bolted through the frame into each shaft end	Shaft Ø – thread x depth	FT12-M8x20
MT	Male thread	Threaded shaft ends pass through the frame, held with nuts	Shaft Ø – thread x thread length	MT12-M10x25
HX	Fixed hex shaft	Plain hex shaft sits in hex holes or slots, not sprung	Hex A/F x OAL	HX11
FL	Machined flats	Round shaft with flats that drop into slots in the frame	Shaft Ø – A/F x flat length	FL12-10x15
PL	Plain round shaft	Plain round shaft, fixed or loose, no machining	Shaft Ø x OAL	PL15
CD	Cross drilled	Hole through the shaft for a pin or bolt – add to any code	Hole Ø @ distance from end	CD6@8
ME	Machined end	Shaft end turned down to a smaller diameter	End Ø x length	ME10x15
HB	Hollow bore	No shaft – bearings bored to go on your own bar	Bore Ø	HB12

CD (cross drilled) and ME (machined end) are added after the main code, e.g. PL15-CD6@8.

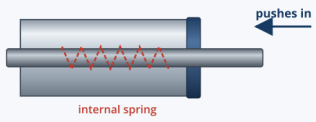
TUBE MATERIAL AND RANGE CODES			
Code	**Tube material**	**Code**	**Roller range**
Z	Zinc plated (BZP) mild steel	**KBR-LD**	Light Duty
G	Galvanised mild steel	**KBR-MD**	Medium Duty Steel
M	Mild steel, self colour	**KBR-PB**	Plastic Housed Ball Bearing
S	304 stainless steel	**KBR-LB**	Labyrinth Precision
P	PVC	**KBR-HD**	Heavy Duty
		KBR-IM	Imperial
		KBR-DR	Driven

SHAFT END FITMENTS

Conveyor roller shaft end fitments – KBR codes

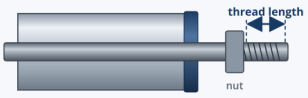
Check how the shaft fixes into your frame, then give us the code and size, e.g. SL8, FT12-M8x20

SL / SH Spring loaded



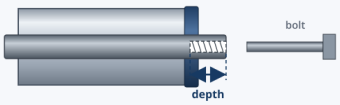
Tell us: Shaft Ø (SL) or hex A/F (SH)

MT Male thread



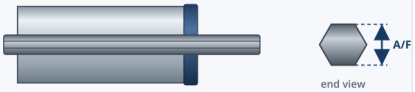
Tell us: Thread size (e.g. M8) and thread length

FT Female drilled and tapped



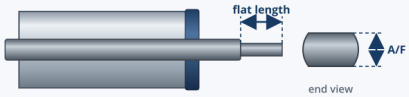
Tell us: Thread size and depth (e.g. M10 x 20)

HX Hex shaft



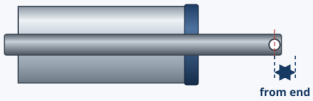
Tell us: Across flats (A/F), e.g. 8mm or 11mm hex

FL Machined flats



Tell us: Size across flats (A/F) and flat length

CD Cross drilled



Tell us: Hole Ø and distance from shaft end

EXAMPLE CODES	
Code	**Meaning**
KBR-MD-50Z-600-SL8	Medium duty, 50mm zinc plated tube, 600mm OB, spring loaded 8mm shaft
KBR-LB-50S-450-SH11	Labyrinth precision, 50mm stainless tube, 450mm OB, spring loaded 11mm hex
KBR-HD-63.5G-800-FT15-M10x20	Heavy duty, 63.5mm galvanised tube, 800mm OB, 15mm shaft drilled and tapped M10 x 20 deep
KBR-MD-60Z-750-MT12-M10x25	Medium duty, 60mm zinc plated tube, 750mm OB, 12mm shaft with M10 x 25 male threads

FRAME CLEARANCE – SETTING THE ROLLER LENGTH	
Shaft end	**Rule**
Spring loaded (SL, SH)	Roller OB = between frames (BF) minus 2–4mm: about 1–2mm gap each side. Keep each gap under 3mm, and no more than 5mm in total, or the shaft may not hold in the frame. The shaft springs out into the frame holes.
Female drilled and tapped (FT)	Shaft cut to the exact between-frames width, so the frame clamps the shaft when bolted. Tube OB about 2–4mm shorter than BF so it turns freely.
Male thread (MT)	Shaft passes through the frame. Tell us the frame thickness; we allow for nuts and washers. Tube OB about 2–4mm shorter than BF.
Fixed hex, flats, plain (HX, FL, PL)	Tell us the overall shaft length (OAL) and the frame hole or slot size. Tube OB about 2–4mm shorter than BF.

Clearances are a guide. The right gap can depend on the roller position and frame – if in doubt, check with the office before cutting.

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