

Conveyor Idler Dimensions by Belt Width

Standard three-roll troughing sets · all dimensions in millimetres unless stated · issued 2026-10

Belt width	Roll Ø	L	M	m	h	n	b	H 20°	H 30°	H 45°	W 20°	W 30°	W 45°	Z	Angle	Weight
400	89.1	145	690	640	125	200	110	225	235	275	470	435	365	M12	L50xT6	5.9
450	89.1	165	740	690	125	200	110	230	245	290	525	490	415	M12	L50xT6	6.2
500	89.1	180	790	740	125	200	110	235	250	300	570	535	450	M12	L50xT6	6.5
600	89.1	210	890	840	140	200	110	260	280	340	660	615	530	M12	L65xT6	8.7
750	114.3	265	1090	1040	150	220	220	320	325	395	810	750	645	M12	L75xT6	11.4
900	114.3	315	1240	1190	150	220	220	320	345	430	950	890	765	M12	L75xT6	12.6
1050	139.8	370	1390	1340	180	180	240	385	411	515	1140	1055	910	M16	L90xT7	20.6
1200	139.8	420	1540	1490	180	180	240	400	435	550	1280	1195	1030	M16	L90xT7	22.3
1400	165.2	500	1790	1730	250	280	340	510	550	690	1515	1435	1235	M16	L100xT10	44.1
1600	165.2	580	1990	1930	250	280	340	540	585	750	1745	1650	1430	M16	L100xT10	49.9
1800	165.2	650	2280	2220	280	330	390	590	645	830	1950	1825	1605	M16	L130xT12	63.3
2000	165.2	730	2480	2420	280	330	390	620	680	885	2180	2040	1800	M16	L130xT12	67.6
2200	165.2	800	2680	2620	300	330	390	665	730	955	2380	2235	1970	M20	L130xT12	93.5
2400	165.2	880	2880	2820	300	330	390	690	760	1015	2615	2450	2160	M20	L130xT12	100.8

L roll length · M frame overall width · m distance between side brackets · h / n / b mounting dimensions · H troughing set height · W troughing set width · Z bolt size · Angle frame steel section · Weight kg per set.

Trough angles shown: 20°, 30° and 45°. 35° and other non-standard angles are built to your drawing — send it with the enquiry.

What to send with your enquiry

- Belt width, trough angle and belt speed
- Roll diameter and roll length, or one worn roller sent to us
- Bearing class required: CEMA B / C / D / E, or GB/T only
- Shell wall thickness in mm
- Duty: dust, moisture, wash-down, temperature
- Quantities split between carrying, return and impact idlers
- Destination port and target delivery window

How we quote from it

We quote against the standard you name — CEMA, DIN, ISO, GB/T or your own specification — not against a catalogue size we happen to stock.

Send one worn roller or a drawing and we measure it, then quote to that. Most of our orders are built to a drawing rather than selected from a list.

Non-standard angles, roll diameters and shaft ends are built to drawing; we confirm the acceptance criteria in writing before production starts.

Not in this table?

This table covers standard three-roll troughing sets. Rolls are also built outside it — roll diameter 50 to 219 mm, roll length 190 to 3400 mm — and most of what we ship is made to a customer drawing rather than picked from a list. Send the drawing, a photo of a worn roller, or the OEM part number.

DWG and STEP files for any size in this table are available on request: manger@chengroll.com