

ENDLESS POSSIBILITIES

Our OT, NT, T Series rollers can withstand high static loading over long periods of time, often carrying the full load weight for years with no adverse effects. Because loads are spread over a wide area and carried by the load plate and the contact rolls, rollers are ideal for many applications requiring the frequent movement of heavy loads.

OT, NT, T



OT, NT, T Rollers are fabricated from high strength steel. Load plates of 37.5-ton and higher capacities undergo a special machine process to minimize side-to-side movement of chain. The rollers can also be used inverted, as static conveyors.

SHD



Super Heavy Duty Rollers are the highest capacity rollers that Hilman offers as standard models. 150 & 200 Ton frames come in Long (L) or Wide (W). Wide frame versions are offered with one complete (wide) chain or with two individual chains with a center plate (C) dividing them.

LOW COEFFICIENT OF FRICTION

The combination of a hard steel load plate with a chain of concentrically grouped, hardened steel rolls provides optimal low-friction performance under ideal conditions. These ideal conditions include an evenly centered load on the rollers and a hardened steel rolling surface that is smooth, level, and free of debris. Under such conditions, our rollers have been tested and demonstrate a coefficient of friction between 1% and 2%.



SUPERIOR WEIGHT DISTRIBUTION

This roller design creates an even load bearing area or footprint. The wide footprint spans gaps in running plates and small cracks in a floor surface, allowing for an uninterrupted move. Due to the multi-rolled concept, if a roll should break, the load won't fall because there are other contact rolls on the chain to compensate.



ROLLERS ADVANTAGES

These rollers come in a variety of capacities, frame and top styles. They can easily be modified for any application.



OVERSIZED TOP (OT) overhang side to side

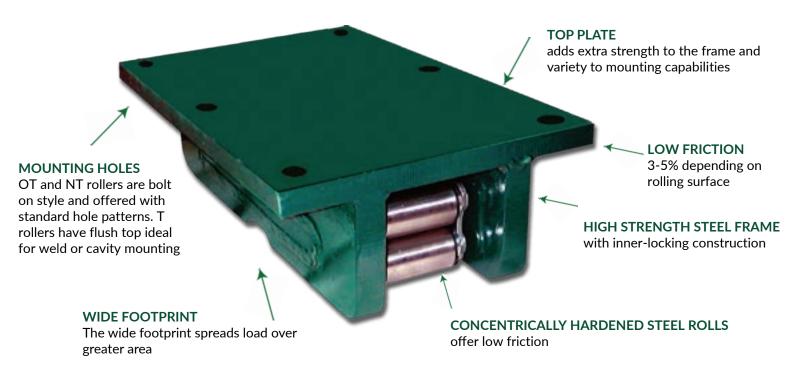


NARROW TOP (NT) overhang front to back



FLUSH TOP (T) add extra strength to the frame and offer a variety of mounting capabilities

TOP STYLES



EASILY MODIFIED

endless number of custom configurations



OT, NT, T

The OT, NT, T Rollers are fabricated from high strength steel. Load plates of 37.5-ton and higher capacities undergo a special machine process to minimize side-to-side movement of chain. The rollers can also be used inverted, as static conveyors.

OT



NT



T



		<<< <bod< th=""><th>ly Dimension</th><th>ns>>>>></th><th><<<top< th=""><th>Plate Dimer</th><th>nsions>>></th><th>_</th><th colspan="3"><<<<<footprint>>>>>></footprint></th></top<></th></bod<>	ly Dimension	ns>>>>>	<< <top< th=""><th>Plate Dimer</th><th>nsions>>></th><th>_</th><th colspan="3"><<<<<footprint>>>>>></footprint></th></top<>	Plate Dimer	nsions>>>	_	<<<< <footprint>>>>>></footprint>		
Hilman Part #	Hilman Part Capacity # (tons)		Height Inches (mm	Width Thickness Width) >>>>>			Length Contact Rolls		Roll Diameter Roll Width		Weight lb (kg)
1-OT	1	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	6.0 (152)	6.0 (152)	6	11/16 (17)	2 (51)	11 (5)
5-OT	5	8.0 (203)	3.125 (79)	4.4375 (113)	.375 (10)	8.0 (203)	8.0 (203)	5	15/16 (24)	2-7/16 (62)	22 (10)
8-OT	8	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	8.0 (203)	8.0 (203)	5	15/16 (24)	3-5/16 (84)	24 (11)
15-OT	15	10.625 (270)	3.875 (98)	5.1875 (132)	.625 (16)	10.0 (254)	10.625 (270)	5	1-3/16 (30)	2-3/4 (70)	47 (21)
20-OT	20	10.625 (270)	3.875 (98)	6.4375 (164)	.625 (16)	10.0 (254)	10.625 (270)	5	1-3/16 (30)	4 (102)	54 (24)
37.5-OT	37.5	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	15.0 (381)	6	1-5/8 (41)	3-1/2 (89)	119 (54)
50-OT	50	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	18.5 (470)	7	1-5/8 (41)	3-1/2 (89)	153 (69)
75-OT	75	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	14.0 (356)	21.0 (533)	7	1-15/16 (49)	3-5/8 (92)	235 (107)

Height includes Top Plate Thickness

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Hilman Part #	Capacity (tons)	Length	Height	Width	Thickness	Width	Length	Contact Rolls	Roll Diameter	Roll Width	Weight lb (kg)
"	(10113)	<<<<<	Inches (mm)>>>>>	<<<<<	Inches (mm)>>>>>	Rons	<<<<< Inches (mm) >>>>>		11.6/
1-NT	1	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	3.5 (89)	8.0 (203)	6	11/16 (17)	2 (51)	10 (5)
5-NT	5	8.0 (203)	3.125 (79)	4.4375 (113)	.375 (10)	4.5 (114)	11.75 (298)	5	15/16 (24)	2-7/16 (62)	20 (9)
8-NT	8	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	11.75 (298)	5	15/16 (24)	3-5/16 (84)	24 (11)
15-NT	15	10.625 (270)	3.875 (98)	5.1875 (132)	.625 (16)	5.0 (127)	14.75 (375)	5	1-3/16 (30)	2-3/4 (70)	41 (19)
20-NT	20	10.625 (270)	3.875 (98)	6.4375 (164)	.625 (16)	6.5 (165)	14.75 (375)	5	1-3/16 (30)	4 (102)	52 (24)
37.5-NT	37.5	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	21.0 (533)	6	1-5/8 (41)	3-1/2 (89)	112 (51)
50-NT	50	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	22.5 (572)	7	1-5/8 (41)	3-1/2 (89)	140 (64)
75-NT	75	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	27.0 (686)	7	1-15/16 (49)	3-5/8 (92)	210 (95)

Height includes Top Plate Thickness

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Hilman Part #			Length Height Width		Thickness Width Length			Contact Rolls	Roll Diameter	Roll Width	Weight lb (kg)
1-T	1	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	3.5 (89)	6.0 (152)	6	11/16 (17)	2 (51)	9 (4)
5-T	5	8.0 (203)	3.125 (79)	4.4375 (113)	.375 (10)	4.5 (114)	8.0 (203)	5	15/16 (24)	2-7/16 (62)	19 (9)
8-T	8	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	8.0 (203)	5	15/16 (24)	3-5/16 (84)	22 (10)
15-T	15	10.625 (270)	3.875 (98)	5.1875 (132)	.625 (16)	5.0 (127)	10.625 (270)	5	1-3/16 (30)	2-3/4 (70)	38 (17)
20-T	20	10.625 (270)	3.875 (98)	6.4375 (164)	.625 (16)	6.5 (165)	10.625 (270)	5	1-3/16 (30)	4 (102)	47 (21)
37.5-T	37.5	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	15.0 (381)	6	1-5/8 (41)	3-1/2 (89)	103 (47)
50-T	50	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	18.5 (470)	7	1-5/8 (41)	3-1/2 (89)	134 (61)
75-T	75	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	21.0 (533)	7	1-15/16 (49)	3-5/8 (92)	198 (90)

Height includes Top Plate Thickness



The Super Heavy Duty Rollers are the highest capacity rollers that Hilman offers as standard models. 150 & 200 Ton frames come in Long (L) or Wide (W). Wide frame versions are offered with one complete (wide) chain or with two individual chains with a center plate (C) dividing them.

XOT, XOTL, XNT, XNTL, XOTW, XOTWC XNTW, XNTWC XNT, XNTL,

XT, XTL, XTW, XTWC







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Hilman Part#	Capacity (tons)	Length	Height	Width	Thickness	Width	Length	Contact Rolls	Roll Diameter	Roll Width	Weight lb (kg)
	(10113)	<<<<<	< Inches (mi	n) >>>>>	<<<<<	Inches (mm	1) >>>>>	Kolis	<<<<< Inches (mm) >>>>>		(1.8/
100-XOT	100	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	21.0 (533)	7	1-15/16 (49)	3-5/8 (92)	250 (113)
150-XOTL	150	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	32.0 (813)	11	1-15/16 (49)	3-5/8 (92)	381 (172)
150-XOTW	150	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	16.0 (406)	21.0 (533)	14	1-15/16 (49)	2-3/4 (70)	299 (136)
200-XOTL	200	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	36.0 (914)	14	1-15/16 (49)	3-5/8 (92)	443 (201)
200-XOTW	200	21.0 (533)	6.75 (171)	11.5625 (294)	1.00 (25)	21.0 (533)	21.0 (533)	14	1-15/16 (49)	3-5/8 (92)	364 (165)
200-XOTWC	200	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	21.0 (533)	21.0 (533)	14	1-15/16 (49)	3-5/8 (92)	423 (192)
300-XOT	300	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	21.0 (533)	34.0 (864)	8	2-15/16 (74)	5 (127)	849 (385)
500-XOT	500	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	30.0 (762)	34.0 (864)	16	2-15/16 (74)	5 (127)	1430 (649)
750-XOT	750	34.0 (864)	10.0 (254)	27.5 (699)	1.50 (38)	37.5 (953)	34.0 (864)	24	2-15/16 (74)	5 (127)	2044 (927)
1000-XOT	1000			******CC	NSULT FA	CTORY FOR	SPECIFICA	TIONS AN	ID WEIGHT****	**	,

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Hilman Part#	Capacity (tons)	Length	Height	Width	Thickness	Width	Length	Contact Rolls	Roll Diameter	Roll Width	Weight lb (kg)
	(10113)	<<<<<	< Inches (mi	n) >>>>>	<<<<	<<< Inches (mm)	>>>>>	Rolls	<<<<< Inches (mm) >>>>>		(1.8/
100-XNT	100	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	27.0 (686)	7	1-15/16 (49)	3-5/8 (92)	228 (103)
150-XNTL	150	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	38.0 (965)	11	1-15/16 (49)	3-5/8 (92)	341 (155)
150-XNTW	150	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	27.0 (686)	14	1-15/16 (49)	2-3/4 (70)	280 (127)
200-XNTL	200	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	42.0 (1067)	14	1-15/16 (49)	3-5/8 (92)	396 (180)
200-XNTW	200	21.0 (533)	6.75 (171)	11.5625 (294)	1.00 (25)	11.5625 (294)	27.0 (686)	14	1-15/16 (49)	3-5/8 (92)	333 (151)
200-XNTWC	200	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	27.0 (686)	14	1-15/16 (49)	3-5/8 (92)	408 (185)
300-XNT	300	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	42.0 (1067)	8	2-15/16 (74)	5 (127)	739 (335)
500-XNT	500	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	42.0 (1067)	16	2-15/16 (74)	5 (127)	1355 (615)
750-XNT	750	34.0 (864)	10.0 (254)	27.5 (699)	1.50 (38)	27.5 (899)	42.0 (1067)	24	2-15/16 (74)	5 (127)	2009 (911)
1000-XNT	1000	,		*****	CONSULT	FACTORY FOR	SPECIFICATIO	NS AND	WEIGHT*****		,

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Hilman Part #1	Capacity (tons)	Length	Height	Width	Thickness	Width	Length	Contact Rolls	Roll Diameter	Roll Width	Weight lb (kg)
	(10113)	<<<<<	< Inches (mm)>>>>>	<<<<	<< Inches (mm)	>>>>>	Rolls	<<<<< Inches (mm) >>>>>>		12 (1-6)
100-XT	100	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	21.0 (533)	7	1-15/16 (49)	3-5/8 (92)	217 (98)
150-XTL	150	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	32.0 (813)	11	1-15/16 (49)	3-5/8 (92)	329 (149)
150-XTW	150	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	21.0 (533)	14	1-15/16 (49)	2-3/4 (70)	265 (120)
200-XTL	200	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	7.875 (200)	36.0 (914)	14	1-15/16 (49)	3-5/8 (92)	384 (174)
200-XTW	200	21.0 (533)	6.75 (171)	11.5625 (294)	1.00 (25)	11.5625 (294)	21.0 (533)	14	1-15/16 (49)	3-5/8 (92)	313 (142)
200-XTWC	200	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	21.0 (533)	14	1-15/16 (49)	3-5/8 (92)	387 (175)
300-XT	300	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	34.0 (864)	8	2-15/16 (74)	5 (127)	706 (320)
500-XT	500	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	34.0 (864)	16	2-15/16 (74)	5 (127)	1290 (585)
750-XT	750	34.0 (864)	10.0 (254)	27.5 (699)	1.50 (38)	27.5 (899)	34.0 (864)	24	2-15/16 (74)	5 (127)	1892 (858)
1000-XT	1000			***** C	ONSULT FA	CTORY FOR SI	PECIFICATION	IS AND WE	IGHT*****	'	,

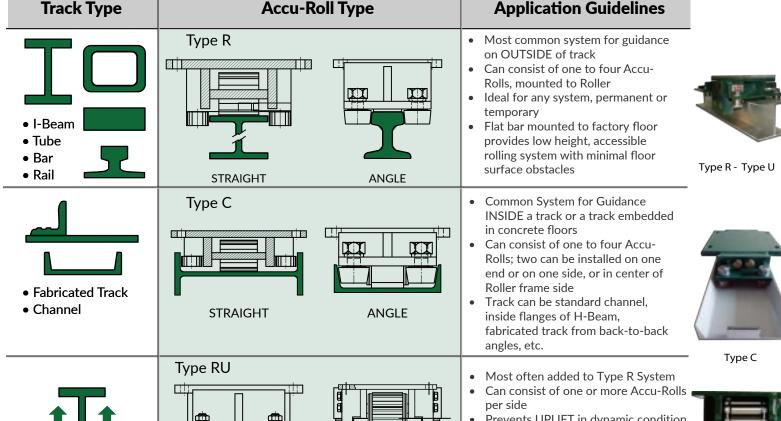


ACCU-ROLL

Hilman's Accu-Roll Guidance System is a positive external alignment system. Most often used on OT/NT/T and SHD Series Hilman Rollers, Accu-Roll can be added to any Hilman Roller and custom designed to interface with almost any type of track. Common tracks are I-beams, wide-flanged beams, channels, rails, steel flat bars, tubes, and trenches. Accu-Roll Systems are an ideal solution where load alignment is critical, a close tolerance must be maintained, where load movement is repetitive, or where dynamic uplift prevention is desired.

Because there are virtually thousands of possibilities with regards to tracks, each Accu-Roll System is custom designed and built to fit the chosen track. Once the track size has been selected and the preferred width and depth locations for the Accu-Roll guides are known, drawings are prepared for customer approval.

Accu-Roll Systems may have one to four or more guide rolls per roller to guide on the track or to ensure that the rollers follow the intended path of travel. Typical roller lateral guides are designed to withstand a maximum of 15-20% of the vertical capacity as lateral roller on most roller sizes; higher and lower capacities can also be designed.

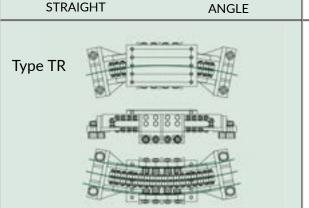




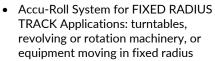
Uplift



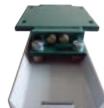
- I-Beam
- Rail
- Bar
- Any Radius Track



- Prevents UPLIFT in dynamic condition
- Resistance against wind and buoyancy
- Protection against overturning moment
- Aids in moving top-heavy or eccentrically loaded equipment



- Usually consists of three Accu-Rolls, two mounted on one side, with one in the center of opposite side
- Roller chains are also modified to fit the required radius
- Rollers of the 37.5 OT size and larger can track on diameters as tight as 8 feet (2.5 meters)







Type TR



MODIFICATIONS

TOP MODIFICATIONS

Modifications to the top plates of Hilman Roller can range greatly. Some relatively simple top modifications might be special drilled and trapped tapped hole patterns, connecting studs, or tops machined to close tolerances. Top clamps, hinged adaptations or container fittings can be added to the rollers, as well as other types of attachments, for the purpose of mounting to a specific type of footing or pad.











CHAIN MODIFICATIONS

There are several different modifications that Hilman can do to the chains. Tapered roller chains allow Hilman Rollers to follow a fixed radius, while Keyway chains have an internal guidance feature to maximize chain life. In highly repetitive applications or where rollers encounter bursts of speed, the Keyway feature keeps the chain centered in the roller frame. Concave and Convex chain and frame solutions are also possible. Hilman can even design specially contoured chain where the rolls are machined to match the contour of crowned rails, ensuring sufficient contact area.











FRAME MODIFICATIONS

Roller frames and tops can be modified in any number of ways to suit specific requirements. Special materials can be used for corrosive resistant or non sparking applications. Mounting surfaces can have custom hole patterns or machined finishes.











TRACK WIPER OR DIRT SHIELDS

Many wiper and shield styles can be added to Rollers to remove debris from the roller path, eliminating unnecessary wear and maintenance.







SPECIAL MATERIAL & COATINGS

Many different alloys and coatings are available so that Hilman rollers meet the requirements of different applications. Alloys to resist varying levels of corrosion, high heat, and non-sparking conditions are just some of what is available for the chain assembly. Special coatings, paint finishes, galvanizing processes, or platings can be applied to help in a variety of environments. Hilman typically uses the highest grade alloys and stainless steels available to ensure that the rollers operate continuously in the manner intended.



MODIFICATIONS

SWIVEL RAM ROLLER

Hilman Swivel Ram Rollers provide a safe and cost-effective way to move heavy loads that need precise positioning and direction changes. With their dual roller chains and integrated lifting cylinder, these rollers allow loads to easily pivot 360 degrees, facilitating effortless maneuvering. They are versatile for various applications, and can be enhanced with Accu-Roll Guidance Systems for improved control on different track types







OTHER MODIFICATIONS

Hilman's extensive experience in custom modifications of rollers and rolling systems design covers a broad spectrum of applications. Below are some of our more elaborate modifications.







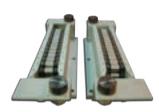












HYDRAULIC INTERGRATION

Hilman can integrate hydraulic cylinders, either as motive force or to lift a load for a specific reason; or both. Motive Force can be applied in any number of ways. Solid chain-drive systems and/or hydraulic push-pull cylinders are just a couple of the solutions that Hilman has supplied with complete control systems for easy user interface.











HILMAN INC. 12 Timber Lane Marlboro, New Jersey 07746 USA

Phone: +1-732-462-6277

E-mail: sales@hilmanrollers.com Website: www.hilmanrollers.com

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