

CHIORINO[®]
1906

Passion for belting

Partner for
food conveying solutions

HP COMPACT[®]
DRIVE **AM**

Homogeneous and drive belts



  EC 1935/2004



HP COMPACT DRIVE AM Homogeneous and drive belts for a safe processing

Chiorino HP COMPACT DRIVE® AM antimicrobial conveyor and process belts represent a breakthrough for food processing.

The HP COMPACT DRIVE® AM conveyor belts combine the advanced antimicrobial bacteriostatic action with the premium features of the HP® line.

HP COMPACT DRIVE® AM antimicrobial belts do not contain biocides that can migrate and contaminate the food⁽¹⁾. They fully comply with EU and international food regulations.

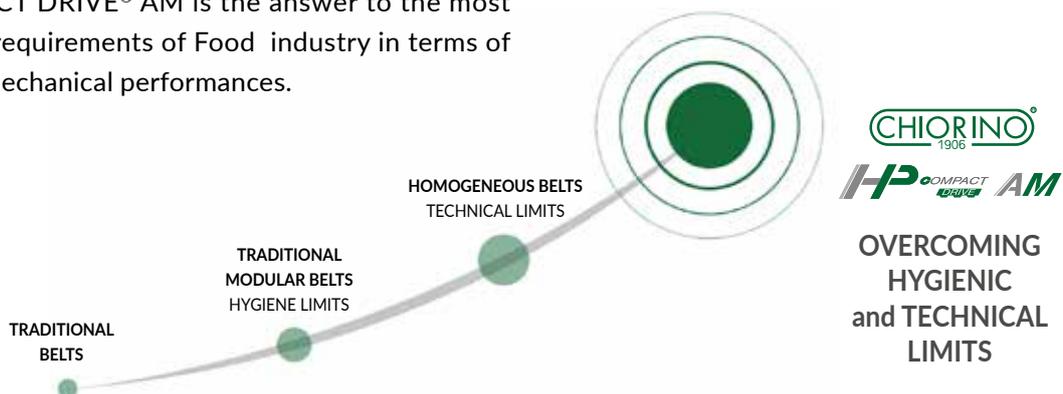
The antimicrobial action helps prevent bacteria build-up on the belt surface, protecting it from the bacterial action.

Antimicrobial properties are built in to inhibit the growth of bacteria that may affect the belt.

The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organism. Always clean and wash the belt thoroughly before and after each use.

⁽¹⁾ Migration tests are made in accordance with EU 10/2011 regulation.

HP COMPACT DRIVE® AM is the answer to the most demanding requirements of Food industry in terms of safety and mechanical performances.



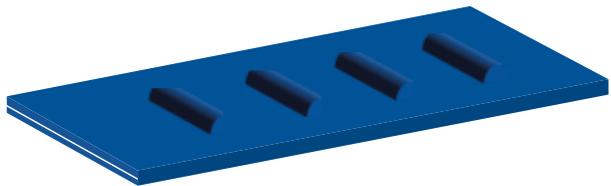
The ultimate food conveying system



Design of the belt

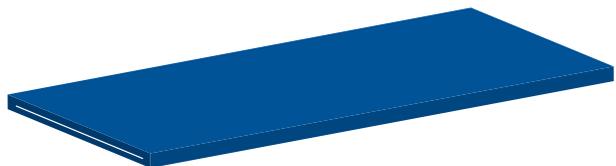
Homogeneous and drive belt with a reinforced traction core and toothed profile on the running side.

The HP COMPACT DRIVE® AM positive drive belts can be supplied with any kind of teeth and pitch, both standard and customized.

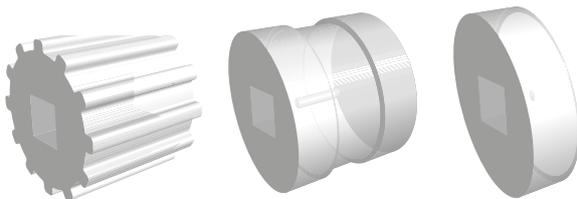


Homogeneous belt design, reinforced traction core.

The HP COMPACT® AM belts assure the total compliance with the requisites imposed by the HACCP practice in the whole production process.



Pulleys



Chiorino supplies standard or customized pulleys according to Customer's needs.



Certified Food Compliance

CHIORINO HP® AM conveyor and process belts comply with the latest european and international Food Regulations and related amendments:

- Regulation EC 1935/2004
- Regulation EC 2023/2006
- Regulation EU 10/2011
- Regulation EU 2024/3190
- Regulation EU 2025/351
- Regulation EU 528/2012
- FDA CFR 21-177:2600
- Exempt from EPA registration under the "treated articles exemption" in 40 CFR 152.25(a)

Risk minimization

Empower safety



HP Homogeneous and drive belts

Trouble-free conveyor solution

- Excellent mechanical stability
- Constant running
- Self-tracking
- No deformations
- Ideal for Z-Conveyors
- Up to 2000 mm width



Increased production efficiency



Optimized cost of ownership



Enhancing belt protection

Durable inhibition of bacterial growth on the belt

The HP COMPACT DRIVE[®] AM antimicrobial feature keeps the belt properties constant during the whole lifetime, unlike traditional biocides solutions.



Help preventing belt surface degradation



Long service life



Risks mitigation

Self-protective belt

The HP COMPACT DRIVE[®] AM antimicrobial properties help prevent the formation of biofilm on the belt, and keep the belt easy to clean and protected from degradation by microbes.



Optimized cost of ownership



HP Product System

Premium performances

Excellent resistance to:

- Chemicals & sanitization agents
- High/low temperatures
- Fats and aggressive oils
- Mechanical stress caused by knife edges backflexing and scrapers.



Quick & easy to clean



Increased production efficiency



Long service life



Supporting HACCP

On field results

Chiorino HP® AM antimicrobial conveyor belts have been successfully tested by food manufacturers adopting severe hygienic protocols.

Comparative Swab Tests have been run on HP® AM belts both during the food processing and after sanitization cycles.

HP® AM belts resulted protected from the bacterial attack, detecting counts far below the acceptable limits, remaining constant for the whole belt service life.

Customers declared that HP® AM belts fully support the HACCP procedures and facilitate cleaning operations.

HP® AM belts do not replace the cleaning and sanitification procedures.



Bacterial growth & biocides migration test

Microbes have been inoculated on belt covers in a petri dish. The bacterial growth has been monitored for 7 days simulating washing cycles of a belt in industrial application.

Tests performed by external independent Laboratory.

Standard
TPU belt



Microbial attack and growth on a standard TPU belt

- ✗ Bacterial growth on the belt's surface
- ✗ Belt affected by microbial growth

Traditional
biocides solutions



Food contamination & reduced antimicrobial effect with time

- ✓ Bacterial growth inhibited
- ✗ Migration of biocides
- ✗ Loss of antimicrobial efficacy due to biocides migration

HP AM
Antimicrobial belts



The HP AM belts are protected from the microbes attack preventing the formation of biofilm

- ✓ Belt protected
- ✓ No migration ⁽¹⁾
- ✓ No biofilm formation

⁽¹⁾ Migration tests are made in accordance with EU 10/2011 regulation.

Ideal for all conveyor designs



The special **Chiorino compact reinforced traction core** assures unlimited flexible and innovative configurations, making HP COMPACT DRIVE® AM ideal for the use on all demanding applications such as swan neck conveyors.

KEY FEATURES

Compact reinforced traction core



MAIN BENEFITS

No deformations
Cross rigidity
Self tracking
No elongations
Low fitting tension

Compact reinforced traction core



No vibrations
Ideal for Z-conveyors
Up to 2000 mm width



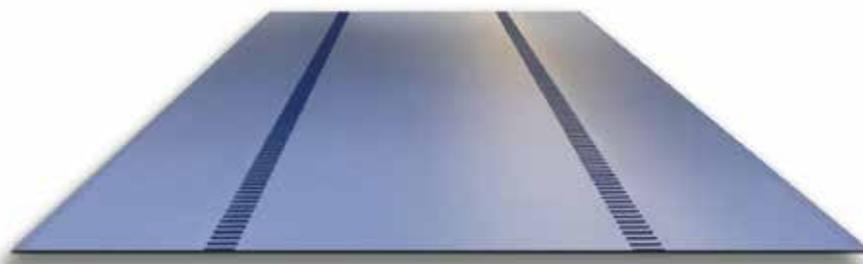
HP^{COMPACT}^{DRIVE} AM 2000

Beyond the limits of custom solutions!

HP COMPACT DRIVE® AM is produced in **2000 mm width** and no length limits for endless belts.

It can be supplied with a **double row of teeth** up to 2000 mm belts width.

HP COMPACT DRIVE® AM is the **only homogeneous reinforced belt** available in **2000 mm** width.



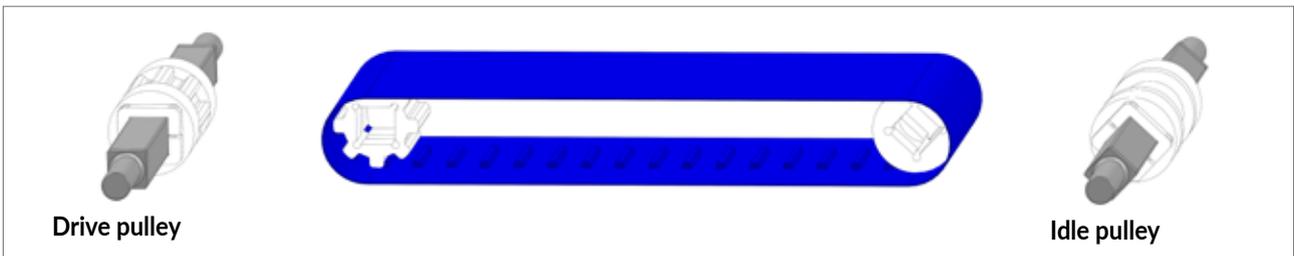
Pitches and pulleys



The traditional positive drive conveyor construction consists of:

- Drive pulley
- Slidebed
- Idle pulley with tensioning device
- Support pulleys

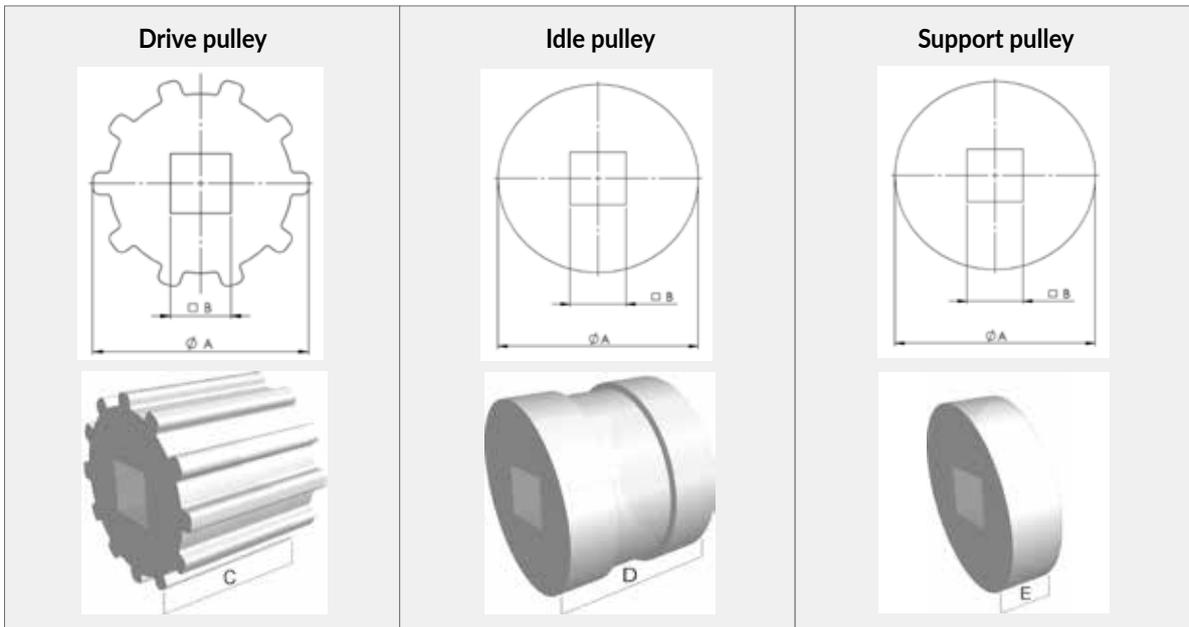
Chiorino supplies both standard and customized pulleys according to Customer's needs.



Drive pulley

Idle pulley

HP COMPACT DRIVE AM Chiorino standard sprockets / pulleys



Number of teeth	Pitch mm	External \varnothing A mm	Inner square \square B mm	Width C mm	Width D mm	Width E mm
8	40	99	40 x 40	80	105	20
10	40	125	40 x 40	80	105	20
12	40	150	40 x 40	80	105	20
14	40	176	40 x 40	80	105	20
16	40	201	40 x 40	80	105	20

On demand HP COMPACT DRIVE® AM belts can be supplied with customized pitches.

Homogeneous and drive belts

HP^{COMPACT} DRIVE AM Drive belts

Code	Type	Total thickness mm	Material	Driving toothed side texture	Conveying side surface texture	Pitch mm	Tooth section	Tooth length mm	Pull for 1% elong. N/mm	Min. diameter (1) mm	Temperature resistance °C		Max. width mm	Inclined	Swan neck	Trough
				↑	↓		b x h mm				min.	max.				
NA2670C_D13	HP Compact Drive 20/40 blue AM	2.0	TPU HP®	smooth	smooth	40	13 x 8	72	8	80	-30	+90	2000			•
NA2667C_D13	HP Compact Drive 25/40 blue AM	2.5	TPU HP®	smooth	smooth	40	13 x 8	72	8	80	-30	+90	2000		•	
NA2706C_D13	HP Compact Drive 25/40 PN blue AM	2.5	TPU HP®	smooth	PN	40	13 x 8	72	8	80	-30	+90	2000	•	•	
NA2700C_D13	HP Compact Drive 25/40 RG blue AM	2.5	TPU HP®	smooth	RG	40	13 x 8	72	8	80	-30	+90	2000	•	•	
NA2703C_D13	HP Compact Drive 25/40 VL blue AM	2.5	TPU HP®	smooth	VL	40	13 x 8	72	8	80	-30	+90	2000		•	
NA2704C_D13	HP Compact Drive 40/40 blue AM	4.0	TPU HP®	smooth	smooth	40	13 x 8	72	15	80	-30	+90	2000		•	

HP^{COMPACT} AM Homogeneous belts

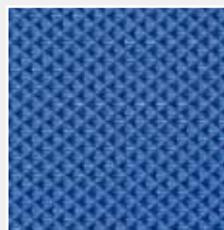
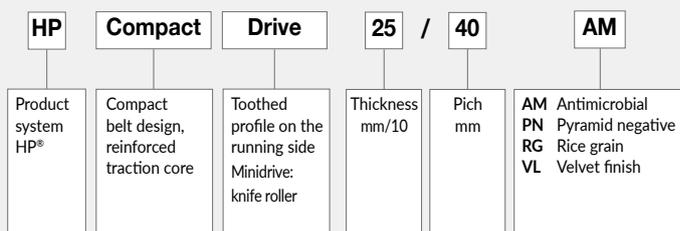
Code	Type	Total thickness mm	Material	Driving side surface texture	Conveying side surface texture	Pull for 1% elong. N/mm	Min. diameter (1) mm	Temperature resistance °C		Max. width mm	Knife roller	Inclined	Swan neck	Trough
								min.	max.					
NA2699A	HP Compact 15 blue AM	1.5	TPU HP®	smooth	smooth	5	25	-30	+110	2000	•			
NA2670A	HP Compact 20 blue AM	2.0	TPU HP®	smooth	smooth	8	50	-30	+110	2000				•
NA2667A	HP Compact 25 blue AM	2.5	TPU HP®	smooth	smooth	8	50	-30	+110	2000			•	
NA2706A	HP Compact 25 PN blue AM	2.5	TPU HP®	smooth	PN	8	50	-30	+110	2000		•	•	
NA2700A	HP Compact 25 RG blue AM	2.5	TPU HP®	smooth	RG	8	50	-30	+110	2000		•	•	
NA2700A.RG	HP Compact RG 25 blue AM	2.5	TPU HP®	RG	smooth	8	50	-30	+110	2000			•	
NA2703A	HP Compact 25 VL blue AM	2.5	TPU HP®	smooth	VL	8	50	-30	+110	2000			•	
NA2704A	HP Compact 40 blue AM	4.0	TPU HP®	smooth	smooth	15	80	-30	+110	2000			•	

⁽¹⁾ Minimum roller diameter is dependent on the joint recommended by Chiorino.

The technical data are valid under normal environmental conditions and are subject to change without notice.

Due to the variety of different worldwide regulations, the information in this catalogue are valid for Europe. For other geographical areas please contact our Sales Departments.

Explanation of type designation



Profiles and Sidewalls

HPAM[®] Transversal profiles

	Code	Type	Dimensions		Material	Hardness	Min. transversal pitch mm	Min. transversal diameter ⁽¹⁾ mm
			b x h mm					
	ES993	L20 U HP blue AM	10 x 20		TPU HP [®]	70 Sh A	40	40
	ES994	L30 U HP blue AM	10 x 30		TPU HP [®]	70 Sh A	40	40
	ES995	L40 U HP blue AM	10 x 40		TPU HP [®]	70 Sh A	40	40
	ES996	L50 U HP blue AM	10 x 50		TPU HP [®]	70 Sh A	40	40
	ES997	L80 U HP blue AM	10 x 80		TPU HP [®]	70 Sh A	40	40
	ES998	L80 U HP blue 55D AM	10 x 80		TPU HP [®]	55 Sh D	40	40
	ES1000	T20 U HP blue AM	10 x 20		TPU HP [®]	70 Sh A	40	40
	ES1001	T30 U HP blue AM	10 x 30		TPU HP [®]	70 Sh A	40	40
	ES1002	T40 U HP blue AM	10 x 40		TPU HP [®]	70 Sh A	40	40
	ES1003	T50 U HP blue AM	10 x 50		TPU HP [®]	70 Sh A	40	40
	ES1004	T60 U HP blue AM	10 x 60		TPU HP [®]	70 Sh A	40	40
	ES1005	T50 U HP blue 55D AM	10 x 50		TPU HP [®]	55 Sh D	40	40
	ES1012	T80 U HP RG blue 55MD AM	10 x 80 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES1006	T100 U HP blue 55MD AM	10 x 100 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES1015	T100 U HP RG blue 55MD AM	10 x 100 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES970	T120 U HP blue 55MD AM	10 x 120 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES971	T120 U HP RG blue 55MD AM	10 x 120 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES973	T150 U HP blue 55 MD AM	10 x 150 ⁽²⁾		TPU HP [®]	55 Sh D	40	50
	ES1013	TS80 U HP blue 55MD AM	10 x 80 ⁽²⁾		TPU HP [®]	55 Sh D	---	---
	ES1008	TS100 U HP blue 55MD AM	10 x 100 ⁽²⁾		TPU HP [®]	55 Sh D	---	---
	ES1007	TS120 U HP blue 55MD AM	10 x 120 ⁽²⁾		TPU HP [®]	55 Sh D	---	---

⁽¹⁾ Minimum pulley diameters referred to environment conditions of 20°C

⁽²⁾ Available in 800 mm length bars

HPAM[®] Sidewalls

	Code	Type	Dimensions			Material	Hardness	Thickness mm	Minimum diameter ⁽¹⁾ mm
			Pitch mm	Width mm	Height mm				
	ES987	C-U 10/20 HP blue AM	24	22	20	TPU HP [®]	85	1.6	50
	ES988	C-U 10/30 HP blue AM	24	22	30	TPU HP [®]	85	1.6	70
	ES989	C-U 10/40 HP blue AM	24	22	40	TPU HP [®]	85	1.6	100
	ES990	C-U 10/50 HP blue AM	24	22	50	TPU HP [®]	85	1.6	120
	ES991	C-U 20/60 HP blue AM	50	42	60	TPU HP [®]	85	1.6	150
	ES992	C-U 20/80 HP blue AM	50	42	80	TPU HP [®]	85	1.6	190
	ES983	C-U 20/40 HP Compact blue AM	40	42	40	TPU HP [®]	92	2.7	100
	ES984	C-U 20/50 HP Compact blue AM	40	42	50	TPU HP [®]	92	2.7	120
	ES985	C-U 20/60 HP Compact blue AM	40	42	60	TPU HP [®]	92	2.7	145
	ES982	C-U 20/80 HP Compact blue AM	40	42	80	TPU HP [®]	92	2.7	200
	ES986	C-U 20/100 HP Compact blue AM	40	42	100	TPU HP [®]	92	2.7	240
	ES1017	C-U 20/120 HP Compact blue AM	40	42	120	TPU HP [®]	92	2.7	290

⁽¹⁾ Minimum pulley diameters referred to environment conditions of 20°C



Accuracy and precise transfer

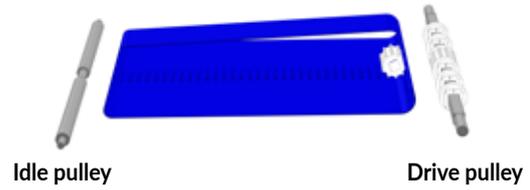
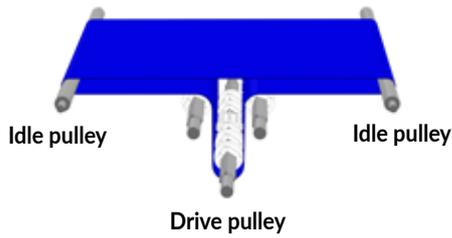
HP COMPACT MINIDRIVE AM is the ultimate solution for **food positive drive belts** featuring a **reduced teeth pitch**.

Ideal for running on small pulleys, it assures smooth product transfer and increased production efficiency.

Engineered for small pulleys		Accurate product transfer
		Minimized production waste
HP COMPACT [®] exclusive design		No mistracking. No misalignments
		Suitable for bi-directional running. Ideal for high speed
HP [®] excellent resistance to bacteria proliferation and cleaning procedures		Total food compliance
High resistance to oils, fats, abrasion		Long service life
Lower tension = Highest resistance to mechanical stress (shafts and bearings saving) Easy to clean = Water saving		Optimized cost of ownership



Belt configuration



Homogeneous drive belts

Code	Type	Total thickness mm	Material	Driving toothed side surface texture	Conveying side surface texture	Pitch mm	Tooth section	Tooth length mm	Pull for 1% elong. N/mm	Min. diameter (1) mm	Temperature resistance °C		Max. width mm	Knife roller
				↑	↓		b x h mm				min.	max.		
NA2699F_D6	HP Compact Minidrive 15/20 blue AM	1.5	TPU HP®	smooth	smooth	20	6 x 4	72	5	25	-30	+90	1200	•
NA2715F_D6	HP Compact Minidrive 15/20 PN blue AM	1.5	TPU HP®	smooth	PN	20	6 x 4	72	5	25	-30	+90	1200	•

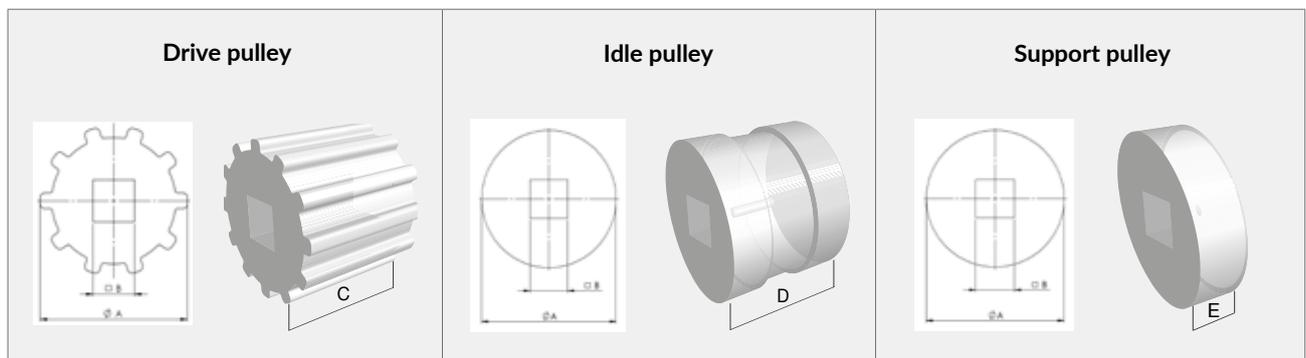
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Chiorino standard sprockets / pulleys



Number of teeth	Pitch mm	External Ø A mm	Inner square □ B mm	Width C mm	Width D mm	Width E mm
9	20	55	20 x 20	80	105	20
10	20	62	25 x 25	80	105	20
11	20	68	25 x 25	80	105	20
12	20	74	25 x 25	80	105	20

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More info on www.chiorino.com



Customer
proximity



Engineering
consultancy



Quick
delivery



On-Site Fitting
& Assistance

