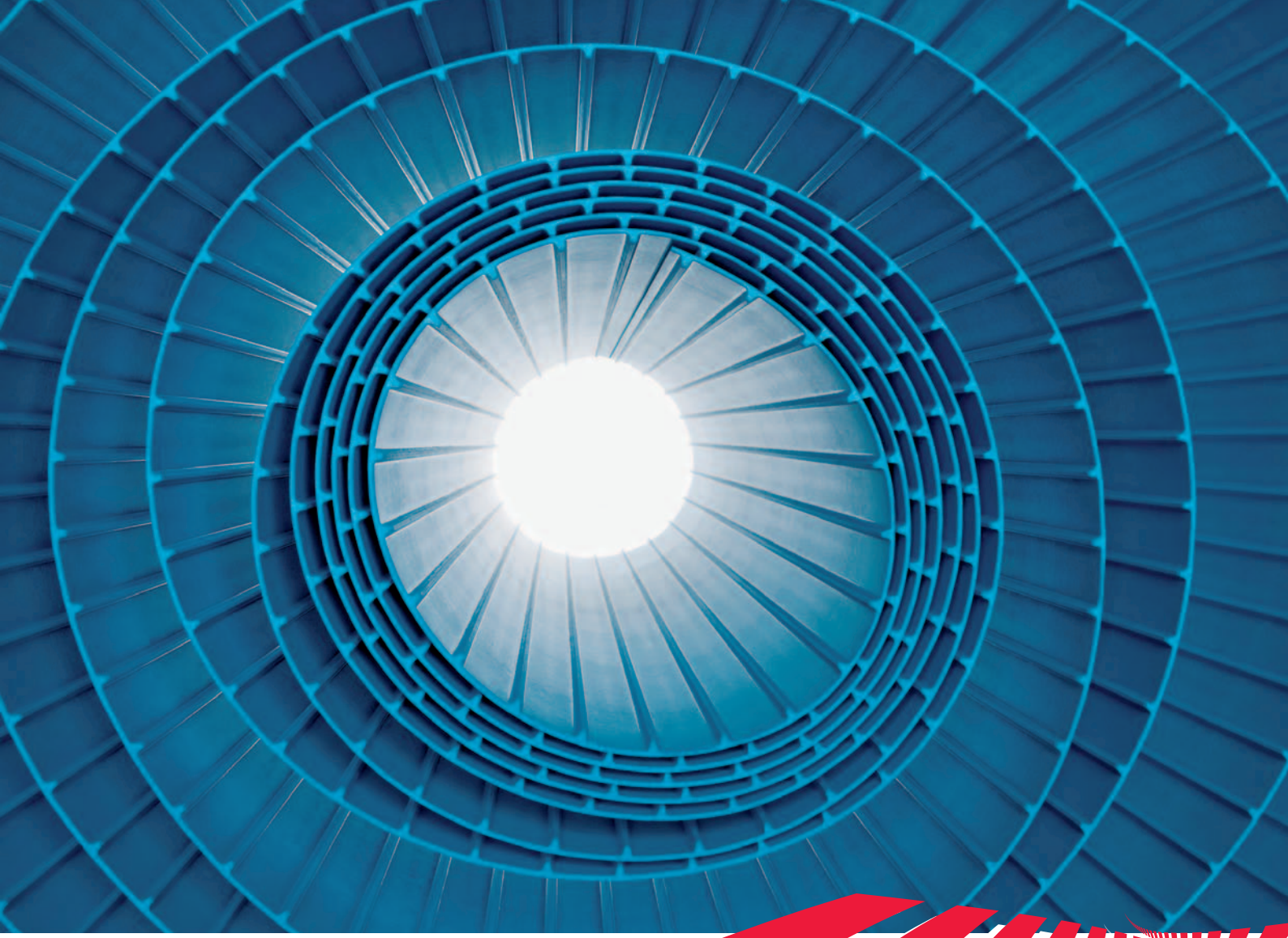


MEGABLUE

MEGADYNE

MEGABLUE

MEGABLUE is Megadyne's product, specifically created to give a good alternative to the classical plastic modular belt for the food processing industry.

This product, with its smooth surface, guarantees superior hygiene levels and, at the same time, works like a positive drive modular plastic belt.

Thanks to the tooth shape and pitch, MEGABLUE works with the same sprockets of modular plastic belts and is a good alternative where an extreme cleanability is needed. This belt helps saving water and time usually dedicated to the cleansing of a classical modular plastic belt.

All the MEGABLUE product line is FDA/USDA/USDA Dairy Approved.

It's the ideal combination of the benefits of a classical smooth conveyor with the mechanical and chemical advantages of a plastic modular belt.

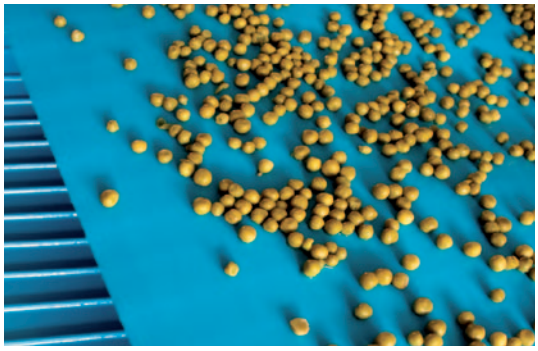
Main features:

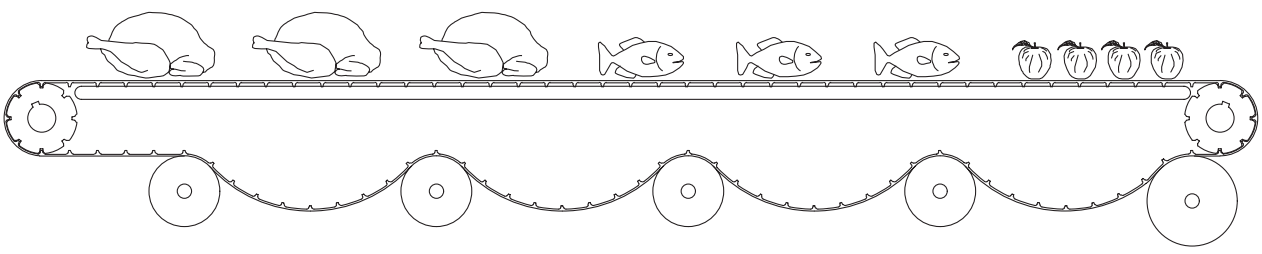
- Suitable to replace most of the 1" and 2" plastic modular belts;
- Available with Kevlar® tension member where the application requires high tensile strength and low elongation;
- Blue FDA approved Polyurethane water and chemical resistant;
- Perfectly sealed edges to avoid the contact of external agents with Kevlar® cords in case they are present (for MB 10 K);
- Flat and smooth back surface to help the clean-in-place process and to avoid bacteria deposit;
- FDA/USDA approved for wet food contact and transportation (meat and poultry).

Applications

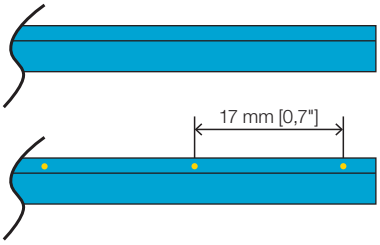
Megadyne's MEGABLUE product line was conceived keeping in mind the specific requirements of the food processing industry in a wide variety of sectors such as but not limited to:

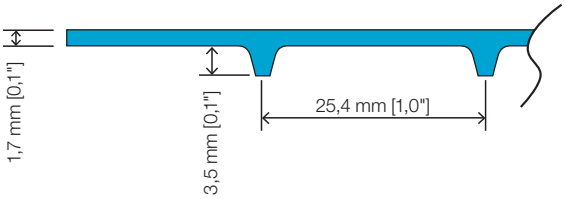
- BAKERY
- MEAT, POULTRY AND SEAFOOD
- BEVERAGE
- FRUIT AND VEGETABLE



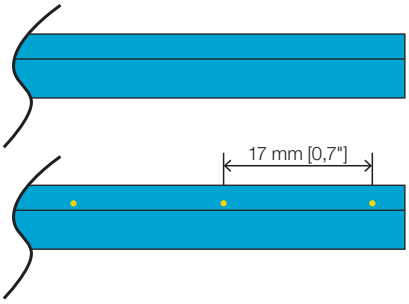


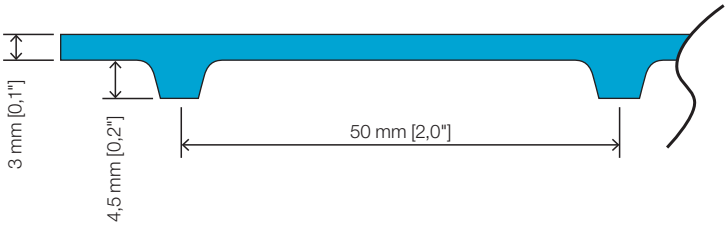
MB 10, MB 10K





MB 20, MB 20K





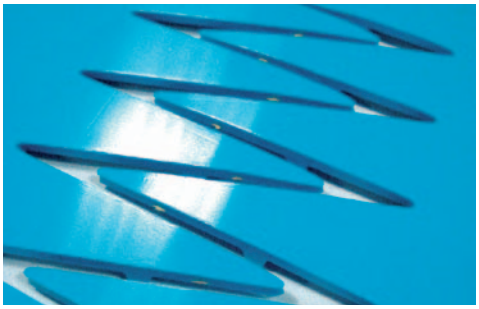
		MB 10		MB 20	
		Normal version	Kevlar® version	Normal version	Kevlar® version
Nominal Pitch	mm	25,4		50	
	inches	1"		2"	
Belt maximum allowable tension	N/25,4 mm of width	200	220	200	220
Belt max. allowable tension with finger joint Belt max. allowable tension with Alligator® stainless rivets system Belt max. allowable tension with Alligator® plastic rivets system		See the fastening options page			
Belt weight	g/cm(W)/m(L)	30		60	
	lbs/inch(W)/ft(L)	0,048		0,099	
Min. diameter of the pulley	mm	50,8		95	
	inches	2		3,74	
Hardness	Shore A	95°			
Service Temperature Range	°C	-25 °C		+70 °C	
	°F	-13 °F		+158 °F	
Standard color		Blue			
FDA APPROVED URETHANE FOR FOOD CONTACT					
Min. lenght factory welded belt	mm	**1200** for 530 mm wide belt			
	inches	**47,25** for 530 mm wide belt			
Standard roll lenght	meters	100		100	
	feet	328		328	
Standard tension member pitch	mm	-	17	-	17
	inches	-	0,67	-	0,67
Max. available width	mm	530		530	
	inches	21		21	
Coefficient of friction on back side	PU vs. Stainless Steel	0,69-0,86			
	PU vs. UHMWPE	0,17-0,30			
Coefficient of friction on teeth side	PU vs. Stainless Steel	0,58-0,69			
	PU vs. UHMWPE	0,22-0,31			

*Custom construction and rework on request

Fastening options

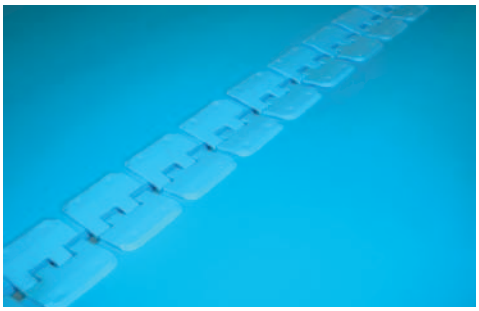
Finger joint

The “Finger Joint” factory weld assures high break resistance thanks to the improved length of the surface of contact and the overlap of tension members where they’re present.



Plastic Rivet joint

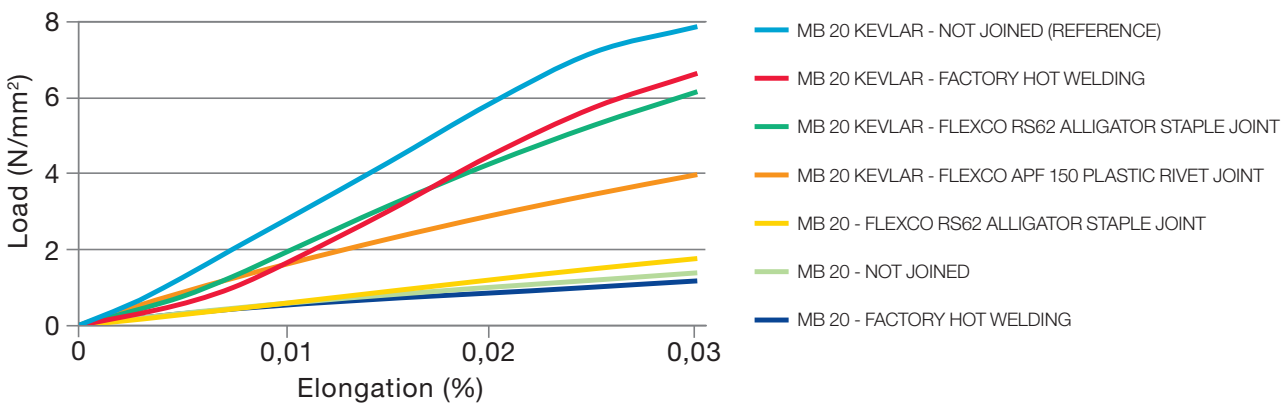
The Plastic rivet joint is ideal in those application where the belt needs to be constantly assembled and disassembled to be cleaned and rinsed. The rivet’s FDA-approved material guarantees maximum safety when in contact with the food.



Metal Staples joint

All the advantages of a system that can be assembled and disassembled, linked with the strength of metal staples. Stainless steel avoids any deposit of rust caused by the continuous contact of the belt with water.

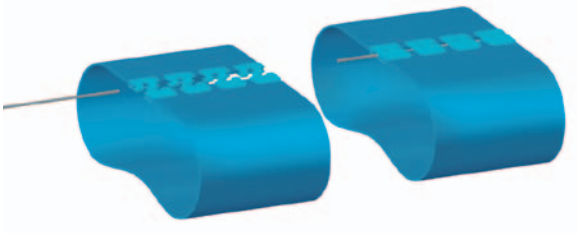
Elongation Graphic



Fastening options

Plastic Rivets and metal staples

The belt will be supplied with FDA approved Blue plastic rivets or stainless steel staples already mounted on the edges. Once the belt has been placed on the machine, the customer will join the edges using the appropriate hinge that is provided with the belt.



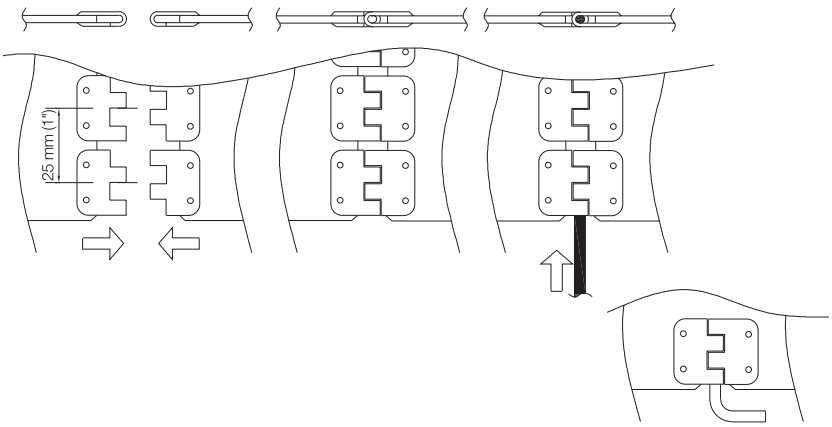
Fastening elements characteristics

	Splicing method	Code	Suitable for belts with a tensile strength of up to:		Hinge material
MB 10 Belt	Blue PU rivet	APF 100 Blue	75 N/mm*	400 lb/in*	NK 2,50
MB 20 Belt		APF 150 Blue	100 N/mm*	560 lb/in*	NK 3,50
MB 10 Belt MB 20 Belt	Stainless steel staples	RS 62	200 N/mm*	1110 lb/in*	NCS 62

*NOTE: In any case, the belt reaches its maximum elongation value before the fastening element reaches its breaking limit.

Plastic rivets splicing procedure

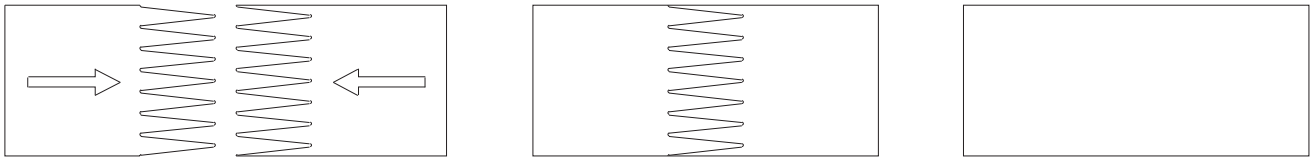
1. Place the belt on the conveyor.
2. Match the edges until the grooves are aligned.
3. Insert the hinge material.
4. Provide a 90° bend to the free edges of the hinge material while applying a little heat at the bend point with a lighter.



Finger joint factory welding

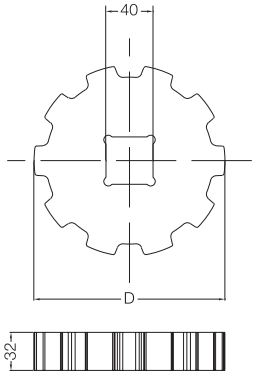
The belt will be supplied already spliced, this means the customer has to be able to dismantle the machinery to mount the belt.

Note: This is the safest method to supply the belt in terms of its cleanability, the homogeneity of the surface and resistance to aggressive bacteria. The finger spliced belt looks exactly like an endless belt.



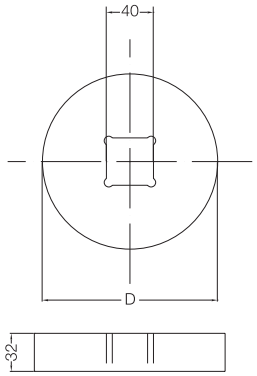
PULLEYS

MB 20



Sprocket

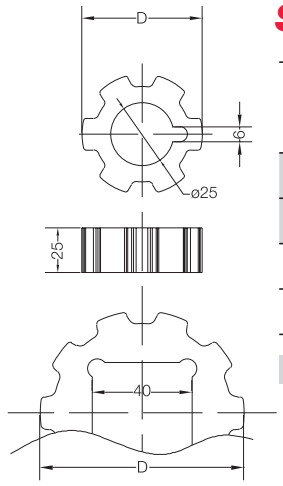
Article	Z	D	
		mm	in
MB20-Z06	6	95	3,7
MB20-Z08	8	128	4,9
MB20-Z10	10	161	6,3
MB20-Z12	12	193	7,6



Idler pulley

Article	D	
	mm	in
MB20-06	83	3,3
MB20-08	116	4,6
MB20-10	149	5,9
MB20-12	181	7,1

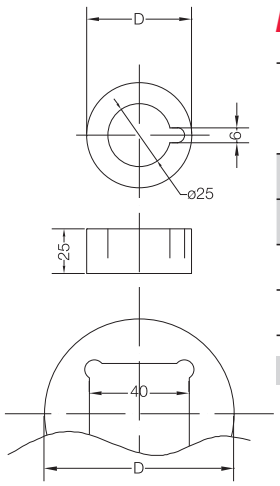
MB 10



Sprocket

Article	Z	D	
		mm	in
MB10-Z06	6	48	1,9
MB10-Z08	8	65	2,6
MB10-Z10	10	81	3,2
MB10-Z12	12	97	3,8

Cylindrical bore



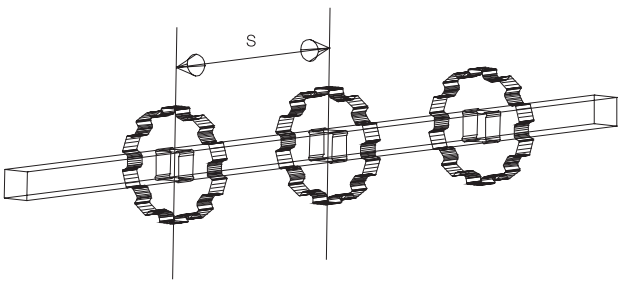
Idler pulley

Article	Z	D	
		mm	in
MB10-06	6	41	1,6
MB10-08	8	58	2,3
MB10-10	10	74	2,9
MB10-12	12	90	3,6

Cylindrical bore

Material: White HDPE

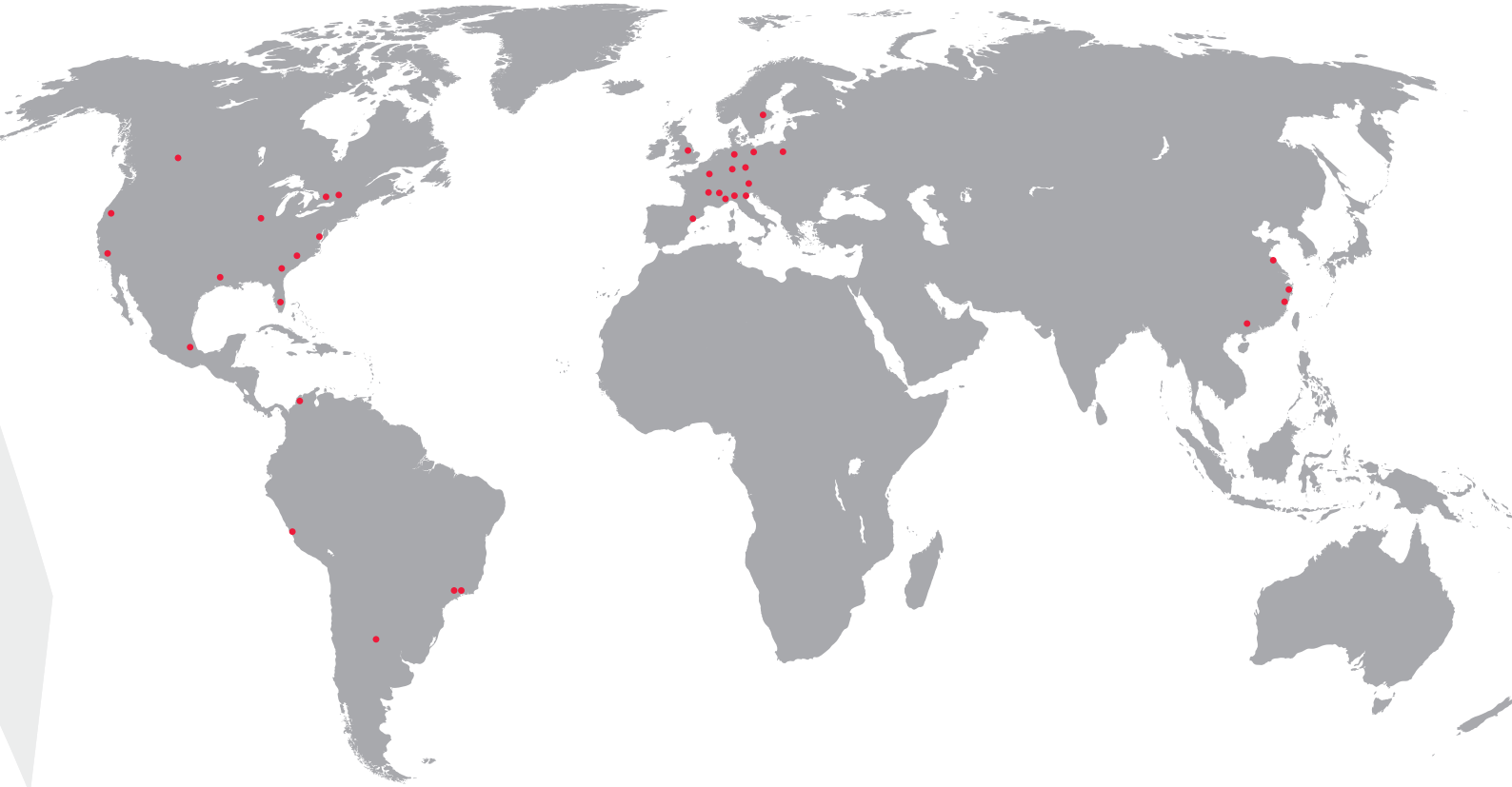
INSTALLATION RULES



Axial distance between sprockets on the drive shaft (S)

	MB 10		MB 20	
	mm	in	mm	in
FULL LOAD	50	2	75	3
LOW/MED LOAD	100	4	150	6

Pulleys can be secured on the drive shaft using a stop ring. For pulleys with a square bore use a cotter pin.



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