

# Enduro Maintenance Free Chains



PERFORMANCE IN MOTION

## ENDURO MAINTENANCE FREE CHAINS

REGINA ENDURO CHAINS ARE MANUFACTURED TO OPERATE IN “LUBE-FREE” APPLICATIONS

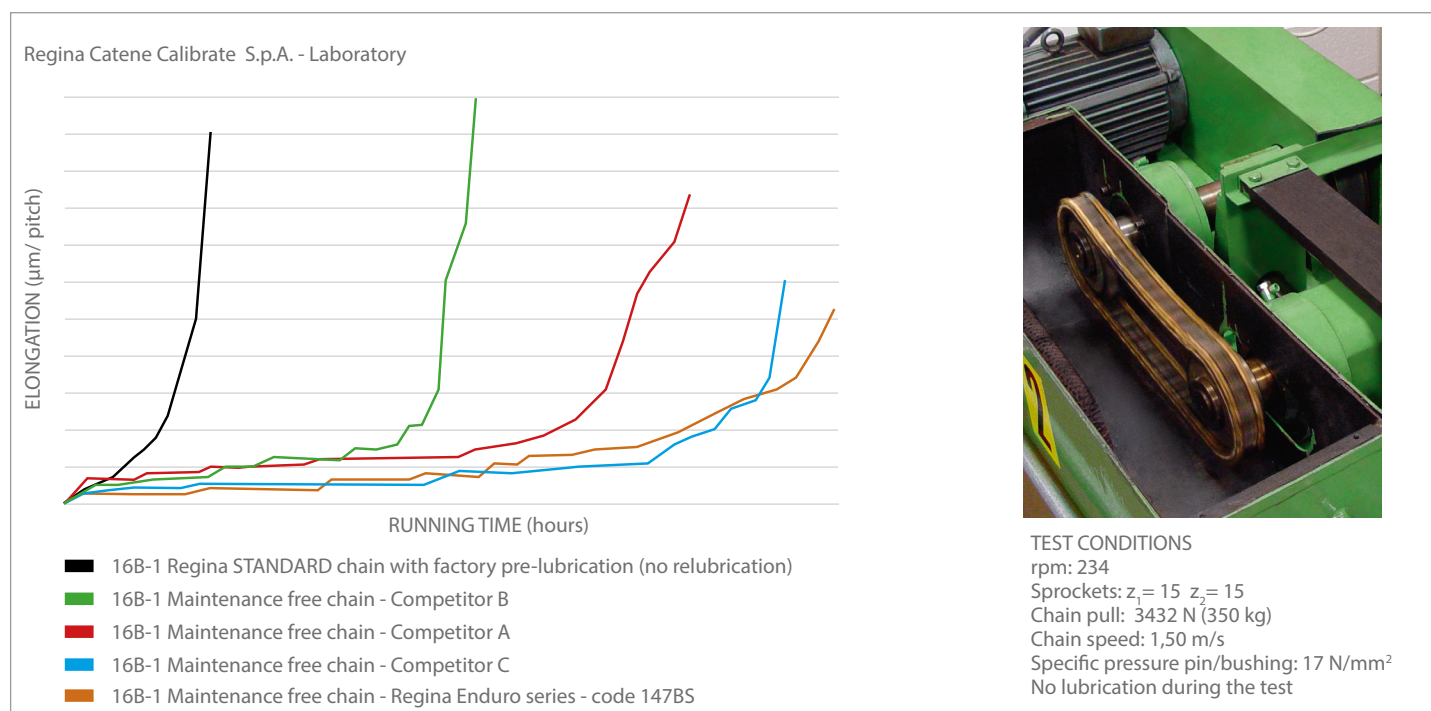
Designed to work without periodic maintenance, Regina ENDURO chains are ideal for applications where regular lubrication is difficult or not allowed and where product contamination has to be avoided.

Regina ENDURO chains fit standard sprockets of ISO roller chains and are available in both European (BS) and American (ANSI) standard, with pitches from  $\frac{1}{2}$ " to 1", in simplex and duplex versions.

### WEAR RESISTANCE

ENDURO chains outlast standard chains without periodic lubrication. The unique technology and “heavy wall” design of the sintered bushing ensures excellent wear resistance.

### COMPARATIVE WEAR TEST - 16B-1 CHAINS WITH SINTERED BUSHINGS



### BENEFITS

- Dramatic wear life increase compared to standard chains in un-lubricated conditions
- Eliminate need for periodic lubrication
- No product or equipment contamination
- Resistance to corrosion in mildly aggressive environment
- Savings in lubrication and maintenance costs

### APPLICATION LIMITS

- Maximum speed: 2 m/s
- Maximum specific pressure: 20 N/mm<sup>2</sup>
- Operating temperature range: -30°C ÷ +150°C
- Mild corrosive environment
- Absence of abrasive contamination



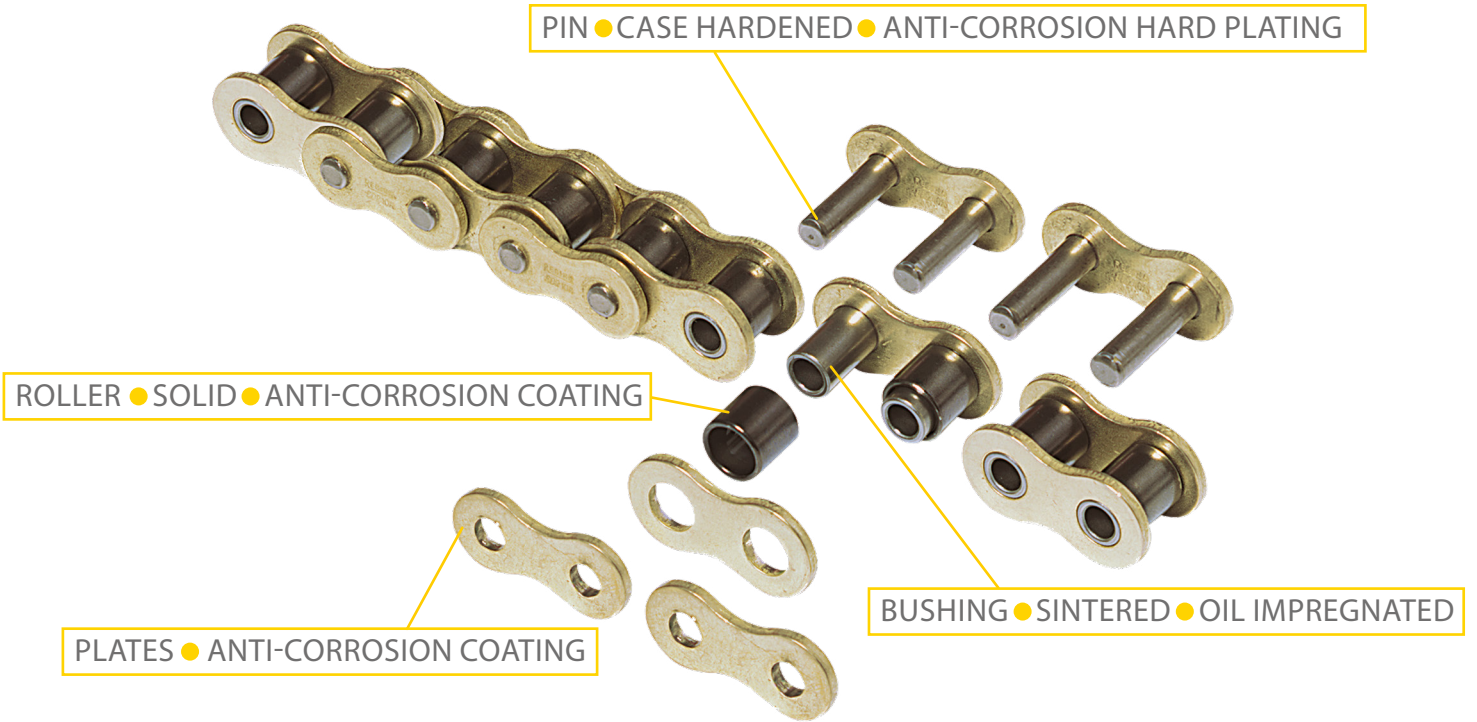
If your application exceeds the above limits, please contact Regina Technical Service for further analysis.



Regina ENDURO chains are manufactured in Regina's European Factories

## TECHNICAL CHARACTERISTICS

- "Heavy wall" sintered bushing, impregnated with USDA H1 food approved oil
- Hard plated pin
- Galvanically coated plates and rollers for resistance to mildly aggressive environment

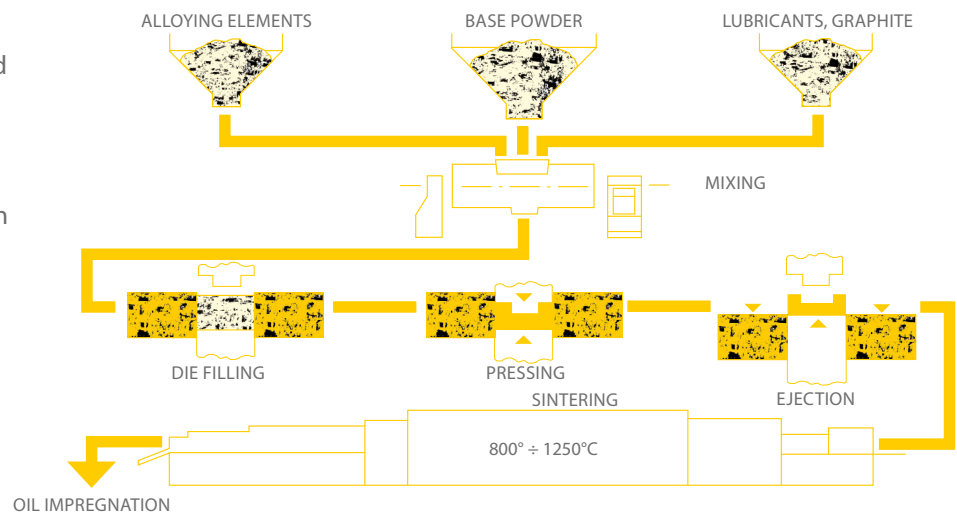


- SINTERED BUSHING, IMPREGNATED WITH HIGH PERFORMANCE LUBRICANT
- OPTIMIZED BUSHING WALL THICKNESS FOR INCREASED WEAR PERFORMANCE

### THE SINTERING PROCESS

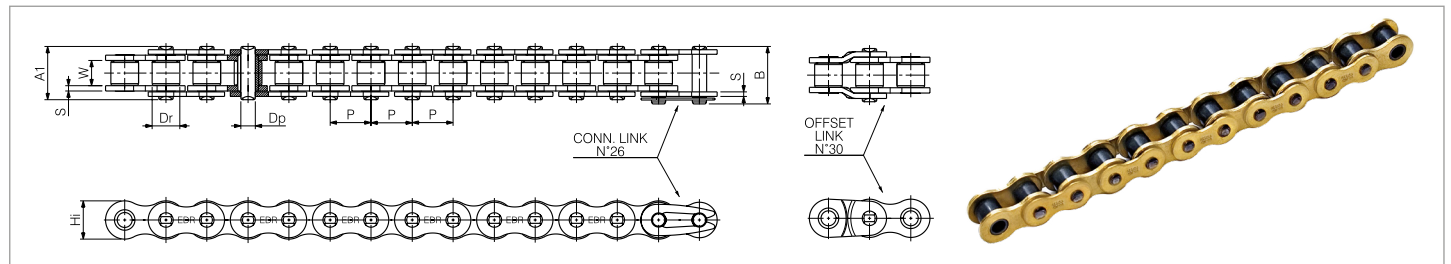
A blend of metallic powders is pressed into the desired shape and sintered at high temperature.

The porosity left in the material is then filled with high quality oil through a vacuum process.



## PRODUCT RANGE

### SINGLE STRAND



REGINA	ISO	PITCH		ROLLER DIAM.	INSIDE WIDTH	PLATE HEIGHT	PLATE THICKNESS	PIN DIAM.	PIN WIDTH	MAX WIDTH	WORKING SURFACE	AVERAGE TENSILE STRENGTH	MAX WORKING LOAD	LOOSE PARTS CONN.	OFFSET
ref	ref	mm	inches	Dr	W	Hi	S	Dp	A1	B	mm <sup>2</sup>	kN	N	LINK	LINK

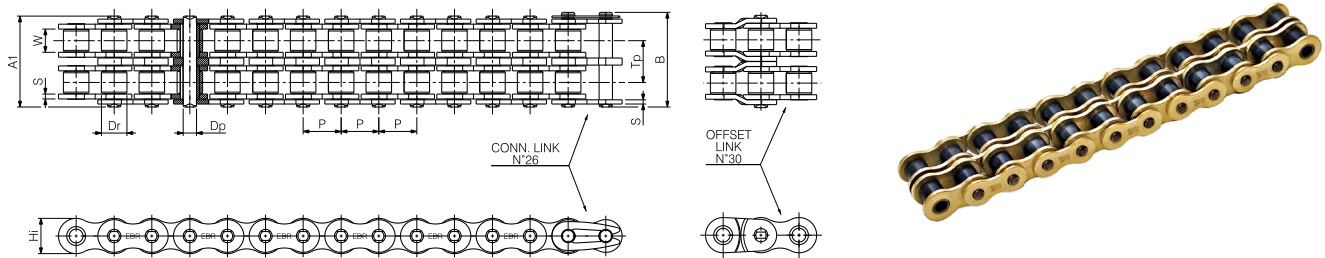
### EUROPEAN SERIES

126BS	08B-1	12,70	1/2	8,51	7,75	11,85	1,63/1,40	4,45	16,50	24,00	50	18,60	1000	26	30
136BS	10B-1	15,875	5/8	10,16	9,65	15,15	2,00/1,53	5,09	19,60	27,00	69	24,80	1380	26	30
140BS	12B-1	19,05	3/4	12,07	11,68	16	1,85/1,70	5,72	22,50	30,00	89	33,00	1780	26	30
147BS	16B-1	25,40	1	15,88	17,02	21,08	3,80/3,00	8,28	35,90	46,00	210	63,35	4200	26	30
152BS	20B-1	31,75	1 1/4	19,05	19,60	29,6	3,80	9,475	40,00	46,80	260	95,00	5200	25	30

### AMERICAN SERIES

A40BS	08A-1	12,70	1/2	7,92	7,85	11,85	1,63/1,53	3,98	16,50	23,00	44	17,15	880	26	30
A50BS	10A-1	15,875	5/8	10,16	9,40	15,15	2,00	5,09	20,50	28,00	70	26,00	1400	26	30
A60BS	12A-1	19,05	3/4	11,91	12,57	18,08	2,30	5,72	25,80	33,00	101	37,25	2020	26	30
A80BS	16A-1	25,40	1	15,88	15,75	24,13	3,15	7,94	33,50	40,00	180	64,70	3600	26	30
A100BS	20A-1	31,75	1 1/4	19,05	19,60	29,6	3,80	9,475	40,00	46,80	260	95,00	5200	25	30

### DOUBLE STRAND



REGINA	ISO	PITCH		ROLLER DIAM.	INSIDE WIDTH	PLATE HEIGHT	PLATE THICKNESS	TRANSV. PITCH	PIN DIAM.	PIN WIDTH	MAX WIDTH	WORKING SURFACE	AVERAGE TENSILE STRENGTH	MAX WORKING LOAD	LOOSE PARTS CONN.	OFFSET
ref	ref	mm	inches	Dr	W	Hi	S	Tp	Dp	A2	B	mm <sup>2</sup>	kN	N	LINK	LINK

### EUROPEAN SERIES

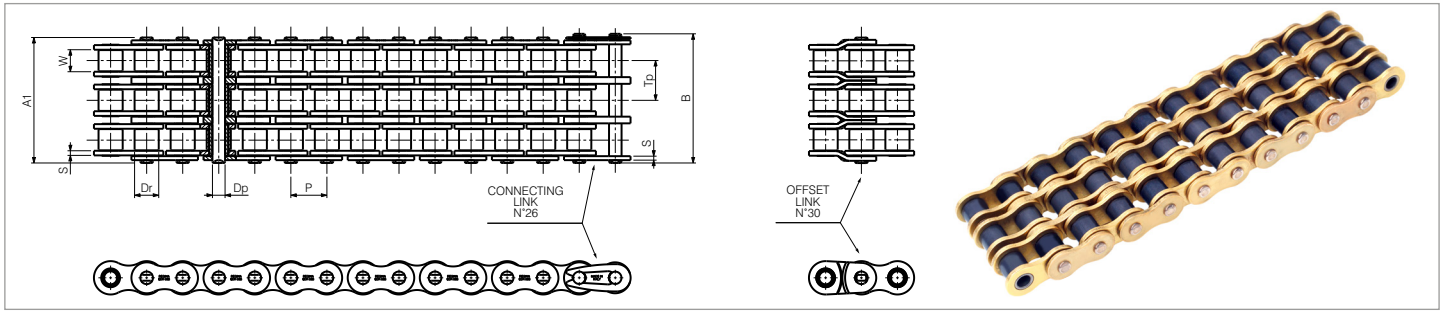
226BS	08B-2	12,70	1/2	8,51	7,75	11,85	1,63/1,40	13,92	4,45	30,40	38,20	100	35,10	2000	26	30
236BS	10B-2	15,875	5/8	10,16	9,65	15,15	2,00/1,53	16,59	5,10	35,80	44,00	138	42,00	2760	26	30
240BS	12B-2	19,05	3/4	12,07	11,68	16,00	1,80/1,70	19,46	5,72	42,00	51,20	178	66,00	3560	26	30
247BS	16B-2	25,40	1	15,88	17,02	21,08	3,80/3,00	31,88	8,28	68,00	78,80	420	127,50	8400	26	30

### AMERICAN SERIES

A40BS-2	08A-2	12,70	1/2	7,92	7,892	11,85	1,63/1,53	14,38	3,98	30,90	38,60	88	34,30	1760	26	30
A50BS-2	10A-2	15,875	5/8	10,16	9,40	15,15	2,00	18,11	5,09	38,40	46,60	140	52,00	2800	26	30
A60BS-2	12A-2	19,05	3/4	11,91	12,57	18,08	2,30	22,78	5,72	48,80	58,00	202	74,50	4040	26	30
A80BS-2	16A-2	25,40	1	15,88	15,75	24,13	3,15	29,29	7,94	62,70	73,50	360	129,45	7200	26	30

Some ENDURO chain dimensions may differ from ISO standard, but their engagement with standard ISO sprocket is guaranteed.

## TRIPLE STRAND



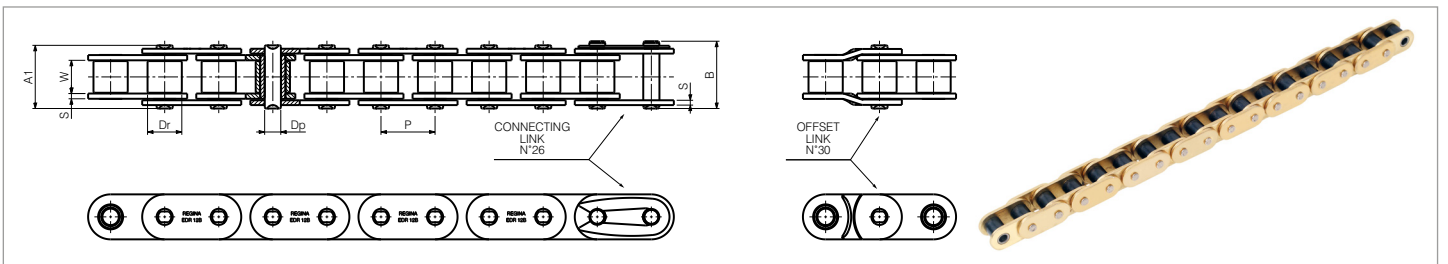
REGINA	ISO	PITCH		ROLLER DIAM.	INSIDE WIDTH	PLATE HEIGHT	PLATE THICKNESS	TRANSV. PITCH	PIN DIAM.	PIN WIDTH	MAX WIDTH	WORKING SURFACE	AVERAGE TENSILE STRENGTH	MAX WORKING LOAD	LOOSE PARTS CONN. LINK	OFFSET LINK
ref	ref	mm	inches	Dr	W	Hi	S	mm	Dp	A3	B	mm <sup>2</sup>	kN	N		

## EUROPEAN SERIES

326BS	08B-3	12,70	1/2	8,51	7,75	11,85	1,63 / 1,40	13,92	4,45	44,30	52,10	156	51,95	3120	26	n/a
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## SPECIAL EXECUTIONS

### STRAIGHT SIDE PLATES



REGINA	ISO	PITCH		ROLLER DIAM.	INSIDE WIDTH	PLATE HEIGHT	PLATE THICKNESS	PIN DIAM.	PIN WIDTH	MAX WIDTH	WORKING SURFACE	AVERAGE TENSILE STRENGTH	MAX WORKING LOAD	LOOSE PARTS CONN. Link	OFFSET Link
ref	ref	mm	inches	Dr	W	Hi	S	Dp	A1	B	mm <sup>2</sup>	kN	N		

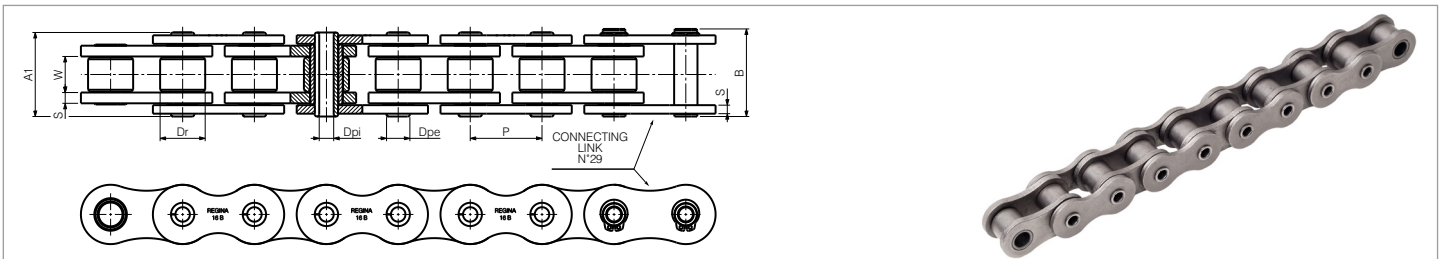
## EUROPEAN SERIES

C140BS	12B-1	19,05	3/4	12,07	11,68	16,13	1,85 / 1,70	5,72	22,50	30,00	89	33,00	1780	26	n/a
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## AMERICAN SERIES

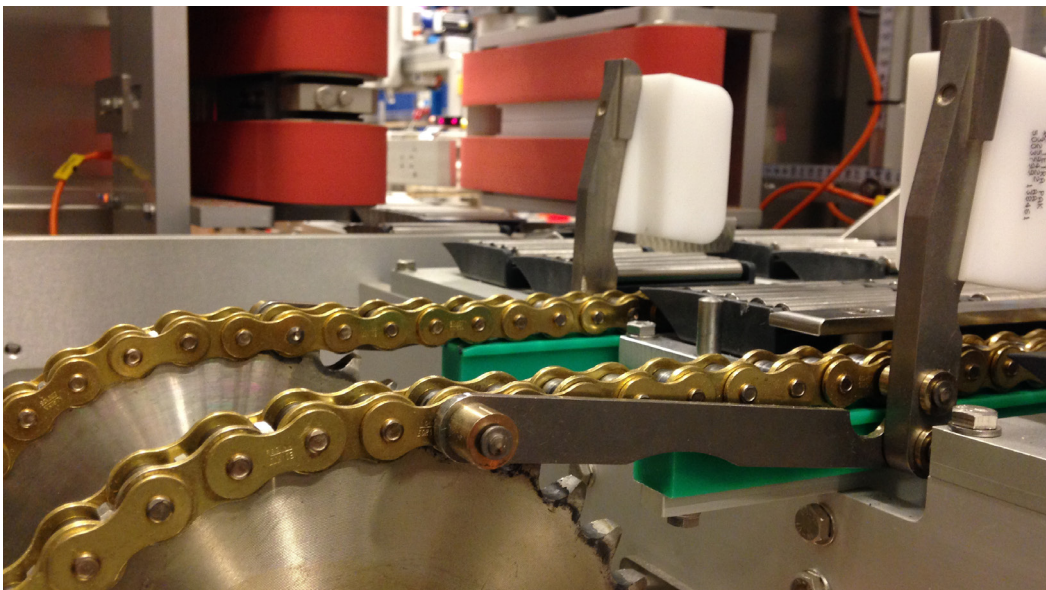
CA60BS	12A-1	19,05	3/4	11,91	12,57	18,08	2,30	5,96	25,80	33,00	105	37,25	2100	26	n/a
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## 1" NARROW HOLLOW PIN



REGINA	PITCH		ROLLER DIAM.	INSIDE WIDTH	PLATE HEIGHT	PLATE THICKNESS	OUTER PIN DIAM.	INNER PIN DIAM.	PIN WIDTH	MAX WIDTH	WORKING SURFACE	AVERAGE TENSILE STRENGTH	MAX WORKING LOAD	LOOSE PARTS CONN. LINK	OFFSET LINK
ref	mm	inches	Dr	W	Hi	S	Dpe	Dpi	A1	B	mm <sup>2</sup>	kN	N		
146PNC	25,40	1	15,88	12,70	21,05	3,80 / 3,00	8,28	5	29,60	30,85	173	36,20	3460	29	n/a

# EXAMPLES OF APPLICATIONS



## STANDARD ATTACHMENTS

Regina ENDURO chains can be equipped with the full range of attachments and extended pins available for standard chains (see General Catalogue for additional information on standard attachments). Unless otherwise specified, the attachment plate will be supplied in chemically nickel plated execution.

● Attachment plates



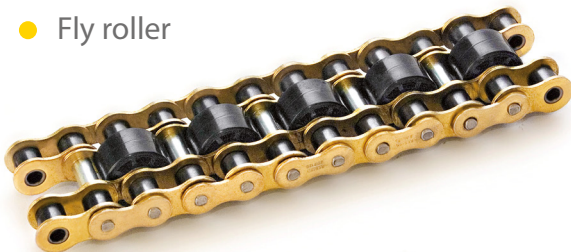
● Extended pins



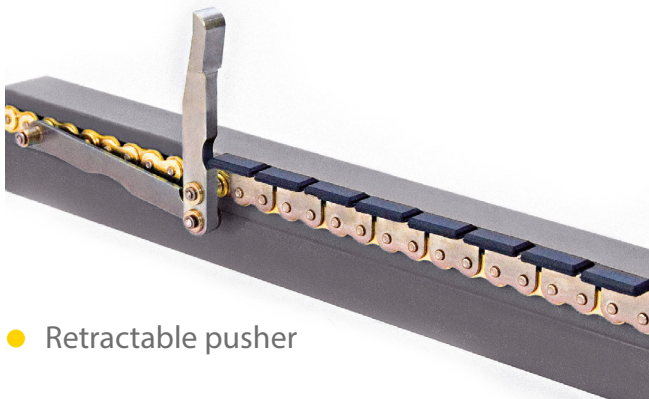
## SPECIAL CONFIGURATIONS

Regina ENDURO technology has shown extremely good results in several sectors, including packaging, automotive, medical, and tissue industry, where Regina has designed chains with special configurations in maintenance-free construction.

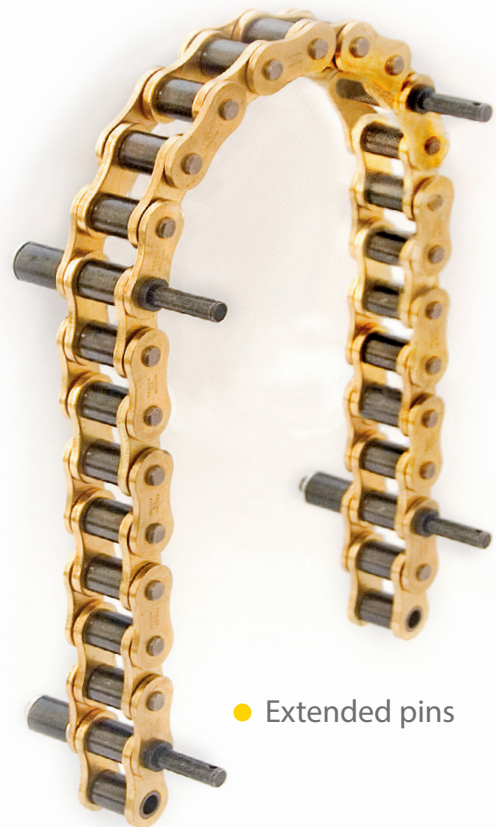
● Fly roller



● Retractable pusher



● Extended pins





## PERFORMANCE IN MOTION

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