

# REXTON<sup>®</sup> Transmission

THE ULTIMATE POWER



*Palm Oil Mill Industry*

## Why **REXTON**® Chains ?

In the demanding environment of palm oil processing, Rexton's high-performance conveyor chains are engineered to withstand the unique challenges where shock loading, heat, humidity, and abrasive conditions are present. Constructed from a combination of **high-grade alloy steel**, each material is carefully selected to withstand the specific loads that each component is exposed to.

### Chain Construction

**Pins** are crucial for connecting chain links and endure significant stress during operation. They face **shear forces** as loads are transmitted.

- **Large pin, bush, and roller diameter** increases bearing area, minimizing pitch extension.
- **Deep case-hardened pins** with all-round riveting maximize strength.

**Bushes** endure a high degree of rotational wear from the pin and roller.

- **Precision-machined from seamless tubes** to distribute stress evenly, reducing distortion and improving heat treatment results.
- **Case carburised inside and out** for better wear resistance.



**Side plates** handle **tensile forces** from loads and endure high tensile and fatigue stress.

- **Heat-treated and shot-peened** to enhance *tensile strength* while preserving ductility and toughness.
- **Precise pitch control** ensure alignment with sprockets and chain components, enhancing fatigue resistance.

**Rollers** face rolling friction and impact forces, requiring a **wear-resistant surface** while maintaining a tough core for impact absorption to avoid fracture.

- **Ground surface** reduces rolling friction.
- **Case hardened** for durability, with a **tough core** for impact resistance.

# Powering Each Stage of the Milling Process

To extract palm oil, fresh palm fruits undergo a series of processes that involve milling, sterilizing, threshing, decanting, purifying, and more. Rexton provides a complete solution for every stage of the palm oil milling process.



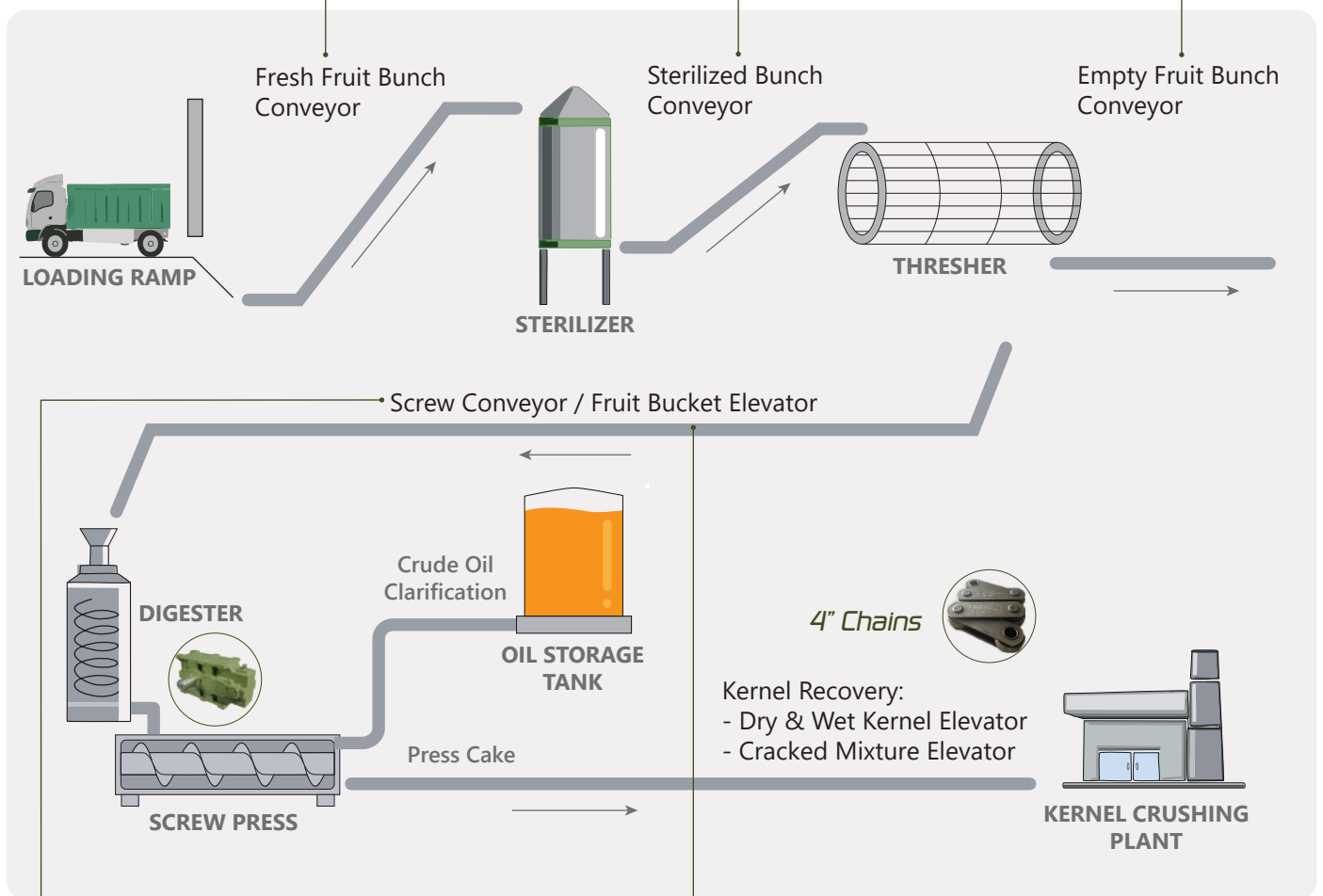
6" Extended Pin Chain



6" Extended Pin Chain



4" Extended Pin Chain



R Series Gearmotor



4" Extended Pin Chain

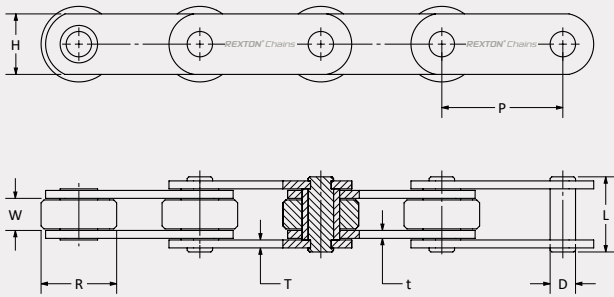


MN Series Planetary Drive

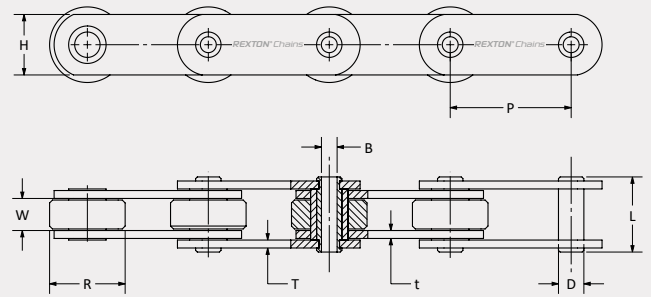
# Conveyor Chain

Reyton Palm Oil Mill Chains are available in Solid Pin, Hollow Pin, A2/K2 Attachment, and Extended Pin (EP) types. Hollow Pin chains offer flexibility for fitting various attachments. K2 attachments are typically configured every 4th or 6th link and commonly used in bucket elevators. The Extended Pin chain is a variation of the Solid Pin, with bolt-type links extended on one side for attaching buckets or scrapers.

Solid Bearing Pin



Hollow Bearing Pin



REYTON® Chain No.	Pitch	Breaking Load	Roller Diameter	Inside Width	Plate Height	Plate Thickness		Pin Diameter	Pin Length	Hollow Pin Bore	Mass
	inch	lbf	mm	mm	mm	mm	mm	mm	mm	mm	kg/m

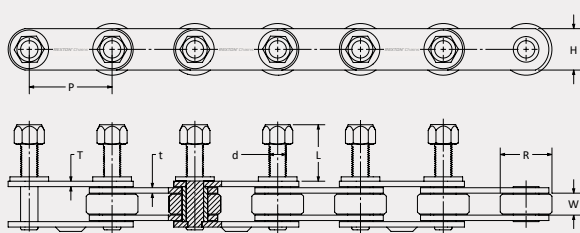
Solid Bearing Pin

	P		R	W	H	T	t	D	L	B	
SRC15040	4	36,000	47.6	19.0	38.1	3.8	5.1	19.0	46.0	-	6.43
SRCU15040	4	52,000	47.6	19.0	39.0	6.0	6.0	19.0	51.3	-	7.74
SRC30060	6	65,000	66.7	25.4	51.0	6.0	7.0	26.9	61.2	-	11.18
SRCU30060	6	75,000	66.7	25.4	51.0	8.0	8.0	26.9	68.1	-	12.86
SRC60060	6	100,000	88.9	38.0	51.0	9.0	10.0	26.9	74.1	-	17.90

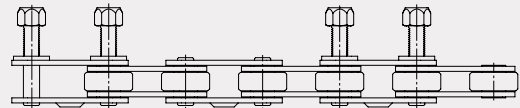
Hollow Bearing Pin

	P		R	W	H	T	t	D	L	B	
HRC12040	4	24,000	47.6	19.0	38.1	3.8	5.1	19.0	46.0	13.2	5.91
HRCU12040	4	45,000	47.6	19.0	38.1	6.0	6.0	19.0	52.1	13.2	7.23
HRC24060	6	51,000	66.7	25.4	51.0	6.0	7.0	26.9	60.0	20.1	10.91
HRCU24060	6	59,000	66.7	25.4	51.0	8.0	8.0	26.9	65.1	20.1	11.72

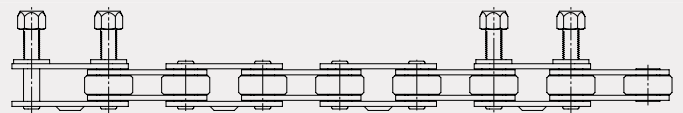
Extended Pin Chain



Every Link (EP)



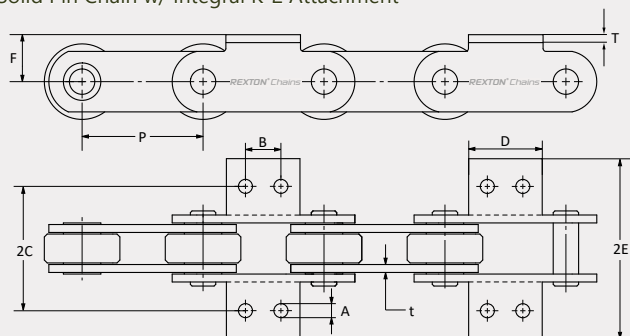
Every 4 Links (EP4)



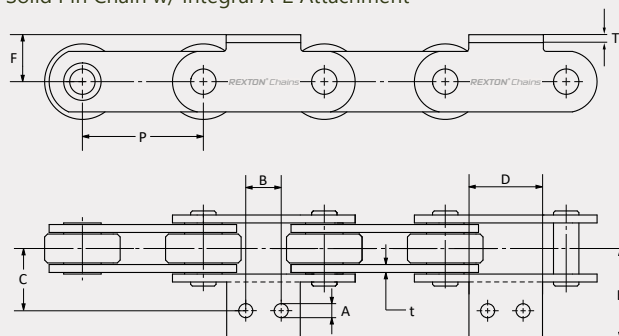
Every 6 Links (EP6)

REYTON® Chain No.	Pitch	Breaking Load	Roller Diameter	Inside Width	Plate			Extended Pin		Mass
	inch	lbf	mm	mm	Height	Thickness		Diameter	Length	kg/m
	P		R	W	H	T	t	d	L	
SRC15040 EP4	4	36,000	47.6	19.0	38.1	3.8	5.1	M16	29.1	6.65
SRC15040 EP6	4	36,000	47.6	19.0	38.1	3.8	5.1	M16	29.1	6.57
SRCU15040 EP4	4	52,000	47.6	19.0	38.1	6.0	6.0	M16	30.0	8.01
SRCU15040 EP6	4	52,000	47.6	19.0	38.1	6.0	6.0	M16	30.0	7.92
SRC30060 EP4	6	65,000	66.7	25.4	51.0	6.0	7.0	M20	45.0	11.51
SRC30060 EP6	6	65,000	66.7	25.4	51.0	6.0	7.0	M20	45.0	11.40
SRCU30060 EP4	6	75,000	66.7	25.4	51.0	8.0	8.0	M24	45.0	13.17
SRCU30060 EP6	6	75,000	66.7	25.4	51.0	8.0	8.0	M24	45.0	13.06

Solid Pin Chain w/ Integral K-2 Attachment



Solid Pin Chain w/ Integral A-2 Attachment

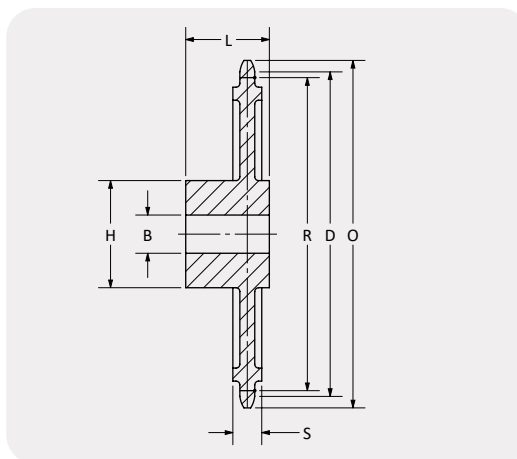


REXTON® Chain No.	Pitch inch	Breaking Load lbf	Hole Diameter mm	Hole Pitch mm	Transverse Pitch mm	Attachment			Plate Thickness		Mass per Att. kg/Att.
						Length mm	Width mm	Height mm	T	t	
	P		A	B	C	D	E	F	T	t	
SRC15040 K2/A2	4	36,000	10.7	31.8	44.5	63.5	65.0	31.8	3.8	5.1	0.127
SRUC15040 K2/A2	4	52,000	10.7	31.8	44.5	63.5	65.0	31.8	6.0	6.0	0.172
SRC30060 K2/A2	6	65,000	12.3	57.2	58.08	107.0	77.0	38.1	6.0	7.0	0.240
SRUC30060 K2/A2	6	75,000	12.3	57.2	59.08	107.0	78.0	38.1	8.0	8.0	0.318

## Conveyor Sprockets

Reyton sprockets are available in **cast iron, ductile iron, and cast steel** as standard. The tooth flanks can be further *flame hardened* for increased wear resistance. These are suitable for the majority of applications, and are designed to withstand heavy loads and harsh conditions.

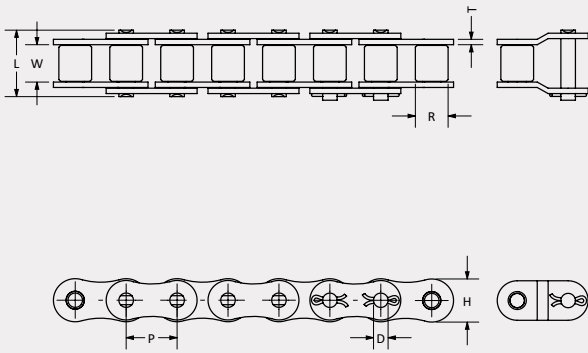
For extremely demanding applications, we also offer **carbon steel** sprockets, ensuring enhanced wear and shock resistance. Each material option is tailored to provide the best fit for different operational needs in the palm oil industry.



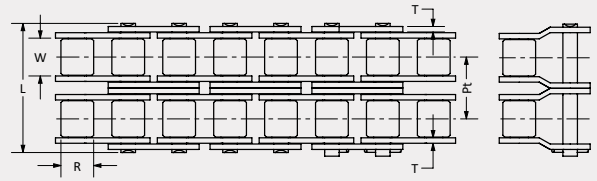
REXTON® Sprocket No.	Tooth Pitch inch	Roller Diameter mm	Number of Teeth	Pitch Circle Diameter mm	Outside Diameter mm	Root Diameter mm	Shroud Width mm	Bore Dia.		Hub Diameter mm	Bore Length mm
								Min	Max		
	P			D	O	R	S	B <sub>min</sub>	B <sub>max</sub>	H	L
SRC15040	4	47.6	8T	266	286	218	32	38	70	127	70
			10T	329	355	281	32	45	75	135	73
			12T	393	415	345	32	48	80	140	75
SRC30040	4	66.7	8T	266	290	199	38	48	85	152	83
			10T	329	355	262	38	48	90	155	90
			12T	393	420	342	38	55	95	165	95
SRC30060	6	66.7	8T	398	423	332	38	55	95	165	95
			10T	493	520	426	38	60	110	180	100
			12T	589	617	522	38	60	110	196	130
			16T	781	824	714	38	60	110	200	125
			20T	974	1020	907	38	60	110	220	140
			21T	1023	1074	955	38	60	110	220	140

# Transmission Chain

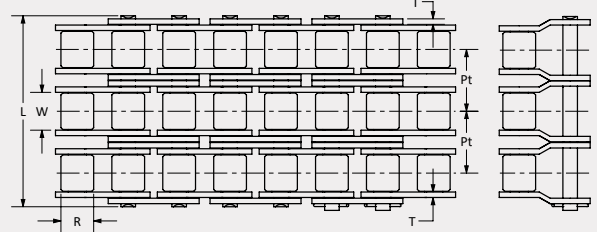
## Simplex



## Duplex



## Triplex



ANSI Chain No.	Pitch		Roller Diameter	Inside Width	Side Plate		Pin		Transverse Pitch	Ave. Tensile Strength	Average Weight
	P	R			W	H	T	D			

	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg / m
*35-1								12.40	-		10.8	0.33
*35-2	9.53	3/8	5.08	4.77	9	1.30	3.58	22.5	10.13		19.7	0.63
*35-3								32.7	10.13		28.6	1.05
40-1								16.60	-		17.5	0.62
40-2	12.70	1/2	7.95	7.85	12	1.50	3.96	31.0	14.38		35.9	1.12
40-3								45.4	14.38		50.3	1.90
50-1								20.70	-		29.4	1.02
50-2	15.88	5/8	10.16	9.40	15.09	2.03	5.08	38.9	18.11		58.1	2.00
50-3								57.0	18.11		77.8	3.09
60-1								25.90	-		41.5	1.50
60-2	19.05	3/4	11.91	12.57	18	2.42	5.94	48.8	22.78		82.1	2.92
60-3								71.5	22.78		111.1	4.54
80-1								32.70	-		69.4	2.60
80-2	25.40	1	15.88	15.75	24	3.25	7.92	62.7	29.29		141.8	5.15
80-3								91.7	29.29		198.4	7.89
100-1								40.40	-		109.2	3.91
100-2	31.75	1 1/4	19.05	18.90	30	4	9.53	76.4	35.76		219.4	7.80
100-3								112.2	35.76		309.6	11.77
120-1								50.30	-		156.3	5.62
120-2	38.10	1 1/2	22.23	25.22	35.7	4.8	11.1	95.8	45.44		314.9	11.70
120-3								141.4	45.44		437.2	17.53
140-1								54.40	-		212.0	7.50
140-2	44.45	1 3/4	25.40	25.22	41	5.6	12.7	103.3	48.87		427.5	15.14
140-3								152.2	48.87		593.3	22.20
160-1								64.80	-		278.9	10.10
160-2	50.80	2	28.58	31.55	47.80	6.4	14.27	123.3	58.55		562.4	20.14
160-3								181.8	58.55		780.6	30.02
180-1								72.80	-		341.8	13.45
180-2	57.15	2 1/4	35.71	35.48	53.6	7.2	17.46	138.6	65.84		695.0	29.22
180-3								204.4	65.84		983.6	38.22
200-1								80.3	-		431.6	16.15
200-2	63.50	2 1/2	39.68	37.85	60	8	19.85	151.9	71.55		877.4	32.24
200-3								223.5	71.55		1217.8	49.03
240-1								95.50	-		622.5	23.20
240-2	76.20	3	47.63	47.35	72.39	9.5	23.81	183.4	87.83		1255.3	45.23
240-3								271.3	87.83		1756.5	71.60

## Drives & Couplings

In addition to chains and sprockets, Rexton's comprehensive product range includes gearmotors, industrial gears, electric motors, and couplings. Power transmission in palm oil extraction and kernel processing faces tough demands, and our solutions are engineered for reliable performance at every stage. We deliver a complete power transmission solution for the palm oil mill industry.

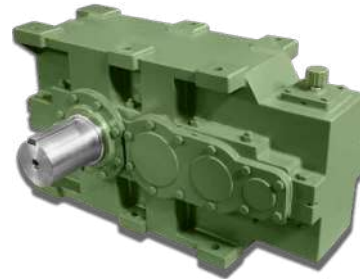
### RH/RB Series



Large-sized Helical & Helical-Bevel Gear Unit. Sizes 6-10 are commonly used for the industry, with power ratings ranging from **15 to 30 kW**. Can be mounted horizontally or vertically, suitable for applications such as:

- Large-sized conveyors - RH3SH
- Digesters - RH3SV
- Thresher - RH3SH

### RDF Series



Heavy-Duty Helical Gearbox engineered for the palm oil industry. Delivers **strong torque transmission** and exceptional reliability, ideal for the rigorous demands of palm oil presses.

Applications:

- Screw Press
- Empty Fruit Bunch Press
- Kernel Expeller Drive

### MN Planetary Series



Power Range: 0.25 to 300 kW | Gear Ratios:  $i = 12.5$  to 3,000

Rexton's Planetary Gears offer high torque capacity within a compact body, utilising the **high torque-density** of planetary gear systems. The MN series can also be coupled as a gearmotor, ideal for applications where space is limited.

### Helical Gearmotor



Power Range: 0.12 to 160 kW | Gear Ratios:  $i = 3.21$  to 289.74

Rexton's helical gearmotors are **highly efficient** and **versatile** for all your power transmission needs. Commonly used to drive screw conveyors and medium to large-sized conveyors in the palm oil industry.

### AC Induction Motor



Rexton's asynchronous motors are designed and built according to **IEC60034-1 standards**.

- Available in 2,4,6, & 8 pole speeds
- Aluminium or cast iron housing
- Up to IE3 & 4 efficiency

### Couplings



#### Flexible Coupling - FCL

A highly versatile coupling that provides excellent **vibration damping** through its rubber elements. Ideal for high-speed applications like pumps and compressors where smooth operation is essential.

- Up to 4000 rpm
- Up to 45,000 Nm of torque



#### Chain Coupling

The chain coupling is capable of **high torque transmission** in **rugged environments**, while accommodating for slight misalignments. Perfect for heavy-duty applications such as conveyors and mixers.

- Shaft Sizes: 12 to 700 mm
- Up to 717,000 Nm of torque

# SALES



## PT. BUANA RANTAI BERKAT ABADI

*Specialized In Mechanical Power Transmission :*

*Roller Chain, Conveyor Chain, Sprocket, Geared Motor, Electric Motor,  
Gear Speed Reducer, Chain Coupling, Flexible Coupling, Taper Bush, Conveyor Belt*

### MEDAN

Jl. Dr. Sutomo No.165 B  
Medan 20214, Sumatera Utara  
Tel. (62-61) 736 6578 (Hunting)  
Fax. (62-61) 736 1450, 732 4848

Ruko Centre Point  
Jl. Timor Blok H No. 17 - 18  
Medan 20231, Sumatera Utara  
Tel. (62-61) 8051 0486, 8051 0487

### JAKARTA

Jl. Katamaran Indah 2 No. 27  
Jakarta Utara  
Tel. (62) 819 7888 168  
(62) 851 0243 2607

### SAMPIT

Jl. Jend. Sudirman No. 40-A Km. 1,5  
(Jalan Raya Sampit - Pangkalan Bun)  
Sampit, Kalimantan Tengah  
Tel. (62-531) 2060119

### PEKANBARU

Jl. Riau Ujung No. 242  
Pekanbaru, Riau  
Tel. (62-761) 862348  
Fax. (62-761) 858548

### PALEMBANG

Jl. Letjen Harun Sohar No. A-08 RT.045 RW.10  
Kel. Kebun Bunga, Kec. Sukarami  
Palembang - Sumatera Selatan  
Tel. (62-711) 5611712

### SURABAYA

Kompleks Pergudangan SiRIE Blok E No. 18  
Jl. Raya Lingkar Timur Km. 5,5 - Rangkah Kidul, Kec. Sidoarjo, Kab. Sidoarjo, Jawa Timur

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**THE ULTIMATE POWER ENGLAND**

# GUARANTEE