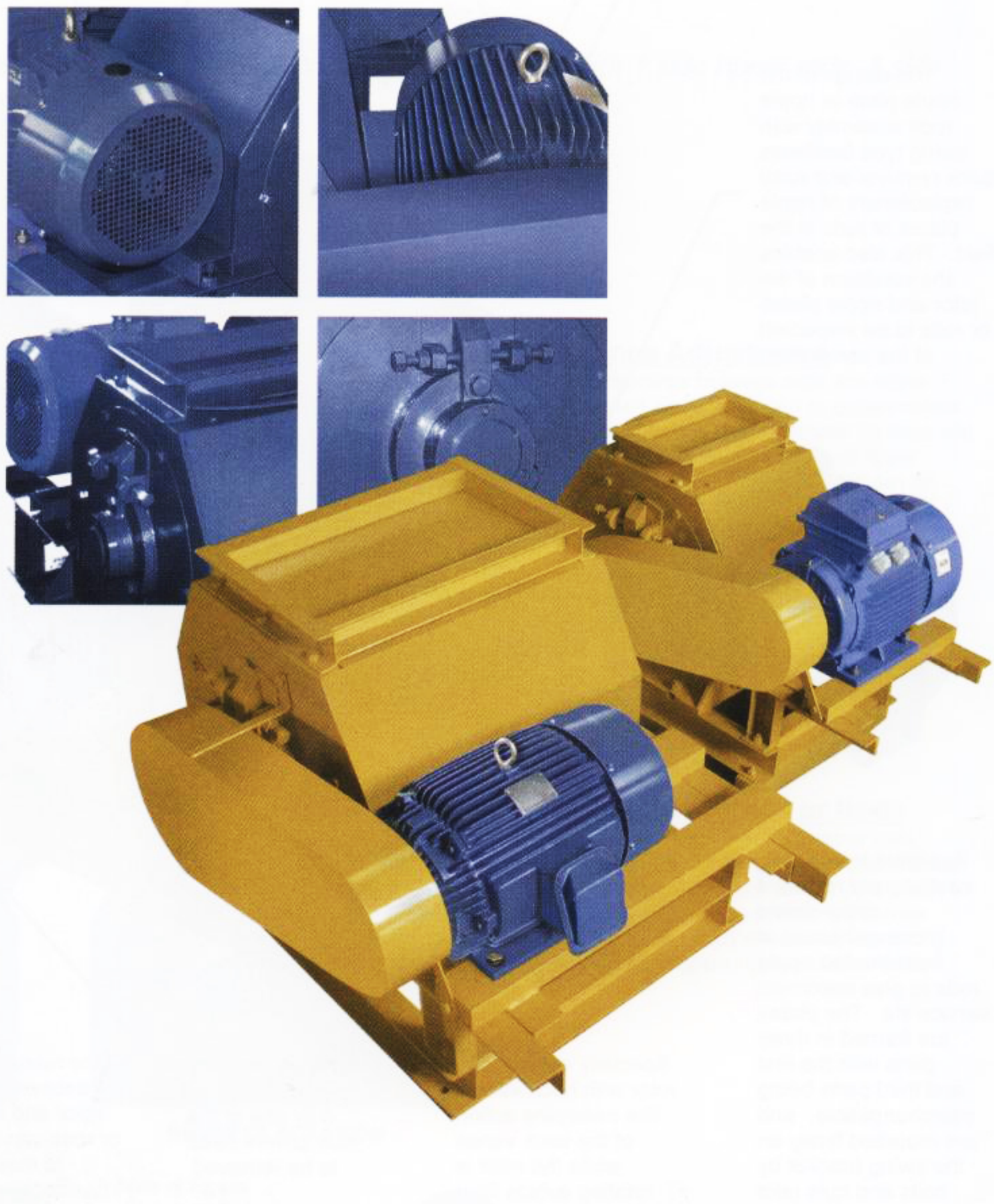
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ISO 9001 : 2000
Certificate:
04100 2002 1779 E5

QUALITY
MANAGEMENT
SYSTEM

Enterprise 50
2006

KEWCRACKER

NUT CRACKING MACHINE

Patent No. MY-126292-A

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DESIGN FEATURES

Cast Iron body frame. Rigid and solid construction ensures lower operational noise level.

Insertion of replaceable wear plates on the side covers protect the cast iron side cover from being abraded.

The design of the ripple plate or ripple rods assembly with swing type facilitates quick removal and easy replacement of ripple plates or rods in the field. This also enables the condition of the rotor and ripple plates or rods to be inspected at the same time.

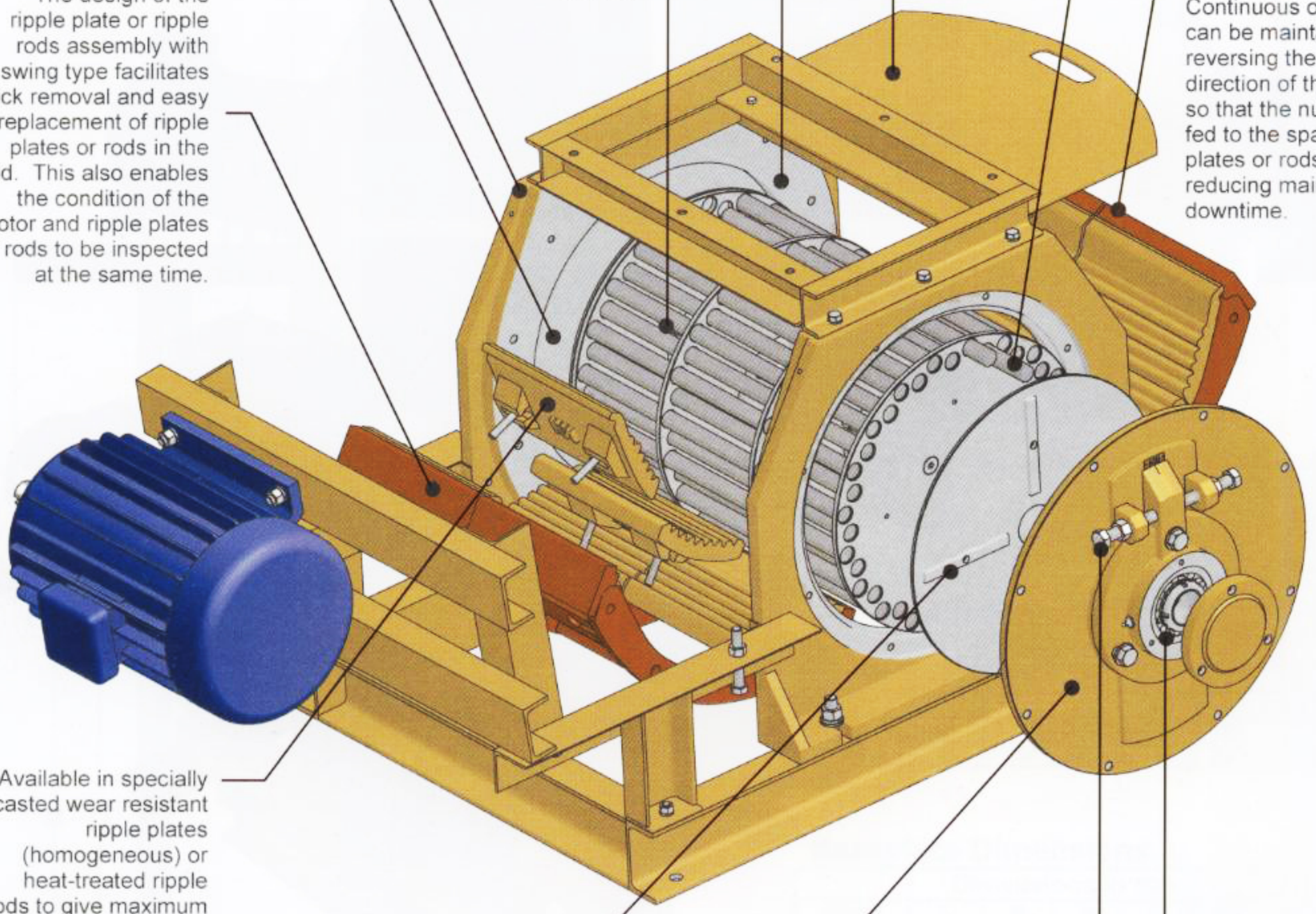
The rotor consists of 34 (KCM-4T & 6T) or 40 (KCM-8T) heat-treated wear resistant steel rods, to minimize the clearance of the rods to avoid the nuts of smaller size being uncracked and to provide higher cracking efficiency. Different diameter or number of rotor rods also available upon request.

Vertical feed and discharge ensures nuts will flow through cracking process more freely.

The hopper consists of slide gate to control nut feeding volume.

The outer and inner row rods are interchangeable and can be replaced just by removing one outer disc end cover instead of removing and dismantling the whole rotor section.

For models with "2 sides cracking", spare ripple plates or rods are included as standard. Continuous operation can be maintained by reversing the rotation direction of the rotor so that the nuts are fed to the spare ripple plates or rods, hence reducing maintenance downtime.



Available in specially casted wear resistant ripple plates (homogeneous) or heat-treated ripple rods to give maximum service life. The plates are formed in three parts with the first and third parts being interchangeable, and are mounted firmly on the swing bracket by bolts and nuts (slot type). The patented 3 plates feature compared to one full-length plate reduces replacement costs as each of the 3 plates may be replaced individually as required. Replacement downtime is also reduced as whole rotor need not be dismantled to replace either of the 3 plates.

Specially constructed rotor with back vanes. The sweeping action of the back vanes while the rotor is rotating avoids fibre and dirt being trapped and accumulated on the side covers.

To remove the rotor for maintenance, only one of the side covers need to be removed.

The running clearance between the rotating rotor and ripple plates or rods can be adjusted to maintain higher cracking efficiency.

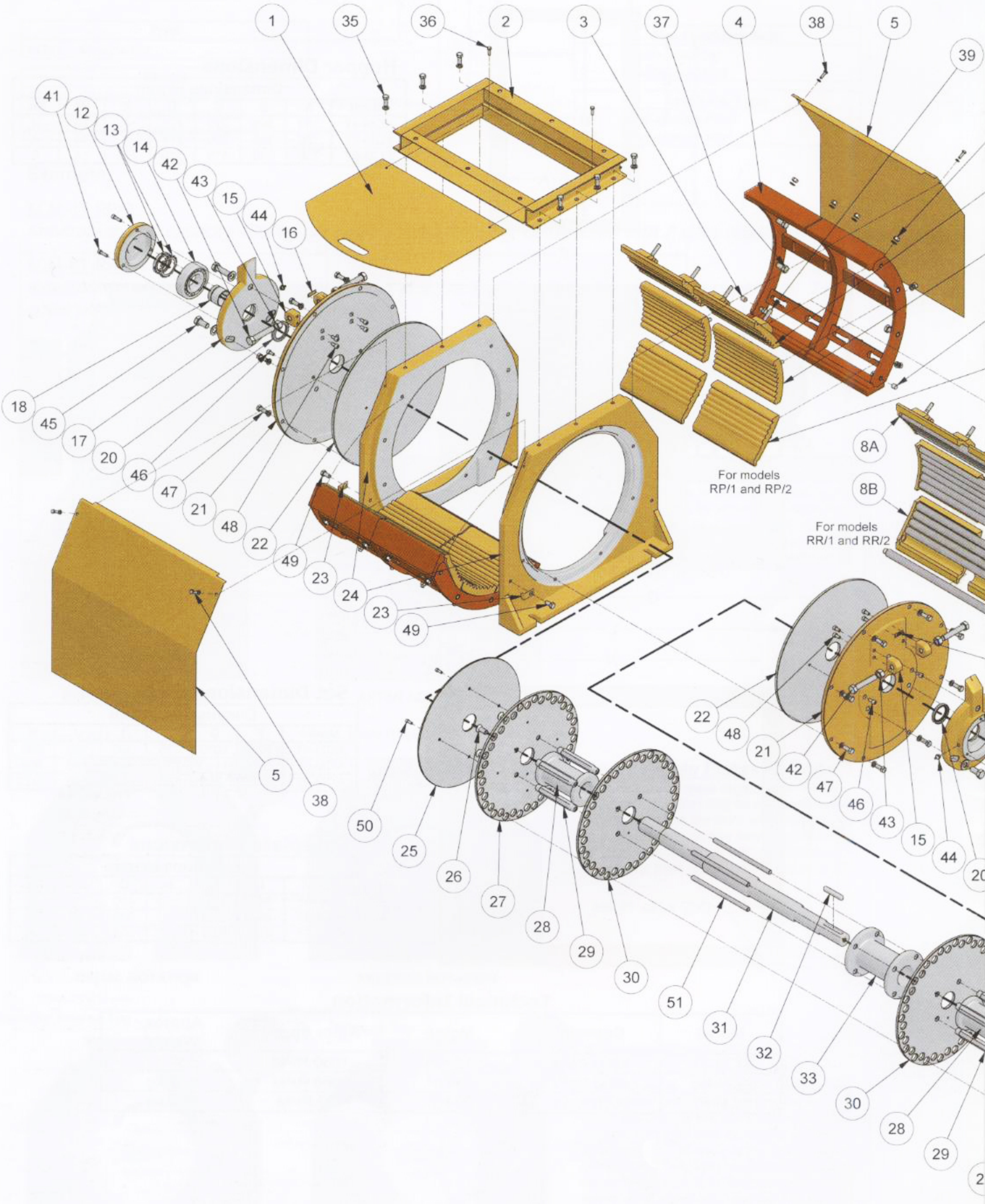
Heavy duty self alignment double row ball bearings with adaptor sleeves are used for easy removal and assembly. Over heating of bearings due to misalignment is eliminated.

Product specifications subject to change without prior notice.

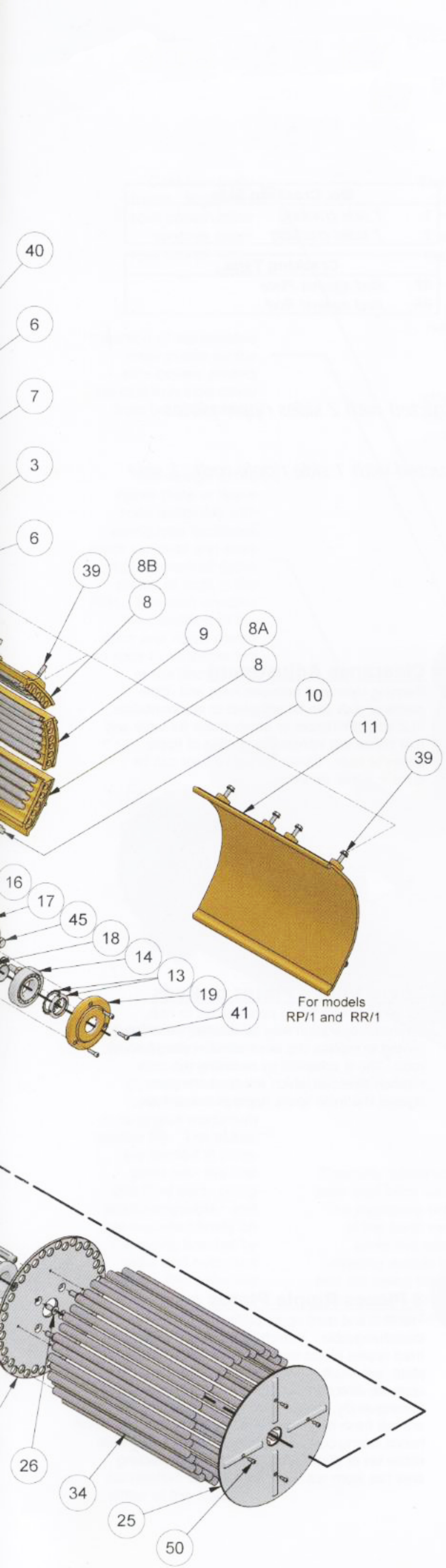
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PARTS LIST



Product specifications subject to change without prior notice.



Item No.	Part No.	Description	Quantity
1	KCM.28	Hopper Slide Gate	1
2	KCM.27	Hopper	1
3	KCM.26	Bracket Bushing	4
4	KCM.2	Swing Bracket	2
5	KCM.29	Main Frame Support Cover	2
6	KCM.11	Side Ripple Plate	2 each side (KCM-4T & 6T) 4 each side (KCM-8T)
7	KCM.12	Centre Ripple Plate	1 each side (KCM-4T & 6T) 2 each side (KCM-8T)
8*	KCM.24	Side Rod Support Plate	2 each side (KCM-4T & 6T)
8A**	KCM.24-A	Side Rod Support Plate - A	2 each side (KCM-8T)
8B**	KCM.24-B	Side Rod Support Plate - B	2 each side (KCM-8T)
9	KCM.25	Centre Rod Support Plate	1 each side (KCM-4T & 6T) 2 each side (KCM-8T)
10	KCM.23	Ripple Rod	18 each side (KCM-4T & 6T) 16 each side (KCM-8T)
11	KCM.31	Cover Plate	1 each side
12	KCM.4-OUT	Outboard Bearing Cover	1
13	KCM.15	Adaptor Lock Nut	2
14	KCM.6	Bearing	2
15	KCM.22	Adjustment Bracket	4
16	KCM.33	Adjustment Indicator	2
17	KCM.3	Bearing Housing	2
18	KCM.14	Bearing Adaptor Sleeve	2
19	KCM.4-IN	Inboard Bearing Cover	1
20	KCM.13	Dust Seal	2
21	KCM.8	Side Cover	2
22	KCM.9	Side Cover Wear Plate	2
23	KCM.30	Main Frame Support Cover Holder	2
24	KCM.1	Main Frame Support	2
25	KCM.19	Outer Disc End Cover	2
26	KCM.7	Disc Fastener	8
27	KCM.21	Outer Disc	2
28	KCM.16	Side Rotor Disc Spacer Ring	2
29	KCM.18	Disc Lock Nut	8
30	KCM.20	Rotor Disc	2
31	KCM.5	Rotor Shaft	1
32	KCM.32	Shaft End Key	1
33	KCM.17	Centre Rotor Disc Spacer Ring	1
34	KCM.10	Rotor Rod	34 (KCM-4T & 6T) 40 (KCM-8T)
35	--	Hopper Bolt	4 (KCM-4T & 6T) 6 (KCM-8T)
36	--	Hopper Slide Gate Bolt	2
37	--	Swing Bracket Bolt	16
38	--	Main Frame Support Cover Bolt	4
39	--	Plate Holding Bolt	6 each side (KCM-4T & 6T) 12 each side (KCM-8T)
40 ***	--	Plate Holding Nut	6 each side (KCM-4T & 6T) 12 each side (KCM-8T)
41	--	Bearing Cover Screw	6
42	--	Adjustment Bolt	4
43	--	Adjustment Jam Nut	4
44	--	Grease Nipple	2
45	--	Bearing Housing Bolt	6
46	--	Side Cover Wear Plate Screw	4
47	--	Side Cover Bolt	12 (KCM-4T & 6T) 16 (KCM-8T)
48	--	Adjustment Bracket Screw	8
49	--	Main Frame Support Cover Holder Bolt	2
50	--	Outer Disc End Cover Screw	8
51	--	Disc Stud	4

* For models KCM-4T and KCM-6T
** For models KCM-8T
*** Not available for cover plate side in models RP/1 and RR/1

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MODEL DESIGNATION

KCM-6T RR/1

Type	
KCM:	*Kewcracker*

Model	
4T:	*Capacity 4000kg per hour*
6T:	*Capacity 6000kg per hour*
8T:	*Capacity 8000kg per hour*

No. Cracking Side	
1:	*1 side cracking*
2:	*2 sides cracking*

Cracking Type	
RP:	*Rod against Plate*
RR:	*Rod against Rod*

Example:

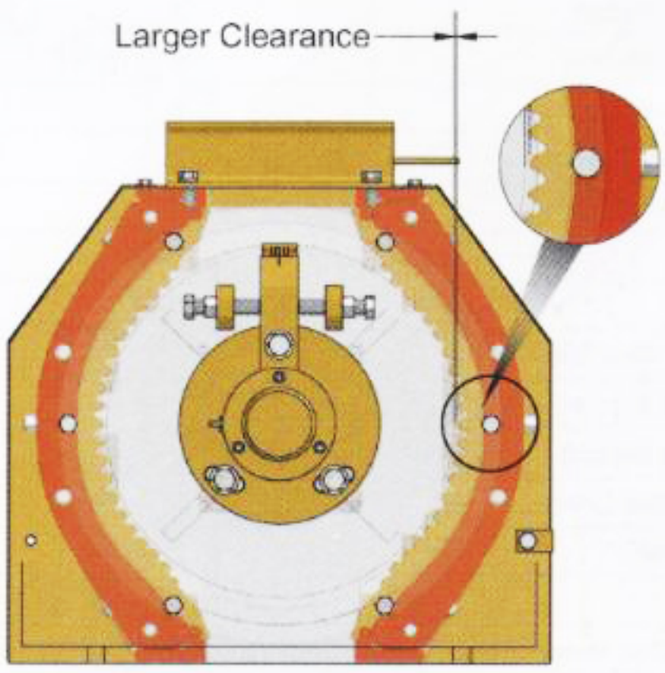
KCM-4T RP/2

Kewcracker with capacity 4000kg per hour, 2 sides cracking, constructed with 2 sides ripple plates.

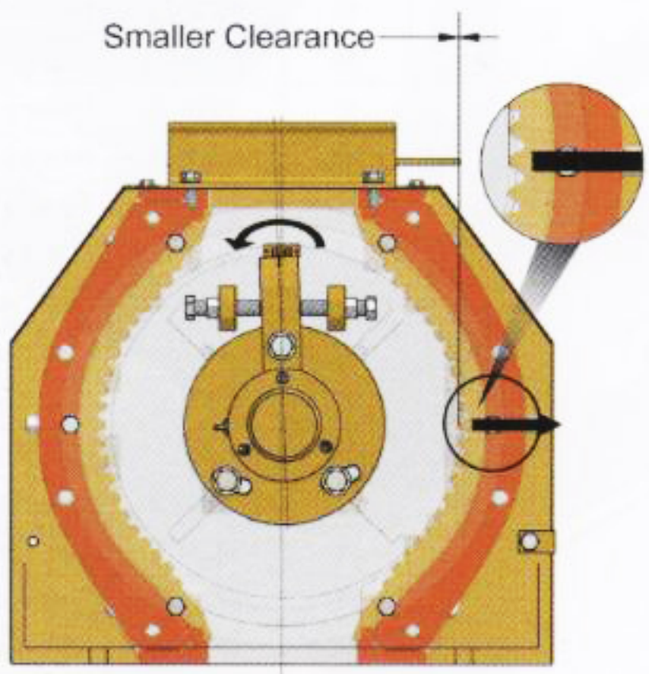
KCM-8T RR/1

Kewcracker with capacity 8000kg per hour, 1 side cracking, constructed with 1 side ripple rods, 1 side cover plate.

COST SAVING FEATURES



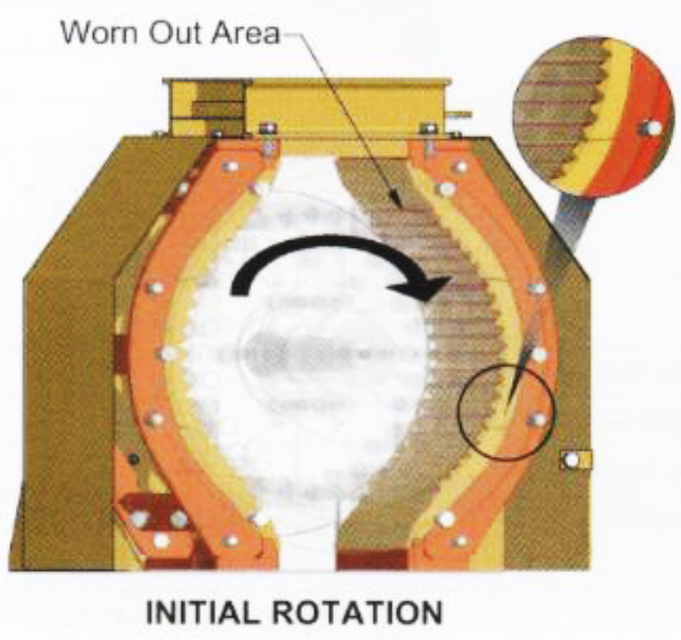
BEFORE ADJUSTMENT



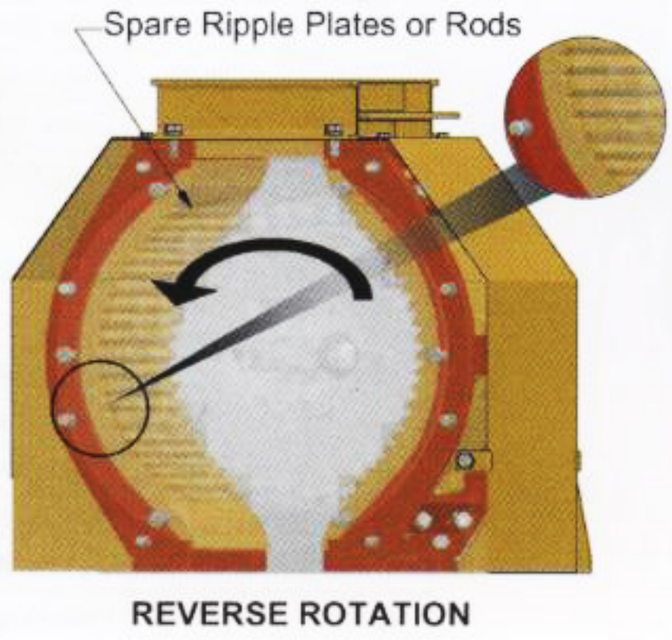
AFTER ADJUSTMENT

Clearance Adjustment

Running clearance between rotor and ripple plates or rods can be adjusted to accommodate fruit size differences or compensate for wear and tear hence will increase useful life of ripple plates or rods. Clearance adjustment can be done in either direction.



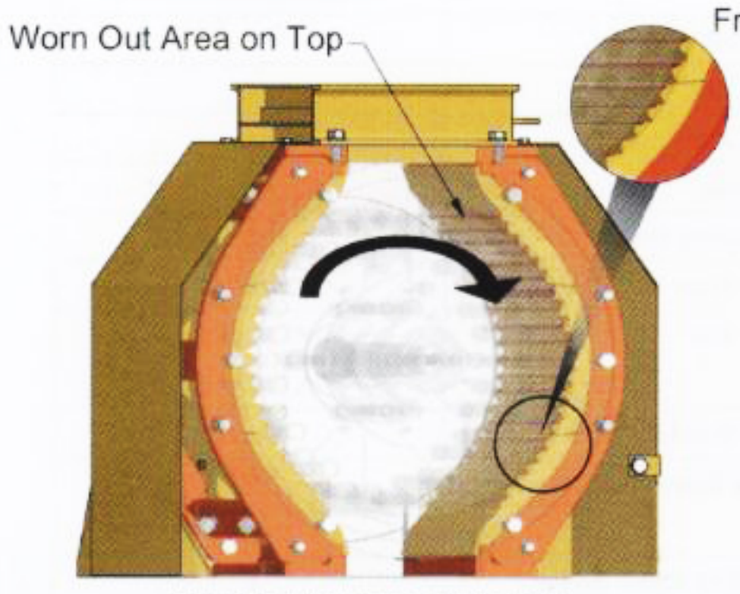
INITIAL ROTATION



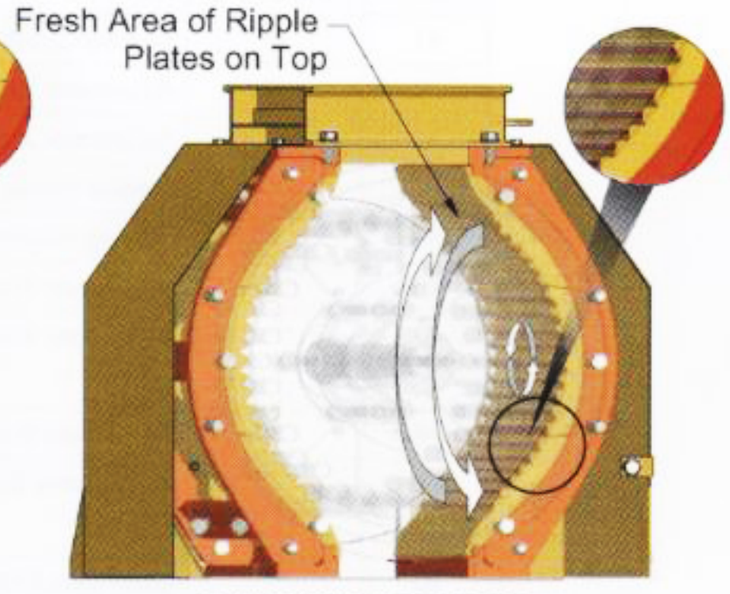
REVERSE ROTATION

Spare Ripple Plates or Rods

For models with spare ripple plates or rods, continous operation may be maintained without having to replace the worn set of ripple plates or rods. The is achieved by reversing the rotor rotation direction which will crack the nuts against the fresh spare ripple plates or rods.



BEFORE INTERCHANGE



AFTER INTERCHANGE

3 Pieces Ripple Plates

The first and third ripple plates are interchangeable. Interchanging the first and third ripples plates while rotating the second plate, will result in the worn out areas facing the opposite direction from its original position. Consequently, the areas of the ripple plate which are still fresh may now be utilised for cracking, hence saving cost from having to replace the entire set of plates after just the initial cracking area has worn out.

Product specifications subject to change without prior notice.

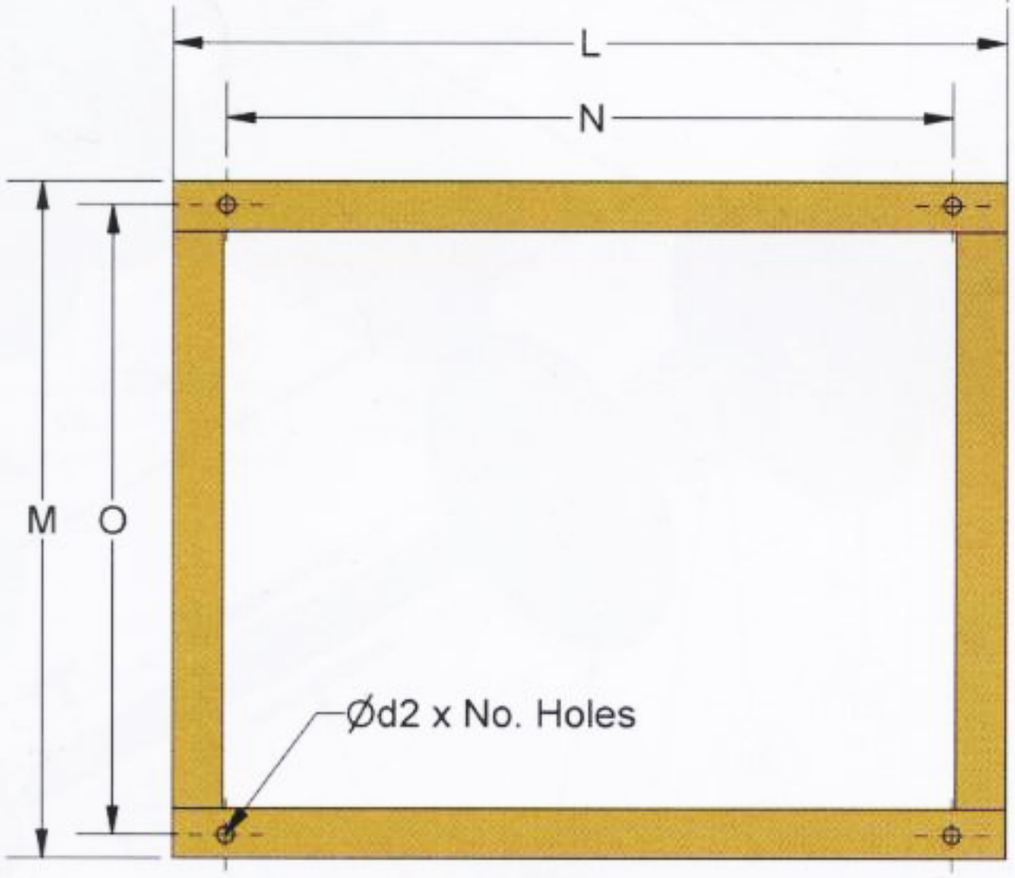
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GENERAL DIMENSIONS

Hopper Dimensions

Dimensions in mm							
Model	**A**	**B**	**C**	**D**	**E**	**d1**	**No.**
KCM-4T	160	305	220	225	--	14	4
KCM-6T	160	355	220	275	--	14	4
KCM-8T	330	610	410	510	255	14	6



Set Dimensions

Dimensions in mm						
Model	**F**	**G**	**H**	**I**	**J**	**K**
KCM-4T	620	1070	725	390	190	650
KCM-6T	620	1110	725	440	190	700
KCM-8T	750	1295	865	710	225	1010

Baseplate Dimensions

Dimensions in mm						
Model	**L**	**M**	**N**	**O**	**d2**	**No.**
KCM-4T	850	530	750	490	16	4
KCM-6T	850	580	750	540	16	4
KCM-8T	1050	860	915	800	21	4

Technical Information

Model	Capacity	Motor	Rotor Speed	Approx. Weight
KCM-4T	4000 kg/hr	10 HP	1080 RPM	530 kg
KCM-6T	6000 kg/hr	15 HP	1080 RPM	580 kg
KCM-8T	8000 kg/hr	20 HP	920 RPM	960 kg

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Product specifications subject to change without prior notice.

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