

## SPECIFICATIONS

Model	KCN480W	KCN480T	KCN600W	KCN600T	KCN600F
Wood material	logs				
No. of cuts per rotation	2	3	2	3	4
Spout size	480 x 480 mm		600 x 600 mm		
Disk diameter	2160 mm		2650 mm	2900 mm	
Disk Speed	≒250min. <sup>-1</sup>				
Infeeding	inclined downward chain conveyor, 3.7kW				
No. of knives	16 pcs	24 pcs	22 pcs	33 pcs	24 pcs
Knife size (mm)	W80				W80,W240,W320
Elec. motor	90 ~ 110kW	110 ~ 160kW	110 ~ 160kW	190 ~ 220kW	250 ~ 315kW
Capacity(solid wood volume) *1	approx. 14m³ sub/h	approx. 21m³ sub/h	approx. 21m³ sub/h	approx. 32m³ sub/h	approx. 42m³ sub/h

Model	KCN700W	KCN700T	KCN800W	KCN800T	KCN8050-4
Wood material	logs				
No. of cuts per rotation	2	3	2	3	4
Spout size	700 x 700 mm		800 x 800 mm		800 x 500mm
Disk diameter	3200 mm		3500 mm		2900 mm
Disk Speed	≒250 min. <sup>-1</sup>				
Infeeding	inclined downward chain conveyor, 5.5kW				
No. of knives	18 pcs	27 pcs	30 pcs	45 pcs	8 pcs
Knife size (mm)	W80, W240		W80		W440
Elec. motor	220 ~ 315kW	280 ~ 355kW	315 ~ 355kW	400 ~ 500kW	280 ~ 355kW
Capacity(solid wood volume) *1	approx. 28m³ sub/h	approx. 42m³ sub/h	approx. 35m³ sub/h	approx. 53m³ sub/h	approx. 70m³ sub/h

\*1: estimated on a basis of 150 mm average log diameter, 22 mm chip size, 60 % of chipping efficiency

- Please inquire of us about higher capacity chippers not listed on the above table
- Either chip-top discharging or chip-bottom discharging can be selected.
- The specifications and photographs in this brochure are subject to change without prior notices.
- Re-chippers for re-chipping of over-size chips are available as model RCS-L and BC.

Note: The specifications shown in this brochure and in the photos are subject to change without prior notices.



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DISTRIBUTOR :

# FUJI KING CHIPPER



Handles from large to small diameter logs, efficiently with less power. Stands unchallenged in chip quality and yield rate. A low disk rotation speed enables minimal operation noise and vibration.

Technology, proven in the experience of over 270 installations worldwide to pulp mills, satellite chip mills, sawmills, and wood-based board industry.





# FUJI KING CHIPPER MODELS INCORPORATE A NEW CUTTING SYSTEM

## OUR CUTTING SYSTEM

The disk's low rotation speed enables attaining such as large-size intake spout and low power consumption.

### STAGGERED KNIFE-ARRANGEMENT OF NARROW-WIDTH CUTTING-KNIVES (PAT.), GREATLY REDUCES AMOUNT OF OVERSIZE CHIPS AT LOW DISK ROTATION SPEED, and IMPROVES YIELDS

Chip thickness comes approx. 3 - 5 mm and chip size is kept uniform to be high quality chips. Chipping with the staggered arrangement of narrow-width small knives is a unique style and such as large diameter logs and hard-to-chip wood are chipped well into uniform width and thickness, at low disk rotation speeds. The knife arrangement is designed to be able to offer less shock than other type chippers which have large-width knives.



### UNIQUE CONCEPT OF CHIPPING IN OUTWARD DIRECTION

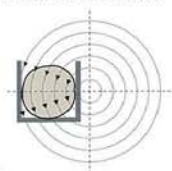
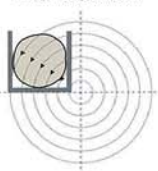
**Fuji King Chipper** is designed to enable chipping from large to small logs under extremely stable conditions created by use of the effective "outward cutting force" afforded by best combinations of following factors.

- The method "Outward Cutting" force
- Intake-spout and infeeding chain conveyor, which elaborately have 3-dimensional inclinations
- Knife-arrangement in unique geometry of Cutting-knives and Bed knife

As often seen in other types of chippers that, knives are cutting in the outward direction as they cut into the log, but subsequently start cutting in the inward direction, once they are passing halfway through the log thickness, causing the log to rock and creating unstable cutting conditions.

: Fuji King Chipper

: Other types of chipper



▲ Outward cutting

▲ Outward-inward cutting

### CONCEPT OF SEPARATED SMALL KNIVES

- Dispersion of cutting load allows easy cutting of large logs with low horsepower and saves power consumption.
- Separated cutting-knives keeps lower labor costs and safer maintenance due to easy handling. This also enables replacing and re-shaping only the worn knives.
- Chipping noise is kept lower, for environmental attention.



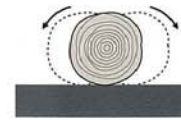
### TAPER KNIFE HOLDER

The cut surface of the log moves along the slope of tapered knife holders and makes smooth contact with the disk face. This avoids any kick or leap of the log and eventually gives uniformity in the chip size.



### RIDGED EDGE BED KNIFE

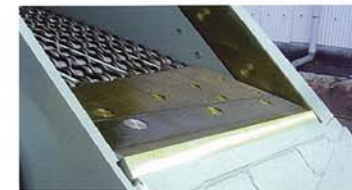
By effectiveness of the slots or grooves being cut into the ridged edges, fed logs are held firmly with little side-slippage to have high quality chips produced. This particularly works vital to chipping of thin, hard and frozen logs.



▲ Flat bed knife



▲ Ridged edge bed knife



### LARGE SIZES DISK GIVES BIG FLYWHEEL EFFECT

By force of rotational inertia of the thick and large diameter disk, large logs are cut with no strain, and chipping energy is saved at low rotation speed.



### EXCEPTIONAL DURABILITY

The disk surface is vital to the service life of the chipper. **Fuji King Chipper's** 25mm thick replaceable wear plates cover the whole disk surface, and Cutter opening (see photo below) are fitted with removable cutter edges, so that the disk surface is protected far from wear and keeps the longer service life. **Fuji King Chipper's** main body is designed for high durability and robustness, being much heavier than other chippers of similar class.

### CHAIN LOG-INFEEDING SYSTEM

For the production of high quality chips, the unit of infeeding chain conveyor is in the special design which has 3-dimensional inclinations (front-downward the intake-spout along the direction of log flow, as well as outward the corner close outside the spout's inlet) to regulate the flow of the mixture of large to medium or small size logs in the proper forwarding direction and transport them in a right angle to a rotating disk. By this function, fed logs tend to get together and transported at the corner close outside the inside of the spout, to be stably chipped over being kept pushed to the spout's inner side wall. It eventually leads to the production of high quality chips, with minimal amount of oversize and undersize chips.

