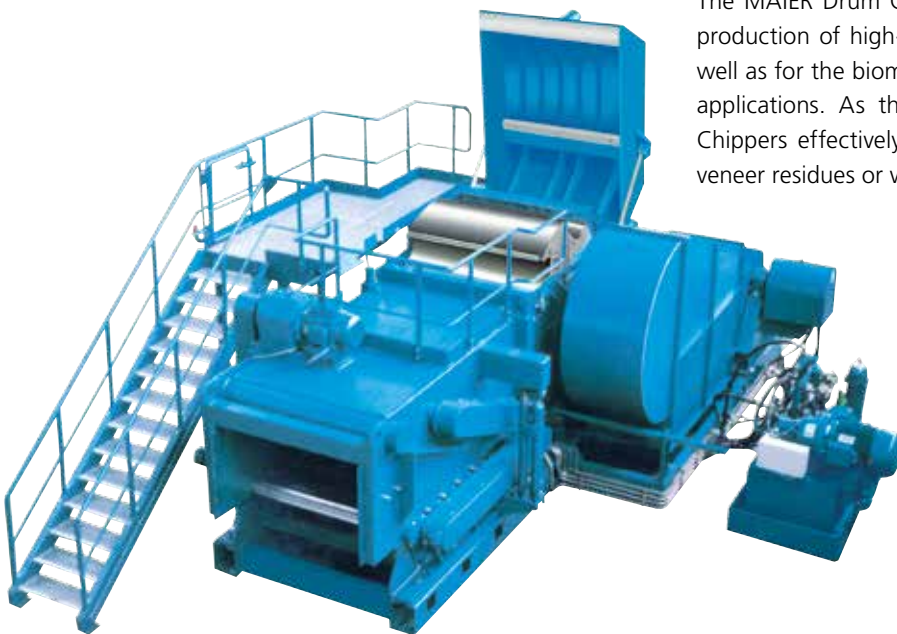


Drum Chipper HRL

Energy-efficient production of quality chips



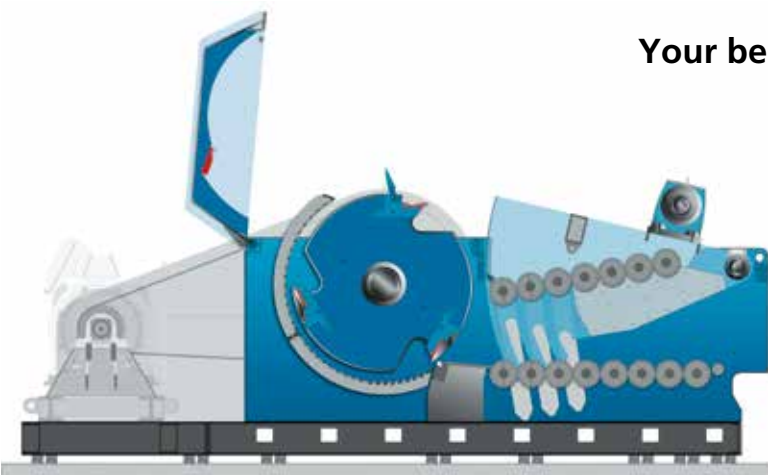
The MAIER Drum Chipper HRL is a high-performance machine for the production of high-quality chips for the PB-, MDF- and OSB-plants, as well as for the biomass, pelletizing, WPC/WFC industry and many other applications. As the core machine for the wood yard MAIER Drum Chippers effectively process round wood, log ends, slabs and offcuts, veneer residues or waste wood.

Feeding of the material to the drum chipper is effected by means of a feeding belt or a vibration conveyor. The material is gripped by specially toothed infeed rollers and continuously fed to the chipping rotor. The knives of the rotor cut the material to the required chip length. To avoid oversized the chipped material passes through an individually adapted refracting grid and is discharged from the machine by a screw, trough-chain or belt conveyor.

Depending on the individual requirements, the chippers can be equipped with various features.

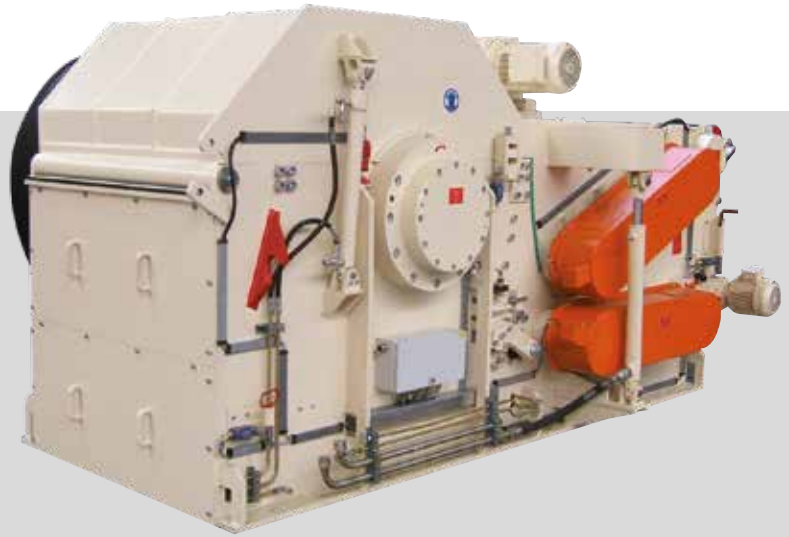
Your benefits

- + – Wide field of application
- Free choice of wood assortment
- Optimal chip quality
- Chip length of 4–180 mm
- Energy-efficient size-reduction
- Capacity of 6–160 t bd./h
- Individual turn-key solutions for chipping lines incl. tailor-made conveyor systems
- Tried and trusted worldwide
- Advanced and reliable technology
- Low maintenance and service-friendly
- High machine availability



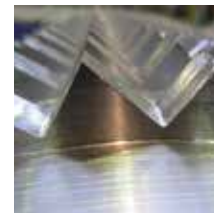
Drum Chipper HRL

Features



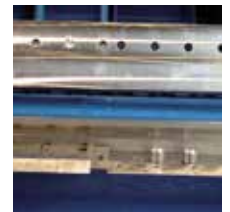
Infeed system

- Specially adapted fast rotating clearing roller to avoid damages of the feeding belt
- Infeed rollers with aggressive shaped teeth for optimal material feeding; narrow running gaps prevent clogging of material
- Infeed rollers in segmented design to reduce maintenance time (optional)
- Lateral swing side wall sealing with pivot mounted special seal plate for clean operation of the chipper



Chipping rotor

- Slewable knife clamping plate for quick and easy knife replacement
- Exchangeable thread bushes to ensure proper clamping of chipping knives
- Regrindable wear plates under the chipping knives
- Wear-protection of the chip-pocket
- Extra heavy-duty execution to increase the rotational energy to avoid current peaks
- Rotor brake to minimize the braking period



Machine casing

- Counter knife screw-fastened, regrindable, once turnable, hydraulically moveable
- Refractioning grid in welded execution and/or as perforated plate, made of wear-resistant special steel, in divided execution for easy exchange, adapted to input and required output material
- Slewable crane for disassembly of the refractioning grid and lifting of chipper knives to the maintenance platform (optional)
- Specially damped base frame for the reduction of structure-borne noise transmission



Drum Chipper HRL Innovations

1st Stage
MAIER Drum Chipper HRL-OSB



2nd Stage
MAIER Strand Flaker MSF

Maxi-chips production with HRL-OSB

The Drum Chipper type HRL-OSB is designed for the production of OSB maxi chips. This chipper forms the first process step of the 2-stage OSB system developed by MAIER. In the second step, these maxi chips are cut to strands for the production of OSB by the MAIER Strand Flaker MSF.

Among others, maxi chips can be used directly e.g. for the production of charcoal.

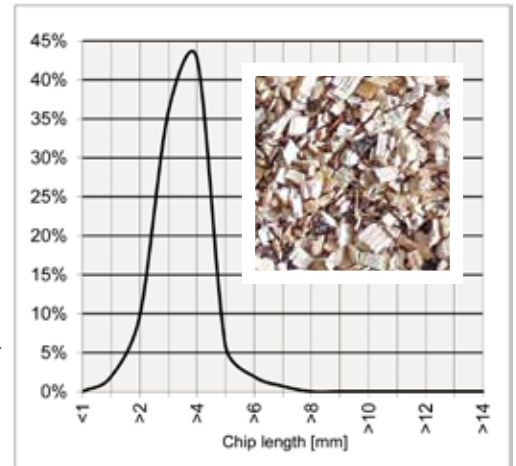
- Special machine design
- Chip length up to 180 mm
- Utilisation of raw materials previously considered to be unavailable for OSB production



Micro-chips production with HRL-M

The special Drum Chipper type HRL-M with modified rotor design is used for the production of very small micro-chips, e.g. for pelletizing and WPC/WFC industry, as well as for smokehouses.

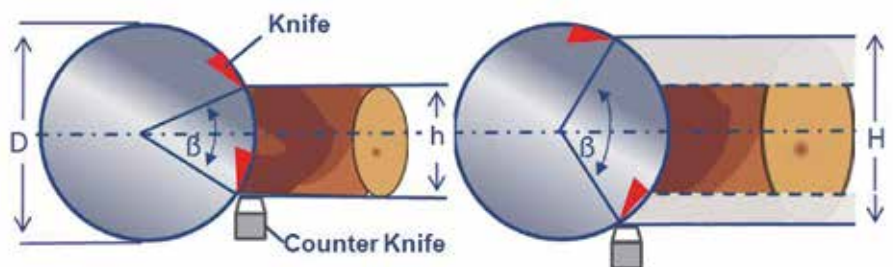
- Special rotor design
- Processing of variable wood assortments
- Continuous production of micro-chips with length ≥ 4 mm possible
- Tight particle size distribution



Biomass production with HRL-B

The Drum Chipper type HRL-B is specially designed for the processing of variable input materials, from green waste up to round wood, into chips for biomass power plants or the pelletizing industry.

- Tried and trusted technology based on the high requirements of the panel board industry
- Robust, reliable, efficient
- Large inlet cross-section
- Optimal material feeding with proven infeed-roller system





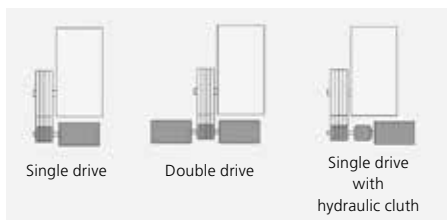
Drum Chipper HRL

Technical Data

Drive concepts for the drum chipper

The Maier Drum Chippers can be equipped with single or tandem drive. Depending on the installed drive power and the electric power supply different start-up concepts can be realized:

- Direct start-up via star-delta switch
- Start-up via soft starter or frequency converter to avoid current peaks
- Start-up via hydraulic starting unit to avoid current peaks
(Uncoupling of the hydraulic motor via clutch after start-up)



Rotor / Infeed openi Height x Width ¹⁾ [mm]	Main Drive [kW]	IR Drive [kW]	Capacity ²⁾ [rm/h]	Capacity ²⁾ [t bd./h]	Chip Vol. ³⁾ [m³/h]	Dimensions ⁴⁾ (L / W / H) [m]	Weight ⁴⁾ approx. [t]
HRL 450 / 150 x 500	30 - 45	2,2 / 2,2	20 - 24	6 - 7	40 - 47	1,6 / 2,2 / 1,2	1,9
HRL 600 / 200 x 650	55 - 75	3 / 3	34 - 40	10 - 12	67 - 80	1,6 / 2,4 / 1,3	5,5
HRL 800 / 250 x 650	75 - 110	5,5 / 5,5	44 - 50	13 - 15	87 - 100	2,4 / 1,7 / 1,4	7,5
x 800	90 - 132	5,5 / 5,5	54 - 64	16 - 19	107 - 127	2,4 / 1,8 / 1,4	8,3
HRL 1000 / 350 x 800	110 - 160	7,5 / 7,5	74 - 87	22 - 26	147 - 173	2,8 / 2,1 / 1,7	11
x 1000	132 - 200	7,5 / 7,5	94 - 110	28 - 33	187 - 220	2,8 / 2,3 / 1,7	13
HRL 1200 / 450 x 800	200 - 315	11 / 11	97 - 114	29 - 34	193 - 227	3,5 / 2,5 / 1,9	14
x 1000	250 - 355	11 / 11	117 - 140	35 - 42	233 - 280	3,5 / 2,7 / 1,9	15,5
x 1200	250 - 355	11 / 11	144 - 170	43 - 51	287 - 340	3,5 / 2,9 / 1,9	17
HRL 1400 / 550 x 1000	315 - 500	15 / 15	144 - 170	43 - 51	287 - 340	4,2 / 2,6 / 2,1	22
x 1200	355 - 500	15 / 15	177 - 210	53 - 63	354 - 420	4,2 / 2,8 / 2,1	24
x 1500	400 - 630	15 / 15	220 - 260	66 - 78	440 - 520	4,2 / 3,1 / 2,1	26
HRL 1600 / 600 x 1000	400 - 500	18,5 / 18,5	157 - 187	47 - 56	313 - 373	4,4 / 2,7 / 2,1	30
x 1200	500 - 630	18,5 / 18,5	193 - 227	58 - 68	386 - 453	4,4 / 2,9 / 2,4	33
x 1500	500 - 800	18,5 / 18,5	240 - 284	72 - 85	480 - 567	4,4 / 3,2 / 2,4	37
HRL 1800 / 750 x 1000	630 - 800	18,5 / 18,5	200 - 234	60 - 70	400 - 467	5,1 / 2,9 / 2,5	34
x 1200	630 - 800	18,5 / 18,5	240 - 287	72 - 86	480 - 573	5,1 / 3,0 / 2,5	37
x 1500	630 - 1000	18,5 / 18,5	300 - 354	90 - 106	600 - 707	5,1 / 3,3 / 2,5	40
HRL 2000 / 850 x 1200	800 - 1250	22 / 22	274 - 324	82 - 97	547 - 647	5,7 / 3,4 / 2,7	60
x 1500	800 - 1400	22 / 22	340 - 400	102 - 120	680 - 800	5,7 / 3,7 / 2,7	66
x 1700	800 - 1400	22 / 22	384 - 454	115 - 136	767 - 907	5,7 / 3,9 / 2,7	72
HRL 2400 / 1000 x 1500	1000 - 1600	22 / 22	400 - 474	120 - 142	800 - 947	6,8 / 3,9 / 3,0	83
x 1700	1000 - 1600	22 / 22	450 - 534	135 - 160	900 - 1067	6,8 / 4,0 / 3,0	91

IR = infeed roller (upper / lower)

1) Individual machine sizes and motor power upon request 2) Referring to round wood with a wet density of 450 kg bd./m³, a 11–13% filling ratio of the infeed, and a chip length of 40 mm 3) Chip volume flow based on a bulk weight of 150 kg/m³ 4) Dimensions and weight of complete machine without main motor.

Please contact us for further information:



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